SONY

Video Communication System

Operating Instructions (Version 2.2)

Before operating the unit, please read this manual thoroughly and retain it for future reference.



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Owner's Record

The model and the serial numbers are located at the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. PCS-G70/G70P Serial No. _____

WARNING

To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

Use the AC power adapter provided with this equipment as a power supply source. One of the AC power adaptors listed below is supplied.

ManufactureType No.SonyPCS-AC19V6

Any other power sources may result in hazards such as a fire.

Disconnect device of this equipment is the mains plug of the AC adapter.

The mains plug on this equipment must be used to disconnect mains power.

Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

In the event of abnormal operations, disconnect the mains plug.

NOTICE

Use the power cord set approved by the appropriate testing organization for the specific countries where this unit is to be used.

CAUTION for LAN port

For safety reasons, do not connect the LAN port to any network devices that might have excessive voltage.

Installing batteries

Two R03 (size AAA) batteries are supplied for Remote Commander. To avoid risk of explosion, use R03 (size AAA) manganese or alkaline batteries.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

For the customers in the USA

WARNING

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment. The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart B of Part 15 of FCC Rules.

This manual focuses on using ISDN lines to conduct a videoconference, but it also covers non-ISDN lines. If you use ISDN lines, consult your Sony dealer for more information.

• The ISDN service may not be available in some areas.

For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Voor de klanten in Nederland

Dit apparaat bevat een vast ingebouwde batterij die niet vervangen hoeft te worden tijdens de levensduur van het apparaat.

Raadpleeg uw leverancier indien de batterij toch vervangen moet worden. De batterij mag alleen vervangen worden door vakbekwaam servicepersoneel.

Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).

Lever het apparaat aan het einde van de levensduur in voor recycling, de batterij zal dan op correcte wijze verwerkt worden.



If you dispose the unit, consult your nearest Sony Service Center. The built-in battery must be treated as a chemical waste.

For the customers in Europe

WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures. In the case that interference should occur, consult your nearest authorized Sony service facility.

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Chapter 1: Installation and Preparation

Using This Manual

The chapters cover the following contents; please read the chapters that may be required for your type of videoconference.

Chapter 1: Installation and Preparation

This chapter guides you through the system configuration and information required to use your Video Communication System for the first time. It shows you how to install and connect your Video Communication System, to turn the system on/off and how to access basic on-screen menus.

Chapter 2: Registration and Setup for System Administrator

This chapter describes how to register and set up all the necessary items for system administrators, using the on-screen menus.

Chapter 3: Daily Videoconference

This chapter guides you through the basic operations and settings to conduct a videoconference. You will learn how to conduct a conference from start to finish. It is recommended that this chapter be read by participants in the videoconference.

Chapter 4: Videoconference With Optional Equipment

This chapter shows advanced videoconferencing using the optional equipment. and functions such as streaming and recording.

Chapter 5: Data Conference

This chapter shows you how to use the data from a computer for the conference by using the optional Data Solution Box.

Chapter 6: Videoconference Using a Whiteboard

This chapter shows how to use a whiteboard with the mimio Xi* attached for a videoconference.

* mimio[®] is a registered trademark of Virtual Ink Corporation of the United States.

minio Xi is a trademark of Virtual Ink Corporation of the United States.

Chapter 7: Encrypted Videoconference

This chapter shows how to conduct a videoconference using an encrypted video and audio data, and encrypted data from a computer connected to the Data Solution Box.

Chapter 8: Multipoint Videoconference

This chapter shows you how to use the Video Communication System to hold a multipoint videoconference.

You need to install MCU software in this System for a multipoint videoconference.

Chapter 9: Videoconference Using SIP

This chapter guides you how to conduct a videoconference using SIP with an IP phone, etc. Installing the optional SIP software is required for a session using SIP.

Chapter 10: Web Control Function

This chapter shows you how to control the PCS-G70/G70P or set it up via a Web browser.

Appendix

The appendix contains descriptions of the controls and connectors on the components of the Video Communication System, message and troubleshooting lists, specifications, and a glossary.

Features

The PCS-G70/G70P Video Communication System is a videoconferencing system that provides natural, face-to-face communications with a remote party by transmitting and receiving images and sound via LAN (Local Area Network) or ISDN (Integrated Services Digital Network) connections.

Supports ITU-T international videoconferencing standard

The Video Communication System complies with ITU-T Recommendations defined by WTSC for easy connection with remote parties overseas.

ITU: International Telecommunication Union

WTSC: World Telecommunications Standardization Committee

Supports data conferences

Use of the optional PCSA-DSB1S Data Solution Box allows the data from a personal computer to be incorporated in the presentation or to be shown on the projector.

High transmission speeds and high-quality picture capability

The Video Communication System accepts a LAN bandwidth of up to 4 Mbps. It also allows you to connect to as many as three ISDN lines and use 6B channels with the optional PCSA-B384S ISDN Unit, and as many as six ISDN lines and use 12B channels with the optional PCSA-B768S ISDN Unit. (When you use PRI, you can connect to one line and use 23B channels (T1) or 30B channels (E1).)

Wide range of video/audio compression format selectable

The Video Communication System supports H.264, H.263 4CIF, H.263, H.261, MPEG4, interlaced SIF (H.264/H.263) video compression formats. It also supports MPEG4 AAC, G.722.1, G.722, G.729, G.728, G723.1, and G.711 audio compression formats.

QoS (Quality of Service) function for optimization of bandwidth and traffic packet through network

This system includes the "Packet Resend Request", "Adaptive Rate Control", and "Forward Error Control" functions. Depending on the network status, these functions are used in Hybrid to guarantee consistent, high-quality communications.

Supports the transmission of two different video signals (dual video function)

Using two cameras, you can display the speaker and the entire conference room simultaneously, strengthening the sense of reality of the videoconference.

Easy setup and operation

Help is displayed on the monitor when you need guidance. The menus used by the system administrator or those by conference participants are displayed separately.

The Video Communication System supports UPnP (Universal Plug and Play) to allow automatic NAT configuration.

Supports multipoint picture display on 5 monitors

You can display pictures from multipoint terminals on 5 monitors simultaneously. Terminal names are also displayed on the monitor.

Supports multipoint conference

Installing the optional PCSA-M3G70 H.323 MCU software (for LAN) or the PCSA-M0G70 H.320 MCU software (for ISDN) allows conduct of a multipoint conference.

The multipoint conference via LAN and ISDN connections mixed is also available if both the PCSA-M3G70 H.323 and PCSA-M0G70 H.320 MCU software are installed in a main terminal.

Equipped with a Memory Stick slot

The Communication Terminal is equipped with a Memory Stick slot, allowing the use of still images recorded with a digital still camera and stored in the "Memory Stick".

Videoconference Recording

Video and audio from a videoconference can be recorded to a "Memory Stick" and watched on a computer after the videoconference.

Videoconference Streaming

You can broadcast streaming video and audio from a videoconference. This allows people who cannot attend the videoconference to watch the proceedings over the Web using a computer. You can also select whether to broadcast both video and audio or audio only.

Triple monitor system

You can connect three monitors to the Communication Terminal, which allows you, for example, to display video from the remote party, video from your terminal, and video from a computer or whiteboard simultaneously.

Supports encrypted videoconferences

The terminal allows you to hold a strictly confidential videoconference using standard encryption, which complies with the ITU-T recommendation H.233, H.234, and H.235, or custom encryption.

An encrypted videoconference among multiple points or with cascade connection is available if all the terminals are connected via LAN. An encrypted videoconference is available via ISDN or mixed LAN and ISDN connection when using standard encryption.

Tracking Camera

The PCSA-CTG70/CTG70P Camera Unit offers face, movement, and voicedirectional detection. The camera automatically detects and focuses on a speaker's face, and can track and follow the movement of a specific speaker. There are some limits to the setup environment. For details see "Using the PCSA-CTG70/CTG70P Camera Unit" on page 152.

Echo Cancelling Microphone

Up to 80 PCSA-A7 Microphones (optional) can be connected to one port without losing sound quality, using a cascade connection.

Supports a conference using SIP

Installing the optional PCSA-SP1 SIP software allows conduct of a conference with an IP phone, etc. using SIP (Session Initiation Protocol).

If you install the optional MCU software as well as the SIP software, you can conduct a multipoint conference.



System Components

The PCS-G70/G70P Video Communication System is composed of basic system components for a basic videoconference, and optional equipment for an enhanced videoconference.

Basic System Components

The PCS-G70/G70P Video Communication System is the basic system of the PCS-G70/G70P Videoconferencing System. It contains the following components:

Unit	Description
PCS-PG70/PG70P Communication Terminal	Contains the video codec, audio codec, echo canceler, network interfaces and system controller.
PCS-RG70 Remote Commander	Used to operate the Communication Terminal and Camera Unit.
PCS-AC19V6 AC adaptor	Supplies power to the Communication Terminal.
Video Converter Cable	Used to send video output from a pin terminal to an S-video terminal.
IR repeater	Allows you to simultaneously turn on and off the Communication Terminal and the TV that is being used as a monitor.
Remote Control Receiver	Connects to the Communication Terminal and receives signals from the remote commander. The Camera Unit can receive signals, but when the remote control receiver is connected, the receiver takes priority.

Unit	Description	7
Conversion Adaptor	Used to connect Sony cameras other than the standard Camera Unit.	

Optional Equipment

TV monitor

A TV or projector, etc. is required to monitor the images for videoconferencing system.

Unit	Description
TV, Projector, etc.	Used as a monitor and speakers.
••• 5	

Optional equipment especially designed for use with the PCS-G70/G70P

The following optional devices are used to enhance your videoconference.

Unit	Description
PCSA-STMG70 Stand	This stand can be used to place the Communication Terminal on end.
PCSA-STCG70 Camera Stand	Stand for the Camera Unit.
PCSA-CG70/CG70P Camera Unit	Camera to shoot videoconference.

Unit	Description
PCSA-CTG70/CTG70P Camera Unit	Camera to shoot videoconference. Automatically detects the direction of the speaker and trains the camera on his or her face.
PCSA-B384S ISDN Unit	Used to connect to an ISDN line. Up to three ISDN lines; 6B channels usable.
PCSA-B768S ISDN Unit	Used to connect to an ISDN line. Up to six ISDN lines; 12B channels usable.
PCSA-PRI ISDN Unit	Used to connect to an ISDN line through the PRI line interface.
PCSA-DSB1S Data Solution Box	Use of this device allows easy connection with a computer or projector for a data conference.
PCS-A1 Microphone	Omni-directional microphone that picks up sound relatively from all directions, allowing participants to speak from any location. It is recommended to use in a quiet situation.
PCSA-A3 Microphone	Unidirectional microphone. It is recommended when you want to pick up the voice of a speaker directed toward the microphone.
PCSA-A7 Microphone	Narrow coverage microphones that feature high sound quality and a built-in echo canceller. Several PCSA-A7 Microphones can be connected in cascade, without losing sound quality. Recommended when using several microphones.

Unit	Description
PCS-DS150/DS150P Document Stand	Camera for documents. Allows transmission of pictures to the Communication Terminal by infrared signals without connecting a cable. (Currently not available)
CTE-600 Communication Transducer	Integrated microphone/speaker system suitable for remote communication. The uni-directional microphones pick up clear voice with minimum background noise. Moreover, the omni-directional speaker outputs sound equally in all directions.
PCSA-M3G70 H.323 MCU Software	Allows use for a multipoint videoconference over LAN connection.
PCSA-M0G70 H.320 MCU Software	Allows use for a multipoint videoconference over ISDN connection.
PCSA-SP1 SIP Software	Allows conduct of a videoconference using SIP.

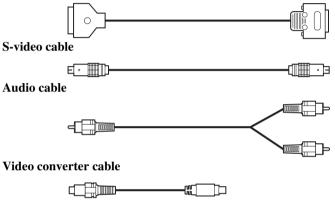
Cables

Use the following cables to connect devices in this system.

PCS-G70/G70P Video Communication System

Cable	Part No.	Number
Camera cable (0.25 m (0.8 ft))	1-827-376-11	1
S-video cable (1.5 m (4.9 ft))	1-776-078-42	1
Audio cable (1 m (3.3 ft))	1-765-258-31	1
Video converter cable (0.15 m (0.5 ft))	1-757-517-11	2

Camera cable



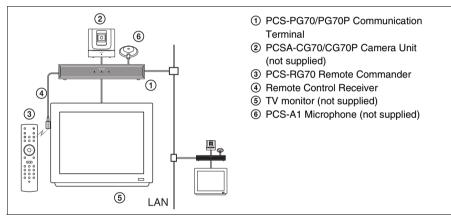
System Configuration

The PCS-G70/G70P Video Communication System has various system configuration capabilities using the basic components and optional equipment. This section describes the capabilities and necessary equipment for some typical configuration examples.

System Configuration via a LAN

This allows you to:

- Hold a point-to-point videoconference over LAN.
- · Show still images stored on a "Memory Stick".



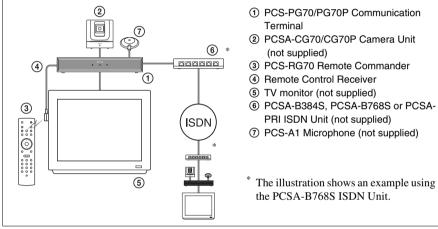
System Configuration via an ISDN

Connection to ISDN is required to use the PCSA-B384S, PCSA-B768S, or PCSA-PRI ISDN Unit especially designed for use with this system.

This allows you to:

- Hold a point-to-point videoconference over ISDN.
- Show still images stored on a "Memory Stick".
- Hold a videoconference with high speeds and highest quality image transmission by connecting up to three ISDN lines (when using the PCSA-B384S), by connecting up to six ISDN lines (when using the PCSA-B768S) or by connecting one ISDN line (when using the PCSA-PRI).

System configuration



About the number of ISDN lines and B (bearer) channel

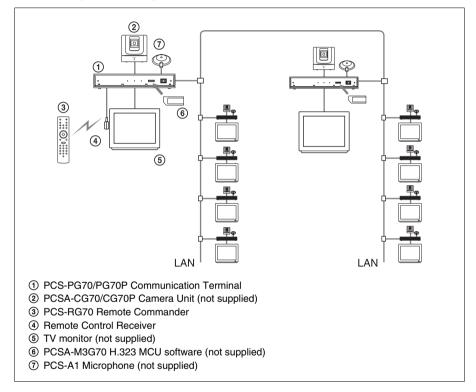
Up to three ISDN lines (6B channels) with the PCSA-B384S ISDN Unit, up to six ISDN lines (12B channels) with the PCSA-B768S ISDN Unit, or one ISDN line (23B channels (T1), 30B channels (E1)) with the PCSA-PRI ISDN Unit can be connected to one PCS-PG70/PG70P. The more channels you use for a single communication, the faster speeds and higher-quality picture you can obtain for your network communication.

System Configuration via a LAN for Multipoint Conference

You need to install the optional PCSA-M3G70 H.323 MCU software.

This allows you to:

- Hold a multipoint videoconference among up to ten sites over LAN.
- Show still images stored on a "Memory Stick".
- Show the still images on the second TV monitor or projector.
- Pick up a large number of participants' voices using up to two external microphones.

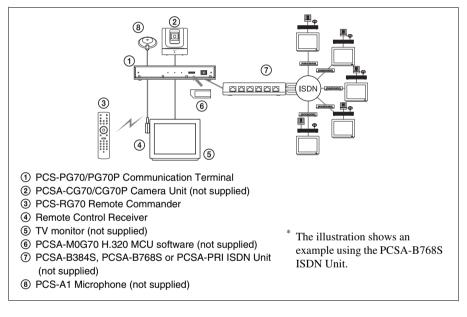


System Configuration via an ISDN for Multipoint Conference

You need to connect the optional PCSA-B384S, PCSA-B768S, or PCSA-PRI ISDN Unit especially designed for use with this system and to install the optional PCSA-M0G70 H.320 MCU software.

This allows you to:

- Hold a multipoint videoconference among up to six sites over ISDN.
- Show still images stored on a "Memory Stick".
- Show the still images on the second TV monitor or projector.
- Pick up a large number of participants' voices using up to two external microphones.



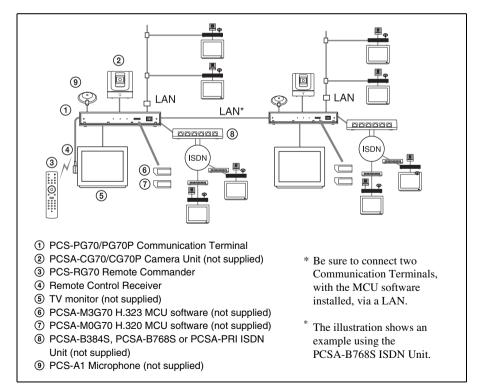
System Configuration via a LAN and ISDN for Multipoint Conference

Installing the optional PCSA-M3G70 H.323 MCU software (for LAN) and PCSA-M0G70 H.320 MCU software (for ISDN) enables conduct of a multipoint conference via a LAN and ISDN mixed.

Two Communication Terminals in which MCU software is installed must be connected via a LAN.

This allows you to:

- Hold a multipoint videoconference among up to ten sites over LAN and ISDN.
- · Show still images stored on a "Memory Stick".
- Show the still images on the second TV monitor or projector.
- Pick up a large number of participants' voices using up to two external microphones.

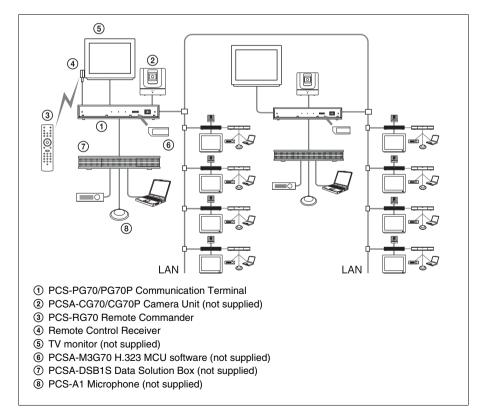


System Configuration via a LAN for Multipoint Data Conference

You need to connect the optional PCSA-DSB1S Data Solution Box especially designed to use with this system and to install the optional PCSA-M3G70 H.323 MCU software.

This allows you to:

- Hold a multipoint videoconference among up to ten sites over LAN.
- Show still images stored on a "Memory Stick".
- Use the data from a computer or external equipment.
- Show the data from a computer or still images on the second TV monitor or projector.
- Pick up a large number of participants' voices using up to five external microphones connected to the Data Solution Box.

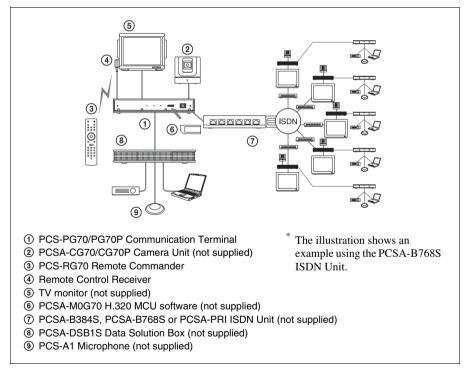


System Configuration via an ISDN for Multipoint Data Conference

You need to connect the optional PCSA-B384S, PCSA-B768S, or PCSA-PRI ISDN Unit and the PCSA-DSB1S Data Solution Box especially designed for use with this System and to install the optional PCSA-M0G70 H.320 MCU software.

This allows you to:

- Hold a multipoint videoconference among up to six sites over ISDN.
- · Show still images stored on a "Memory Stick".
- Use the data from a computer or an external equipment.
- Show the data from a computer or still images on the second TV monitor or projector.
- Pick up a large number of participants' voices using up to five external microphones connected to the Data Solution Box.

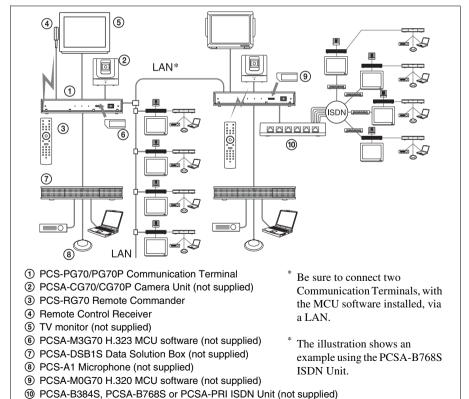


System Configuration via a LAN and ISDN for Multipoint Data Conference

Installing the optional PCSA-M3G70 H.323 MCU software, the PCSA-M0G70 H.320 MCU software, and using the optional Data Solution Box PCSA-DSB1S and ISDN Units PCSA-B384S, PCSA-B768S, or PCSA-PRI enables you to conduct multipoint mixed LAN and ISDN line multipoint data conferences. Two Communication Terminals where the MCU software is installed must be connected via a LAN in this configuration.

This allows you to:

- Hold a multipoint videoconference among up to six sites over ISDN.
- Show still images stored on a "Memory Stick".
- Use data from a computer or other such peripheral device in the videoconference.
- Show still images or computer data on the second monitor or projector used as the display device.
- Connect up to five external microphones to the Data Solution Box, allowing you to hear several participants.

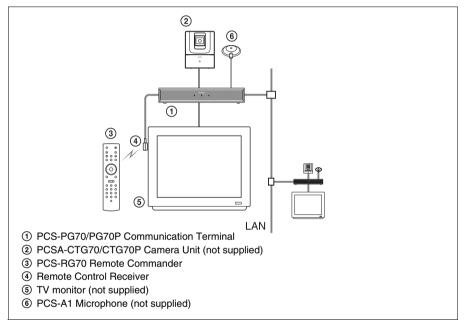


System Configuration using the PCSA-CTG70/CTG70P Camera Unit

This allows you to:

- Hold a point-to-point videoconference over LAN.
- · Show still images stored on a "Memory Stick".
- The PCSA-CTG70 Camera Unit offers face, movement, and voice-directional detection. The camera automatically detects and focuses on a speaker's face, and can track and follow the movement of a specific speaker.

System configuration



Notes

- There are limits to the usage environment of the PCSA-CTG70/CTG70P Camera Unit. For details on setup location requirements, see "Using the PCSA-CTG70/ CTG70P Camera Unit" (page 152).
- To use the features of the PCSA-CTG70/CTG70P Camera Unit, connect it to the first MAIN CAMERA connector. Otherwise, it operates as a secondary camera.
- The camera may not operate correctly if there is a wall or any other object that reflects sound nearby. Place the camera at least 1 m (3.3 ft) away from any walls.
- Voice-directional detection works within a horizontal range of $\pm 60^{\circ}$ from center.
- The internal microphone on the Camera Unit is designed to detect voice-direction and automatically focus the camera on nearby speakers, but cannot be used as a microphone for distant speakers at a large meeting.

For information about the PCSA-CTG70/CTG70P Camera Unit, see "Setting the Tracking Camera Mode" on page 117 or see "Using the PCSA-CTG70/CTG70P Camera Unit" on page 152.

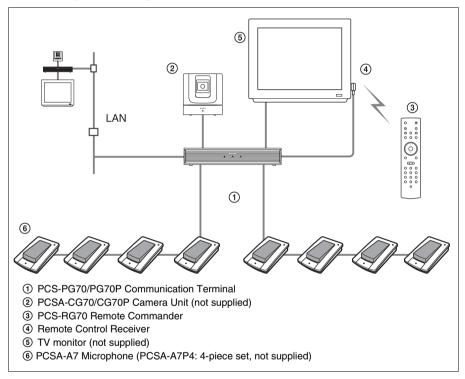


System Configuration using the PCSA-A7 Microphone

This allows you to:

- Connect additional microphones during a videoconference.
- Connect up to 80 PCSA-A7 Microphones to one microphone connector, using a cascade connection. PCSA-A7 Microphones can be connected in cascade, without a decrease in sound quality, ideal for large meetings.

System configuration



Notes

- Position the Microphones about 50 cm (1.6 ft) away from the participants.
- When using speakers, do not place them in front of the microphones.

For information about PCSA-A7 Microphones, see "Using the PCSA-A7 Microphones" on page 166.

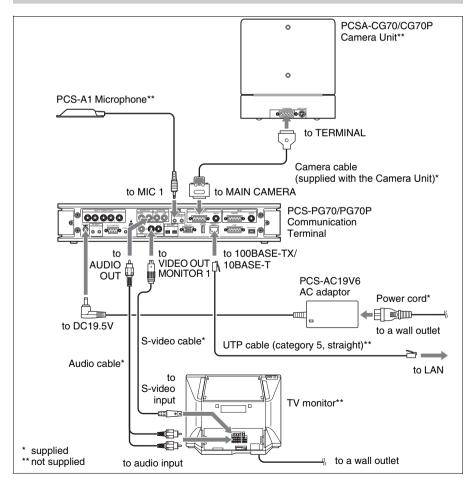
System Connections

This section describes the typical system connections.

Notes

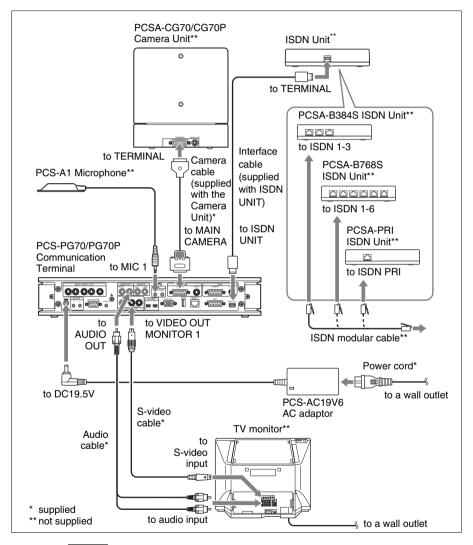
- Be sure to turn off all the equipment before making any connections.
- Do not connect/disconnect the camera cable or the interface cable with the power on. Doing so may damage the Camera Unit, Communication Terminal or ISDN Unit.
- For safety, do not connect the 100BASE-TX/10BASE-T connector to a network that applies an excess voltage via the 100BASE-TX/10BASE-T connector.
- Used with an ISDN Unit for the first time, the Communication Terminal may automatically upgrade the software of the ISDN Unit. While the upgrading message is displayed on the monitor screen, be sure not to turn off the Communication Terminal. Doing so may cause malfunction of the system.

System Connection via a LAN



- · If you are only using one camera, be sure to connect it to the MAIN CAMERA connector
- The AUDIO OUT (MIXED) jack is used to make an audio recording of a conference. This is not used during regular conferences.

System Connection via an ISDN



Notes

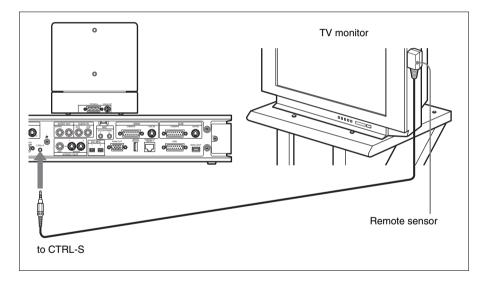
- If you are only using one camera, be sure to connect it to the MAIN CAMERA connector.
- The AUDIO OUT (MIXED) jack is used to make an audio recording of a conference. This is not used during regular conferences.

Preparing the System

Attaching the Remote Control Receiver

Most operations with the Video Communication System can be controlled with the supplied Remote Commander. To use the Remote Commander, point it to the supplied remote control receiver or the remote sensor on the Camera Unit. Connect the remote control receiver to the CTRL-S jack on the Communication Terminal. Use the supplied Velcro to fix the remote control receiver to a monitor, etc.

For details on connecting the Camera Unit, see "System Connections" on page 29.



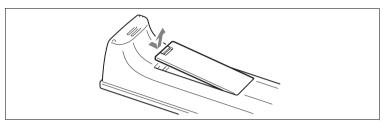
Notes

- Be careful not to hide the surface incorporating the 🖪 indicator, which is the remote sensor of the remote control receiver.
- When an inverter type or brightness-adjustable type of fluorescent lamp is used in a conference room, the sensitivity of the Remote Commander may deteriorate. If the Remote Commander does not function, attach the supplied filter over the remote sensor of the remote control receiver or change the location of the remote control receiver to avoid direct light.
- The remote control receiver and the remote sensor of the Camera Unit do not function at the same time. When the remote control receiver is connected, the remote sensor of the Camera Unit becomes inactive.
- To operate the camera when the Remote Control Receiver is not in use, point the remote commander at the connected camera.

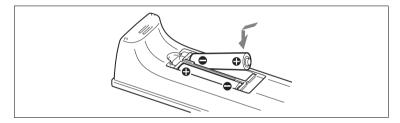
Inserting Batteries into the Remote Commander

Most of the operations with the Video Communication System can be controlled with the supplied Remote Commander.

1 Remove the battery compartment cover.



2 Insert two size AAA (R03) batteries (supplied) with correct polarities into the battery compartment.



Note

Be sure to insert the batteries \bigoplus side first. Inserting them forcibly \bigoplus side first may damage the insulated film covering the batteries and cause a short circuit.

3 Replace the cover.

Battery life

When the Remote Commander does not function properly, replace both the batteries with new ones.

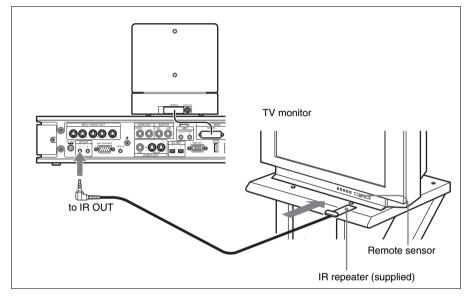
Notes on batteries

To avoid damage from possible battery leakage or corrosion, observe the following:

- Make sure to insert the batteries with the polarities in the correct direction.
- Do not mix old and new batteries, or different types of batteries.
- Do not attempt to charge the batteries.
- If you do not intend to use the Remote Commander for a long period of time, remove the batteries.
- If battery leakage occurs, clean the battery compartment and replace all the batteries with new ones.

Turning On/Off the TV Monitor Together With the Communication Terminal

If you use a Sony TV, insert the IR repeater under the remote sensor of the TV. Once you set the IR repeater, the TV will turn on or go to standby together with the Communication Terminal when you press the I/\odot button on the supplied Remote Commander.



Note

If the TV monitor is not turned on by pressing the $I/(\frac{1}{2})$ button on the Remote Commander, change the "IR Repeater Mode" setting in the General Setup menu.

For details on the "IR Repeater Mode" setting, see "General Setup Menu" on page 59.

Turning the System On/Off

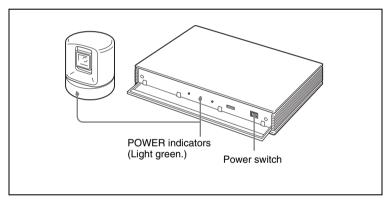
This section describes how to turn on or off the Communication Terminal.

Turning On

1 Turn on the TV monitor.

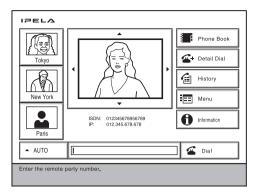
If the IR repeater is installed in the TV monitor, set the TV monitor to standby mode. The TV monitor will turn on simultaneously when the Communication Terminal is turned on.

- **2** Turn on the power of any other equipment to be used for the videoconference.
- **3** Open the front panel of the Communication Terminal, and then slide the power switch on the right to the on position (**I**).



The Communication Terminal turns on after a while. Three indicators on the front of the Communication Terminal and the POWER indicator on the camera light, then only the POWER indicators on both units remain on in green. The launcher menu will appear on the monitor screen and the picture shot by the local camera will also appear in the launcher menu.

Launcher menu





Notes

- After the power is turned on, the camera moves automatically for trial operation. Be careful not to catch your finger.
- If you use force to prevent the camera moving, it may not resume moving and not output a signal to the Communication Terminal. In this case, turn off the terminal, and turn it on again.
- When you turn on the power of the Communication Terminal for the first time after installation, the setup wizard will appear after the self-diagnosis is completed. Set up your system following the wizard.

For setups using the wizard, see "Setting Up the System for the First Time — Initial Setup Wizard" on page 39.

• Used with an optional device especially designed for use with this system, such as the Data Solution Box or ISDN Unit, for the first time, the Communication Terminal may automatically upgrade the software of the connected device. While the upgrading message is displayed on the monitor screen, be sure not to turn off the Communication Terminal. Doing so may cause malfunction of the system. System malfunction may also occur when a system power-off has been caused by an accidental problem such as a power interruption during upgrading. If connection of the Data Solution Box or ISDN Unit to the Communication Terminal is not re-established even after the system power is recovered, consult a Sony dealer.

Standby Mode Function

To save power, the Communication Terminal will enter standby mode if you do not operate it for a specified period of time.

When the Communication Terminal is in standby mode, the POWER indicator lights in orange.

You can turn on the Video Communication System with any button on the Remote Commander if it is in standby mode.

Once the Communication Terminal receives a call, the standby mode is automatically released.

Notes

- The POWER indicator on the camera goes off when the system enters standby mode.
- If you use a Sony TV monitor with the IR repeater installed under the remote sensor, the TV monitor will enter standby mode together with the Communication Terminal.

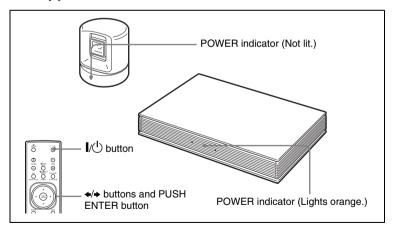
Setting the Video Communication System to Standby Mode

1 Display the launcher menu on the monitor screen, then press the I/ button on the Remote Commander.

The message "Power off?" appears on the monitor screen.

2 Press the ← or → button on the Remote Commander to select OK, and press the PUSH ENTER button.

You may press the I/\bigcirc button on the Remote Commander.



The Video Communication System enters standby mode and the POWER indicator on the Communication Terminal lights in orange. The POWER indicator on the camera goes out.

If the IR repeater is installed in a Sony TV monitor, it will go into standby together with the Video Communication System.



When the Communication Terminal and the Camera are separately installed, point the Remote Commander to the Camera for operations.

To cancel setting the system to standby

Select "Cancel" with the \blacklozenge or \blacklozenge button on the Remote Commander, then press the PUSH ENTER button in step 2 above.

To release the standby mode

Press any button on the Remote Commander.

To specify the standby time

Specify the time that you want the system to remain on before entering into standby mode (1 to 99 minutes) by selecting "Device Setup" on the General Setup menu, and then setting "Standby Time". If you do not want the system to enter the standby mode, set "Standby Mode" to "Off".

For the "Standby Time" and "Standby Mode" settings, see "General Setup Menu" on page 59

Turning Off

- **1** Put the system into standby mode.
- **2** Open the front panel of the Communication Terminal, and then slide the power switch on the right to the off position (O).
- **3** Turn off the power of other equipment used for the videoconference.

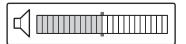
Note

Set the power switch on the Communication Terminal off when the system will not be used for an extended period. While the power switch is off, you cannot receive a call from a remote party.

Adjusting the Volume on the TV Monitor

Before adjusting the volume on the TV monitor, set the volume on the Communication Terminal to the appropriate position.

1 Press the VOLUME +/- buttons on the Remote Commander to set the volume level on the adjustment bar displayed on the screen to the middle position.



2 Adjust the volume on the TV monitor so that you can properly hear a remote party speaking.

To adjust the picture on the TV monitor

Use the controls on the TV monitor to adjust the picture, hue, contrast, brightness or sharpness.

For details on picture adjustments, refer to the Operating Instructions of the TV.

Note

Do not activate the TV's surround sound feature as it may cause the echo canceller of the Communication Terminal not to function properly and make strange sounds.

Displaying Help

Pressing the HELP button on the Remote Commander displays a balloon help or a help screen to guide most operations on the monitor screen.

Note

You can hide the balloon help used for entering characters. Press the MENU button on the Remote Commander to show the menu, and set "Character Input Help" under "Menu Screens" of the General Setup menu to "Off". (See page 59.)

Displaying the Versions and Options

You can check the version of the Communication Terminal, versions of the connected optional equipment for exclusive use with this system, and the options installed in the terminal by displaying the Status menu on the monitor screen.

For details on the Status menu, see "Information Menu" on page 74.

Setting Up the System for the First Time — Initial Setup Wizard

When you turn on the Communication Terminal for the first time after installation and the self-diagnosis is completed, the setup wizard appears on the monitor screen. Register your local system data with the setup wizard using the Remote Commander.

Notes

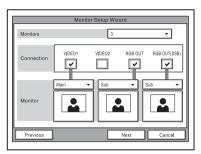
- You can change the settings made with the setup wizard later using the Setup menus.
- The setup wizard will also be displayed when you install the PCSA-B384S, PCSA-B768S, or PCSA-PRI ISDN Unit to your system later. Perform the setup again.
- 1 Select the language used for the onscreen menus and messages in the Language Setup Wizard.
 - Language: Select one of the following languages; English, French, German, Japanese, Spanish, Italian, Simplified Chinese, Portuguese, Traditional Chinese, Korean, Dutch, Swedish, Danish, Finnish, Polish, Russian, or Arabic.



- 2 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "Next", then press the PUSH ENTER button. The Monitor Setup Wizard appears.
- **3** Select a monitor from which signals are output.

Note

If you select a monitor from "Monitor Out", other monitors than that you selected display no menus.



Monitors

Select the number of monitors connected to the system.

- 1: One monitor connected.
- 2: Two monitors connected.
- **3:** Three monitors connected.

Connection

Selects the output connector to which the device to be used is connected.

- **VIDEO 1:** Selects the device connected to the VIDEO 1 connector.
- **VIDEO 2:** Selects the device connected to the VIDEO 2 connector.
- **RGB OUT:** Selects the device connected to the RGB OUT connector as the main monitor.
- **RGB OUT (DSB):** Selects the device connected to the RGB OUT connector on the Data Solution Box.

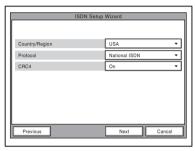
Monitor

Allows you to define the monitor connected to the corresponding connector as the main monitor or the sub monitor.

- Main: Defines the monitor as the main monitor.
- **Sub:** Defines the monitor as the sub monitor.

For details, see "Displaying the Picture on a Projector or Monitor" on page 189. 4 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "Next", then press the PUSH ENTER button. The ISDN Setup Wizard appears when the PCSA-B384S, PCSA-B768S or PCSA-PRI ISDN Unit is connected. When the ISDN Unit is not connected, the LAN Setup Wizard is displayed. Proceed to step 11.

5 Set the following items on the ISDN line.



Country/Region: Select your country or region.

Protocol: Select the protocol of the ISDN line you are using.

CRC4: Select whether to enable CRC4. This option should normally be enabled.

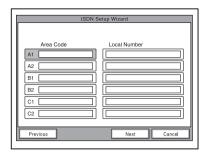
Note

The "CRC4" option appears when using the PCSA-PRI.

6 Use the ♠, ♥, ♦ or ♦ button to select "Next", then press the PUSH ENTER button.

7 Enter the telephone number of the ISDN used by the system.

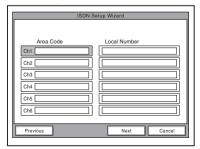
When you use one ISDN line, enter the same number both in the A1 and A2 text boxes (except for the USA and Canada).



- Area Code: Enter the area code. Do not enter the first "0" number.
- Local Number: Enter the telephone number.

Notes

- When you select a blank text box and press the PUSH ENTER button on the Remote Commander, the content in the text box immediately above will be copied to the selected text box.
- When you use the PCSA-B384S ISDN unit and connect 2 or 3 ISDN lines, enter the telephone numbers in the B1 to C2 text boxes in addition to the A1 and A2 boxes.
- When you use the PCSA-B768S and connect 2 to 6 ISDN lines, enter the telephone numbers in the B1 to F2 text boxes in addition to the A1 and A2 boxes. To open the menu with D1 to F2 text boxes, select "Next", then press the PUSH ENTER button.
- When you use the PCSA-PRI, Ch1 to Ch23 (T1), or Ch1 to Ch30 (E1) are displayed. Enter the telephone numbers according to the number of channels you will use.



When you select Auto SPID (only for customers in the USA and Canada)

You can automatically set up the Area Code and Local Number on this page, and SPID items in the SPID menu.

8 Use the ♠, ♥, ♠ or ➡ button to select "Next", then press the PUSH ENTER button.

9 Enter the sub-addresses.

Only numbers are available for a subaddress.

When you use one ISDN line, enter the same number both in the A1 and A2 text boxes (except for the USA and Canada).

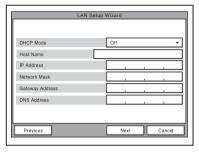
ISDN Setup Wizard
Sub Address
A1:
A2:
B1:
B2:
C1:
C2:
revious Next Cancel

Notes

- When you use the PCSA-B384S ISDN unit and connect 2 or 3 ISDN lines, enter the sub-addresses in the B1 to C2 text boxes in addition to the A1 and A2 boxes.
- When you use the PCSA-B768S and connect 2 to 6 ISDN lines, enter the sub-addresses in the B1 to F2 text boxes in addition to the A1 and A2 boxes. To open the menu with these text boxes, select "Next", then press the PUSH ENTER button.
- When you use the PCSA-PRI, Ch1 to Ch23 (T1), or Ch1 to Ch30 (E1) are displayed. Enter the telephone numbers according to the number of channels you will use.
- 10 Use the ♠, ♥, ♠ or ➡ button to select "Next", then press the PUSH ENTER button.

The message window for confirmation appears.

11 Set the following items on the LAN.



DHCP Mode

Sets the DHCP (Dynamic Host Configuration Protocol).

- Auto: Automatically assigns your IP address, network mask, gateway address and DNS address.
- **Off:** Deactivates DHCP. In this case set your IP address, network mask, gateway address and DNS address manually.

Host Name

Enter your host name (up to 30 characters).

IP Address

Enter your IP address.

Network Mask

Enter your network mask.

Gateway Address

Enter your default gateway address.

DNS Address

Enter your DNS (Domain Name System) server address.

Note

When you set "DHCP Mode" to "Auto", the assigned IP address is shown in the launcher menu (page 91) or Information menu (page 74).

If you do not know how to set up the LAN configuration, contact your network administrator.

12 Use the ♠, ♥, ♠ or ➡ button to select "Save", then press the PUSH ENTER button.

Save	
Previous	Cancel

The settings are saved.

To cancel the setting

Press the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Cancel", then press the PUSH ENTER button.

To go back to the previous wizard

Press the \blacklozenge , \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Previous", then press the PUSH ENTER button.

Using the Menus

The Video Communication System uses the on-screen menus to make various adjustments and settings. This section describes how to adjust or set the items in the menus and gives a brief introduction of the menus.

For the menu configuration, see page 313.

Operation

The basic operation through the menu is explained by taking the Setup menu.

 Press the MENU button on the Remote Commander, or press the ↑,
 , ◆ or → button to select "Menu" and press the PUSH ENTER button in the launcher menu.

	Setup
•	
H	
Lâ.	
` . '	
۳É	Press and hold the [MENU] button to show more
_	detailed setup menus.

The Setup menu appears.

2 Press and hold the MENU button. The Setup menu for the administrator appears.

	Setup					
	🖀 Dial	Answer				
₿		^B Za Status				
	I Audio	Video				
	🛱 General	9 π Administrator				
	LAN	V ISDN				
	1 Information	Encryption				
	🧐 SIP					

3 Use the ↑, ↓, ← or → button on the Remote Commander to select the menu you want to set, then press the PUSH ENTER button.

The selected setup menu appears.

	General	
	Device Setup	
	Menu Screens	
	Whiteboard	
L		Previous

4 Use the ↑, ↓, ← or → button on the Remote Commander to select the menu you want to set, then press the PUSH ENTER button.

The selected setup menu appears.

	General S	ietup	
Device Setup			
Page: 1/2 ► Clock Set		YYY HH:MN 4 10 :10 :10	
CIOCK SET	01/01/200	4 10 .10 .10	,
Terminal Name	PCS-G70		
Standby Mode		Off	•
Standby Time			minutes
Last Number Registration		On	•
Control by Far End		On	•
		Save	Cancel

5 Press the ▲ or ➡ button to select the item you want to set or adjust, then press the PUSH ENTER button.

When an item is selected from the list, the settings for the selected item appear.

	General Se	etup		
Device Setup				
Page: 1/2 Clock Set	MM/DD/YY		SS	
Terminal Name	PCS-G70			
Standby Mode		Off		•
Standby Time	[minutes	
Last Number Registration		On		*
Control by Far End		Off		
	l	Save		Cancel

6 Press the ♠ or ♥ button to select an item from the list, then press the PUSH ENTER button.

Note

For items that require text entry, press the Remote Commander button, enter the desired text, and then press the PUSH ENTER button.

7 The selected Press the ↓ button to select "Save", then press the PUSH ENTER button.

		etup		
Device Setup				
Page: 1/2 >		YYY HH:MM 4 10 :10 :10		
Terminal Name	PCS-G70			
Standby Mode		Off		-
Standby Time			minutes	
Last Number Registration		On		•
Control by Far End		On		*
		Save		Cancel

The selected setting is saved.

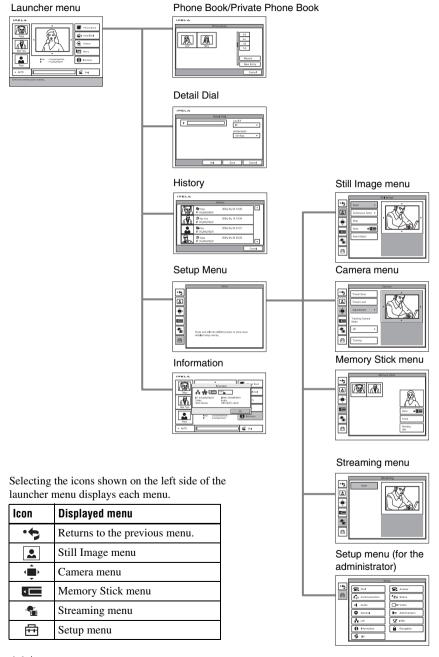
To return to the previous menu

Press the RETURN button on the Remote Commander.

Menu Configuration

The system menus are configured as outlined below.

For details about menu configuration, see "Menu Configuration" on page 313.



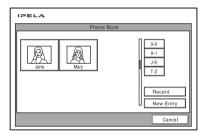
Launcher menu



The launcher menu is displayed when the Video Communication System is turned on or while not connected to a remote party.

For details on the launcher menu, see page 91.

Phone Book

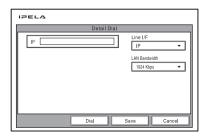


The Phone Book is used to register a remote party, or to call a registered remote party.

The Phone Book appears when you select "Phone Book" on the launcher menu.

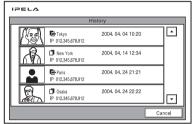
For details on the Phone Book, see pages 77 to 80 and 101 to 103.

Detail Dial



For details on the Detail Dial, see pages 96 to 100.

History



This menu is used to control the videoconference history information. The menu appears when you select "History" on the launcher menu.

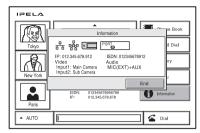
For details on the History, see page 100.

Setup menu

Setup
Press and hold the [MENU] button to show more detailed setup menus.

The menu appears when you select "Menu" on the launcher menu. The menu also appears when you press the MENU button on the Remote Commander.

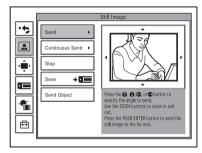
Information



This menu is used to display the current setting status of the Communication Terminal. The menu appears when you select "Information" on the launcher menu.

For details on the Information, see pages 92 to 93.

Still Image menu



The Still Image menu is used to control still images. The menu appears when you select "Menu" on the launcher menu, and then select $\boxed{\begin{array}{c} \end{array}}$ when it appears.

For details on the Still Image menu, see pages 138 to 145.

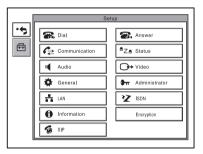
Camera menu



The Camera menu is used to adjust the camera angle or to zoom the displayed image. The menu appears when you select "Menu" on the Launcher menu, and then select () when it appears.

For details on the Camera menu, see page 112 to 116.

Setup menu (for the administrator)



The Setup menu for the administrator is used to set various detailed items on the system.

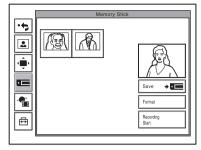
The menu can be displayed by holding down the MENU button on the Remote Commander.

Note

You can also display the Setup menu for the administrator by pressing the numeric button 9 on the Remote Commander twice while the Setup menu (Initial Setup) or the screen in communication is displayed.

For details on the Setup menu (for the administrator), see pages 49 to 74.

Memory Stick menu



The Memory Stick menu is used to use "Memory Sticks". The menu is not available if there is no "Memory Stick" inserted in the Communication Terminal. The menu appears when you select "Menu" on the launcher menu, and then select **mem** when it appears.

For details on the Memory Stick menu, see pages 131 to 135 and pages 143 to 145.

Streaming menu

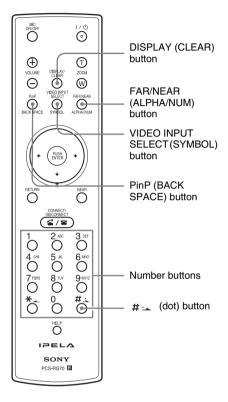


The Streaming menu is used when producing a streaming broadcast of a videoconference. The menu appears when you select "Menu" on the launcher menu, and then select ***** when it appears.

For details on the Streaming menu, see pages 148 to 149.

Entering Characters

This section explains how to enter the letters, numbers or symbols on the text box in the menu using the Remote Commander.



To enter letters or numbers

- 1 Press the FAR/NEAR (ALPHA/ NUM) button repeatedly to enable the letters or numbers to be input.
- **2** Press the number buttons repeatedly to enter the letters or numbers that you want.

You can enter the letter shown on each button by pressing it repeatedly. You can enter the number shown on each button by pressing it.

To enter a symbol

Press the VIDEO INPUT SELECT (SYMBOL) button repeatedly to select the desired symbol. Pressing the 0 button repeatedly also enables you to enter a symbol.

To enter a dot (.) for an IP address

Press the # button.

To delete a character

Press the PinP (BACK SPACE) button. The last entered character is deleted.

To delete all characters in a line

Move the cursor to the line to be deleted, then press the DISPLAY (CLEAR) button.

Note

When you press the HELP button on the Remote Commander to show balloon helps or help screens, you can hide only the balloon help used for entering characters. Select "Character Input Help" from the General Setup menu, then select "Off". (See page 59.)

Chapter 2: Registration and Setup for System Administrators

This chapter describes the registration and settings to be carried out by the system administrator. The chapter is intended to be read by the system administrator.

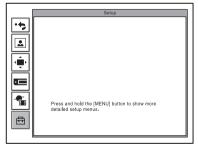
Registering Local Information

Before starting a conference, register the required information on the local terminals of the system using the Setup menu for administrator. This section describes how to display the Setup menus for the administrator and gives a introduction to the menus.

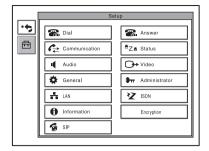
Opening the Setup Menu for the Administrator

 Press the MENU button on the Remote Commander, or use the ↑, ↓,
 ♦ or ♦ button to select "MENU" in the launcher menu, then press the PUSH ENTER button.

The Setup menu appears on the monitor screen.



2 Hold down the MENU button. The Setup menu for the administrator appears on the monitor screen.



Note

You can also display the Setup menu for the administrator by pressing the numeric button 9 on the Remote Commander twice while the Setup menu or the screen in communication is displayed.

Menus available in the Setup menu (Administrator)

Selecting the following items opens their respective menus. Dial: Dial Setup menu (see page 50) Answer: Answer Setup menu (see page 52) **Communication:** Communication Setup menu (see page 52) Status: Status menu (see page 55) Audio: Audio Setup menu (see page 56) Video: Video Setup menu (see page 58) General: General Setup menu (see page 59) Administrator: Administrator Setup menu (see page 62) LAN: LAN Setup menu (see page 66) **ISDN:** ISDN Setup menu (see page 70) Information: Information menu (see page 74) Encryption: Encryption menu (see page 74) SIP: SIP setup menu (see page 75) Note

The SIP setup menu only appears when the PCSA-SP1 optional SIP software is installed.

3 Use the ↑, ↓, ↓ or → button on the Remote Commander to select the menu you want to set, then press the PUSH ENTER button.

The selected setup menu appears.

Dial Setup			
Page: 1/2 >			
Line I/F	IP 🔻		
Bonding	Auto		
Telephone Mode	Auto		
More Options Enable	Off		
User Name Input	Off		
	Save Cancel		

4 Set the respective items.

For details on individual items, see the relevant menu pages.

5 After the setting is completed, use the
↑, ◆, ◆ or → button to select "Save", then press the PUSH ENTER button. The setting is saved, and the Setup menu (for the administrator) is restored.

To cancel the setup

Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander to select "Cancel", then press the PUSH ENTER button. Or press the RETURN button on the Remote Commander.

To page up or down the selected menu

Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander to select the Page box, then press the \blacklozenge button to advance the page and the \blacklozenge button to go back to the previous page.

Dial Setup Menu

The Dial Setup menu is used to set the attributes for dialing.

Page 1/2

D	ial Setup
Page: 1/2 +	
Line I/F	IP 🔻
Bonding	Auto 💌
Telephone Mode	Auto 💌
More Options Enable	Off 🗸
User Name Input	Off 🗸
	Save Cancel

Line I/F

Allows you to select the line interface that you normally use.

- **IP:** Connects a videoconferencing system via a LAN.
- **ISDN:** Connects a videoconferencing system via ISDN.
- **ISDN (Telephone):** Connects an audio-only telephone via ISDN (voice meeting).
- **SIP:** Connects to an IP phone using an SIP server.

Bonding

Allows you to select whether you use a process called bonding to connect multiple ISDN lines.

Through bonding, the connection of one line enables you to automatically connect all other lines.

* Bonding (Bandwidth on Demand Interoperability Group) is a registered trademark of THE BONDING CONSORTIUM.

Auto: Automatically activates the connection through bonding if this feature is available at the remote party.

On: Always connects a remote party through bonding.

Telephone Mode

Allows you to select the audio compression format when conducting a voice meeting.

- **G.711µ-law:** Selects the format based on the G.711µ-law standard.
- **G.711A-law:** Selects the format based on the G.711A-law standard.

More Options Enable

Allows you to select whether you can modify individual dial lists in the Dial Setup menu.

- **On:** Enables the setting of each dial list. When you select "More Options Enable" in the List Edit menu of the Phone Book, the Dial Setup menu appears.
- **Off:** Enables the application of settings to all the dial lists in the Dial Setup menu simultaneously.

User Name Input

Allows you to select whether to register users names in the communications log before communication starts.

- **On:** Select when you want to record user names. Each time dialing takes place, the user name input menu appears.
- **Off:** Disables the recording of the user names.

Page 2/2

	Dia
Prefix	Prefix-None 🔻
Prefix-A	
Prefix-B	
Prefix-C	
Select LAN Prefix	Disable 🔻
LAN Prefix	
	Save Cancel

Prefix

Select the prefix number (call number prefixed to a line number).

- **Prefix-None:** Select when you are not using a prefix number.
- **Prefix-A:** Select when you use the prefix set in "Prefix-A" on page 2 of the Dial Setup menu.

- **Prefix-B:** Select when you use the prefix set in "Prefix-B" on page 2 of the Dial Setup menu.
- **Prefix-C:** Select when you use the prefix set in "Prefix-C" on page 2 of the Dial Setup menu.

Prefix-A

"Prefix" is set to "Prefix-A", the line number prefixed by the prefix (dial number) registered in this box is dialed.

Prefix-B

"Prefix" is set to "Prefix-B", the line number prefixed by the prefix (dial number) registered in this box is dialed.

Prefix-C

"Prefix" is set to "Prefix-C", the line number prefixed by the prefix (dial number) registered in this box is dialed.

Note

Enter "9" when this is required to make an outgoing call.

Select LAN Prefix

Allows you to select whether to use the LAN prefix.

Enable: Enable the LAN prefix. **Disable:** Disable the LAN prefix.

LAN Prefix

When connecting via a LAN, the information entered into this box is added to the beginning of the IP address. Select whether to use the LAN prefix in the Select LAN Prefix option.



Answer Setup Menu

The Answer Setup menu is used to set up call reception.

Page 1/1

Answ	ər
Page: 1/1	
Auto Answer	On 👻
ISDN MSN	Off 👻
Mic on Answer	On 👻
Reject Answer	Off 👻
	Save Cancel
	Save Cancel

Auto Answer

Allows you to select whether the system answers calls automatically.

- Auto Answer: Answers calls automatically. When a call comes in, the line is automatically connected.
- **Off:** Allows you to answer calls manually. When a call comes in, the phone rings. If you select "OK" in the "Respond?" message, the line is connected.

ISDN MSN

Allows you to select whether you are using the Multiple Subscriber Number.

- **On:** Select when you use the Multiple Subscriber Number.
- **Off:** Select when you do not use the Multiple Subscriber Number.

Mic on Answer

Allows you to select whether to transmit audio from your site when answering a call from the remote party.

On: Transmit audio when answering a call. **Off:** Do not transmit audio when answering

a call.

Reject Answer

Allows you to select whether to connect a remote party calling during a videoconference.

 $\mathbf{O} = \mathbf{D}^{\dagger} + \mathbf{1} + \mathbf{1}$

On: Disables the connection of a remote party. **Off:** Enables the connection of a remote

party.

Communication Setup Menu

The Communication Setup menu is used to set up communications.

Note

Contents of the Communication Setup menu vary according to the settings configured by "Individual Settings", and to whether the MCU software (see page 210) is installed or not.

Page 1/3

C	Communication
Page: 1/3 >	
Individual Settings	Off
Number of Lines	4B(256K)
LAN Bandwidth	1024Kbps
	Save Cance

Individual Settings

Allows you to select whether to perform transmission, reception, and multipoint settings individually.

On: Select to perform transmission, reception, and multipoint settings individually.

Off: Select to perform all settings simultaneously.

Number of Lines

Allows you to select the number of ISDN channels used in bonding calls. If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission, reception, and multipoint conferencing.

LAN Bandwidth

Allows you to select the bandwidth used when connected to a LAN. If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission, reception, and multipoint conferencing. Page 2/3

4 Page: 2/3 ▶	
Video Mode	Auto
Interlace Mode	Auto 🗸
4CIF Mode	Auto 👻
Video Frame	Auto 👻
Audio Mode	Auto 👻
Restrict	Auto 👻

Video Mode

Allows you to select the compression format of pictures sent to a remote party. If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission, reception, and multipoint conferencing.

- Auto: Send pictures matching the format of the remote site.
- **H.264:** Send pictures based on the H.264 format.
- MPEG4: Send pictures based on the MPEG4 format.
- H.263+: Send pictures based on the H.263+ format.
- **H.261:** Send pictures based on the H.261 format (when sending still images using Annex D).
- SIP Video Off: Sends only audio (no pictures) when connected by SIP.

Interlace Mode

Allows you to specify whether to use the interlace SIF format in video mode.

Auto:Send video matching the format of the remote site.

On: Use the interlace SIF format. **Off:** Not to use the interlace SIF format.

4CIF Mode

Allows you to specify whether to use the 4CIF format in video mode.

- Auto: Send video matching the format of the remote site.
- On: Use the 4CIF format.
- Off: Not to use the 4CIF format.

Video Frame

Allows you to select the number of video frames during transmission. If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission, reception, and multipoint conferencing. **Auto:** Switch the number of frames automatically.

- **15fps:** Send CIF format pictures at a maximum rate of 15 frames per second.
- **30fps:** Send CIF format pictures at a maximum rate of 30 frames per second.

Audio Mode

Allows you to select the compression format of audio to be sent to a remote party. If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission, reception, and multipoint conferencing.

- **Auto:** Send audio matching the compression format of the remote site.
- MPEG4 Audio: Send audio based on the MPEG4 AAC format.
- **G.722.1:** Send audio based on the G.722.1 standard.
- **G.722:** Send audio based on the G.722 standard.
- **G.729:** Sends audio based on the G.729 standard.
- **G.728:** Sends audio based on the G.728 standard.
- **G.723.1:** Sends audio based on the G.723.1 standard.
- **G.711:** Sends audio based on the G.711 standard.

Note

When the remote videoconferencing system does not support the audio mode selected by the local site, the mode automatically becomes "G.711".

Restrict

Allows you to select the ISDN transmission rate at dialing. If you set. "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission, reception, and multipoint conferencing.

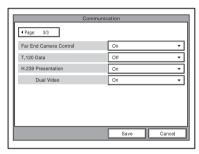


- Auto: Select when connecting a remote party via a normal ISDN line.
- **56K:** Select when connecting a remote party located in a region or country where the ISDN transmission rate is 56 Kbps.

Note

The system is set to connect an ISDN line at the transmission rate of 64 Kbps by default. However, some countries, such as the USA, and some regions may use the ISDN transmission rate of 64 Kbps and 56 Kbps. You may not communicate with such countries or regions at 64 Kbps, so you must therefore set "Restrict" to "56K" before dialing.

Page 3/3



Far End Camera Control

Allows you to select whether to enable the control of each other's cameras from each other's site.

If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission and reception.

On: Enables the control of each other's

cameras. This is the default setting. **Off:** Disables the control of each other's cameras.

T.120 Data

Allows you to select whether to perform data conferences with the T.120 standard using NetMeeting (only for ISDN connections). If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission and reception.

On: Enables T.120 data conferences. **Off:** Disables T.120 data conferences.

For details about T.120 data conferences, see "Conducting a Data Conference Using NetMeeting – T.120 Data Conference" on page 176.

H.239 Presentation

Allows you to select whether you can use the presentation mode based on the H.239 standard. If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission and reception. **On:** Enables the presentation mode based on the H.239 standard.

Off: Disables the presentation mode based on the H.239 standard.

Dual Video

Allows you to select whether you can use the dual video function based on the H.239 standard.

If you set "Individual Settings" to "On" on page 1 of the Communication Setup menu, you can perform this setting individually for transmission and reception.

If H.239 presentation is set to "Off", the dual video option does not display.

- **On:** Enables the dual video function based on the H.239 standard.
- **Off:** Disables the dual video function based on the H.239 standard.

Page 4/4

This page is only displayed when MCU software (page 210) is installed.

Co	ommunication	
✓ Page: 4/4		
Multipoint Mode	Auto	•
Broadcast Mode	Split	•
Split	Automatic	•
Sender Screen	Full Screen	•
		_
	Save Cancel	

Multipoint Mode

Allows you to select whether to conduct multipoint videoconferences.

- Auto: Switch from two-point videoconference to multipoint videoconference automatically.
- **On:** Always conducts a multipoint videoconference.

Broadcast Mode

Allows you to select the broadcast mode.

- **Split:** Displays the video from the connected terminals in split windows.
- Voice Activate: Detects the terminal where the speaker has the loudest voice, and sends the video from this terminal to all other terminals.

Split

Allows you to select the type of split display used to display local and remote video on a single monitor during a multipoint videoconference.

- Automatic: When there are two or three terminals, the display is automatically split into four. When there are four or five terminals, the display is automatically split into six.
- **Six-screen Mosaic:** The display is split into six, regardless of the number of terminals.

Note

When there is one terminal, the display is switched to Full Screen regardless of the display setting.

Sender Screen

Allows you to select the monitor display of transmitting monitors during multipoint videoconference.

Full Screen: Display the entire screen.

- Automatic: When there are two or three terminals, the display is automatically split into four. When there are four or five terminals, the display is automatically split into six.
- **Six-screen Mosaic:** The display is split into six, regardless of the number of terminals.

Note

When there is one terminal, the display is switched to Full Screen regardless of the display setting.

Status Menu

The Status menu shows the current status of communication.

The ISDN Line Status, LAN Line Status or LAN Connection Status will also be displayed depending on the line interface used.

Communication Status

One page for each point connected to the system will be displayed. The connected point is shown at the upper left corner of the page as "Connection A (or B, C....)". The items below are shown both in the columns for "Encode" and "Decode". The descriptions under "Encode" show the setting status of the local system and those under "Decode" show the status of the receiving.

Status Page: 1/4 Communication Status				
Connection A	(Encode)	(Decode)		2
Audio Mode	MPEG4 AAC	MPEG4 AAC	n N	\mathbb{N}
Video Mode	H.264 2SIF	H,264 2SIF		-30/
Frame Rate	60 fps	60 fps	Line I/F	IP
Rate	421 Kbps	421 Kbps	Camera Control	On
MLP Rate	Off	Off	Data Control	Off
HMLP Rate	Off	Off	H239 Presen.	On
LSD Rate	Off	Off	H239 Dual	Off
Check Code: 0123456789ABCDEF End				

Audio Mode

Displays the current audio encoding format.

Video Mode

Displays the current video encoding format.

Note

The audio encoding and video encoding formats used for communication with a remote party may differ from the settings in this menu, depending on the status of videoconferencing system on the remote site.

Frame Rate

Displays the maximum frame rate of motion pictures.

Rate

Displays in real time the number of connected lines and their transfer rates.



MLP Rate

Displays the MLP (Multi Layer Protocol) rate.

HMLP Rate

Displays the HMLP (High Speed Multi Layer Protocol) rate.

LSD Rate

Displays the LSD (Low Speed Data) rate.

Line I/F

Displays the line interface being used.

Camera Control

Displays whether the unit is ready to operate both cameras.

Data Control

Displays whether the unit is ready to hold a T.120 Data conference.

H239 Presen.

Displays whether the unit is ready to use the H.239 presentation mode.

H239 Dual

Displays whether the unit is ready to use the H.239 complaint dual video function.

Check Code

Displays the check code when the H.235 standard encryption method is being used.

Audio Setup Menu

The Audio Setup menu is used to set various audio items.

Page 1/2

The level meter indicating the audio input level is displayed.

	Audio Setup
Page: 1/2 +	
Input Select	MIC 👻
Mic Select	MIC 👻
CTE	• 110
Echo Canceller	On 👻
Lip Sync	• 110
Recording Mute	On 👻
	Save Cacel

Input Select

Allows you to select the audio input.

MIC: Inputs audio from the microphone.

- AUX: Inputs audio from auxiliary external equipment.
- MIC+AUX: Inputs audio from the microphone and auxiliary external equipment.

Mic Select

Allows you to select the microphone to be used.

MIC: Uses the microphone connected to the Communication Terminal.

DSB MIC: Uses the microphone connected to the Data Solution Box.

LINE: Uses the microphone connected to the AUDIO IN LINE jack.

EC-MIC: Select this when using PCSA-A7 Microphones.

CTE

Allows you to select the input where the CTE-600 Communication Transducer is connected.

Off: Does not use the CTE-600 Communication Transducer.

LINE: Inputs from the AUDIO IN LINE jack of the Communication Terminal.

DSB AUX IN: Inputs from the AUX IN jack of the Data Solution box.

Echo Canceller

Allows you to select whether to use the echo canceller.

On: Enables the echo canceller. **Off:** Disables the echo canceller.

Lip Sync

Allows you to select whether to use the Lip Sync function.

On: Enables the Lip Sync function. **Off:** Disables the Lip Sync function.

Recording Mute

When you connect an audio recording device to the AUDIO IN AUX and AUDIO OUT MIXED jacks to record the conference audio, the recording mute function prevents echo from affecting remote sites. This is only available when "Input Select" is set to "AUX" or "MIC + AUX".

On: Enables the recording mute function. **Off:** Disables the recording mute function.

Page 2/2

The level meter indicating the audio input level is displayed.

Aud	io Setup
Beep Sound	On 💌
Sound Effect	On 💌
Dial Tone	On 🔻
Ringer Tone	On 🔻
L	
	Save Cacel

Beep Sound

Allows you to select whether the system beeps each time you press a button on the Remote Commander.

On: Enables beeping.

Off: Disables beeping.

Sound Effect

Allows you to select whether to output sounds when the system starts, a videoconference starts or ends. **On:** Outputs sounds. **Off:** Does not output sounds.

Dial Tone

Allows you to select whether to output a ring-back and busy tones when you are dialing.

On: Outputs dial tones. **Off:** Does not output dial tones.

Ringer Tone

Allows you to select whether to output a ringer tone when you receive a call. **On:** Outputs the ringer tone. **Off:** Does not output the ringer tone.

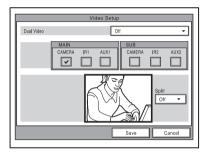


Video Setup Menu

The following menus appear when you select "Video" on the Setup menu for the administrator. Select the desired menu.

Video Setup	
Video Input	
Custom Input Label	
Monitor Out	
-	
	Previous

Video Input



Dual Video

Allows you to split the display in two. **On:** Enables dual video. **Off:** Disables dual video.

MAIN

Allows you to select the video input for Input 1.

- **CAMERA:** Selects the video signal from the device connected to the MAIN CAMERA connector.
- **IR1:** Selects the video signal from the optional PCS-DS150/DS150P Document Stand (Currently not available).
- AUX1: Selects the video signal from the device connected to the MAIN AUX IN connector.

SUB

Allows you to select the video input for Input 2.

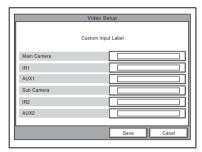
- **CAMERA:** Selects the video signal from the device connected to the SUB CAMERA connector.
- **IR2:** Selects the video signal from the optional PCS-DS150/DS150P Document Stand (Currently not available).
- **AUX2:** Selects the video signal from the device connected to the SUB AUX IN connector.

Split

Allows you to split the display in two. **Off:** Does not split the display.

Horizontal: Splits the display horizontally. **Vertical:** Splits the display vertically.

Custom Input Label

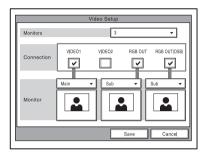


Allows you to set the names displayed in the Video Input Select menu.

- Main Camera: Allows you to enter the name (up to 12 characters) displayed when "Main Camera" is selected in the Video Input Select screen.
- IR 1: Allows you to enter the name (up to 12 characters) displayed when "IR 1" is selected in the Video Input Select screen.
- AUX1: Allows you to enter the name (up to 12 characters) displayed when "AUX1" is selected in the Video Input Select screen.
- **Sub Camera:** Allows you to enter the name displayed when "Secondary camera" is selected in the Video Input Select screen (up to 12 characters).

- IR 2: Allows you to enter the name displayed when "IR 2" is selected in the Video Input Select screen (up to 12 characters).
- **AUX2:** Allows you to enter the name displayed when "AUX2" is selected in the Video Input Select screen (up to 12 characters).

Monitor Out



Monitors

Allows you to specify the number of monitors connected to the system.

- **1:** One monitor connected.
- 2: Two monitors connected.
- **3:** Three monitors connected.

Connection

Select the connector(s) used to connect the monitor(s).

- **VIDEO 1:** Select when the monitor is connected to the VIDEO 1 connector.
- VIDEO 2: Select when the monitor is connected to the VIDEO 2 connector.
- **RGB OUT:** Select when the monitor is connected to the RGB OUT connector of the main unit.
- **RGB OUT (DSB):** Select when the monitor is connected to the RGB OUT connector of the Data Solution Box.

Monitor

Select whether to use the connected monitor as the sub- or main monitor.

Main: The connected monitor is used as the main monitor.

Sub: The connected monitor is used as a sub-monitor.

General Setup Menu

The following menus appear when you select "General" on the Setup menu for the administrator. Select the desired menu.

General Setu	ip
Device Setup	
Menu Screens	
Whiteboard	
	Previous

Device Setup Page 1/2

_	General Setup
Device Setup	
Page: 1/2 +	
Clock Set	11/30/2003 19:25:53
Terminal Name	PCS-G70
Standby Mode	Off 🗸
Standby Time	minutes
Last Number Registration	On 👻
Control by Far End	On 👻
	Save Cancel

Clock Set

Enter the current date and time.

Terminal Name

Input the terminal name transmitted to remote parties (up to 30 characters).

Standby Mode

Allows you to select whether the Communication Terminal enters standby mode if idle for a specified period of time.On: Allows the system to go on standby.Off: Does not allow the system to go on standby.

Standby Time

Specify the time the system must remain idle before entering the standby mode. This time can be between 1 and 99 minutes.

For details on the standby mode, see "Standby Mode Function" on page 36.

Last Number Registration

Allows you to select whether to register the remote party in the Phone Book after the conference is finished.

- **On:** If the remote party is not registered in the Phone Book, the "Register this participant in the list?" message appears on the monitor screen when conference finishes. When you select "OK", the List Edit menu opens.
- **Off:** The message above does not appear and remote party registration does not take place.

Control by Far End

When "Far End Camera Control" is set to "On" in the Communication Setup menu, you can temporarily reject the camera control command transmitted by the remote party.

On: Accepts the camera control command. **Off:** Rejects the camera control command.

Device Setup Page 2/2

Genera	al Setup
Device Setup	
▲Page: 2/2	
Language	English 🔻
IR Repeater Mode	MODE1 -
T.120 PC Address	
	Save Cancel

Language

Allows you to select the menu and display language used by the system. You can select from the following languages: English, French, German, Japanese, Spanish, Italian, Simplified Chinese, Portuguese, Traditional Chinese, Korean, Dutch, Swedish, Danish, Finnish, Polish, Russian, or Arabic.

IR Repeater Mode

Allows you to select the Remote Controller mode of the IR repeater. You should normally select "MODE 1".

- **MODE 1:** Select when using mode 1. This setting does not usually need to be changed.
- MODE 2: Select when using mode 2. Select this mode when the system does not operate properly under "MODE 1".
- MODE 3: Select when using mode 3.
- MODE 4: Select when using mode 4.

T.120 PC Address

When conducting a data conference based on the T.120 standard using NetMeeting, enter the IP address of the computer. (Used for ISDN connections.)

For details on data conferences based on the T.120 standard, see "Conducting a Data Conference Using NetMeeting – T.120 Data Conference" on page 176.

Menu Screens Page 1/3

Gene	ral Setup
Menu Screens	
Page: 1/3 ►	
Time Display	On 🔻
Display Terminal Name	Show temporarily 💌
Character Input Help	On 🔻
Number Display	IP 🔻
	Save Cancel

Time Display

Allows you to select whether you display the elapsed time on the monitor screen during a conference.

On: Displays the elapsed time.

Off: Does not display the elapsed time.

Note

During communication, some items that cannot be modified are also displayed.

Display Terminal Name

Allows you to select whether to display the connected terminal names on the monitor screen.

Off: Not to display the terminal names. **Show temporarily:** Display the terminal

names for a brief moment.

Always show: Display the terminal names.

Note

The terminal names do not display during twopoint videoconferences where "Multipoint Mode" is set to "Auto" in the Communication Setup menu.

Character Input Help

Allows you to select whether to display help text when entering characters and numbers. **On:** Display help. **Off:** Not to display help.

Number Display

Allows you to select the identification of the local system, such as the IP or SIP number, to be displayed in the launcher menu.

- **SIP:User Name:** Displays the user name registered in the SIP server when you conduct a conference using SIP.
- **SIP:Address:** Displays the SIP address when you conduct a conference using SIP.
- **GK:User Alias:** Displays the user name registered in the gatekeeper when you use the gatekeeper.
- **GK:User Number:** Displays the user number registered in the gatekeeper when you use the gatekeeper.
- **NAT:Address:** Displays the NAT address when you connect the system to a network using NAT.
- **IP:** Displays the IP address.
- **No display:** Does not display any identification, such as the IP and SIP numbers, for the system.

Menu Screens 2/3

Allows you to select whether to display menus and buttons of the launcher screen.

	General Setup
Menu Screens	
Phone Book Button	On 💌
Detailed Dial Button	On 💌
Menu Button	On 💌
Information Button	On 💌
History Button	On 🔻
	Save Cancel

Phone Book Button

On: Display "Phone Book". **Off:** Not to display "Phone Book".

Detail Dial Button

On: Display "Detail Dial". **Off:** Not to display "Detail Dial".

Menu Button

On: Display "Menu". **Off:** Not to display "Menu".

Information Button

On: Display "Information". **Off:** Not to display "Information".

History Button

On: Display "History". **Off:** Not to display "History".

Menu Screens 3/3

Allows you to select whether to display menus and buttons of the launcher screen.

General	Setup
Menu Screens	
▲Page: 3/3	
Direct Phone Book Button	On 🔻
Direct Dial	On 🔻
Guide	On 👻
Background	Pattern 1 💌
	Save Cancel

Direct Phone Book Button

On: Display "Direct Phone Book". **Off:** Not to display "Direct Phone Book".

Direct Dial

On: Display the Direct Dial text box. **Off:** Not to display the Direct Dial text box.

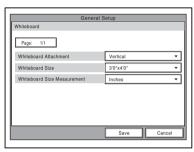
Guide

On: Display the guide. **Off:** Not to display the guide.

Background

Select a background pattern for the menu.

Whiteboard Page 1/1



Whiteboard Attachment

Allows you to select whether to attach the optional mimio-Xi vertically or horizontally on a whiteboard.

- Vertical: Attaches the mimio-Xi vertically on a whiteboard.
- Horizontal: Attaches the mimio-Xi horizontally on a whiteboard.

Whiteboard Size

Allows you to select the size (height \times width) of the whiteboard you are using. The sizes shown in the menu change according to "Whiteboard Attachment" setting.

- "Vertical" setting: Select from 2'0" × 3'0" (0.6 × 0.9 m), 3'0" × 4'0" (0.9 × 1.2 m), 4'0" × 6'0" (1.2 × 1.8 m), and 4'0" × 8'0" (1.2 × 2.4 m).
- **"Horizontal" setting:** Select from 3'0" × 2'0" (0.9× 0.6 m), 4'0" × 3'0" (1.2 × 0.9 m), 6'0" × 4'0" (1.8 × 1.2 m), and 8'0" × 4'0" (2.4 × 1.2 m).

Whiteboard Size Measurement

Allows you to select whether to display the whiteboard size in inches or meters.

- Inches: Displays the whiteboard size in inches.
- Meters: Displays the whiteboard size in meters.

Administrator Setup Menu

The following menus appear when you select "Administrator" on the Setup menu for the administrator. Select the desired menu.

Administrator Setup	
Password	
Phone Book	
Streaming/Recording	
Other Settings	
	Previous

The Administrator Setup menu is used for the system administrators. If you have set the password with this menu, you need to enter it when accessing the setup menus or Phone Book menus to change the items. Entering the password is also required to access the Administrator Setup menu.

Password Page 1/3

Administrator	Setup
Password	
Page: 1/3 ►	
Administrator Password	
Phone Book Modification Password	
Save Settings Password	
Remote Access Password	
Streaming Broadcast Password	
	Save Cancel

Administrator Password

Set the system administrator password (up to 10 characters). This allows the system administrator to modify Administrator Setup and Phone Book menu items.

Note

Be aware that setting other passwords but leaving the system administrator password blank allows for modification and connection without password input.

Phone Book Modification Password

Set the password used to modify the Phone Book (up to 10 characters).

Save Settings Password

Set the password used to save settings (up to 10 characters).

Remote Access Password

Set the password to access the system through a Web browser (up to 10 characters). Access from a Web browser can also be enabled by entering the administrator password.

Streaming Password

Set the password used when a remote party receives a streaming broadcast videoconference from you (up to 10 characters).

Password Page 2/3

Specifies whether to require a password when saving each setting.

	inistrator Setup
Password	
Dial Setup	Enable 🔻
Answer Setup	Enable 💌
Transmission Mode	Enable 🔻
Audio Setup	Enable 🔻
Video Setup	Enable 🔻
General Setup	Enable -
	Save Cancel

Dial Setup

Enable: Requires the password when saving the Dial Setup settings.

Disable: Does not require the password when saving the Dial Setup settings.

Answer Setup

Enable: Requires the password when saving the Answer Setup settings.

Disable: Does not require the password when saving the Answer Setup settings.

Transmission Mode

Enable: Requires the password when saving the Communication Setup settings.

Disable: Does not require the password when saving the Communication Setup settings.

Audio Setup

Enable: Requires the password when saving the Audio Setup settings.

Disable: Does not require the password when saving the Audio Setup settings.

Video Setup

Enable: Requires the password when saving the Video Setup settings.

Disable: Does not require the password when saving the Video Setup settings.

General Setup

Enable: Requires the password when saving the General Setup settings.

Disable: Does not require the password when saving the General Setup settings.

Password Page 3/3

Administrato	or Setup
Password	
▲Page: 3/3	
LANSetup	Enable -
ISDN Setup	Enable 👻
Encryption Setup	Enable 💌
SIP Setup	Enable •
L	Save Cancel

LAN Setup

- Enable: Requires the password when saving the LAN Setup settings.
- **Disable:** Does not require the password when saving the LAN Setup settings.

ISDN Setup

- **Enable:** Requires the password when saving the ISDN Setup settings.
- **Disable:** Does not require the password when saving the ISDN Setup settings.

Encryption Setup

- **Enable:** Requires the password when saving the Encryption Setup settings.
- **Disable:** Does not require the password when saving the Encryption Setup settings.

SIP Setup

- **Enable:** Requires the password when saving the SIP Setup settings.
- **Disable:** Does not require the password when saving the SIP Setup settings.

Phone Book Page 1/2

Administrato	or Setup
Phone Book	
Page: 1/2 >	
Save Phone Book	
+ Load Phone Book	
Clear Phone Book	
	Save Cancel

Save Phone Book

Allows you to save the data in the Phone Book on a "Memory Stick". The data already on the "Memory Stick" is then overwritten.

Load Phone Book

Allows you to load the data in the Phone Book from a "Memory Stick". The data already in the Phone Book is then overwritten.

Note

When saving and loading Phone Book data, make sure that the version of the terminal from which the data was originally saved is the same as the version of the local terminal. If the versions differ, the data may not be properly recognized.

Clear Phone Book

Allows you to delete a Phone book on the Communication Terminal.

Private Phone Book Page 2/2

Phone Book	Administrator	Setup	
Page: 2/2			
Auto Dialing	On		•
Create Private Pho	one Book		
Delete Private Pho	one Book		
+ Copy Private Phor	ie Book]	
	[Save	Cancel

Auto Dialing

Allows you to automatically contact the remote parties of the selected Private Phone Book on a "Memory Stick" when you insert it into the system.

On: Enables automatic dialing.

Off: Disables automatic dialing.

For details, see "To dial a specified list in a Private Phone Book automatically" on page 81.

Create Private Phone Book

Allows you to create an empty folder and file for a Private Phone Book on a "Memory Stick" inserted into the system.

Delete Private Phone Book

Allows you to delete the Private Phone Book on a "Memory Stick" inserted into the system.

Copy to Private Phone book

Allows you to copy the entire contents of the Phone Book to a Private Phone Book on a "Memory Stick" inserted into the system.

Streaming/Recording Page 1/2

Administrate	or Setup
Streaming/Recording Setup	
Page: 1/2 ►	
Streaming	Disabled 🔻
Recording	Enable 🔻
Video	128Kbps 🔻
	Save Cancel

Streaming

Select whether to enable the streaming broadcast of video and audio.

- **Disabled:** Does not permit the streaming broadcast of a videoconference.
- **Enabled:** Permits the streaming broadcast of a videoconference.

Recording

Select whether to enable the recording of video and audio from a videoconference to a "Memory Stick".

- **Disabled:** Does not permit the recording of a videoconference.
- **Enabled:** Permits the recording of a videoconference.

Video

Select a bit rate for streaming and recording video.

Off: Disables the streaming and recording of video.

Note

When Off is selected, only audio can be streamed and recorded.

- **64Kbps:** Streams and records video at 64 Kbps.
- **128Kbps:** Streams and records video at 128 Kbps.
- **384Kbps:** Streams and records video at 384 Kbps.
- **512Kbps:** Streams and records video at 512 Kbps.

Streaming/Recording Page 2/2

Multicast Address	230. 0. 0.	1	
Audio Port Number			49501
Video Port Number			49500
HOP		1	

Multicast Address

Enter the multicast address for streaming broadcasts.

Audio Port Number

Enter the audio port number for streaming broadcasts.

Video Port Number

Enter the video port number for streaming broadcasts.

HOP

Enter a number from 0 to 255 as the HOP for streaming broadcasts.

Other Settings Page 1/1

Other Settings	ministrator Setup
Page: 1/1	
Web Monitor	Off
Web Access	Disabled
→ Save Setup	
+ Cad Setup	
	Save Cancel

Web Monitor

Allows you to permit the monitoring conference status through a Web browser (automatic update of JPEG images).

- **On:** Permits monitoring with a Web browser.
- **Off:** Does not permit monitoring with a Web browser.

Web Access

Selects whether or not to permit accessing the PCS-G70/G70P via a Web browser or Telnet.

- **Disabled:** Prohibits accessing via a Web browser or Telnet.
- **Enabled:** Permits accessing via a Web browser or Telnet.

Save Setup

Saves the data for each setting to a "Memory Stick". The data for each setting saved on the "Memory Stick" is overwritten.

Note

Phone Book and History data are not saved.

Load Setup

Loads the data for each setting from a "Memory Stick". The data for each setting saved on the unit is overwritten.

Note

When saving and loading settings, make sure that the version of the terminal from which the data was originally saved is the same as the version of the local terminal. If the versions differ, the data may not be properly recognized.

LAN Setup Menu

The following menus appear when you select "LAN" on the Setup menu for the administrator. Select the desired menu.

LAN Setup	
General	
Gatekeeper	
SNMP	
PPPoE	
NAT/Port	
QoS	
TOS	
	Previous
	Previous

For details about the settings, consult your network administrator.

General Page 1/2

	LAN Setup
General	
Page: 1/2 ►	
DHCP Mode	• NH
Host Name	
IP Address	
Network Mask	
Gateway Address	
DNS Address	
	Save Cancel

DHCP Mode

Allows you to select whether the Dynamic Host Configuration Protocol (DHCP) server is enabled.

- Auto: The IP address network mask, gateway and DNS addresses are automatically assigned. You should confirm the assigned IP address in the launcher menu or the Information menu after the LAN connection is established.
- **Off:** Disables the DHCP server. In this case, enter an IP address, network mask, gateway and DNS addresses.

Host Name

Enter your host name (up to 30 characters).

IP address

Enter the IP address.

Network Mask

Enter the network mask.

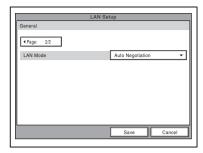
Gateway Address

Enter the default gateway address.

DNS Address

Enter the DNS (Domain Name System) address.

General Page 2/2



LAN Mode

Allows you to select the interface type and the communication mode of the LAN connection.

- Auto Negotiation: The interface type and the communication mode are detected automatically.
- **100Mbps Full Duplex:** Connects via 100BASE-TX in full duplex mode.
- **100Mbps Half Duplex:** Connects via 100BASE-TX in half duplex mode.
- **10Mbps Full Duplex:** Connects via 10BASE-T in full duplex mode.
- **10Mbps Half Duplex:** Connects via 10BASE-T in half duplex mode.

Gatekeeper Page 1/1

LAN	Setup
Gatekeeper	
Page: 1/1	
Gatekeeper Mode	Off 🗸
Gatekeeper Address	
User Alias	
User Number	
L	Save Cancel
	Save Cancel

Gatekeeper Mode

Allows you to select whether to use the gatekeeper to control access to a LAN. Using the gatekeeper allows you to dial using the user name or user number.

Auto: Automatically detects the gatekeeper and uses it.

On: Enables the gatekeeper.

Off: Disables the gatekeeper.

Gatekeeper Address

Enter the address of the gatekeeper used when "Gatekeeper Mode" is set to "On".

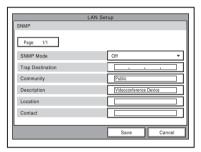
User Alias

Enter the user name (H.323 alias) registered in the gatekeeper.

User Number

Enter the user number (E.164 number) registered in the gatekeeper.

SNMP Page 1/1



SNMP Mode

Allows you to select whether the Simple Network Management Protocol (SNMP) agent is enabled.

On: Enables the SNMP agent. **Off:** Disables the SNMP agent.

Trap Destination

Enter the address of the trap destination SNMP manager.

Community

Enter the community name managed by the SNMP manager (up to 24 characters). By default, this is "public" and this setting does not normally need to be changed.

Description

Enter the description of this terminal. By default, this is "Videoconference Device" and this description does not need to be changed.

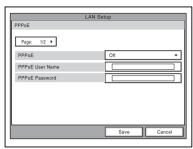
Location

Enter the location where this terminal is installed (up to 30 characters).

Contact

Enter information about the terminal administrator (up to 30 characters).

PPPoE Page 1/2



PPPoE

Allows you to select whether to use PPPoE for LAN connection. When using PPPoE, you can use the B FLET'S* or FLET'S ADSL service without connecting a router. **On:** Uses PPPoE for LAN connection. **Off:** Does not use PPPoE.

Note

Operations of PPPoE for LAN connection are presently verified only for the Japanese NTT B FLET'S and FLET'S ADSL services.

* "FLET'S" is a trademark of NTT East and NTT West Corporations in Japan.

PPPoE User Name

Enter a user name when you use PPPoE for LAN connection.

PPPoE Password

Enter a password when you use PPPoE for LAN connection.

PPPoE Page 2/2

Off 👻
Obtain automatically 💌
[· · ·

Fixed IP for PPPoE

Select whether to make a PPPoE connection using a fixed IP address.

- **On:** Uses a fixed IP address for a PPPoE connection.
- **Off:** Does not use a fixed IP address for a PPPoE connection.

Fixed IP Address for PPPoE

Enter an IP address when "Fixed IP for PPPoE" is set to "On".

PPPoE DNS

Allows you to select whether to obtain DNS server addresses automatically or to specify them manually when connecting to a LAN using PPPoE.

Specify Allows you to specify DNS server addresses.

Obtain automatically: Assigns DNS server addresses automatically.

Primary DNS

Enter a primary DNS address.

Secondary DNS

Enter a secondary DNS address.

NAT/Port Page 1/1

	LAN Setup
NAT/Port	
Page: 1/1	
NAT Mode	Auto
NAT Address	
Port Number Used	Default
TCP Port Number	2253-2263
UDP Port Number	49152-49239
	Save Cancel

NAT Mode

Allows you to select whether you connect the system to a local network using Network Address Translation (NAT), which allows one IP address to be shared by several computers on the same LAN.

On: Enables NAT mode.

Off: Disables NAT mode.

Auto: Enables or disables the NAT mode by automatically detecting the use of NAT. This option is effective only when you use the UPnP router.

NAT Address

Enter the IP address of a global network to be used for NAT mode.

Port Number Used

Allows you to select whether to fix the TCP port and UDP port numbers.

Custom: Uses the port numbers set by the user.

Default: Uses the default port numbers: 2253-2263 as the TCP port number and 49152-49239 as the UDP port number.

TCP Port Number

When "Port Number Used" is set to "Custom", enter the TCP port number.

UDP Port Number

When "Port Number Used" is set to "Custom", enter the UDP port number.

For details on the port numbers used, See "List of Port Numbers Used on the PCS-PG70/PG70P" on page 306.

QoS Page 1/1

Page: 1/1			
Hybrid	Ļ	On	•
Forward Error Correction		On	•
Packet Resend Request		On	•
Adaptive Rate Control	[On	•

Hybrid

Allows you to select whether to use forward error correction, send requests to resend packets, and use adaptive rate control depending on the network status.

- **On:** Forward Error Correction, Packet Resend Request, or Adaptive Rate Control is used automatically depending on the network status.
- **Off:** The three functions above are not used automatically depending on the network status.

Forward Error Correction

Allows you to select whether received packets containing errors are corrected upon reception.

On: Corrects packets. **Off:** Does not correct packets.

Packet Resend Request

Allows you to select whether to request packet to be resent when packet losses occur during communication.

On: Requests packets to be resent.

Off: Does not request packets to be resent.

Adaptive Rate Control

Allows you to select whether to always optimize the LAN bandwidth. **On:** Always optimizes the LAN bandwidth. **Off:** Does not optimize the LAN bandwidth.

Note

You can only configure "Adaptive Rate Control" when "Packet Resend Request" is set to "Off". When "Packet Resend Request" is set to "On", "Adaptive Rate Control" is also always set to "On".

Type of Service (TOS) Page 1/4-4/4

	LAN Setup	
TOS(Video)		
Page: 1/4 >		
TOS	Off	•
IP Precedence		
Low Delay	Off	•
High Throughput	Off	•
High Reliability	Off	•
Minimum Cost	Off	•
	Save	Cancel

Each page allows you to configure the Type of Service (TOS) field of specific types of data.

Page 1: TOS (Video)

Configure the TOS field for video data.

Page 2: TOS (Audio)

Configure the TOS field for audio data.

Page 3: TOS (Presentation/Dual Video)

Configure the TOS field for the RGB data output from the Data Solution Box.

Page 4: TOS (Camera Control)

Configure the TOS field for camera control signals and whiteboard pictures.

TOS

Allows you to select how to define the Type of Service (TOS) field.

Off: Does not define the TOS field.

IP Precedence: Defines the TOS field as IP Precedence.

Diffserve: Defines the TOS field as Diffserve.

IP Precedence

Enter the IP Precedence value, between 0 and 7.

Low Delay

Allows you to select whether to specify the Low Delay bit rate of the TOS field.

- **On:** Specifies the Low Delay bit rate of the TOS field.
- **Off:** Does not specify the Low Delay bit rate of the TOS field.

High Throughput

Allows you to select whether to specify the High Throughput bit rate of the TOS field.

- **On:** Specifies the High Throughput bit rate of the TOS field.
- **Off:** Does not specify the High Throughput bit rate of the TOS field.

High Reliability

Allows you to select whether to specify the High Reliability bit rate of the TOS field.

- **On:** Specifies the High Reliability bit rate of the TOS field.
- **Off:** Does not specify the High Reliability bit rate of the TOS field.

Minimum Cost

Allows you to select whether to specify the Minimum Cost bit rate of the TOS field.

- **On:** Specifies the Minimum Cost bit rate of the TOS field.
- **Off:** Does not specify the Minimum Cost bit rate of the TOS field.

Diffserve

Enter the Diffserve value, between 0 and 63. This item only appears when "TOS" is set to "Diffserve".

ISDN Setup Menu

The ISDN Setup menu is used to set up ISDN lines.

Note

The ISDN Setup menu only appears when the optional PCSA-B384S, PCSA-B768S or PCSA-PRI ISDN Unit is installed in your system.

ISDN Page 1/4

	ISDN Setup	
Page: 1/3 ►		
Country/Region	USA	•
Protocol	National ISDN	•
CRC4	On	-
	Save	Cancel

Country/Region

Allows you to select the country or region where you are using the Communication Terminal. You can select between Europe (except France), France, Japan, USA, China, and Other.

Protocol

Allows you to select the protocol of the ISDN lines to be used. You can select Japan (NTT), Euro ISDN, Euro ISDN (France), National ISDN, 5ESS (P-MP), 5ESS (P-P), or DMS-100, depending on the interface that you are using.

You can select Japan (NTT), Euro ISDN, Euro ISDN (France), National ISDN, 5ESS(P-MP), 5ESS(P-P) or DMS-100 depending on the interface you are using.

CRC4

Select whether to enable CRC4. This option should normally be enabled.

Note

The "CRC4" option appears when using the PCSA-PRI.

For customers in the USA and Canada, see "SPID Settings for Customers in the USA and Canada" on page 72.

ISDN Page 2/4

	ISDN Setup
Area Code	Local Number
A1	
A2	
B1	
B2	
C1	
C2	
	Save Cancel

Area Code

Enter the area code of the ISDN line to be used. Do not enter the first 0 of the area code.

Local Number

Enter the line number (local number) of the ISDN line to be used.

ISDN Page 3/4

The A1 to C2 fields appear.

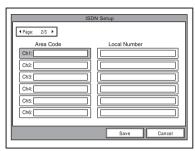
	ISDN Setup	
Sub Addre	ess	
A1		
A2		
B1		
B2		
C1		
C2		
	Save	Cancel

Sub Address

Enter sub-addresses when registering them. Sub-addresses can only be composed of numbers.

Notes

• When you select an empty field and then press the PUSH ENTER button of the Remote Commander, the setting of the previous field is copied into the selected field. • CH1 to Ch23 (T1), Ch1 to Ch30 (E1) text boxes appear when using the PCSA-PRI ISDN Unit.



• When using the PCSA-B768S ISDN Unit, the D1 to F2 text boxes appear on the next page. Fill in the D1 to F2 text boxes according to the lines that you are using.

ISDN Page 4/4

	ISDN
	Page: ◀ 4/4 ▶
1	SPID
	A1:
	A2:
	B1:
	B2:
	C1:
	C2:
	Save Cancel

SPID

Enter SPID (Service Profile Identifier).

For customers in the USA and Canada, see see "SPID Settings for Customers in the USA and Canada" on this page.

Auto SPID

This item is used only for customers in the USA and Canada.

For details, see "SPID Settings for Customers in the USA and Canada" on page 72.

SPID Settings for Customers in the USA and Canada

If you connect to an ISDN switch type, configuration of SPID (Service Profile Identifier) is required. When you select "Auto SPID" in the ISDN Setup Wizard (See page 40), the "Area Code", "Local Number" and "SPID" setup items are automatically set. If "Auto SPID" is not available in your area, set up SPID manually using the ISDN Setup menu.

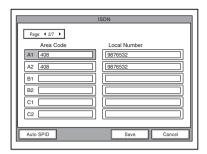
- **1** Open the ISDN Setup menu.
- 2 Enter the country code in the Country/ Region Code text box depending on the network switch type you are using.
 - AT&T 5ESS (National ISDN), NTI DMS-100 (National ISDN): Enter "1". AT&T 5ESS (Multipoint Custom
 - ISDN): Enter "1*10". AT&T 5ESS (Point-to-Point Custom
 - **ISDN**): Enter "1*12".
 - NTI DMS-100 (Custom ISDN): Enter "1*11".

Page: 1/7 >	
Country/Region	USA 🔻
Area Code	1 •
Protocol	Nation ISDN -
	Save Cancel

3 Open page 2 of the ISDN Setup menu to enter the LDN (Local Directory Number) in the Local Number text boxes.

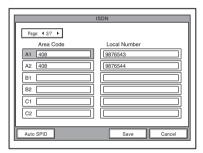
When you use the AT&T 5ESS (Multipoint Custom ISDN) or AT&T 5ESS (Point-to-Point Custom ISDN) switch type

Enter the same LDNs in the A1 and A2 (B1 and B2, C1 and C2, depending on the number of lines you use) text boxes.



When you use the NTI DMS-100 (National ISDN) or NTI DMS-100 (Custom ISDN) switch type

Enter the different LDNs in the A1 and A2 (B1 and B2, C1 and C2, depending on the number of lines you use) text boxes. These switch types are given a separate number for each channel.



When you use the AT&T 5ESS (National ISDN) switch type

You may enter the same or different numbers in two channels.

4 Open page 6 (SPID setup menu) to enter the SPID.

The SPID is generally comprised of 12 digits, including a 7 digit LDN (Local Directory Number). Be sure to enter the different SPID number in each of the A1 and A2 (B1 and B2, C1 and C2, depending on the number of lines you use) text boxes if you have entered the separate LDNs in the Local Number text boxes for each channel in step 3.

For the AT&T 5ESS (National ISDN) and AT&T 5ESS (Multipoint Custom ISDN) switch type

Enter the SPID in the A1 text box only.

ISDN
Page: 4 6/7 >
A1: 019876532001
A2:
B1:
B2:
C1:
C2:
Save Cancel

For the NTI DMS-100 (National ISDN), NTI DMS-100 (Custom ISDN), AT&T 5ESS (National ISDN) switch type Enter the different SPID numbers in the A1 and A2 text boxes.

ISDN
Page: 4 6/7 >
SPID
A1: 019876543001
A2: 019876544001
B1:
B2:
C1:
C2:
Save Cancel

For the AT&T 5ESS (Point-to-Point Custom ISDN) switch type

You do not need to set up the SPID, then no entry in the A1 and A2 (B1 and B2, C1 and C2, depending on the number of lines you use) is required.

Notes

- If you use the PCSA-B768S ISDN unit and connect 4-6 ISDN lines, the D1-F2 text boxes are shown in pages 3 and 7 of the ISDN Setup menu. Fill in the boxes following steps 3 and 4.
- If you use the PCSA-PRI ISDN unit, Ch1 to Ch23 (T1), or Ch1 to Ch30 (E1) are displayed. Enter the telephone numbers according to the number of channels you will use.
- **5** After the settings are completed, select "Save", then press the PUSH ENTER button.

Information Menu

The Information menu shows the versions of the Communication Terminal and the connected equipment for exclusive use, installed software versions, etc.

 Information		
Host Version	Ver X.XX	
ISDN UNIT Version	Ver X.XX	
DSB Version	Ver X.XX	
DSP Version	Ver X.XX	1
Software Option	Multipoint(H.320+H.323)	
Option I/F	DSB, ISDN UNIT	
Host Name	PCS-G70	
IP Address	0. 0. 0. 0	
MAC Address	00-00-00-00-00-00	
Serial Number	12345	End

Host Version

Displays the software version of the Communication Terminal.

ISDN UNIT Version

Displays the version of the connected PCSA-B384S, PCSA-B768S or PCSA-PRI ISDN Unit.

DSB Version

Displays the version of the connected PCSA-DSB1S Data Solution Box.

DSP Version

Displays the version of the built-in DSP (Digital Signal Processor) for audio/video codec.

Software Option

Displays the optional MCU software installed.

None: No MCU software is installed.

Multipoint (H.323): The PCSA-M3G70 H.323 MCU software (for LAN) is installed.

Multipoint (H.320): The PCSA-M0G70 H.320 MCU software (for ISDN) is installed.

Multipoint (H.320 + H.323): Both the PCSA-M0G70 and PCSA-M3G70 MCU software are installed.

SIP: The PCSA-SP1 SIP software is installed.

Multipoint (H.323), SIP: The PCSA-M3G70 MCU software and PCSA-SP1 SIP software are installed.

- Multipoint (H.320), SIP: The PCSA-M0G70 MCU software and PCSA-SP1 SIP software are installed.
- Multipoint (H.320 + H.323), SIP: The PCSA-M3G70 and PCSA-M0G70 MCU software and PCSA-SP1 SIP software are installed.

Option I/F

Displays the optional connected equipment. **None:** No optional equipment is connected.

ISDN UNIT: The PCSA-B384S, PCSA-B768S or PCSA-PRI ISDN Unit is connected.

DSB: The PCSA-DSB1S Data Solution Box is connected.

Whiteboard: A whiteboard is connected.

Host Name

Displays the host name.

IP Address

Displays the IP address.

MAC Address

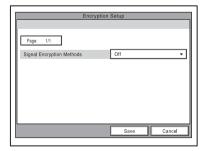
Displays the MAC address.

Serial Number

Displays the serial number.

Encryption Menu

Page 1/1



The Encryption menu is used to conduct a videoconference using the encryption function.

Registering Local Information 75

The encryption function allows you to hold a strictly confidential videoconference.

For details on an encrypted videoconference, see Chapter 7.

Signal Encryption Methods

Selects the encryption method you use. Off: Disables use of the encryption function. Standard encryption: Enables use of the

standard encryption method.

SONY encryption: Enables use of Sony's original encryption method.

Encryption Mode

Displays when "Standard encryption" is selected in the "Signal Encryption Methods" screen.

- **Connect priority:** Connects with encryption to a remote party with standard encrypted connection enabled. Connects without encryption to parties unable to connect with standard encryption or parties with encryption set to off.
- **Encrypt Priority:** Connects only to remote parties with standard encrypted connection enabled.

Encryption Password

Displays when "SONY encryption" is selected in the "Signal Encryption Methods" screen.

Set the password to be entered when conducting encrypted videoconferences (13 to 20 characters).

Notes

- You cannot connect to terminals without the encryption function, terminals with encryption set to off, or terminals with different passwords.
- When "SONY encryption" is selected in the "Signal Encryption Methods" screen, connection without encryption is made to terminals with ISDN connections.
- The encryption function does not support LAN and ISDN cascade connections.

SIP Setup Menu

The SIP Setup menu is used to conduct a videoconference with an IP phone using the SIP (Session Initiation Protocol).

For details on a videoconference using SIP, see Chapter 9.

Note

The SIP Setup menu is available when the system has the optional PCSA-SP1 SIP software installed.

Page 1/7

SIP Se	etup
Page: 1/7 ►	
SIP Server Mode	Off 👻
Transport Protocol	TCP 🔻
Port Number	
SIP Domain	
	Save Cancel

SIP Server Mode

Selects whether you use a SIP server or not. On: Enables use of the SIP server. Off: Disables use of the SIP server.

Transport Protocol

Selects the protocol to be used for SIP.
TCP: Uses TCP (Transmission Control Protocol).
UDP: Uses UDP (User Datagram Protocol).

Port Number

Enter the port number to be used for SIP.

SIP Domain

Enter the SIP domain name.



Page 2/7

S	IP Setup	
Page: 2/7 ▶ Registered User Name Password		
	Save	Cancel

Registered User Name

Enter the user name for the terminal to be registered on the SIP server (up to 39 characters).

Password

Set the password for the terminal to be registered on the SIP server (up to 39 characters).

Note

When you conduct a multipoint videoconference using SIP, enter the user name and password for each terminal. Page 3/7 provides text boxes for the fourth and fifth terminals.

Page 4/7 to Page 7/7

SIP	Setup
Primary	
Proxy Server Address	XXX.com
Proxy Port	
Registrar Server Address	XXX.com
Registra Port	
	Save Cancel

Up to four proxy servers and registrar servers can be used. Enter the address and port number for each server.

Page 4/7 to Page 7/7 allow you to specify the first to fourth servers in order.

Page 4/7: Specifies the Primary server.

Page 5/7: Specifies the Secondary server.

Page 6/7: Specifies the Trinity server.

Page 7/7: Specifies the Fourth server.

Specify the following items for each server.

Proxy Server Address

Enter the domain name of a proxy server to be used for SIP.

Proxy Port

Enter the port number of a proxy server to be used for SIP.

Registrar Server Address

Enter the domain name of a registrar to be used for SIP.

Registrar Port

Enter the port number of a registrar to be used for SIP.

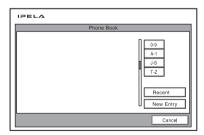
Registering a Remote Party – Phone Book

You can register the telephone number or IP address of a remote party in the Phone Book, allowing you to dial the party very easily. Up to 500 remote parties can be registered in the Phone Book. You can also store a still image such as a participant's portrait in the index list.

You can also create a Private Phone Book on a "Memory Stick" separately from the Phone Book in the Communication Terminal.

Registering a New Remote Party

1 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select "Phone Book" in the launcher menu, then press the PUSH ENTER button. The Phone Book opens.



2 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "New Entry", then press the PUSH ENTER button. The List Edit screen appears.



3 Enter the name of a remote party in the Index text box.

For character input, see "Entering Characters" on page 47.

- **4** Select the line interface you are using to connect to a remote party with "Line I/F".
 - **IP:** Connects to a videoconferencing system on the remote site via a LAN.
 - **ISDN:** Connects to a videoconferencing system on the remote site via an ISDN line.
 - **ISDN (Telephone):** Connects to a phone on the remote site via an ISDN line for a voice meeting.
 - **Multipoint:** Connects to multipoints for a multipoint videoconference via LAN and ISDN.
 - SIP: Connects to an IP phone using SIP.

The List Edit menu switches according to the selected line interface.

5 Set up various items for the line on a remote site.

When "IP" is selected in step 4

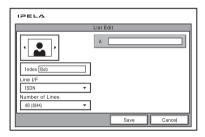
IPELA	
	List Edit
•	9
Index Bob	
Line I/F	
IP	•
Number of Lines	
1024Kbps	•
	Save Cancel

① Enter the IP address of the remote party.

Enter the host name and domain name when using the DNS server (ex. host.domain). When using the gatekeeper, enter the user name and user number registered in the LAN Setup menu (page 66).

Select the LAN bandwidth to be used.

When "ISDN" or "ISDN (Telephone)" is selected in step 4



- Enter the telephone number of the remote party in the telephone number text box beside "A".
 When entering a sub-address, enter an asterisk (*) between the telephone number and subaddress. Only numbers are usable for a sub-address.
 When "More Options Enable" is set to "On" in the Dial Setup menu (page 50), the A1, A2, B1, B2, C1
 - and C2 text boxes appear. Enter the number of the remote party in the A1 text box.
- ② Select the number of the ISDN channels to be used for dialing.

6 Select the icon or a still image stored on a "Memory Stick" to be registered in the Phone Book.



Press the \blacklozenge or \blacklozenge button to select the icon or a still image, then press the PUSH ENTER button.

Note

You cannot select a still image unless a "Memory Stick" in which the still image is stored is inserted.

7 Use the ♠, ♥, ♦ or ♦ button to select "Save", then press the PUSH ENTER button.

The settings are registered in the Phone Book.

Note

When a videoconference with a remote party not registered in the Phone Book is terminated, you can register this remote party to the Phone Book. In this case, the IP address or line number is used as the name of the remote party. Modify it if necessary.

To connect to the remote party without using bonding

If the videoconferencing system of the remote party is not equipped with the bonding function, entering one telephone number does not allow you to connect all the line numbers used to connect to the remote party. To connect to the remote party by entering all the ISDN line numbers used, you can set the connection without using the bonding function of this system. Set "More Options Enable" to "On" in the Dial Setup menu (page 50), select the More Options button at the lower part of the List Edit menu to open the Dial Setup menu, then set "Bonding" to "Auto". The A1, A2, B1,

B2, C1 and C2 text boxes appear in the List Edit menu. Enter all the telephone numbers for the ISDN lines selected by "Number of Lines". Up to 6B-channel connection is available when using this method.

Note

When you set "Number of Lines" to "2B", you can connect to the remote party by selecting "ISDN (2B)" from "Line I/F" in the Detail Dial menu.

To set up more detailed options

When "More Options Enable" is set to "On" in the Dial Setup menu, the More Options button is shown at the lower part of the List Edit menu.

Select the More Options button with the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander and press the PUSH ENTER button to open a menu for more detailed dial settings. You can change the settings of the desired items.

Note

The contents set with the More Options button have priority over those set in the Detail Dial Setup menu.

Changing the Contents of the Phone Book

You can change the telephone number, IP address, name or setting registered in the Phone Book.

- **1** Open the Phone Book menu.
- 2 Use the ♠, ♥, ♠ or ♦ button on the Remote Commander to select the remote party to be changed in the Phone Book menu, then press the PUSH ENTER button.

The submenu appears.

Dial
Edit
Сору
Delete
Cancel

- 3 Press the ▲ or ➡ button on the Remote Commander to select "Edit", then press the PUSH ENTER button. The List Edit menu appears.
- **4** Change the telephone number, IP address, name or setting.
- 5 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "Save", then press the PUSH ENTER button. The correction is completed.

Copying the Setting of the Phone Book Menu

- **1** Open the Phone Book menu.
- 2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select the remote party to be copied in the Phone Book menu, then press the PUSH ENTER button.

The submenu appears.

3 Press the ♦ or ♦ button on the Remote Commander to select "Copy", then press the PUSH ENTER button. The items for the selected party are copied, and the file name is followed by "-2". You can use the setting after modifying the necessary items.

Deleting the Registered Remote Party

Follow the procedure below to delete the remote party from the Phone Book.

- **1** Open the Phone Book menu.
- 2 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select the remote party to be deleted in the Phone Book menu, then press the PUSH ENTER button. The submenu appears.
- 3 Press the ★ or ★ button on the Remote Commander to select "Delete", then press the PUSH ENTER button. The message "Delete Entry?" appears.
- 4 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "OK", then press the PUSH ENTER button. The selected party is deleted.

To cancel deleting

Select "Cancel" in step 4, then press the PUSH ENTER button.

Registering a Remote Party – Phone Book 81

Creating a Private Phone Book

You can create your own Phone Book (Private Phone Book) on a "Memory Stick". Once the Private Phone Book is registered, inserting the "Memory Stick" into the Communication Terminal changes the Phone Book menu to the Private Phone Book menu. You can also activate the Auto Dial feature, allowing you to start dialing automatically to one of the lists simply by inserting the "Memory Stick".

To register a new remote party in a Private Phone Book

 Insert a "Memory Stick" in which you want to register a remote party into the Memory Stick slot on the Communication Terminal. Insert the "Memory Stick" in the direction of the arrow with the mark facing upward.

2 Open "Private Phone Book" of the Administrator Setup menu.

Phone Book

Auto Dialing

Create Private Phone Book

Delete Private Phone Book

For how to open the	menu, see	"Registering
Local Information"	on page 49).

•

Cancel

Save

- **3** Select "Create Private Phone Book". An empty folder and file for a Private Phone Book are created in the "Memory Stick".
- **4** Register a new remote party. The procedure is the same as that for registering in the Phone Book. Proceed with steps 2 to 7 in "Registering a New Remote Party" on page 77.

The procedures for how to change the contents of the Private Phone Book, how to delete the registered remote party, or how to copy the setting of the Private Phone Book are the same as those for the Phone Book. Open the Private Phone Book menu and proceed with the steps described on page 79.

To copy all the contents of the Phone Book to the Private Phone Book

Insert the "Memory Stick" in which you want to store the Private Phone Book into the Memory Stick slot on the Communication Terminal, then select "Copy to Private Phone Book" from the "Private Phone Book" of the Administrator Setup menu. All the data registered in the Phone Book are copied to the inserted "Memory Stick".

To delete the Private Phone Book from the "Memory Stick"

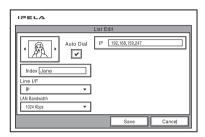
Insert the "Memory Stick" from which you want to delete the registered Private Phone Book into the Memory Stick slot on the Communication Terminal, then select "Delete Private Phone Book" from the "Private Phone Book" of the Administrator Setup menu. All the data are deleted from the inserted "Memory Stick".

To dial a specified list in a Private Phone Book automatically

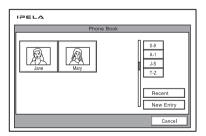
If you set "Auto Dial" in the "Private Phone Book" of the Administrator Setup menu to "On", you can automatically dial one of the lists registered in the Private Phone Book simply by inserting the "Memory Stick" in which the Private Phone Book is registered.

1 Open the Private Phone Book.

- **2** Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander to select the remote party to dial automatically, then press the PUSH ENTER button.
- **3** Press the \blacklozenge or \blacklozenge button on the Remote Commander to select "Edit", then press the PUSH ENTER button. The List Edit menu appears.



- 4 Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander to select "Auto Dial", then press the PUSH ENTER button.
- **5** Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander to select "Save", then press the PUSH ENTER button. The setting is registered and "AUTO" appears on the registered list.



Setting Up the Network Configurations

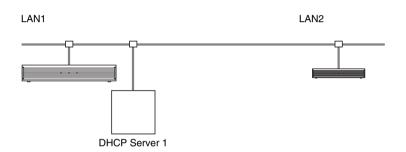
This section describes how to set up the network configurations for use with various networks.

For details on the LAN Setup menu, see "LAN Setup Menu" (page 66).

For details on configurations, consult with the system administrator.

LAN (Connecting via DHCP)

Configuration example



Set the "DHCP Mode" to "Auto" under Page 1/2 of the General screen in the LAN Setup menu.

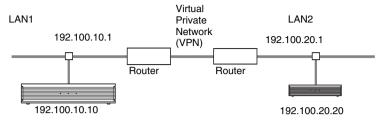
	LAN Setup
General	
Page: 1/2 ►	
DHCP Mode	Auto 👻
Host Name	
IP Address	
Network Mask	
Gateway Address	
DNS Address	
	Save Cancel

The setting has been configured properly if the IP address appears in the launcher menu.

To conduct a video conference

Select "IP" under "Line I/F", enter the remote party's IP address, and dial.

Configuration example



Enter a name in "Host Name" under Page 1/2 of the General screen in the LAN Setup menu, and enter the appropriate values for "IP Address", "Network Mask", and "Gateway Address".

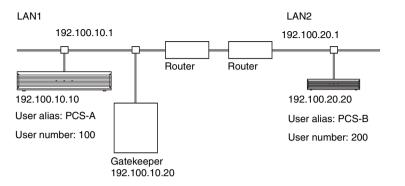
	LAN Se	tup
General		
Page: 1/2 +		
DHCP Mode		Off 🔹
Host Name	Sony	
IP Address		192.100.10.10
Network Mask		255 255 255 0
Gateway Address		192 100 10 1
DNS Address		
		Save Cancel

The setting has been configured properly if the correct IP address appears in the launcher menu.

To conduct a video conference

Select "IP" under "Line I/F", enter the remote party's IP address, and dial.

Configuration example



1 Enter a name in "Host Name" under Page 1/2 of the General screen in the LAN Setup menu, and enter the appropriate values for "IP Address", "Network Mask", and "Gateway Address".

	LAN Se	tup
General		
Page: 1/2 >		
DHCP Mode		Off 👻
Host Name	Sony	
IP Address		192. 100. 10. 10
Network Mask		255, 255, 255, 0
Gateway Address		192, 100, 10, 1
DNS Address		
		Save Cancel

2 Set "Gatekeeper Mode" to "On" under the Gatekeeper screen of the LAN Setup menu, and enter the appropriate values for "Gatekeeper Address", "User Alias", and "User Number".

	AN Setup
Gatekeeper	
Page: 1/1	
Gatekeeper Mode	On 👻
Gatekeeper Address	192. 100. 10. 20
User Alias	PCS-A
User Number	100
	Save Cancel

The setting has been configured properly if the correct IP address appears in the launcher menu and "Registration Confirm" appears on the lower part of Page 2/2 of the General screen in the LAN Setup menu.

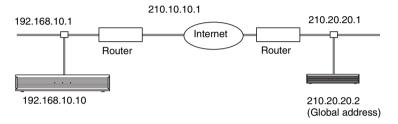
To conduct a video conference

Select "IP" under "Line I/F", enter the user name or user number set by the remote party, and dial.

LAN (Connecting through NAT)

Connection using NAT allows one IP address to be shared by several computers on the same LAN. This section describes how to set up videoconferences conducted in NAT and global IP environments.

Configuration example



1 Enter a name in "Host Name" under Page 1/2 of the General screen in the LAN Setup menu, and enter the appropriate values for "IP Address", "Network Mask", and "Gateway Address".

LAN Setup		
General		
Page: 1/2 +		
DHCP Mode		Off 👻
Host Name	Sony	
IP Address		192. 168. 10. 10
Network Mask		255 255 255 0
Gateway Address		192 168 10 1
DNS Address		
		Save Cancel

2 Set "NAT Mode" to "On" in the Nat/Port screen of the LAN Setup menu, and enter the appropriate IP address in "NAT Address".

LAN Setup		
NAT/Port		
Page: 1/1		
NAT Mode	On 🔻	
NAT Address	210. 10. 10. 1	
Port Number Used	Default	
TCP Port Number	2253-2263	
UDP Port Number	49152-49239	
	Save Cancel	

_		
_		
_		
_		
_		

The setting has been configured properly if the correct NAT address appears in the launcher menu.

To display the NAT address in the launcher menu, you must set "Number Display" to "NAT: Address" in the Menu Screens page of the General Setup menu (page 59).

3 Remote parties must configure Page 1/2 of the General screen in the LAN Setup menu in the same way.

Note

Remote parties do not need to configure the settings in the NAT/Port screen of the LAN Setup menu as they are not in a NAT environment.

To conduct a video conference

Select "IP" under "Line I/F", enter the remote party's IP address, and dial.

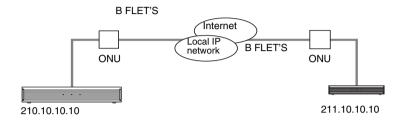
Note

When using the terminal in the NAT environment, you can connect to a remote party (global IP), but for a remote party to connect to you, you must configure your router settings. For details on router settings, consult with the system administrator.

LAN (PPPoE Connections)

When using PPPoE, you can connect via LAN without a router. A modem (using bridge mode) is required when using FLET'S ADSL.

Configuration example



1 Set "PPPoE" to "On" under Page 1/2 of the PPPoE screen in the LAN Setup menu, and enter the PPPoE user name and PPPoE password given to you by the provider.

LAN S	etup
PPPoE Page: 1/2 >	
PPPoE	On 👻
Fixed IP Address for PPPoE	sony@aaa.ne.jp
PPPoE Password	abcdefgh
	Save Cancel
	Cancer

2 If you have a fixed IP from the provider, set "Fixed IP for PPPoE" to "On", and enter your fixed IP address for PPPoE in "Fixed IP Address for PPPoE" under Page 2/2 of the PPPoE screen in the LAN Setup menu.

LAN S	Setup
PPPoE	
Fixed IP for PPPoE	On 👻
Fixed IP Address for PPPoE	210. 10. 10. 10
PPPoE DNS	Obtain Automatically 🔹
Primary DNS	
Secondary DNS	
	Save Cancel

The setting has been configured properly if the correct IP address appears in the launcher menu.

Note

If the fixed DNS server address is specified by the provider, set "PPPoE DNS" to "Specify", and enter the specific addresses in "Primary DNS" and "Secondary DNS".

3 Remote parties must configure in the same way.

To conduct a video conference

Select "IP" under "Line I/F", enter the remote party's IP address, and dial.

ISDN Connections

1 Enter the appropriate numbers for "Area Code" and "Local Number" in Page 2/4 of the IDSN Setup menu.

Note

Do not enter the first 0 of the area code.

For details on the ISDN Setup menu, see "ISDN Setup Menu" (page 70).

For details on configurations, consult with the system administrator.

ISD	IN Setup
Area Code	Local Number
A1 3	12345678
A2	
B1	
B2	
C1	
C2	
L	
	Save Cancel

The setting has been configured properly if the correct line number appears in the launcher menu.

2 Remote parties must configure in the same way.

To conduct a video conference

Select "ISDN" under "Line I/F", enter the remote party's line number, and dial.

For details on how to start a conference, see "Starting a Conference by Calling a Remote Party" (page 90).

Chapter 3: Daily Videoconference

This chapter describes how to conduct a videoconference from start to finish after the administrator has completed various registrations and settings for the system.

The videoconference explained here is a point-to-point conference via a LAN connection or ISDN connection using the optional PCSA-B384S, PCSA-B768S, or PCSA-PRI ISDN Unit.

For use of a "Memory Stick" or optional equipment, see chapter 4. To conduct a data conference using the optional PCSA-DSB1S Data Solution Box, see chapter 5. To conduct an encrypted conference, see chapter 7. To conduct a multipoint conference, see chapter 8. To hold a videoconference using an SIP server, see chapter 9.

Starting a Conference by Calling a Remote Party

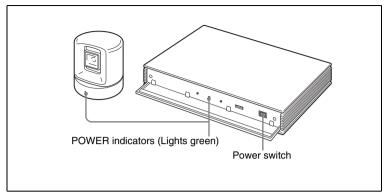
You can start a videoconference with a remote party by dialing. Once you have made a connection to the remote party, you can begin talking just as with a normal phone call and start a videoconference.

Turning on the Power

- **1** Turn on the TV monitor. When the IR repeater is inserted under the remote sensor of the Sony TV, set the TV to standby mode. When the power of the Communication Terminal is turned on, the TV monitor will turn on simultaneously.
- **2** Turn on other equipment you are using for the videoconference.

3 Open the front panel of the Communication Terminal, and then slide the power switch on the right to the on position (**I**).

The Communication Terminal turns on after a while.



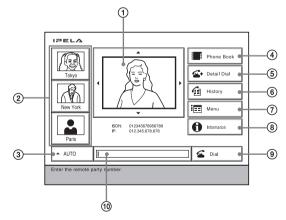
Three indicators on the front of the Communication Terminal and the POWER indicator on the camera light, then only the POWER indicators on both units remain on in green. The launcher menu will appear on the monitor screen and the picture shot by the local camera will also appear in the launcher menu.

Note

After the power is turned on, the camera moves automatically for trial operation. Be careful not to catch your finger.

Using the Launcher Menu

The launcher menu is displayed on the monitor screen when the system is turned on or while it is not connected to a remote party. The launcher menu displays the image shot by the local camera, local system status and buttons to open the menus.



① Screen

The image shot by the local camera is displayed.

② Direct Phone Book button

The Direct Phone Book function is selected when you select this button by pressing the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge , and then the PUSH ENTER button of the Remote Commander. This starts calling the selected remote party.

③ Line I/F

Select this button by pressing the $\blacklozenge, \diamondsuit, \blacklozenge$ or \blacklozenge button, and then the PUSH ENTER button on the Remote Commander. Items to be set are displayed. Allows you to select the type of line to be used. When an ISDN line is not connected, only "IP" is available.

④ Phone Book button

The Phone Book is displayed when you select this button by pressing the $\blacklozenge, \blacklozenge, \blacklozenge$, \blacklozenge or \blacklozenge button and then the PUSH ENTER button on the Remote Commander.

⑤ Detail Dial button

The Detail Dial appears when you select this button by pressing the $\blacklozenge, \blacklozenge, \blacklozenge$ or \blacklozenge button, and then the PUSH ENTER button of the Remote Commander.

6 History button

The History appears when you select this button by pressing the $\blacklozenge, \blacklozenge, \blacklozenge, \blacklozenge$ or \blacklozenge button, and then the PUSH ENTER button of the Remote Commander.

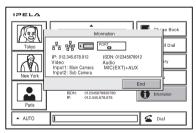
⑦ Menu button

You can display the various Setup menus when you select this button by pressing the $\blacklozenge, \blacklozenge, \blacklozenge$ or \blacklozenge button and then the PUSH ENTER button on the Remote Commander.

⑧ Information button

The Information menu appears when you select this button by pressing the \blacklozenge ,

♦, \bullet or \bullet , and then the PUSH ENTER button of the Remote Commander.



The following icons or text are displayed in accordance with the system configuration.

Indicator (icon)	Identification	Description
물물	LAN status	The indicator is shown in dark when the LAN is enabled to use, and in light when it is disabled.
器	Multipoint mode	MCU software for multipoint videoconference is installed, and the "Multipoint Mode" is set to "On".
	Memory Stick	"Memory Stick" is inserted.

Indicator (icon)	Identification	Description
PORT	ISDN status	When the optional ISDN Unit is connected, usable ISDN port is shown.
IP:	IP address	Shows the IP address of the local system. By changing the "Number Display" setting in the Menu Screens page of the General Setup menu (page 59), you can display the gatekeeper's user name, the NAT address, etc.
ISDN:	ISDN telephone number	Shows the ISDN telephone number of the local system.
Video	Video input	The selected video input on the local system is shown. Input 1 Main: Video from the main camera. IR 1: Video from the optional PCS-DS150/DS150P Document Stand (Currently not available). AUX1: Video from the device connected to the MAIN AUX IN connector. Input 2 Sub: Video from the secondary camera. IR 2: Video from the optional PCS-DS150/DS150P Document Stand (Currently not available). AUX2: Video from the device connected to the SUB AUX IN connector. Note The video inputs are shown as the labels set in the "Custom Input Label" of the Video Setup menu (page 58).

Indicator (icon)	Identification	Description
Audio	Audio input	 The selected audio input on the local system is shown. MIC (EXT): Sound from an external microphone connected to the Communication Terminal. MIC (DSB): Sound from an external microphone connected to the optional PCSA-DSB1S Data Solution Box. MIC (AUX): Sound from an external microphone connected to the AUX IN jack on the optional PCSA-DSB1S Data Solution Box. AUX: Sound from external equipment connected to the AUDIO IN jack on the Communication Terminal. MIC (EXT)+AUX: Mixed sounds from an external microphone connected to the Communication Terminal and from external equipment. MIC (DSB)+AUX: Mixed sounds from an external microphone connected to the optional PCSA-DSB1S Data Solution Box and from external equipment. MIC (DSB)+AUX: Mixed sounds from an external microphone connected to the optional PCSA-DSB1S Data Solution Box and from external equipment. MIC (AUX)+AUX: Mixed sounds from an external microphone connected to the AUX IN jack on the optional PCSA-DSB1S Data Solution Box and from external equipment. CTE (LINE): Sound from the CTE-600 Communication Transducer connected to the AUDIO IN jack on the Communication Terminal. CTE (DSB): Sound from the CTE-600 Communication Transducer connected to the AUX IN jack on the optional PCSA-DSB1S Data Solution Box. EC-MIC: Sound from the PCSA-A7 Echo Canceling Microphone connected to the EC-MIC jack on the Communication Terminal. EC-MIC+AUX: Sound from the PCSA-A7 Echo Canceling Microphone connected to the EC-MIC jack on the Communication Terminal.

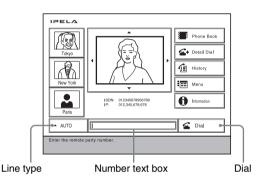
④ Dial button

Select this button by pressing the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button, and then the PUSH ENTER button on the Remote Commander. This starts calling the remote party whose dial number is entered in the number input box.

① Number input box

To call a remote party not registered in the Phone Book, select this box by pressing the \blacklozenge , \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander, and then enter the IP address or the ISDN line number.

Calling a Remote Party



To call a remote party by entering their number directly

- 1 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select "Line I/ F" from the launcher menu, then press the PUSH ENTER button. Or press the CONNECT/DISCONNECT (๔ / ๔) button on the Remote Commander.
- 2 Use the **↑** or **↓** button on the Remote Commander to select the type of line to be used, then press the PUSH ENTER button.

AUTO: A line for connecting is automatically selected, based on the number entered in the number text box.

IP: Connects to a videoconferencing system on the remote site via a LAN.

ISDN: Connects to a videoconferencing system on the remote site via an ISDN line.

TEL: Connects to a phone on the remote site via an ISDN line for a voice meeting.

SIP: Select this option when connecting to an IP phone using an SIP server.

- 3 Press the ↑, ↓, ↓ or → button of the Remote Commander to select the number input field, and then the PUSH ENTER button.
- **4** Enter the remote party's IP address or line number.

The system begins dialing the IP address ISDN telephone number entered in step 4. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks.

When the system connects to the remote system, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights in blue.

Note

When "More Options Enable" in the Dial Setup menu is set to "On", a dialog box appears after step 5.

More Options Enable: The Detail Dial menu is displayed.

Dial: Call the remote party.

Cancel: Cancel a call.

To call a remote party not registered in the Phone Book

IPELA		
	Detail Dial	
IP		Line I/F IP LAN Bandmidth 1024 Kbps
	Dial	Save Cancel

2 Use the ♠, ♥, ♠ or ▶ button to select "Line I/F", then press the PUSH ENTER button. The submenu appears. Press the ♠ or ♥ button to select the line type to be used to connect to the remote party, then press the PUSH ENTER button.

IPELA	
Detail Dial	
	Line I/F
IP	IP 🔻
	ISDN
	ISDN(2B)
	ISDN (Telephone)
	Multipoint
	SIP
Dial	Save Cancel

IP: Connects to the videoconferencing system of a remote party via a LAN.ISDN: Connects to the videoconferencing system of a remote party via an ISDN.

ISDN (2B): Connects to the H.221-format videoconferencing system via 2B channels of the ISDN connection.

ISDN (Telephone): Connects to the phone of a remote party to conduct a voice meeting via the ISDN connection.

Multipoint: Connects to the videoconferencing system for a multipoint conference.

SIP: Connects to an IP phone using SIP.

3 Configure the LAN, or ISDN line. When using the LAN

IPELA			
	Detail Dial		
IP		Line I/F	-
		LAN Bandwidt 1024 Kbps	h -
	Dial	Save	Cancel

① Enter the IP address of a remote party to connect in the IP text box. Use the ↑, ◆, ◆ or ◆ button on the Remote Commander to select the IP text box, then press the PUSH ENTER button. Then enter the IP address with the number buttons on the Remote Commander. Enter the host name and domain name when using the DNS server in the IP text box (ex. host.domain). When using the gatekeeper, enter the user name and user number registered in the LAN Setup menu (page 67).

Notes

- You can enter a dot (.) with the → or # → button on the Remote Commander.
- To correct the entered number, press the PinP (BACK SPACE) button on the Remote Commander. The last entered number is deleted.
- To delete the entered IP address, press the DISPLAY (CLEAR) button on the Remote Commander.
- 2 Select the LAN bandwidth.

Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "LAN Bandwidth", then press the PUSH ENTER button. Press the \blacklozenge or \blacklozenge button to select the bandwidth from the displayed submenu, then press the PUSH ENTER button.

When using the ISDN

IPELA	
Detail Dial	
	Line I/F ISDN Number of Lines 6B(384K)
Dial	Save Cancel

(1) Enter the telephone number of a remote party to connect to in the A text box. Use the ♠, ♥, ♦ or ▶ button on the Remote Commander to select the A text box, then press the PUSH ENTER button. Then enter the telephone number with the number buttons on the Remote Commander.

Notes

- Do not enter the prefix number in the telephone number text box, when the prefix setting is on.
- For details on prefix settings, see "Dial Setup Menu" on page 50.
- Even when you connect multiple ISDN lines (2B or more number of lines), entering one telephone number of the remote party enables you to connect all the lines used automatically.
- When you select ISDN (2B (128K)), the A1 and A2 text boxes appear. You can enter a separate ISDN line number in each text box. When you enter the number in the A2 text box, pressing the PUSH ENTER button on the Remote Commander enables copy of the content of the A1 text box to A2.
- To correct the entered number, press the PinP (BACK SPACE) button on the Remote Commander. The last entered number is deleted.
- To delete the entered ISDN telephone number, press the DISPLAY (CLEAR) button on the Remote Commander.
- (2) Select the number of channels connected when setting up a call. Use the ♠, ♥, ♦ or > button on the Remote Commander to select "Number of Lines", then press the PUSH ENTER button. Press the ♠ or ♥ button to select the number of channels to be used when calling a remote party from the displayed submenu, then press the PUSH ENTER button.

Note

To connect to the remote party by entering all the telephone numbers for the ISDN lines used

If the videoconferencing system of the remote party is not equipped with the bonding function, entering one remote party's telephone number does not allow automatic connection of multiple ISDN lines used to connect to the remote party. To connect to the remote party by entering all the telephone numbers, register the remote party's telephone numbers for the ISDN lines to be used referring to "Registering a Remote Party – Phone Book" in chapter 2 (page 77), then connect to the remote party according to the procedure described in "To call a remote party registered in the Phone Book" (page 101).

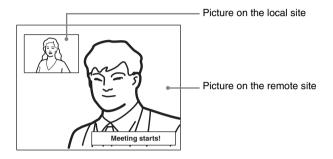
4 Use the ↑, ↓, ↓ or → button to select "Dial" in the lower part of the menu, then press the PUSH ENTER button, or press the CONNECT/

DISCONNECT (🕿 / 🕿) button on the Remote Commander.

The system begins dialing the IP address or ISDN telephone number entered in step 3. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks.

When the system connects to the remote system, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights in blue.

Now you can start a videoconference.



To cancel dialing before connecting

Press the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Cancel", then press the PUSH ENTER button, or press the CONNECT/DISCONNECT (\leq / \leq) button.

To save the entered IP address or ISDN line number in the Phone Book

Select "Save" with the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button, then press the PUSH ENTER button on the Remote Commander. The List Edit menu is displayed. Save the address or number you entered into the Phone Book.

For details on the List Edit menu, see "Registering a Remote Party – Phone Book" on page 77.

Redial function

Once you have input the IP address or ISDN line number using the Detail Dial menu, it will be entered in the text box of the Detail Dial menu the next time you open the menu.

Note

The redial function is not available:

- Once you have turned off the power of the system or set it to standby mode.
- When you cancel dialing the entered IP address or ISDN telephone number.

To call a remote party with the Direct Phone Book button in launcher menu

Press the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select the Direct Phone Book of the remote party that you want to call, and then the PUSH ENTER button of the Remote Commander.

"Dial" appears.

If "More Options Enable" in the Dial Setup menu is set to "On", you can select the "More Options" button. When you do, the Detail Dial menu appears.

For details about the Detail Dial menu, see "To call a remote party not registered in the Phone Book" on page 96.

To call a remote party by selecting them in the history list

Press the ▲, ➡, ➡ or ➤ button to select "History", and then the PUSH ENTER button of the Remote Commander. The History menu appears.

IPELA			
	F	listory	
Æ	C Tokyo IP 012.345.678.912	2004.04.04 10:20	
A.	New York IP 012,345,678,912	2004, 04, 14 12:34	
	Paris IP 012.345.678.912	2004. 04. 24 21:21	
	Osaka IP 012.345.678.912	2004. 04. 24 22:22	
			Cancel

- **2** Press the \blacklozenge or \blacklozenge button to select the desired remote party, and then a submenu appears.
- 3 Press the ♠, ♣, ♠ or ➡ button to select "Dial", and then press the PUSH ENTER button of the Remote Commander.

To set up more detailed options

When "More Options Enable" is set to "On" in the Dial Setup menu, a dialog box is displayed.

Select the More Options button with the \uparrow , \blacklozenge , \blacklozenge , \blacklozenge or \Rightarrow button on the Remote Commander and press the PUSH ENTER button to open the Dial Setup menu. You can change the settings of the desired items.

To call a remote party registered in the Phone Book

1 Use the ♠, ♥, ♦ or ♦ button on the Remote Commander to select "Phone Book" in the launcher menu, then press the PUSH ENTER button. The Phone Book appears on the monitor screen.

IPE	LA		
	Phone Book		
	Jane	Mary	0-9 A-1 J-S T-Z Recent New Entry
			Cancel

If the desired remote party does not appear, see "To search for a remote party in the Phone Book" on page 102.

2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select a remote party from the Phone Book, then press the PUSH ENTER button. The submenu appears.

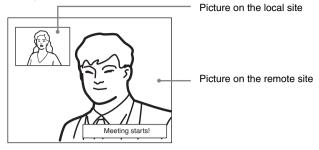
IPELA	
Phone Book	
Cancer	1
	Cancel

The system begins dialing the party selected in step 2. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks.

When the system connects to the system on the remote site, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights in blue.

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_		
_		

Now you can start the videoconference.



To cancel dialing before connecting

Press the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Cancel", then press the PUSH ENTER button, or press the CONNECT/DISCONNECT (\leq / \leq) button on the Remote Commander.

To call a remote party registered in the Private Phone Book

 Insert the "Memory Stick" that contains the Private Phone Book into the Memory Stick slot on the Communication Terminal.

The Phone Book menu changes to the Private Phone Book menu.

IPELA	
Private Phone Book	
Jare Mary	A-1 J-S T-Z Recent
	Cancel

- 2 Use the ↑, ↓, ↓ or → button on the Remote Commander to select a remote party you want to call from the Private Phone Book, then press the PUSH ENTER button.
- 3 Select "Dial" from the submenu and press the PUSH ENTER button, or press the CONNECT/DISCONNECT (๔ / ☎) button on the Remote Commander.

The system dials the selected remote party.

Note

If the auto dialing feature of the Private Phone Book is activated, the system begins dialing when the "Memory Stick" is inserted.

To search for a remote party in the Phone Book

The Phone Book displays the list of up to six parties on a page. When you select "Recent", the Phone Book lists the six names you have most recently dialed. Selecting the "0-9", "A-I", "J-S" or "T-Z" tab opens the submenu. When you select the desired number or letter from the corresponding submenu, the Phone Book lists up to six party names which start with the selected number or letter.

Phone Book
0.9 0 Jane Mary Mary 0 Rec 7 0 New 8 1/7
Cancel

Note

You can also search for remote parties by pressing the number buttons on the Remote Commander. Pressing the number button lists up to six party names which start with the alphabetical letter on the number button of the Remote Commander.

Starting a Conference by Calling a Remote Party 1	03
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Receiving a Call from a Remote Party

Operations for answering a call differ depending on the setting of the answer mode.

Auto answer mode

The system automatically receives a call from a remote party and you can start conferencing. Although no operation is necessary to start, the picture on the local site will be displayed on the remote site screen even if you are not ready to begin.

Manual answer mode

When there is an incoming call, the Communication Terminal rings. You need to connect the call manually before starting the conference. You can start it whenever you are ready.

Notes

- You cannot answer the call unless the power switch on the Communication Terminal is set to on (**I**).
- Make sure that the TV monitor is turned on. If you insert the IR repeater under the remote sensor on the Sony TV, set the TV to standby mode.

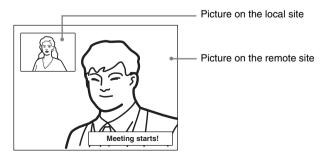
For setting of the answer mode, see "Auto Answer" in the Answer Setup menu on page 52.

Answering a Call from a Remote Party

To answer a call in auto answer mode

When you receive a call, the Communication Terminal rings and the message "Incoming Call" appears on the monitor screen. The system is automatically connected and the picture of the remote party is displayed on the local monitor screen and the sound is heard. The picture and sound on the local site will be enabled on the remote site at the same time.

The message "Meeting starts!" appears on the monitor screen. You are now ready to start a conference.



Note

See pages 107 to 127 to adjust the sound and picture during the conference.

To receive a call in manual answer mode

When you receive a call, the Communication Terminal rings and the message "Incoming call. Answer?" appears on the monitor screen.

Press \blacklozenge or \blacklozenge to select "OK", then press the PUSH ENTER button. The system is then connected. Once the connection is made, the picture of the remote party is displayed on the local monitor screen and the sound is heard. The picture and sound on the local site will be enabled on the remote site at the same time. The message "Meeting starts!" appears on the monitor screen. You are now ready to start a conference.

Note

See pages 107 to 127 to adjust the sound and picture during the conference.

When you do not want to answer the call

Press \leftarrow or \rightarrow to select "Cancel", then press the PUSH ENTER button. Ringing stops.

When the system fails to make an ISDN connection

If the system fails to connect to the remote party, the message "Cannot complete connection (an ISDN cause code and a message are displayed here)" appears on the monitor screen.

For details on ISDN cause codes and messages, see "On-screen Messages" on page 281.

To display the elapsed communication time

You can display the elapsed communication time on the monitor screen if "Time Display" in the General Setup menu is set to "On".

To turn the indicator off, set "Time Display" in the General Setup menu to "Off". You can also turn off the indicator during communication with a remote party by turning it off in the communication submenu.

For "Time Display" setting, see "General Setup Menu" on page 59.

Ending the Conference

Press the CONNECT/DISCONNECT (< / >) button on the Remote Commander.

The message "Disconnect?" appears on the monitor screen.

The system is disconnected.

Note

The power of the Communication Terminal remains on even if the system is disconnected.

To cancel disconnection of the system

Select "Cancel" with the \blacklozenge or \blacklozenge button, then press the PUSH ENTER button.

To register the connected remote party in the Phone Book

You can easily register the remote party who has just disconnected.

If you set "Last Number Registration" in the General Setup menu to "On", the message "Register this participant in the list?" appears after a conference with an unregistered remote party is finished. When you select "OK", the Edit List menu appears.

Note

If the "Last Number Registration" is set to "Off", the message does not appear.

For "Last Number Registration" setting, see "Last Number Registration" on page 60.

Adjusting the Sound

Adjusting the Volume

You can adjust the volume of the sound to be received from a remote party. Press the VOLUME + button on the Remote Commander to increase the volume, VOLUME – button to decrease it. The volume level indicator appears on the monitor screen. The indicator will automatically disappear if you do not operate the buttons for a certain time.



Notes

- You need to set the volume of the TV monitor to an appropriate level first.
- If feedback caused by increasing the volume occurs, decrease the volume.

Turning Off the Sound Momentarily – Muting Function

You can momentarily turn off the sound to be sent to the remote party. Press the MIC ON/OFF button on the Remote Commander. The sound of the local party is not heard by the remote party. The "MIC OFF" indicator appears on the monitor screen.



To restore the sound

Press the MIC ON/OFF button again.

The "MIC OFF" indicator disappears and the sound is heard by the remote party.

Turning Off the Sound On Answering – Mic on Answer Function

You can turn off the sound to be sent to a remote party when you have answered a call from the remote party.

If you set "Mic on Answer" to "Off" in the Answer Setup menu, only the picture on the local party will be sent to the remote party when answering a call. The "MIC OFF" indicator appears on the monitor screen.

For the Mic on Answer setting, see "Answer Setup Menu" on page 52.

To send the sound to the remote party

Press the MIC ON/OFF button on the Remote Commander.

Synchronizing Audio and Video – Lip Sync Function

During the conference a time lag may occur between the sound and picture to be sent to the remote party.

When you set "Lip Sync" to "On" in the Audio Setup menu, the system adjusts to synchronize audio and video. However, this may delay transmission of audio synchronized with video.

For the Lip Sync setting, see "Audio Setup Menu" on page 56.

Note

To enable the Lip Sync function of the remote party, you have to ask them to do so.

Reducing Echo – Echo Canceller

The Communication Terminal is equipped with the Echo Canceler, allowing the echo that occurs during audio transmission to be reduced.

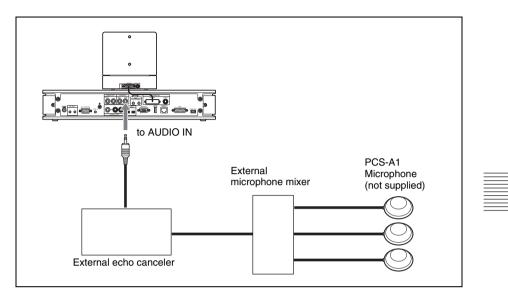
Setting "Echo Canceller" to "On" in the Audio Setup menu activates the builtin echo canceller.

When using an external echo canceler, set "Echo Canceler" to "Off".

Page: 1/2 +	dio Setup
Input Select	MIC •
Mic Select	MIC -
CTE	Off 🗸
Echo Canceller	Off 🗸
Lip Sync	Off 🗸
Recording Mute	On 👻
	Save Cacel

For the "Echo Canceller" setting, see "Audio Setup Menu" on page 56.

Connection example for using an external echo canceler



Adjusting the Camera

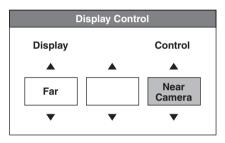
You can adjust the image shot by the local camera that is sent to the remote party to obtain the desired angle and size.

During communication you can also control the camera on the remote site to adjust the image shot by the remote camera.

Selecting the Camera to be Controlled

Before adjustment, choose whether you control the local or remote camera.

- **1** Press the FAR/NEAR button on the Remote Commander. The Display Control menu appears.
- 2 Press the ← or → button on the Remote Commander to select "Control", then switch between "Far" and "Near" with the ← or ← button.



3 Press the PUSH ENTER button on the Remote Commander.

When "Far" is selected (the remote camera is selected), the FAR indicator is displayed.

When "Near" is selected (the local camera is selected), the FAR indicator does not appear.

Notes

- To control the remote camera, set "Far End Camera Control" to "On" in the Communication Setup menu. If this setting is not configured properly, you will not be able to control the remote camera.
- You cannot control the remote camera during a session if the remote control format of the remote camera is not H.281. If you cannot control the remote camera, ask the remote party about the remote control format of his camera.
- If the local and remote parties try to control the same camera at the same time, the camera may not operate correctly.

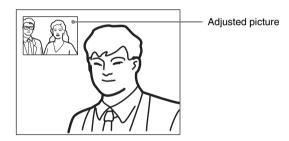
Adjusting the Camera Angle and Zoom

Determine the angle of view and the size of the picture to be displayed on the monitor screen by adjusting the angle and zoom.

You can make adjustments in the monitor screen during communication and in the launcher menu when not in communication. You can also make adjustments using the Camera menu.

To make adjustments during communication

- Select the camera you want to adjust. Press the FAR/NEAR button on the Remote Commander to open the Display Control menu, then select "Far" or "Near" under "Control".
- Press the ↑, ↓, ◆ or → button to adjust the camera angle. The picture whose camera angle is adjusted is displayed in the small window or in full screen.



3 Use the ZOOM button to zoom in or out. Press the ZOOM T (Telephoto) button to zoom in (to enlarge image), and the ZOOM W (Wide angle) button to zoom out (to obtain wider range of image).

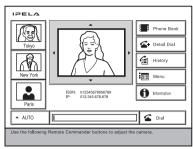
To make adjustments using the launcher menu while not in communication

You can adjust the camera angle and zoom of the picture on the local site only.

Use the ↑, ↓, ↓ or → button to select the screen (screen frame becomes yellow), then press the PUSH ENTER button.

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The color of the screen frame changes, then you can adjust the camera angle and zoom.

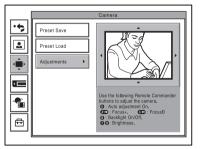


- 2 Press the ↑, ↓, ↓ or → button to adjust the camera angle so that the desired angle of view is obtained.
- **3** Use the ZOOM button to zoom in or out. Press the ZOOM T button to zoom in (to enlarge image), and the ZOOM W button to zoom out (to obtain wider range of image).
- **4** Press the PUSH ENTER button.

To make adjustments using the Camera menu

- 2 Use the ♠, ♣, ♠ or ➡ button to select "Adjustments", then press the PUSH ENTER button.

The color of the screen frame changes, then you can adjust the camera angle and zoom.



3 While in communication, press the FAR/NEAR button on the Remote Commander to select the camera to be adjusted. When the remote camera is selected, the FAR indicator is displayed.

- 4 Press the ↑, ↓, ↓ or → button to adjust the camera angle so that the desired angle of view is obtained.
- 5 Use the ZOOM button to zoom in or out. Press the ZOOM T button to zoom in (to enlarge image), and the ZOOM W button to zoom out (to obtain wider range of image).

Adjusting the Focus and Brightness

Normally, the focus and brightness are automatically adjusted to obtain optimum levels. You can also adjust them manually. It is recommended that the focus and brightness be adjusted automatically.

To set the system to camera adjustment mode

- Press the MENU button on the Remote Commander to display the Setup menu, then press the ↑ or ♦ button to select the
 (camera) icon.
 The Camera menu appears.
- 2 Use the ♠, ♣, ♠ or ➡ button to select "Adjustments", then press the PUSH ENTER button.

The color of the screen frame changes, then you can adjust the camera angle and zoom.

The guidance for operations will be displayed under the screen.



3 While in communication, press the FAR/NEAR button on the Remote Commander to select the camera to be adjusted.

When the remote camera is selected, the FAR indicator is displayed.

Note

When the remote camera is selected, only manual focus adjustment is available.

_		

To display the picture to fill the monitor screen

To display the picture in full screen while the Camera menu is displayed, select "Adjustments", then press the PinP button on the Remote Commander. To cancel the full screen mode, press the RETURN button or PinP button on the Remote Commander.

To adjust the focus and brightness automatically

Press the number button 0 on the Remote Commander. The "Auto Camera" indicator appears and the focus and brightness are automatically adjusted.

To adjust the focus manually

Press the # button on the Remote Commander repeatedly to move the focus point further away from the camera. The "Focus Far" indicator is displayed. Press the * button on the Remote Commander repeatedly to move the focus point closer to the camera. The "Focus Near" indicator is displayed.

To adjust the brightness manually

Press the number button 9 on the Remote Commander repeatedly to make the picture brighter. The "Brightness +" indicator is displayed.

Press the "7" button on the Remote Commander repeatedly to make the picture darker. The "Brightness –" indicator is displayed.

To shoot the picture with backlight compensation

Use backlight compensation when shooting a subject with bright background. Each time you press the number button 8, the backlight compensation is activated or deactivated. When it is activated, the "Backlight On" indicator is displayed. When it is deactivated, the "Backlight Off" indicator is displayed.

Presetting the Angle and Zoom Settings

Up to six settings for camera angle and zoom can be registered in the preset memory. Once you have stored the settings, you can easily recall them to move the camera.

You can preset the settings in the monitor screen while in communication, and in the launcher menu while not in communication. You can also do so using the Camera menu.

To preset the setting in the monitor screen while in communication

1 Select the camera whose camera angle and zoom setting you want to preset.

Press the FAR/NEAR button on the Remote Commander to open the Display Control menu, then select "Far" or "Near" under "Control".

2 Adjust the camera angle and zoom.

Use the \blacklozenge , \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to adjust the camera angle, and ZOOM button to adjust the zoom.

3 Hold down one of the number buttons 1 to 6.

The angle and zoom setting is stored in the selected number button, and the message "Registered to Preset number 1 (to 6)." appears.

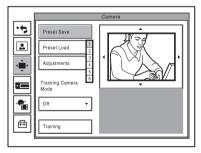
To preset the setting in the launcher menu while not in communication

- Adjust the camera angle and zoom in the launcher menu.
 Use the ♠, ♥, ♠ or ➡ button to select the screen and press the PUSH ENTER button, then press the ♠, ♥, ♠ or ➡ button to adjust the angle and the ZOOM buttons to adjust the zoom.
- Hold down one of the number buttons 1 to 6.The angle and zoom setting is stored in the selected number button, and the message "Registered to Preset number 1 (to 6)." appears.

To preset the setting using the Camera menu

- 2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select "Preset Save", then press the PUSH ENTER button.
- 3 Select the preset number (1 to 6) with the ★ or ★ button, then press the PUSH ENTER button.

The color of the screen frame changes, then you can adjust the camera angle and zoom.



4 While in communication, select the camera to be adjusted with the FAR/ NEAR button on the Remote Commander.

The FAR indicator is displayed on the monitor screen when the remote camera is selected.

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1				
1				
1				
1				
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5 Adjust the angle and zoom.

Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to adjust the camera angle, and ZOOM button to adjust the zoom.

6 Press the PUSH ENTER button.

The setting is registered in the selected preset number.

Recalling the Preset Angle and Zoom Setting

You can move the camera to the preset position by recalling the preset camera angle and zoom with the monitor screen displayed while in communication. You can do the same with the launcher menu displayed while not in communication. Using the Camera menu also enables movement of the camera to the preset position.

To recall the preset setting in the monitor screen while in communication

- 1 Select the camera which you want to move to the preset position. Press the FAR/NEAR button on the Remote Commander to open the Display Control menu, then select "Far" or "Near" under "Control".
- **2** Press one of the number buttons 1 to 6 on the Remote Commander. The setting of the selected preset number is recalled, and the camera moves to the preset position. The message "Preset 1 (to 6) selected" appears.

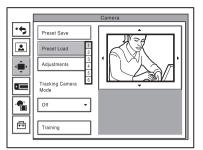
To recall the preset setting in the launcher menu while not in communication

You can move the local camera to the preset position.

- **1** Select the screen in the launcher menu, then press the PUSH ENTER button.
- **2** Press one of the number buttons 1 to 6 on the Remote Commander. The setting of the selected preset number is recalled, and the camera moves to the preset position. The message "Preset 1 (to 6) selected" appears.

To recall the preset setting in the Camera menu

- **1** Display the Camera menu.
- 2 Use the ♠, ♥, ♦ or ♦ button on the Remote Commander to select "Preset Load", then press the PUSH ENTER button.
- 3 Press the ↑ or ↓ button to select the preset number (1-6) you want to recall, then press the PUSH ENTER button.



The setting of the preset number is recalled and the camera moves to the position of that setting.

On backup

The built-in lithium battery enables retention of the memories such as preset camera adjustments even if the Communication Terminal is turned off.

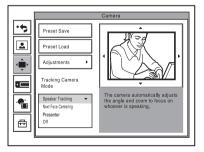
Notes

- The built-in lithium battery is kept charged as long as the system is operated. If the system is not used for a long time, the battery is gradually discharged. It will be completely discharged when you do not use the system for 12 weeks. To retain the system's memory, recharge the battery.
- To recharge the battery, connect the camera to the Communication Terminal and leave both units with the power on for about 48 hours.

Setting the Tracking Camera Mode

Make these settings when using the optional PCSA-CTG70/CTG70P Camera Unit.

- 2 Select the "Mode" with the ♠, ♥, ♠ or ➡ button on the Remote Commander, and press the PUSH ENTER button.



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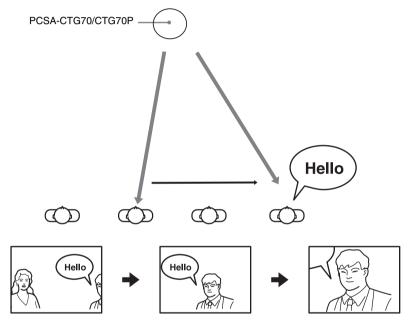
3 Select the mode you want to set with the ♠ or ♥ button on the Remote Commander, and press the PUSH ENTER button.

The screen border changes color, and you can choose a mode.

About the tracking camera modes

Speaker Tracking

Using voice-directional detection and face recognition, the Camera Unit automatically faces the speaker. The Camera Unit automatically adjusts the angle and zoom to frame and center the speaker's face in the screen.



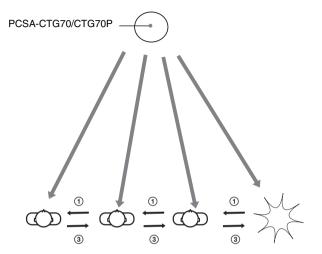
The Camera Unit frames the speaker in the monitor using voice-directional detection. The speaker's face is then recognized, and the angle and zoom automatically adjusts to center the face in the screen. When another participant speaks, the Camera Unit detects the voice direction and faces the new speaker. The Next Face Centering function is also available.

Notes

- Voice-direction detection may not function properly when a speaker and a remote party speak at the same time.
- Preset functions 1 and 3 on the Remote Controller are disabled, as the 1 and 3 buttons are used to control the Camera Unit.

Next Face Centering

Using the tracking camera's face recognition function, you can face the Camera Unit towards participants to the right and left of the current position with the Remote Controller.



Regardless of whether there is a speaker or not, by pressing the 1 or 3 button on the Remote Controller, the tracking camera automatically faces the participant directly to the left or right, respectively, of the current camera position.

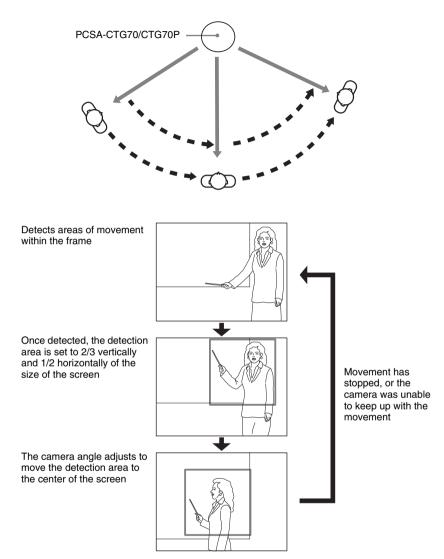
If the tracking camera reaches the limit of its shooting range without detecting a participant in one direction, the detection function stops. In such a case, start detection in the opposite direction using the Remote Controller.

Note

Preset functions 1 and 3 on the Remote Controller are disabled, as the 1 and 3 buttons are used to control the Camera Unit.

Presenter

The tracking camera detects a moving object within its frame and adjusts its angle to keep the object centered in the frame.



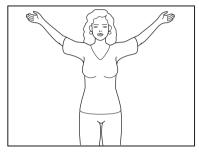
Use Presenter mode when you want to keep the camera on a specific speaker, such as during a lecture. The Camera Unit automatically adjusts the angle to follow the speaker's movement and keeps the speaker in the center of the screen.

However, tracking may not function properly in the following cases:

- There is a window or projection screen close to the speaker or subject.
- There is a moving object between the camera and the subject.

Notes

- Place the camera at least 3 m (9.8 ft.) away from the subject.
- The camera will not adjust the zoom automatically in Presenter mode. The camera recognizes a person about the size where if the person extends their arms to the left and the right, they will not be cut out of the frame. Manually adjust the zoom beforehand.



Off

Select this to disable the tracking function.

Using Training

When you go through the Training feature, the faces of conference participants within the camera's shooting range are detected, and their positions are recognized. This feature increases the accuracy of the left and right movements made to face speakers in Speaker Tracking and Next Face Centering modes.

- Press the MENU button on the Remote Commander to display the Setup menu, then press the ↑ or ♦ button to select the
 (camera) icon. The Camera menu appears.
- 2 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "Training", then press the PUSH ENTER button.

The camera looks in each direction and records the face of each participant for detection later. This process takes about 40 seconds.

Notes

- Going through the Training feature is not required to use the tracking camera. The positions of speakers are remembered automatically during a conference as the camera faces a speaker and detects their face.
- When the Training feature is in use, all other camera operations are disabled.
- The faces of conference participants may not be properly recorded in the following cases. If they are not properly recorded, adjust the zoom or camera placement.
 - The participant's entire face is not within the screen.
 - The participant's face takes up less than 1/10 of the entire space of the screen.
 - The participant does not face the camera directly.
 - The participant's face is tilted to the left or right.
 - The image is too dark.

For more details on the Camera Unit, see "Using the PCSA-CTG70/ CTG70P Camera Unit" on page 152.

Selecting the Input Picture and Sound

This section describes how to switch the picture displayed on the monitor screen, and how to switch the input picture and sound.

Switching the Displayed Picture Between the Local and Remote Pictures

- **1** Press the FAR/NEAR button on the Remote Commander. The Display Control menu appears.
- 2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select "Near" or "Far" under "Display".

Display Control				
Display		Control		
		A		
Far		Near Camera		
▼	•	▼		

3 Press the PUSH ENTER button on the Remote Commander.

Selecting the Input Picture

- **1** Press the VIDEO INPUT SELECT button on the Remote Commander. The Video Input Select menu appears.
- 2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select the video input on the local site.

Note

While in communication you can switch the video input of the remote system by selecting "Far" in the Video Input Select menu.

Video Input Select Input 1 Input 2 Split Far					
Main Camera	Secondary camera	Off	Main Camera		
•	▼	▼	▼		

Main Camera: Selects the video from the main camera.

- Sub Camera: Selects the video from the secondary camera.
- **IR 1:** Selects the video from the optional PCS-DS150/DS150P Document Stand (Currently not available).
- **IR 2:** Selects the video from the optional PCS-DS150/DS150P Document Stand (Currently not available).
- AUX 1: Selects the video from the device connected to the MAIN (AUX IN) connector.
- AUX 2: Selects the video from the device connected to the SUB (AUX IN) connector.

Note

An IR can be specified to both "Input 1" and "Input 2" for dual video and split mode. The same image is input to "Input 1" and "Input 2".

3 Press the PUSH ENTER button on the Remote Commander.

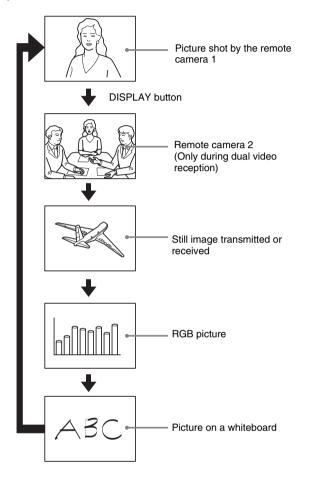
To change the video input name displayed in the Video Input Select menu

If you label "Main Camera", "Sub Camera", "IR 1", "IR 2", "AUX1", or "AUX2" in Custom Input Label in the Video Setup menu, the specified name for each camera is displayed in the Video Input Select menu in step 2 above. For example, you can label as such: Main, Document, Camera2, None.

For details on "Custom Input Label", see "Video Setup Menu" on page 58.

Switching the Picture Displayed on the TV Monitor

Each press of the DISPLAY button on the Remote Commander switches the picture displayed on the monitor screen as follows:



Notes

- A still image is displayed only when it has been transmitted or received.
- An RGB picture is displayed when the RGB signal is transmitted or received to/from a computer via the optional PCSA-DSB1S Data Solution Box connected to the Communication Terminal.
- A picture on a whiteboard is displayed only when notes written on a whiteboard are transmitted or received.

For details, see "Using Audio/Video Signal from the Connected Equipment for a Conference" on page 184 and "Videoconference Using a Whiteboard page 191.

Switching the Sound to Be Sent to the Remote Party

You can switch the sound sent to the remote party between the sound from the microphone and that from the connected equipment. Use "Input Select" in the Audio Setup menu.

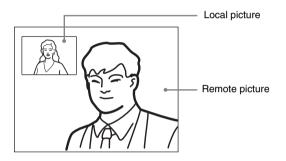
For details on the "Input Select" setting, see page 56.

Monitoring the Local Picture as a Window Picture – PinP Feature

You can display the picture shot by the local camera on your monitor screen as a window picture (**Picture-in-Picture**). This function enables you to check how your own party is monitored on the remote site.

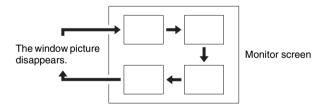
To display the window picture

Press the PinP button on the Remote Commander. The local picture is displayed as a window picture.



To change the location of the window picture

Each press of the PinP button changes the location of the window as follows:



Notes

- The window picture is displayed in the same location as it was last located. The window picture does not appear if it was not previously displayed.
- The window picture is not available while not in communication with a remote party.

To display the remote picture as a window picture

Press the FAR/NEAR button on the Remote Commander to open the Display Control menu and select "Near" under "Display" when the local picture is displayed as a window picture. The remote picture is displayed as a window picture with the local picture as the main picture.

Conducting a Videoconference Using the Dual Video Function

The dual video function allows the simultaneous sending and receiving of two images using two cameras.

Notes

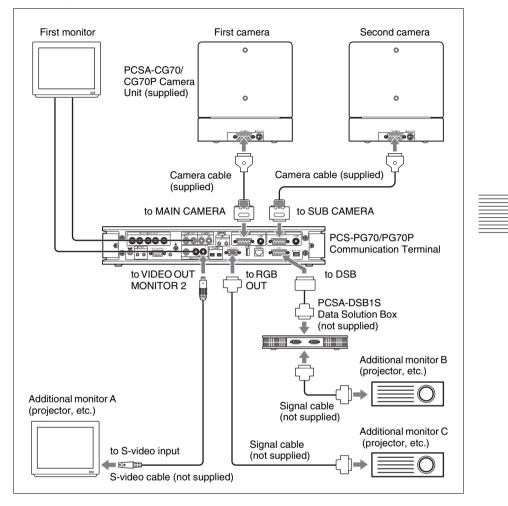
- When using integrated LAN and ISDN connections or a LAN cascade connection, the dual video function cannot be used.
- The video broadcast with the dual video function is only data from a single location.

System Configuration Using 2 Cameras and 3 Monitors

This section describes how to configure a system using 2 cameras and 3 monitors.

Notes

- Be sure to turn off all the equipment before making any connections.
- Do not connect/disconnect the camera cable with the power on. Doing so may damage the Camera Unit or Communication Terminal.



- When you want to conduct a videoconference using the dual video function, the H.239 setting of the Communication Setup menu of both local and remote terminals must be "On".
- Up to four monitors can be connected to the system. However, only three monitors can be used at one time. For details, see "Using Multiple Monitors" on page 155. The dual video function can only be used in a two-point videoconference.

Activating the Dual Video Function

You can either activate the dual video function at when starting a videoconference or during a videoconference.

Notes

- When transmitting while the dual video function is in use, you cannot control the remote party's secondary camera.
- If you send images through the PCSA-DSB1S Data Solution Box while the dual video function is in use, it stops until the image transfer is complete, and then resumes.

To activate dual video when starting a videoconference

Set "Dual Video" in the Video Setup menu to "On". (See page 58.) Sending and receiving of dual video begins automatically when a videoconference is started.

Note

This function is not available when holding a multipoint videoconference.

To activate dual video during a videoconference

While the videoconference is in progress, press the PUSH ENTER button on the Remote Commander to display the communication submenu, and then set "Dual Video" to "On".

Note

If the dual video function cannot be used, "Dual Video" does not appear on the communication submenu.

To change the monitor display

To switch the display of the first monitor, press the FAR/NEAR button on the Remote Commander. To change the display on another monitor, press the DISPLAY button on the Remote Commander. Each time you press the DISPLAY button, the display changes.

For details, see "Using Multiple Monitors" on page 155.

Chapter 4: Videoconference With Optional Equipment

This chapter describes the various videoconferences using the optional equipment in addition to the components contained in the PCS-G70/G70P Video Communication System.

To conduct a data conference using the optional PCSA-DSB1S Data Solution Box, see chapter 5.

To conduct a multipoint conference, see chapter 8.

Using Still Images Stored on a "Memory Stick" for a Videoconference

You can display the still images stored in the optional "Memory Stick" or transmit them to a remote party.

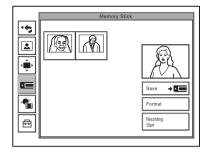
Displaying a Still Image Stored on a "Memory Stick"

 Insert the "Memory Stick" containing the still images into the Memory Stick slot on the Communication Terminal. Insert the "Memory Stick" in the direction of the arrow with the mark facing upward.

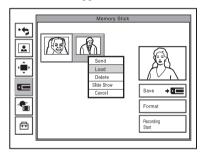


2 Open the Memory Stick menu.

Press the MENU button on the Remote Commander to display the Setup menu, and select **I** (Memory Stick) icon with the ★ or ★ button.



3 Use the ↑, ↓, ↓ or → button on the Remote Commander to select the still image you want to display, then press the PUSH ENTER button. The submenu appears.



4 Use the ▲ or ➡ button to select "Load", then press the PUSH ENTER button.

The menu disappears and the selected still image is displayed on the monitor screen.

To clear the still image from the monitor screen

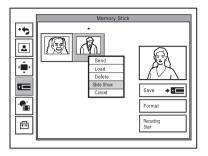
While the still image is displayed, press the PUSH ENTER button on the Remote Commander. The Memory Stick menu is restored.

Viewing a slide show

You can view still images stored on a "Memory Stick" slide by slide.

- **1** Insert the "Memory Stick" into the Memory Stick slot, and display the Memory Stick menu.
- 2 Use the ↑, ↓, ↓ or → button on the Remote Commander to select a still image from which you want to start a slide show, then press the PUSH ENTER button.

The submenu appears.



3 Use the ▲ or ♦ button on the Remote Commander to select "Slide Show", then press the PUSH ENTER button.

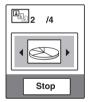
The slide show starts. During communication with a remote party, the still images are transmitted to the remote party.

The $\boxed{\square_{\underline{E}_{[n]}}}$ indicator is displayed on the monitor screen during the slide show.

4 Press the → button on the Remote Commander to advance a slide. Pressing the ← button goes back to the previous slide.

To select another still image during the slide show

Pressing the PUSH ENTER button during the slide show opens the submenu.



Press the \blacklozenge or \blacklozenge button to select the desired still image, then press the PUSH ENTER button. The selected image is displayed in full screen. During communication it will be transmitted to the remote party.

To stop the slide show

While the submenu is open, select "Stop" with the \clubsuit button and press the PUSH ENTER button.

While the submenu is not open, press the RETURN button on the Remote Commander. The Memory Stick menu is restored.

To delete a still image

Display the Memory Stick menu, select the still image you want to delete, and press the PUSH ENTER button. Select "Delete" from the displayed submenu with the \blacklozenge or \blacklozenge button, then press the PUSH ENTER button. The selected still image is deleted from the "Memory Stick".

To remove the "Memory Stick"

Push the "Memory Stick" and release your finger. The "Memory Stick" will come out a little, and you can then remove it.

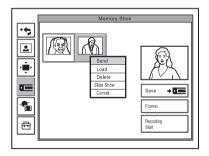
Sending a Still Image Stored on a "Memory Stick"

While in communication, you can send still images stored on a "Memory Stick" to the remote party.

1 Insert a "Memory Stick" into the Memory Stick slot on the Communication Terminal, and display the Memory Stick menu.

For how to insert a "Memory Stick" and how to display the Memory Stick menu, see "Displaying a Still Image Stored on a "Memory Stick"" on page 131.

2 Use the ♠, ♥, ♦ or ♦ button on the Remote Commander to select the still image you want to send, then press the PUSH ENTER button. The submenu appears.



3 Use the ★ or ↓ button to select "Send", then press the PUSH ENTER button.

The selected still image is displayed, and is sent to the remote party. The message "The still image has been sent." appears on the monitor screen.

When you select "Slide Show" in step 3 above

If you select "Slide Show" from the submenu and press the PUSH ENTER button, a slide show starts from the selected still image, and it will be sent to the remote party.

For details on a slide show, see page 132.

Note

The images inside one of the folders within the "Memory Stick" directory, from [\DCIM\100MSDCF] to [\DCIM\109MSDCF], will be displayed. The displayed folder goes by the following order of priority: [109MSDCF], [108MSDCF], [107MSDCF], etc.

Formatting a "Memory Stick"

Notes

- "Memory Sticks" formatted on a computer are not guaranteed to work with this system. Always use "Memory Sticks" formatted with the system.
- Formatting a "Memory Stick" deletes all images, addresses and other data saved on the "Memory Stick".

To format a "Memory Stick"

Select "Memory Stick Format" in the Memory Stick menu, and the "Format a Memory Stick?" message appears. Select "OK" to format the "Memory Stick".

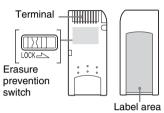
When an unformatted "Memory Stick" is inserted

The "Format a Memory Stick?" message appears. Select "OK" to format the "Memory Stick". Select "Cancel" to cancel the formatting operation.

"Memory Stick" Media

Notes on using "Memory Stick" media

• When you set the "Memory Stick" erasure prevention switch to "LOCK", data cannot be recorded, edited, or deleted.



The position and shape of the write-protect switch may differ between the various types of "Memory Stick".

- Do not remove the "Memory Stick" while it is reading or writing data.
- Data may be damaged if:
 - The "Memory Stick" is removed or the unit is turned off while reading or writing.
 - You use the "Memory Stick" in a location subject to the effects of static electricity or electric noise.
- We recommend that you back up important data recorded on the "Memory Stick".
- Do not affix anything other than the supplied label to the "Memory Stick" label area.
- Affix the label so that it does not stick out beyond the label area.
- When storing or carrying a "Memory Stick", keep it in its original case.
- Do not touch the terminal of the "Memory Stick" with anything, including your fingers or metallic objects.
- Do not strike, bend, or drop the "Memory Stick".
- Do not disassemble or modify the "Memory Stick".
- Do not allow the "Memory Stick" to get wet.

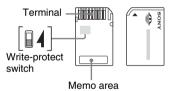
- Do not use or store the "Memory Stick" in locations subject to:
 - Extreme heat, such as in a closed car parked in the sun.
 - Direct sunlight.
 - Humidity or corrosive substances.

About data

- When you set the "Memory Stick" erasure prevention switch to "LOCK", data such as images and mails cannot be recorded, edited, or deleted. Be sure to unlock the switch before transferring or copying data on the unit to the "Memory Stick", or erasing data on the "Memory Stick".
- We recommend that you make a backup copy of important data on another "Memory Stick" or on a hard disk using a computer.

Notes on using "Memory Stick Duo"

- Use a pointed object, such as a ballpoint pen, to move the "Memory Stick Duo" write-protect switch.
- Do not write forcefully on the "Memory Stick Duo" memo area.
- When using the "Memory Stick Duo", always connect the adaptor supplied with it before using.



Notes on using the Memory Select function

- You cannot use multiple memory blocks simultaneously or continuously.
- Never operate the Memory Select switch when the "Memory Stick" is inserted in the slot of the unit, as it may cause damage. Sony Corporation assumes no liability for failure resulting from such operation.

- Make sure that the Memory Select switch is properly positioned to the side. When the switch is not positioned properly, the unit may be damaged or malfunction.
- Before inserting the "Memory Stick" in the slot of the unit, make sure that the memory you want to use is already selected.
- A "Memory Stick" with the Memory Select function allows the user to select the internal memory of the "Memory Stick" with the selector switch. Care must be taken in the following cases as the supported devices only detect the selected memory:
 - Formatting is only processed for the selected memory.
 - The remaining space display indicates the remaining space for the selected memory only.
 - Errors are only displayed for the selected memory and are detected separately from the unselected memory.

Format that can be displayed with this unit

The unit can display the picture files recorded on a "Memory Stick" in the following format:

- Image files (DCF-compatible) compressed in the JPEG (Joint Photographic Experts Group) format (extension: .jpg)
- Image files of up to 2048 × 1536 pixels can be displayed.

Sending Motion Pictures as Still Images

You can send motion pictures shot by the Camera or those output from the connected external equipment as still images.

When you are sending pictures that contain lots of text, it is recommended that you send them as still images.

Notes

- You can only transmit still images when video is set to Input 1 (main camera, IR 1, or AUX1).
- Still images cannot be transmitted during transmission or reception in dual video or split transmission.

For details, see "Conducting a Videoconference Using the Dual Video Function" on page 128.

Sending Still Images Using the Still Image Menu

While in communication with the remote party, you can send motion pictures shot by the local camera as still images. You can send one still image or still images continuously.

1 Open the Still Image menu.

Press the MENU button on the Remote Commander to display the Setup menu, and select the (still image) icon with the \uparrow or \downarrow button.

2 Use the ↑, ↓, ↓ or → button on the Remote Commander to select "Send" or "Continuous Send", then press the PUSH ENTER button.



3 Adjust the camera angle and zoom and press the PUSH ENTER button, if necessary.

For details on the adjustments of the camera angle and zoom, see "Adjusting the Camera Angle and Zoom" on page 111.

The motion picture displayed on the local monitor screen freezes, and a still picture will be sent to the remote party. If you select "Send", a still image is sent. When transmission is finished, the message "The still image has been sent." appears. When "Continuous Send" is selected, still images are sent continuously. The sending interval depends on the transmission rate and the image type.

To stop "Continuous Send"

Press the PUSH ENTER button on the Remote Commander. Select "Stop" from the displayed submenu with the \blacklozenge or \blacklozenge button, then press the PUSH ENTER button.

To cancel still image display

Press the PUSH ENTER button on the Remote Commander to display the submenu. Select "Clear" with the \blacklozenge or \blacklozenge button, then press the PUSH ENTER button.

Sending a Still Image Using the Communication Submenu

You can easily send only one image displayed on the monitor screen as a still image during communication.

1 Press the PUSH ENTER button on the Remote Commander during communication.

The Communication submenu appears.

Dual Video		Ph	ione Book
Presentation		R	
Whiteboard			
Reject Answer	~	Send	
lcon display	 	Save	+
End			

2 Press the ▲ or ♦ button on the Remote Commander to select "Send", then press the PUSH ENTER button.

The motion picture displayed on the local monitor screen freezes, and a still picture is sent to the remote party. When transmission is finished, the message "The still image has been sent." appears.

To cancel still image display

Press the PUSH ENTER button on the Remote Commander to display the communication submenu. Select "Clear" with the ♠ or ♥ button, then press the PUSH ENTER button. When a still image is displayed on the monitor screen, the "Send" indication changes to "Clear".

To hide the communication submenu

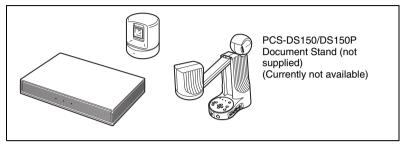
Select "End" from the menu, then press the PUSH ENTER button.

When you are receiving a still image

You cannot send a still image to the remote party. Select "Clear", then send the still image.

Sending Motion Pictures Output from a Document Stand as Still Images

During communication motion pictures output from the optional PCS-DS150/ DS150P Document Stand (Currently not available) connected to the Communication Terminal can be frozen, and you can send a still image to the remote party.



To send a still image

1 Shoot the image you want to send with the Document Stand.

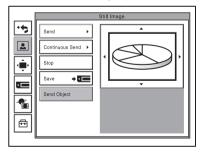
For details how to operate the Document Stand, refer to the Operating Instructions supplied with the Document Stand.

2 Open the Still Image menu.

Press the MENU button on the Remote Commander to display the Setup menu, then select the (still image) icon with the \blacklozenge or \blacklozenge button.

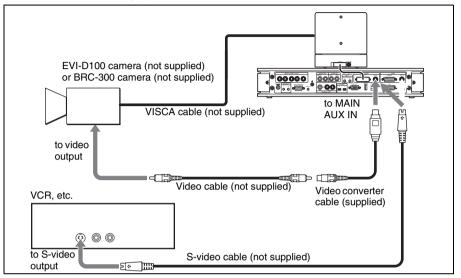
3 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select "Send Object", then press the PUSH ENTER button.

The picture shot by the Document Stand is displayed on the monitor screen and is sent to the remote party as a still image.



Sending Motion Pictures Input from an External Camera or Other Equipment as Still Images

During communication a motion picture output from an external camera or VCR connected to the Communication Terminal can be frozen, and then sent to the remote party.



To send a still image

- 1 Open the Still Image menu. Press the MENU button on the Remote Commander to display the Setup menu, then select the (still image) icon with the or ↓ button.
- 2 Display the picture you want to send on the monitor screen. Press the VIDEO INPUT SELECT button on the Remote Commander to display the Video Input Select menu, then select "AUX1" under "Near", and press the PUSH ENTER button.

Notes

- Still images can only be sent from the device connected to the MAIN AUX IN connector.
- Selecting "IR 1" or "IR 2" allows you to display images input from the optional PCS-DS150/DS150P Document Stand (Currently not available) on the monitor.
- If you label "Main Camera", "Sub Camera", "IR 1", "IR 2", "AUX1", or "AUX2" in Custom Input Label in the Video Setup menu, the specified name for each camera is displayed in the Video Input Select menu.
- 3 Use the ↑, ↓, ↓ or → button on the Remote Commander to select "Send", then press the PUSH ENTER button.

The motion picture on the monitor screen freezes, and a still picture is sent to the remote party. The still picture remains even after sending.

To cancel the still image display on the answering site

Select "Clear", or switch the input picture.

Receiving Still Images from a Remote Party

During communication, you can receive still images taken by the remote camera if the "Far End Camera Control" on page 3 of the Communication Setup menu.

1 Open the Still Image menu.

Press the MENU button on the Remote Commander to display the Setup menu, then select the (still image) icon with the \blacklozenge or \clubsuit button.

- 2 Press the FAR/NEAR button on the Remote Commander. The picture shot by the remote camera and the FAR indicator appear on the monitor screen in the Still Image menu window. "Send" in the menu turns to "Receive".
- 3 Use the ♠, ♥, ♦ or ♦ button on the Remote Commander to select "Receive", then press the PUSH ENTER button.



The remote picture displayed on the monitor screen is received as a still image.

To cancel still image display

Press the PUSH ENTER button on the Remote Commander to display the submenu. Select "Clear" with the \blacklozenge or \blacklozenge button, then press the PUSH ENTER button.

Saving Still Images to a "Memory Stick"

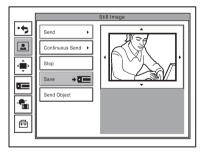
You can save the picture shot by the local camera or input picture from the connected equipment or the remote picture during conference on a "Memory Stick".

Saving Still Images Using the Still Image Menu

- **1** Open the Communication Terminal front panel, and then insert the "Memory Stick" used to save images into the Memory Stick slot.
- 2 Open the Still Image menu.
 Press the MENU button on the Remote Commander to display the Setup menu, then select the (still image) icon with the or to utton.
- **3** Display the picture you want to save on the monitor screen. To switch the input on the local site, press the VIDEO INPUT SELECT button on the Remote Commander to display the Video Input Select menu, select the desired picture, then press the PUSH ENTER button. To save the remote picture, switch to the picture on the remote site with the

FAR/NEAR button on the Remote Commander, and select the desired picture.

4 Use the ♠, ♥, ♦ or ♦ button on the Remote Commander to select "Save", then press the PUSH ENTER button.



The picture displayed on the monitor screen will be saved as a still image to the "Memory Stick".

Notes

- Do not remove the "Memory Stick" until the data is completely loaded. If you do, the "Memory Stick" may be damaged or the Communication Terminal may cause a malfunction.
- A still image file is saved as a new file. It will not be overwritten.

When the write-protect tab on the "Memory Stick" is set to "LOCK" when you selected "Save" in step 4

The message "Memory Stick write-protected" appears and you cannot save the still image file.

When the memory of the "Memory Stick" is full

The message "Memory full." appears and you cannot save the still image file.

Image format that can be stored on a "Memory Stick"

File name

The image file is saved as "DSCXXXXX.jpg".

Compression format

The Communication Terminal compresses and records the recorded image data in the JPEG (Joint Photographic Experts Group) format. The file extension is ".jpg".

Note

The Communication Terminal is not compatible with progressive JPEG format data.

Saving Still Images Using the Memory Stick Menu

You can save still pictures using the "Memory Stick" "Save" button displayed on the Memory Stick menu.

- **1** Insert the "Memory Stick" to which you are saving the images into the Memory Stick slot.
- Display the picture you want to save.
 To switch the input on the local site, press the VIDEO INPUT SELECT button on the Remote Commander to display the Video Input Select menu, select the desired picture, then press the PUSH ENTER button.
 To save the remote picture, switch to the picture on the remote site with the FAR/NEAR button on the Remote Commander, and select the desired picture.

4 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select the Save button, then press the PUSH ENTER button.

The selected picture is saved to the "Memory Stick" and a thumbnail is created.

Hint

Pressing the FAR/NEAR button on the Remote Commander during a videoconference switches the display between the local and remote pictures. When the remote pictures are being displayed, the FAR icon appears.

Saving Still Images Using the Communication Submenu

You can promptly save the picture displayed on the monitor screen during communication to the "Memory Stick" as a still image.

1 During communication with the remote party press the PUSH ENTER button.

The communication submenu appears.

Dual Video		Ph	ione Book
Presentation			1
Whiteboard			
Reject Answer	✓	Send	
lcon display	 	Save	+0
End			

2 Press the ▲ or ♦ button on the Remote Commander to select "Save", then press the PUSH ENTER button.

The displayed picture is frozen and saved to the "Memory Stick" as a still image.

After saving, the message "Still image saved to Memory Stick." appears.

To hide the communication submenu

Select "End" in the menu, then press the PUSH ENTER button.

Using a Convenient Menu Available during Communication — The Communication Submenu

During communication with a remote party, pressing the PUSH ENTER button on the Remote Commander opens the communication submenu. The communication submenu allows you to perform operations often used during communication only by selecting the item in the menu.

Communication submenu



Selecting each item with the \blacklozenge or \blacklozenge button and pressing the PUSH ENTER button enables the following operations:

Dual Video: Starts dual video. Only appears during a two-way videoconference.

Note

To perform dual video, the "H.239 Dual Video" in the Communication Setup menu should be set to "On". Dual video is not available during a multipoint videoconference.

Presentation: Sends the RGB picture input from the optional PCSA-DSB1S Data Solution Box to a remote party. After it does, the item changes to "Presentation •". Selecting "Presentation •" ends the transmission of the RGB picture. Only appears when the Data Solution Box is connected to the Communication Terminal.

Whiteboard: Sends notes written on a whiteboard with the mimio Xi attached.
While it does, the item changes to "Whiteboard ". Selecting
"Whiteboard " ends the transmission of notes on the whiteboard. Only appears when the whiteboard with the installed mimio Xi is connected.

Reject Answer: Rejects incoming calls from other terminals during a videoconference.

Icon Display: Displays the on-screen indicators if they are not shown. While the indicators are displayed, the item changes to "Indicator ✓". Selecting "Indicator ✓" hides the indicators.

Phone Book: Shows the Phone Book menu.

- **Send:** Sends the picture displayed on the monitor as a still image to a remote party. After it does, the item changes to "Clear". Selecting "Clear" restores the motion picture from the camera.
- Save: Saves the picture displayed on the monitor to a "Memory Stick" as a still image.

End: Clears the communication submenu.



Streaming a Videoconference

By broadcasting the live stream of a videoconference, people who cannot attend the conference can watch the proceedings over the Web using a computer.

For details on viewing a streamed videoconference, see chapter 10.

Starting a Streaming Broadcast

- Press the MENU button on the Remote Commander to display the Setup menu, and then use the ▲ or ➡ button to select the
 (Streaming) icon. The Streaming menu appears.
- **2** Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button on the Remote Commander to select "Start" and then press the Enter button.

The streaming broadcast starts, and the videoconference proceedings can be watched from a computer over the Web.



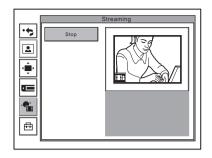
Note

If you start streaming before the videoconference begins, the broadcast will continue streaming after the videoconference begins.

For details on the streaming settings, see the "Streaming/Recording Menu" page 65.

Stopping a Streaming Broadcast

- Press the MENU button on the Remote Commander to display the Setup menu, and then use the ▲ or ➡ button to select the
 (Streaming) icon. The Streaming menu appears.
- Use the ↑, ↓, ↓ or → button on the Remote Commander to select "Stop" and then press the Enter button.
 The streaming broadcast stops.



Note

The streaming broadcast does not automatically stop when the videoconference finishes. To stop the broadcast, follow the above procedure.



Recording a Videoconference

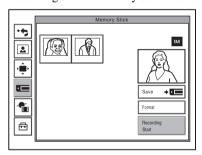
A videoconference can be recorded to a "Memory Stick" as an MPEG4 and watched on a computer later.

Starting Recording

1 Insert the "Memory Stick" into the Memory Stick slot to display the Memory Stick menu.

For details on how to insert a "Memory Stick" and how to display the Memory Stick menu, see "Using Still Images Stored on a "Memory Stick" for a Videoconference" (page 131).

2 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select "Recording Start," and then press the Enter button. Recording to the "Memory Stick" starts.



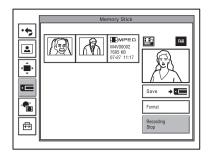
Hint

Pressing the FAR/NEAR button on the Remote Commander during a videoconference switches the display between the local and remote pictures. When the remote pictures are being displayed, the FAR icon appears.

For details on the recording settings, see the "Streaming/Recording Menu" on (page 65).

Stopping Recording

- **1** Display the Memory Stick menu.
- 2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select "Recording Stop," and then press the Enter button. Recording to the "Memory Stick" stops.



Notes

- During recording, if the remaining capacity of the "Memory Stick" is no longer enough for storage, the recording stops automatically and a notification message appears.
- Although the recorded MPEG4 files have the same file type name as the MPEG4 files that can be played on the PSP or other devices that support the "Memory Stick" video format, you cannot play the files on these devices even after the files are recognized and moved to the file directories of these devices.

Deleting Recorded Data

Display the Memory Stick menu, select the MPEG4 file you wish to delete, and then press the PUSH ENTER button. When the sub-menu displays, press the ♠ or ♥ button on the Remote Commander to select "Delete", and then press the PUSH ENTER button. The MPEG4 file is deleted from the "Memory Stick".

Note

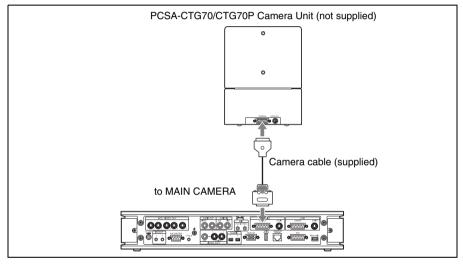
You cannot delete data of a videoconference that is in progress.

Using the PCSA-CTG70/CTG70P Camera Unit

The optional PCSA-CTG70/CTG70P Camera Unit automatically detects the direction of the person speaking.

To connect the PCSA-CTG70/CTG70P Camera Unit

To use the features of the PCSA-CTG70/CTG70P Camera Unit, connect it to the first MAIN CAMERA connector. Otherwise, it operates as a secondary camera.



To use the Camera Unit

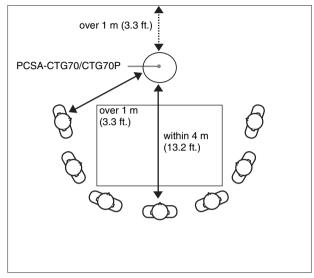
Select the mode you want to use from the Camera menu (page 117).

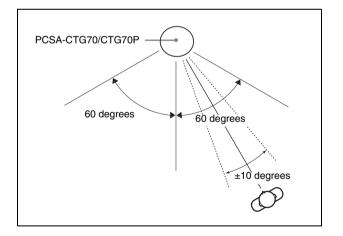
Note on using the PCSA-CTG70/CTG70P Camera Unit

- Place the Camera Unit level to and 1 m to 4 m (3.3 ft. to 13.2 ft.) away from conference participants. However, in Presenter mode, place the camera at least 3 m (9.8 ft.) away from the subject.
- Do not place obstructions between the camera and participants. In Presenter mode, tracking may not function properly if there are people between the camera and the speaker.
- Place the camera at least 1 m (3.3 ft.) away from walls and obstructions. Sound reverberations may cause improper functioning.
- When using the Camera Unit's automatic pan/tilt functions, such as Training and automatic angle adjustment, do not use the Remote Commander to adjust the pan/tilt or to perform a preset operation because this can cause the camera to malfunction.

• The range of the voice-directional detection function is 60 degrees to the left and right from the center of the camera, with $a \pm 10$ degrees level of accuracy. Place the camera so that the conference participants are within this range.

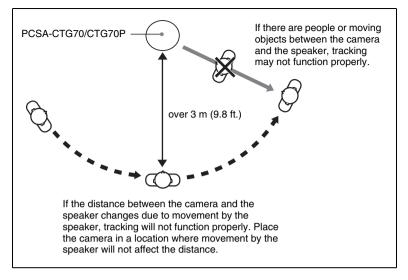
Setup example for Speaker Tracking and Next Face Centering mode







Setup example for Presenter mode



Using Multiple Monitors

By connecting several monitors to the system, you can display different material, such as video or still images, on different monitors.

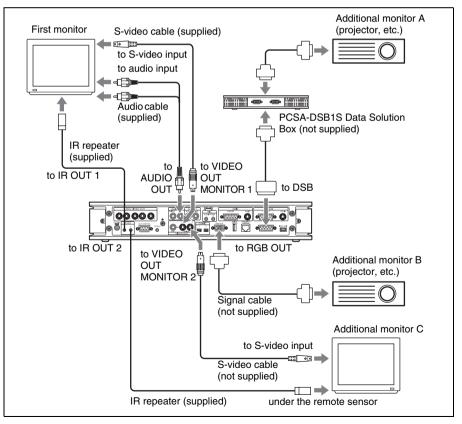
Using Two Monitors–Dual Monitor Setup

By connecting two monitors, you can use one as a video-only display.

To connect a second monitor

To connect a second monitor, simply connect it to the VIDEO OUT MONITOR 2 or RGB OUT connector of the Communication Terminal, or the RGB OUT connector of the Data Solution Box.

If your second monitor is a Sony monitor, connect the supplied IR repeater immediately under the monitor's remote sensor, and connect the other end of the IR repeater cable to the IR OUT 2 connector of the Communication Terminal.



To change the settings

Set "Monitors" in "Monitor Out" of the Video Setup menu to "2". Next, select the connector where the second monitor is connected. To do so, set "Monitor" in "Monitor Out" of the Video Setup menu to "SUB". Once the settings are changed, the first monitor displays video, while the second displays still images.

Note

The settings cannot be changed while transmission is in progress.

For details, see "To change the images displayed in a dual monitor setup" on page 157.

To view the picture as a window picture

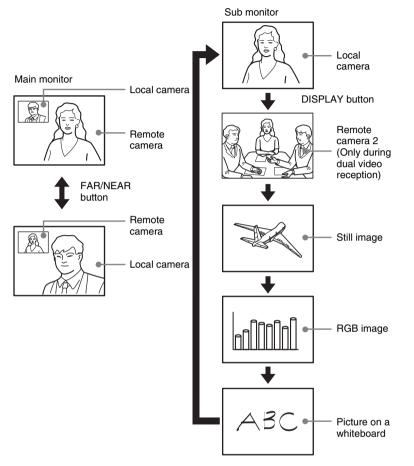
When you press the PinP button of the Remote Commander during communication, the picture appears as a smaller window picture over the display of the first monitor.

Note

You cannot perform this operation on the second monitor.

To change the images displayed in a dual monitor setup

You can display the following on the first and second monitor during transmission.



Main monitor

You can display either local or remote camera video. When alternating between local and remote video, press the FAR/NEAR button of the Remote Commander, and then make the appropriate selection on the display control menu that appears.

Sub monitor

You can display local camera video, received or transmitted still images, RGB images transmitted through the Data Solution Box PCSA-DSB1S, or whiteboard images.

Each time that you press the DISPLAY button of the Remote Commander, the display changes.

Notes

- If there is no RGB or still image feed, it is not possible to alternate the display as outlined above.
- RGB pictures will display on the first monitor when the first monitor is connected DSB, or when the first monitor is connected to RGB OUT and the second monitor is connected to VIDEO OUT 2.
- Whiteboard pictures will display on the first monitor when the first monitor is connected to RGB OUT, and when the first monitor is connected to DSB and the second monitor is connected to VIDEO OUT 2.

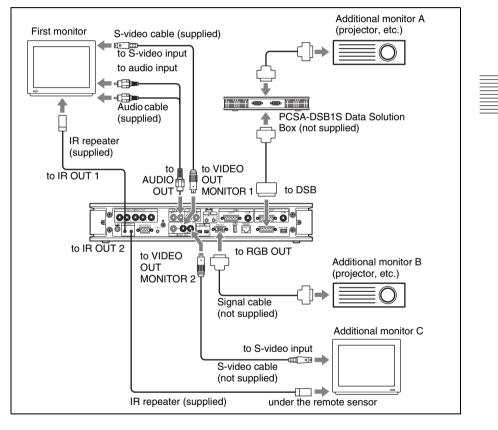
Using Three Monitors–Triple Monitor Setup

By connecting three monitors, you can use two as video-only displays.

To connect a third monitor

To connect a second and a third monitor, simply connect them to the VIDEO OUT MONITOR 2 or RGB OUT connector of the Communication Terminal, or the RGB OUT connector of the Data Solution Box.

If your second and third monitor is a Sony monitor, connect the supplied IR repeater immediately under the monitor's remote sensor, and connect the other end of the IR repeater cable to the IR OUT 2 connector of the Communication Terminal.



To change the settings

Set "Monitors" in "Monitor Out" of the Video Setup menu to "3". Next, you must select the connector where the second monitor is connected. To do so, set "Monitor" in "Monitor Out" of the Video Setup menu to "SUB". Once the settings are changed, the first monitor displays video, while the second and third display video or still images.

For details, see "To change the images displayed in a triple monitor setup" on this page.

To view the picture as a window picture

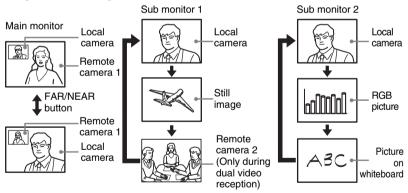
When you press the PinP button of the Remote Commander during communication, the picture appears as a smaller window picture over the display of the first monitor.

Note

You cannot perform this operation on the second and third monitors.

To change the images displayed in a triple monitor setup

You can display the following on the monitors during communication in a triple monitor setup.



In this setup, each time that you press the DISPLAY button on the Remote Commander, the entire display structure changes in sequence.

Main monitor

You can display remote camera video.

Sub monitor 1

You can display local camera video, received or transmitted still images, or remote camera video.

Each time that you press the DISPLAY button of the Remote Commander, the display changes.

Sub monitor 2

You can display local camera video, RGB images transmitted through the Data Solution Box PCSA-DSB1S, or whiteboard images.

Note

If there is no RGB or still image feed, it is not possible to alternate the display as outlined above.



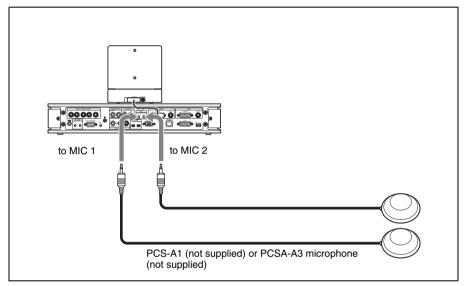
Using Multiple Microphones

You can connect several optional PCS-A1 or PCSA-A3 microphones to the system, allowing more people to participate in the conference.

If you are using an echo canceling microphone, see "Using the PCSA-A7 Microphones" on page 166.

To connect the optional microphones

Connect the optional microphones to the MIC 1 and MIC 2 connectors on the Communication Terminal. Power is supplied to the microphones from the terminal.



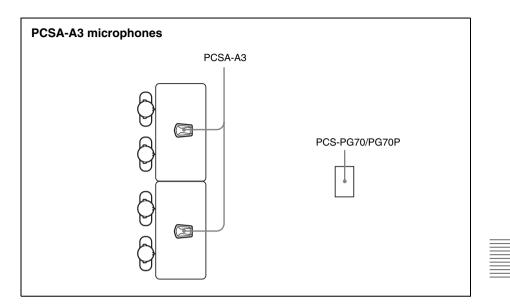
To use the connected microphone

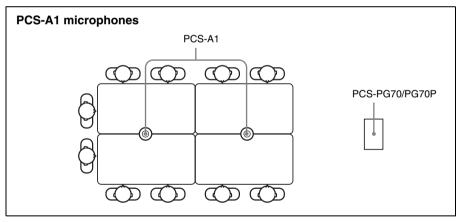
Set "Mic Select" to "MIC" on page 1 of the Audio Setup menu. (See page 56.)

Notes on installation of the microphones

- Install microphone about 50 cm away from the participants.
- Install the speakers behind the microphones.
- Place the microphone in a quiet, echo-free location.
- Install microphones away from equipment that may cause noise.
- Avoid covering a microphone with paper, etc., or moving it. If you do either, extreme noise and echo may be heard temporarily by the remote party. In this case, wait until the echo disappears.

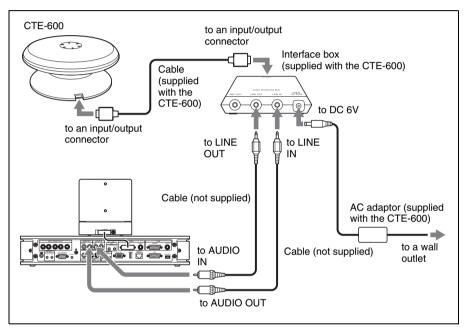
Microphone layout examples





Using the Communication Transducer (CTE)

The CTE Communication Transducer is an integrated system equipped with uni-directional microphones and omni-directional acoustic speaker. The unit is enabled to pick up clear voice with minimum background noise from all directions and to emit clear sound equally in all directions.



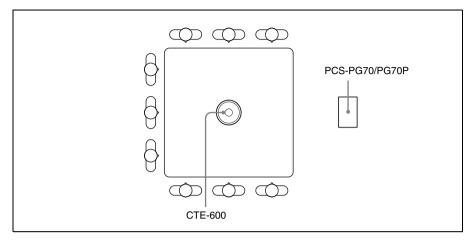
To connect the CTE-600 Communication Transducer

To use the Communication Transducer (CTE)

- Set "CTE" on page 1 of the Audio Setup menu to "LINE". (page 56)
- Set the SYSTEM SELECT switch at the bottom of the Communication Transducer to "PCS".

For detailed information on the Communication Transducer, refer to the Operating Instructions that come with the Communication Transducer.

CTE layout example



Using the PCSA-A7 Microphones

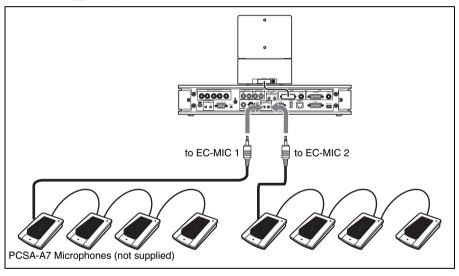
You can connect multiple PCSA-A7 Microphones (optional) to conduct a multi-participant conference.

PCSA-A7 Microphones have the following characteristics:

- A Built-in echo canceller
- Noise reduction
- · High quality sound
- Several PCSA-A7 Microphones can be connected in cascade without losing sound quality

To connect the PCSA-A7 Microphones

Connect the PCSA-A7 Microphones to the EC-MIC 1 and EC-MIC 2 connectors of the Communication Terminal. Power to the Microphones is supplied by the Communication Terminal.



To use the Microphones

On the first page of the Audio Setup menu, select "EC-MIC" in "Mic Select" (page 56).

Notes on placing the PCSA-A7 Microphones

- Position the Microphones about 50 cm (1.6 ft) away from the participants.
- When using speakers, do not place them in front of the microphones.

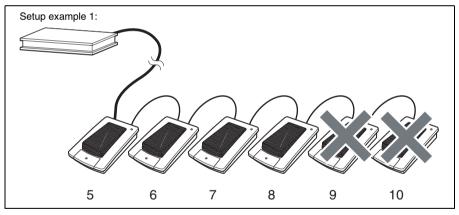
Configuration using the PCSA-A7 Microphones

Power is supplied to up to eight microphones connected to the PCS-G70/G70P Video Communication System or the AC adaptor, including cascade connections. However, using the 8-meter microphone cable counts as 4 microphones.

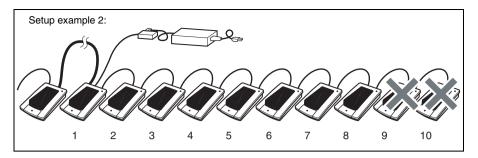
Power is not supplied to any connected microphones that exceed this limit. You can add more microphones, by connecting the AC adaptor to the first nonpowered microphone.

Notes

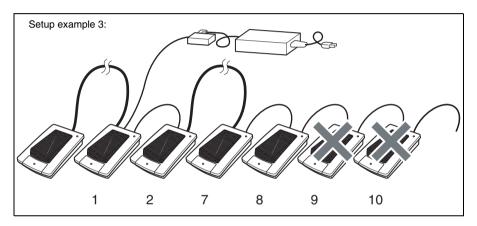
- Up to 80 PCSA-A7 Microphones can be connected to one port, using a cascade connection.
- The POWER LED turns off on a microphone with no power supply.



The 8-meter microphone cable counts as four microphones, and power is supplied to only the first four microphones. The same is true if the 8-meter microphone cable is used in the middle of the connections.

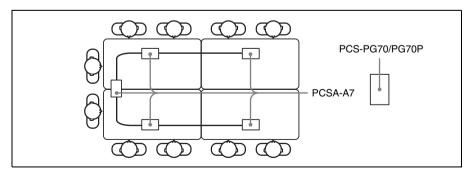


Up to eight microphones are powered by the AC adaptor, counting from the microphone connected to the AC adaptor.



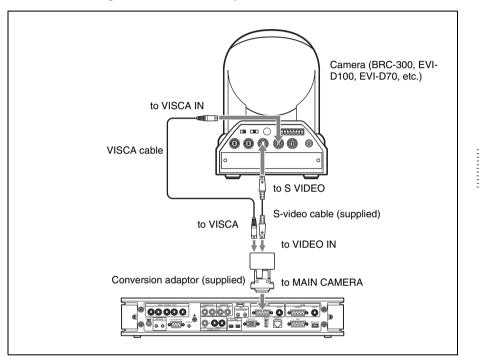
The 8-meter microphone cable is used in the middle of the connections, and counts as four microphones. Up to four microphones are powered by the AC adaptor, counting from the microphone connected to the AC adaptor.

Microphones layout example



Using the Conversion Adaptor

You can connect Sony cameras other than the standard camera unit, such as the BRC-300, EVI-D100, and EVI-D70 using the conversion adaptor.

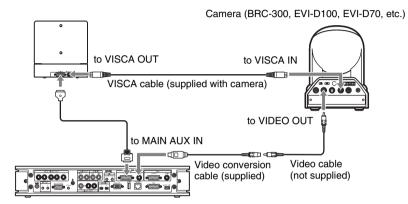


Connection using the conversion adaptor

Using a Second Camera

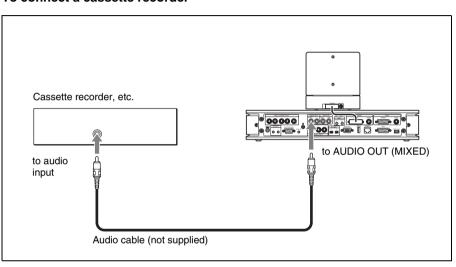
You can connect a Sony camera, such as the BRC-300, EVI-D100, and the EVI-D70, as a second camera through the PCSA-CG70/CG70P Camera Unit.

Connection example for a second camera



Recording Audio During a Conference

You can record the voices of the participants on both the remote and local sites during a conference if you connect a cassette recorder to the AUDIO OUT (MIXED) jack on the Communication Terminal. This is convenient for taking minutes of the conference.



To connect a cassette recorder

When recording with a cassette recorder

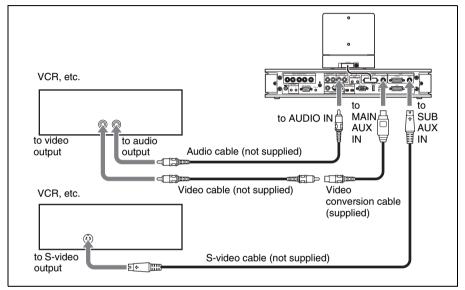
When a cassette recorder is connected to both the AUDIO IN and AUDIO OUT (MIXED) jacks, set "Recording Mute" to "On" on page 1 of the Audio Setup menu to prevent from reflecting echo on a remote party. (See page 56.)

Sending Audio/Video from the External Equipment to a Remote Party

The Communication Terminal allows you to send the picture and sound output from the connected equipment such as a VCR to the remote party.

To connect the video equipment for input

The Communication Terminal is equipped with two video inputs.



Note

Be sure to connect the audio cable to either of two VCRs.

To input audio/video from external equipment

To input video

Open the Video Input Select menu by pressing the VIDEO INPUT SELECT button on the Remote Commander, then select the desired video input from the "Near" text box in the menu.

To input the video from the equipment connected to the MAIN AUX IN or SUB AUX IN jack, choose "AUX 1" or "AUX 2", respectively.

To input audio

Set "Input Select" to "AUX" or "MIC + AUX" on page 1 of the Audio Setup menu. (See page 56.)

When set to "AUX", the sound from the external equipment is input and the sound from a microphone is deactivated. When set to "MIC + AUX", both sounds are input.



Conducting a Conference Without the Picture – Voice Meeting

Using the PCS-G70/G70P Video Communication System, you can conduct a voice only conference via a normal phone without connecting the videoconferencing system. (**Voice Meeting**) Basic connection procedures are the same as those for videoconferencing.

Conducting a voice meeting with a remote party not registered in the phone book

Set "Line I/F" to "ISDN(Telephone)" on page 1 of the Dial Setup menu. During the Voice Meeting, the "Voice Only" indicator is displayed.

For "Line I/F" setting, see "To call a remote party not registered in the Phone Book" on page 96.

To register a remote party for a Voice Meeting

Set "Line I/F" to "ISDN(Telephone)" in the List Edit menu displayed from the Phone Book menu.

For registration, see "Registering a Remote Party – Phone Book" on page 77.

To set the audio compression format

Select the audio compression format by setting "Telephone Mode" on page 1 of the Dial Setup menu.

When you initiate the voice meeting, set "Telephone Mode" to "Auto". When set to "Auto", the G.711 µ-law format is automatically selected.

You need not set the audio compression format when receiving a call from the remote party.

For the "Telephone Mode" setting, see page 50.

Controlling the Remote System With the Tone Signal – DTMF Transmission

The Video Communication System enables you to control the remote system connected by transmitting the tone signal (DTMF: Dual Tone Multi Frequency) assigned to the numbers for dialing (0-9, #, *).

- **1** Press the ***** button on the Remote Commander during communication. The DTMF menu appears on the monitor screen.
- 2 Press one of the number buttons (0-9, *#*, ★) on the Remote Commander corresponding to the tone signal you want to transmit to the remote party. The tone signal will be transmitted when the button is pressed.
- **3** To stop transmitting the tone signal, press the PUSH ENTER button on the Remote Commander. The DTMF menu disappears.

Note

The microphone automatically mutes while the DTMF menu is displayed.

Conducting a Data Conference Using NetMeeting – T.120 Data Conference

Connecting the Communication Terminal to the computer with NetMeeting* installed enables conduct of a data conference in compliance with the T.120 standard of the ITU-T Recommendation via the PCS-G70/G70P Video Communication System only when it is connected over ISDN.

NetMeeting is a registered trademark of Microsoft Corporation.

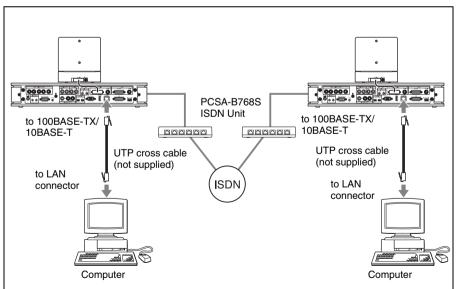
Notes

- When the Communication Terminal is used for a multipoint videoconference, the T.120 data conference is not available.
- When the PCS-G70/G70P Video Communication System is connected with a videoconferencing system at the remote party via LAN, conduct the T.120 data conference using a computer instead of the PCS-PG70/PG70P.

To connect a computer

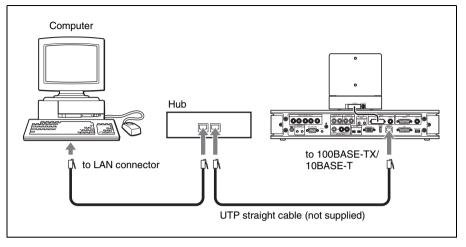
To connect a computer to the connector on the Communication Terminal

Use a commercially available UTP cross cable (category 5) to connect the LAN connector on the computer with the 100BASE-TX/10BASE-T connector on the Communication Terminal.



To connect to a computer via a hub

Connect the Communication Terminal to a computer using the UTP straight cable.



To configure the Communication Terminal

Open the "Device Setup" on page 1 of the General Setup menu, and then enter the IP address of the computer where the NetMeeting application is installed in the "T.120 PC Address" text box. (See page 60.)

Set "T.120 Data" to "On" on page 3 of the Communication Setup menu. (See page 54.)

Note

We recommend that you set "Audio Mode" to "G.728" on page 3 of the Communication Setup menu.

To connect to a remote party using NetMeeting

Before connecting, install the NetMeeting application in your computer.

- Double-click the NetMeeting icon, or click "NetMeeting" from the Start menu on the computer's window. NetMeeting starts.
- **2** Set the Communication Terminal to communication mode. Check that the "T.120" indicator is displayed on the monitor screen.
- **3** Click "Calling" in the NetMeeting window on the computer of either a local or remote party.
- **4** Enter the IP address set for the Communication Terminal in the "Address" text box of the "Call to" dialog box.

5 Click "Call".

After a while the connection is completed.

For details on how to operate, refer to the Help menu of the NetMeeting application.

About the transmission rate

The Communication Terminal supports the following transmission rates: **MLP:** 6.4 Kbps, 24 Kbps, 32 Kbps **HMLP:** 62.4 Kbps, 64 Kbps, 128 Kbps.

Accessing the Communication Terminal

The following controls are available to access the Communication Terminal. For details on each control, consult your Sony dealer.

Using a Web Browser

Accessing the IP address of the Communication Terminal from a Web browser allows you to control or set up the terminal.

For details on the password to access or Web monitoring feature, see "Administrator Setup Menu" on page 62.

For details on Web operation, see chapter 10, "Web Control Function".

Using Telnet

Accessing the IP address of the Communication Terminal from Telnet allows you to control or set up the terminal.

For details on the password to access or Web monitoring feature, see "Administrator Setup Menu" on page 62.

Chapter 5: Data Conference

This chapter shows you how to use the data from a computer, etc. connected to the optional PCSA-DSB1S Data Solution Box for a conference.

The optional PCSA-DSB1S Data Solution Box is equipped with various input/ output connectors. For example, connecting the RGB output on a computer enables you to transmit the pictures or text data displayed on the computer to a remote party. When you connect a projector, you can display a highresolution image from a computer on the projector at a high transmission rate. The PCSA-DSB1S is also equipped with connectors for connecting active speakers and microphones. The PCSA-DSB1S is connected with the Communication Terminal using the interface cable for exclusive use.

The party who receives the data, even if the party has no Data Solution Box or uses another videoconferencing system such as PCS-11/11P and PCS-1600, can view the computer images sent from the other party. However, the quality of the picture received varies with the components of the system. If the Data Solution Box is used by the party who receives the data, a larger number of frames per second is obtained than the system without the Data Solution Box. It allows you to obtain a high-resolution motion picture from a computer.

For details on picture quality depending on the system components, see "Picture quality of the data solution box" on page 186.

For details on RGB signal specifications, see "Acceptable RGB Input/Output Signals" on page 300.

Restrictions on the IP address of the system when using the Data Solution Box

The IP address available for the PCS-G70/G70P Video Communication System is restricted when you use the Data Solution Box. Moreover, a network for communication between the Data Solution Box and the Communication Terminal should be set up to be a separate segment.

As a result, unusable IP address is the value obtained from the AND operation with the address of the Data Solution Box for communication and the network mask.

(Unusable IP address for the PCS-PG70/PG70P) = (IP address of the PCSA-DSB1S) & (Network mask)

The IP address of the PCSA-DSB1S is fixed at "192.254.1.2". If the Network mask is assumed to be "255.255.0.0", an unusable IP address is as follows:

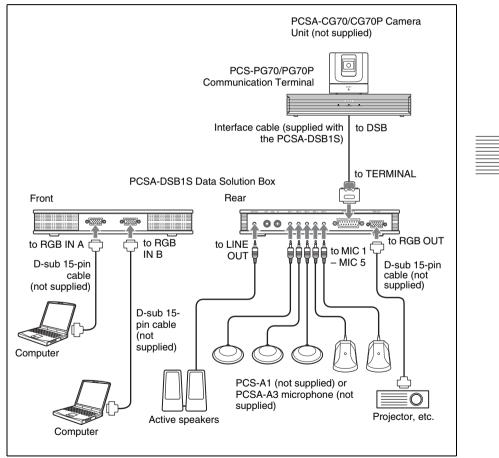
192.254.m.n ($0 \le m \le 255, 0 \le n \le 255$)

Note on the camera picture when using the Data Solution Box

When transmitting a signal via the Data Solution Box, the camera picture quality will be lower owing to the decreased number of frames.

Connection Example Using the Data Solution Box

- Be sure not to turn on the power of each unit until all the connections are completed.
- Do not connect/disconnect the camera cable or the interface cable with the power on. Doing so may damage the Camera Unit, Communication Terminal or Data Solution Box.
- Used with the Data Solution Box for the first time, the Communication Terminal may automatically upgrade the software of the Data Solution Box. While the upgrading message is displayed on the monitor screen, be sure not to turn off the Communication Terminal. Doing so may cause malfunction of the system.



Notes on the connection example

- Power to the Data Solution Box is supplied from the PCS-PG70/PCS-PG70P Communication Terminal with a connection described above.
- Connect a projector, etc. to the RGB OUT connector on the Data Solution Box.

This connection enables you:

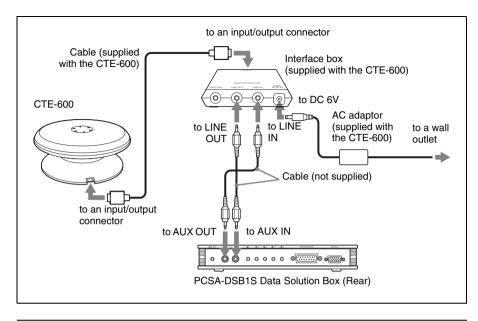
- To display the computer picture on the local site while transmitting it to the remote site.

– To display the received computer picture with optimum picture quality. The received computer picture can also be output from the VIDEO OUT or RGB OUT connector on the PCS-PG70/PCS-PG70P Communication Terminal, but the computer picture while transmitting cannot be output from these connectors.

Notes on the connection of a microphone

- Up to five microphones can be connected with the Data Solution Box.
- When using external microphones, the sound transmitted to the remote party may become unclear due to noises in a conferencing room. In this case speak close to the microphone.
- When using multiple microphones, the Echo Canceller function cannot be fully utilized depending on the type of conference room. In this case, try to suppress any echo in the room or decrease the number of microphones.
- You cannot use the microphones connected to the Data Solution Box together with those connected to the Communication Terminal or the built-in microphone.

Connecting the CTE-600 Communication Transducer



To use the Communication Transducer connected to the Data Solution Box

- Set "CTE" on page 1 of the Audio Setup menu to "DSB AUX IN" (page 56).
- Set the SYSTEM SELECT switch at the bottom of the Communication Transducer to "PCS".

Note

You cannot use two or more Communication Transducers in a room and cannot use it together with other microphones.

For detailed information on the Communication Transducer, refer to the Operating Instructions that come with the Communication Transducer.



Using Audio/Video Signal from the Connected Equipment for a Conference

Setting Before Conferencing

To use a microphone connected to the Data Solution Box

Set "Mic Select" to "DSB MIC" on page 1 of the Audio Setup menu (page 56).

To use a projector, etc. connected to the RGB OUT connector on the Data Solution Box

Set "Connection" to "RGB OUT (DSB)" on page 1 of "Monitor Out" on the Video Setup menu (page 58).

Operating the System During a Conference

To select a picture from a computer connected to the Data Solution Box

When using the buttons on the Data Solution Box

Press the RGB A or RGB B button on the upper panel of the Data Solution Box.

To select the picture from the computer connected to the RGB IN A connector, press the RGB IN A button, or the RGB IN B button to select that from the computer connected to the RGB IN B connector.

The indicator of the selected button lights.

RGB A GEED RGB B GEED RGB B GEED	
RGB A button RGB B button	

When using the Remote Commander

- **1** Press the VIDEO INPUT SELECT button on the Remote Commander. The Video Input Select menu appears.
- 2 Use the ↑, ↓, ◆ or → button on the Remote Commander to select the "RGB A" or "RGB B" input from "DSB Input".
 RGB A: Select the picture from the computer connected to the RGB IN A connector.

RGB B: Select the picture from the computer connected to the RGB IN B connector.

Video Input Select				
Input 2	Split	Far	DSB Input	
				
Secondary camera	Off	Main Camera	RGB A	
▼	▼	▼	▼	
	Input 2	Input 2 Split	Input 2 Split Far	

3 Press the PUSH ENTER button on the Remote Commander. The indicator of the RGB A or RGB B button on the upper panel of the Data Solution Box lights according to the selected input.

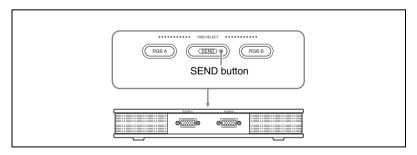
Note

Even if you select the input with the buttons on the Data Solution Box, the display in the Video Input Select menu will not change.

To transmit a picture from a computer connected to the Data Solution Box

Press the SEND button on the upper panel of the Data Solution Box. The indicator on the SEND button lights and the picture of the equipment selected with the RGB A or RGB B button or the VIDEO INPUT SELECT button is displayed on the projector, etc. connected to the RGB OUT connector on the Data Solution Box. While in communication, the picture selected on the Data Solution Box is transmitted to the remote party simultaneously. Such computer picture is displayed without any conversion as input to the Data Solution Box. The detailed portion of the picture transmitted to the remote party may not be clearly seen and the number of frames may be reduced.

For details on picture quality, see "Picture quality of the data solution box" on page 186.





Note

While you are transmitting the computer picture, you cannot receive a still image or a computer picture from any other terminal. Ending your transmission enables you to receive it. When you are receiving a still image or computer picture from any other terminal, you cannot transmit a computer picture from equipment connected to the Data Solution Box.

To transmit a picture from the computer using the Remote Commander

You can transmit a picture from the computer by operating the Remote Commander. For details, see "Using a Convenient Menu Available during Communication — The Communication Submenu" on page 146.

To transmit the picture from a computer to multiple points

If you install the optional PCSA-M3G70 H.323 (for LAN) or PCSA-M0G70 H.320 (for ISDN) MCU software, you can transmit the picture from the computer to multiple points.

Picture quality of the data solution box

The picture quality received by the remote party varies depending on the type of the terminal or connecting method, or "Monitor Out (or Sub Monitor Out)" setting on the remote site. Using the Data Solution Box on the remote site enables receipt of a high-quality computer picture with larger number of frames.

Note

For a multipoint conference, when the monitor displaying video from the Data Solution Box is connected to the VIDEO OUT1, VIDEO OUT2, or RGB OUT terminals, the ability to broadcast at 1 Mbps changes to about 1 image per second, even for terminals connected to the RGB OUT terminal on the Data Solution Box.

When the PCS-PG70/PG70P is used as a receiving terminal

Monitor used to display the picture of the Data solution Box	Output connector for a computer picture on receiving terminal	Resolution	Video frame rate	Picture quality
VIDEO OUT 1 or VIDEO OUT 2	VIDEO OUT 1 or VIDEO OUT 2 on the PCS- PG70/PG70P	0	0	Outputs the signal by converting a transmitted VGA, SVGA or XGA signal into a 4CIF signal. The original high- resolution picture cannot be obtained and details cannot be clearly seen. The number of frames displayed per second depends on the interface transmission rate. For example, one frame per second is obtained at 1 Mbps.
RGB OUT	RGB OUT on the PCS-PG70/ PG70P	O	0	Outputs the signal by converting a transmitted VGA, SVGA or XGA signal into an XGA signal. The high- resolution picture can be obtained. The number of frames displayed per second depends on the interface transmission rate. For example, one frame per second is obtained at 1 Mbps.
DSB	RGB OUT on the PCSA-DSB1S (only when the PCSA-DSB1S is enabled)	0	0	Outputs the signal by converting a transmitted VGA, SVGA or XGA signal into an XGA signal. The high- resolution picture can be obtained. You can view more vivid picture than the picture output from the RGB OUT connector on the Communication Terminal. The number of frames displayed per second depends on the interface transmission rates. For example, five frames per second is obtained at 1 Mbps with an ISDN connection (three frames per second with a XGA transmission).

 \odot : High, \bigcirc : Middle, \triangle : Low

For details about the settings concerning video output from each output connector, see "Displaying the Picture on a Projector or Monitor" on page 189, and the Video Setup menu "Monitor Out" on page 58.

When the PCS-11/11P is used as a receiving terminal

Resolution	Video frame rate	Remarks
0	0	Outputs the signal by converting a transmitted VGA, SVGA or XGA signal into a 4CIF signal. The original high-resolution picture cannot be obtained and details cannot be clearly seen. The number of frames displayed per second depends on the interface transmission rate. For example, one frame per second is obtained at 1 Mbps.

 \odot : High, \bigcirc : Middle, \triangle : Low

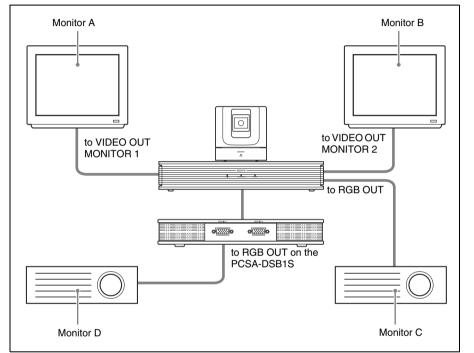
When a videoconferencing system other than the PCS-G70/G70P or PCS-11/11P such as the PCS-1600 is used

Resolution	Video frame rate	Remarks
0	Δ	Sends and receives the pictures in 4CIF, and the original high-resolution picture cannot be obtained and detailed portion cannot be clearly seen. The number of frames displayed per second depends on the interface transmission rates. For example, one frame per several seconds is obtained.

 \odot : High, \bigcirc : Middle, \triangle : Low

Displaying the Picture on a Projector or Monitor

When you connect the Data Solution Box to the Communication Terminal, connections with external monitors, etc. using the following four outputs are available. The connections allow output of the picture to one, two or three monitors selected from among four.



Outputting the Signal to One Monitor

Select the output with "Connection" under "Monitor Out" in the Video Setup menu.

VIDEO 1: Outputs the signal to the monitor (monitor A in the illustration above) connected to the VIDEO OUT MONITOR 1 connector of the Communication Terminal.

- **RGB:** Outputs the signal to the monitor (monitor C in the illustration above) connected to the RGB OUT connector of the Communication Terminal.
- **DSB:** Outputs the signal to a monitor (monitor D in the illustration above) connected to the RGB OUT connector of the Data Solution Box.

When connecting a monitor to the RGB OUT connector on the Data Solution Box

- 1 Connect your monitor to the RGB OUT connector of the Communication Terminal.
- **2** Set "Connection" in "Monitor Out" in the Video Setup menu to "RGB OUT (DSB)".
- **3** Reconnect the monitor to the RGB OUT connector of the Data Solution Box.

Outputting the Signal to Two Monitors

Select to connect two monitors with "Monitors" under "Monitor Out" in the Video Setup menu, and select the main and sub monitors under "Monitor".

The monitor selected as the main monitor is used for video.

- **VIDEO 1:** Outputs the signal to the monitor connected to the VIDEO OUT MONITOR 1 connector (monitor A in the illustration of the previous page) of the Communication Terminal.
- **VIDEO 2:** Outputs the signal to the monitor connected to the VIDEO OUT MONITOR 2 connector (monitor B in the illustration of the previous page) of the Communication Terminal.
- **RGB:** Outputs the signal to the monitor (monitor C in the illustration of the previous page) connected to the RGB OUT connector of the Communication Terminal.
- **DSB:** Outputs the signal to the monitor (monitor D in the illustration of the previous page) connected to the RGB OUT connector of the Data Solution Box.

Note

VIDEO 2 cannot be selected for the main monitor.

Outputting the Signal to Three Monitors

The first monitor for displaying motion pictures is fixed to the monitor connected to the VIDEO OUT MONITOR 1 connector of the Communication Terminal (monitor A in the illustration of the previous page).

Select the output to the second and third monitors with "Connection" under "Monitor Out" in the Video Setup menu.

- **VIDEO 2:** Outputs the signal to the monitor connected to the VIDEO OUT MONITOR 2 connector (monitor B in the illustration of the previous page) of the Communication Terminal.
- **RGB:** Outputs the signal to the monitor (monitor C in the illustration of the previous page) connected to the RGB OUT connector of the Communication Terminal.
- **DSB:** Outputs the signal to the monitor (monitor D in the illustration of the previous page) connected to the RGB OUT connector of the Data Solution Box.

Chapter 6: Videoconference Using a Whiteboard

This chapter describes how to use your whiteboard for your videoconferencing system.

You can transmit and receive notes written on the whiteboard in real-time in a videoconference. You can also store the transmitted or received data in a Memory Stick as still images.

Your whiteboard is usable for a videoconference only when the optional mimio Xi* is used together with the system.

For product information on the mimio Xi, contact your nearest Sony dealer.

* mimio[®] is a registered trademark of Virtual Ink Corporation of the United States. minio Xi is a trademark of Virtual Ink Corporation of the United States.

Note

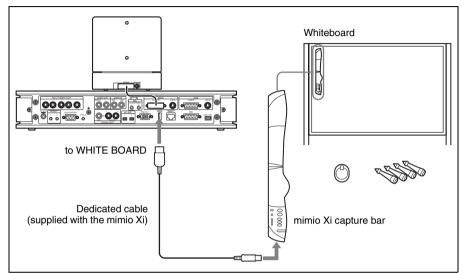
Videoconferencing using the whiteboard is available only between PCS-G70/G70P systems or when a receiving terminal is PCS-G50/G50P, PCS-11/11P, PCS-1/1P or PCS-TL50/TL50P. You cannot use this function with other Sony videoconferencing systems such as PCS-1600, or other manufacturers' systems.



Connection Example With a Whiteboard

Notes

- Be sure to turn off all the equipment before making any connections.
- Do not connect/disconnect the cable with the power on. Doing so may damage the Camera Unit, Communication Terminal or mimio Xi.

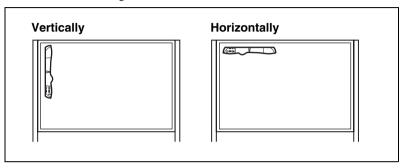


Notes on using the mimio Xi

- Do not use any cable other than the dedicated cable supplied with the recorder.
- Attach the capture bar at the upper left corner of the whiteboard.
- Use only the stylus, marker and eraser that come with the mimio Xi for writing on a whiteboard.
- Do not connect a device other than the mimio Xi to the WHITE BOARD connector on the Communication Terminal.

Attaching the mimio Xi on the Whiteboard

Attach the mimio Xi at the upper left corner of a whiteboard vertically or horizontally, then set the attachment orientation of the mimio Xi and the size of the whiteboard using the menu.



To set the attachment orientation of the mimio-Xi

According to the orientation of the mimio Xi, set "Whiteboard Attachment" to "Vertical" or "Horizontal" in "Whiteboard" of the General Setup menu (page 59).

To specify the whiteboard size to be used

After selecting "Inches" or "Meters" from "Whiteboard Size Measurement" in "Whiteboard" of the General Setup menu, select the size of the whiteboard from "Whiteboard Size" (page 62).

You can select one of the following sizes (height \times width):

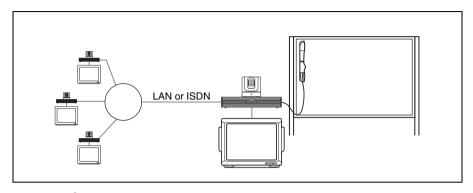
When you attach the mimio Xi vertically

2'0" × 3'0" (0.6 × 0.9 m), 3'0" × 4'0" (0.9 × 1.2 m), 4'0" × 6'0" (1.2 × 1.8 m), 4'0" × 8'0" (1.2 × 2.4 m)

When you attach the mimio Xi horizontally

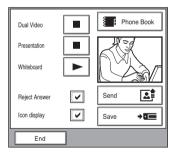
3'0" × 2'0" (0.9 × 0.6 m), 4'0" × 3'0" (1.2 × 0.9 m), 6'0" × 4'0" (1.8 × 1.2 m), 8'0" × 4'0" (2.4 × 1.2 m)

Conducting a Videoconference Using a Whiteboard



- **1** Start the videoconference.
- **2** When you intend to send the whiteboard picture, press the PUSH ENTER button on the Remote Commander to display the communication submenu on the monitor screen.

Communication submenu



Press the ▲ or ♦ button on the Remote Commander to select "Whiteboard
 ▶", then press the PUSH ENTER button.

The whiteboard picture and icon appears on the monitors of both the local and remote parties.

When the local party uses the dual monitor mode, it will be displayed on the sub-monitor (second monitor).

Local monitor screen



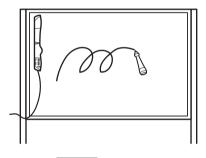
Remote monitor screen



4 Write anything using the stylus, marker or eraser that come with the mimio Xi on the whiteboard.

The notes you are writing are displayed in real-time on the remote and local monitor screens.

Whiteboard



Monitors on the local and remote parties



- Only one whiteboard can be used at a time. If more than two terminals use the whiteboard with the mimio Xi connected, the whiteboard picture written by the party who has turned on the whiteboard first will be displayed on the monitors of all the terminals.
- Set both "Far End Camera Control" on page 3 of the Communication Setup menu (page 54) to "On". The whiteboard cannot be used for a videoconference this item items are set to "On" for all the participating terminals.
- If a party joins in during the middle of the multipoint conference using a whiteboard, the monitor of the party displays only the whiteboard picture written from that time. The pictures transmitted before participation are not displayed on his monitor.

To store the notes written on the whiteboard

Display the communication submenu and then select "Save". The whiteboard picture displayed on the monitor will be stored in the "Memory Stick" as a still image.



To exit from the whiteboard mode

The whiteboard user should open the communication submenu, select "Whiteboard •", then press the PUSH ENTER button.

The pictures displayed on the monitors of all the terminals switch to the normal camera pictures.

Under this circumstance, any terminal may turn on the whiteboard.

Dual Video		Ph	one Book
Presentation			1
Whiteboard			
Reject Answer	 	Send	.
Icon display	~	Save	+
End			

Note

Once the conference has ended, you cannot display the notes written on the monitor screen. If you want to do so, storing the notes on a "Memory Stick" is recommended. See "To store the notes written on the whiteboard".

Chapter 7: Encrypted Videoconference

When a strictly confidential videoconference is required or a videoconference is held via the internet, the Video Communication System enables a videoconference with encrypted video, audio, and data output from the PCSA-DSB1S Data Solution Box. Conducting a videoconference using this feature is known as an encrypted videoconference.

This chapter describes how to conduct an encrypted videoconference. The Video Communication System is equipped with standard encryption, which complies with the ITU-T recommendation H.233, H.234, and H.235, and SONY encryption, Sony's original encryption method.

The SONY encryption method is available only between PCS-G70/G70P Video Communication Systems or between the PCS-G70/G70P and remote parties (receivers) using the PCS-G50/G50P, PCS-11/11P, PCS-1/1P, or PCS-TL50/TL50P Video Communication Systems. You cannot conduct a SONY encryption videoconference with Sony communication systems other than the ones listed, or with videoconferencing systems from other manufacturers. An encrypted videoconference can be conducted using a LAN or ISDN connection with the standard encryption method but only using a LAN connection with the SONY method. The encryption feature can also be used in a multipoint conference using a LAN connection (including the cascade connection).

You cannot conduct an encrypted videoconference with the SONY method via a mixed LAN and ISDN connection.

- Streaming and recording are not available during encrypted videoconferences, whether you are using standard encryption or SONY encryption.
- During an encrypted videoconference using SONY encryption, camera control signals (for controlling the other party's camera) and whiteboard pictures are not encrypted.
- The PCS-G70/G70P, PCS-G50/G50P, PCS-1/1P, PCS-11/11P, and the PCS-TL50/ TL50P are equipped to handle SONY encryption.



Encryption method availability

Point-to-point videoconference

	LAN	ISDN	SIP
Original method (SONY encryption)	О	×	0
Standard method (H.233, H.234, H.235)	0	0	×

Multipoint videoconference

	LAN	ISDN	SIP	LAN & ISDN	LAN & SIP	ISDN & SIP
Original method (SONY encryption)	0	×	0	×	0	×
Standard method (H.233, H.234, H.235)	0	0	×	0	×	×

Preparing for an Encrypted Videoconference via LAN

To start an encrypted videoconference, "Standard encryption" or "SONY encryption" must be selected in the "Signal Encryption Methods" screen of the Encryption menu.

Using standard encryption

1 Select "Standard encryption" in the "Signal Encryption Methods" screen of the Encryption menu.

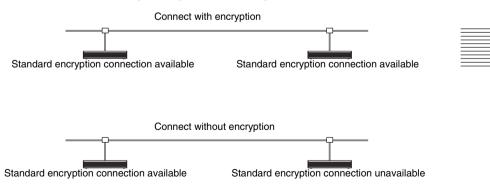
Encryptic	on Setup
Page: 1/1	AH
Signal Encryption Methods	Standard encryption -
Encryption Mode	Connection given priority 🔻
	Save Cancel

"Encryption Mode" displays on the screen.

2 Select an encryption mode.

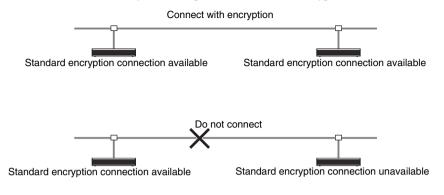
Connect priority

Connects with encryption to a remote party with standard encrypted connection enabled. Connects without encryption to parties unable to connect with standard encryption or parties with encryption set to off.



Encrypt priority

Connects only to remote parties with standard encrypted connection enabled.



Using SONY encryption

1 Select "SONY encryption" in the "Signal Encryption Methods" screen of the Encryption menu.

ion Setup	
≙s	
SONY	•
Save	Cancel
	SONY

"Encryption Password" displays on the screen.

2 Enter the password (13 to 20 alphanumeric characters).

For details on settings, see "Encryption Menu" (page 74).

- When using "SONY encryption", you cannot connect to terminals with a LAN connection and terminals without the encryption function, terminals with "Signal Encryption Methods" set to "Off", or terminals with different encryption passwords.
- When using "SONY encryption", you can connect to terminals with an ISDN connection, but the videoconference is conducted without encryption.

Starting an Encrypted Videoconference

You can start an encrypted videoconference by calling a remote party in the same manner as a daily videoconference.

During an encrypted videoconference, the encryption icons, are displayed.

When the signal encryption method is set to "SONY encryption", the **S** icon displays, and the **S** icon displays when "Standard encryption" is set.



Note

If there is no icon displayed, transmitted and received data is not being encrypted. Confirm if an icon is displayed before starting a conference.

When the encrypted videoconference is disabled

If the following message appears when you call a remote party, an encrypted videoconference is not available.

Error Messages	Causes
The encryption feature on a far- end system is disabled.	The encryption feature on the remote system is disabled.
The entered password for the encryption feature is not correct.	The password entered on the remote system is not the same as that on the local system.
The encrypted videoconference is not available if any terminal is connected via ISDN.	While the videoconference is held via an ISDN connection, you cannot connect any terminal via the LAN connection if your encryption via LAN feature is activated.
The conference could not start because the encryption feature at the near-end side was disabled.	The encryption feature on the local system is disabled.
The conference could not start because the encryption feature at the far-end side was disabled.	The encryption feature on the remote system is disabled.

Error Messages	Causes
The conference could not start because the signal encryption method at the near-end side differed from that of the far-end side.	The signal encryption method setting on the remote system is not the same as that on the local system.
The standard encryption videoconference with SIP connection is not available.	You are connected to the remote system via SIP connection.
The Sony encryption videoconference with ISDN connection is not available.	You are connected to the remote system via ISDN connection.

Chapter 8: Multipoint Videoconference

This chapter describes how to conduct a multipoint videoconference. For conducting a multipoint videoconference, installation of the optional PCSA-M3G70 MCU software (for LAN connection) based on the H.323 standard or the optional PCSA-M0G70 MCU software (for ISDN connection) based on the H.320 standard is required.

Multipoint videoconference among up to ten points including the local site is available when connecting via a LAN.

When connecting via ISDN lines, you can conduct a multipoint videoconference among up to six points including the local site. You can use a normal phone at up to five points over ISDN.

A multipoint videoconference using the ISDN and LAN connections mixed is also available.

To hold a videoconference using an SIP server, see chapter 9.

Restrictions on the use of the MCU software

- When a multipoint videoconference is held via LAN, the bandwidth is automatically set so that the total value of all the points is 4 Mbps at maximum. The bit rate for each point varies with the points you connect.
- When a multipoint videoconference is held via ISDN, the same number of channels should be used on all the points and the total channels are up to 12B. The total channels should be 23B or 30B when using the PCSA-PRI.
- The supported video modes are H.264, H.263+, and H.261 only.
- The supported audio modes are G.711, G.722, G.728, and MPEG4 AAC only.

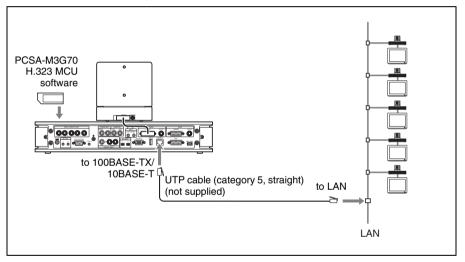
Connection Examples for a Multipoint Videoconference

Using the LAN Connection (Up to 6 Points)

Installing the optional PCSA-M3G70 H.323MCU software in a Communication Terminal allows you to conduct multipoint videoconferences with up to six points.

Connecting five monitors allows you to display each of several points on a different monitor. The point names are displayed on-screen.

If you are already conducting a two-point videoconference when a third point call, the system automatically opens a multipoint conference. This is referred as the "on-the-fly" function.

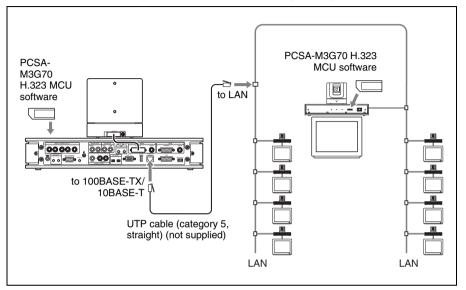


Note

For a multipoint videoconference only the Communication Terminal in which the PCSA-M3G70 H.323 MCU software can be installed is used as main terminal. If you want to use multiple Communication Terminals as main terminals depending on the type of conference, the same number of H.323 MCU software as that of the main terminals is required.

Using the Cascade Connection via LAN (Up to 10 Points)

Installing the optional PCSA-M3G70 H.323MCU software in two Communication Terminals enables cascade connection, allowing you to conduct a multipoint videoconference with up to ten points.

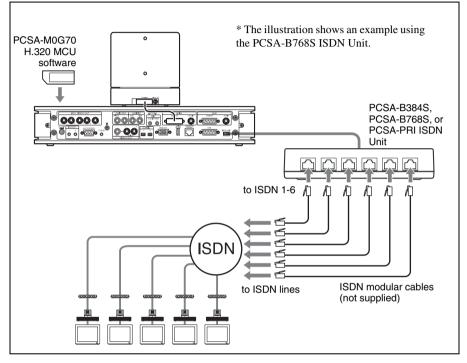


- Installing the PCSA-M3G70 H.323 MCU software into three or more Communication Terminals does not allow cascade connection. Note that the third or later terminals should set "Multipoint Mode" to "Auto" on page 4 of the Communication Setup menu.
- For cascade connection, the "Split" and "Split (Fixed)" modes are not available. Only the "Voice Activate" mode is available.
- The remote parties must be using PCS-1/1P, PCS-G50/G50P, or PCS-G70/G70P Video Communication Systems.



Using the ISDN Connection

Installing the optional PCSA-M0G70 H.320 MCU software in one Communication Terminal allows you to conduct a multipoint videoconference with up to six points by using the optional PCSA-B768S, PCSA-PRI ISDN Unit, or a maximum of 4 points with a PCSA-B384S ISDN unit.



Notes on the number of ISDN lines used and number of remote parties for a multipoint conference

You can select the number of ISDN channels to be used for connecting the first remote point using "Number of Lines" in the Communication menu.

The number of connectable remote points is defined by the number of ISDN lines used and the "Number of Lines" setting. For example, when you use three ISDN lines (up to 6B channels are usable) and set the menu to "4B (256K)," 4B channels are used for the first remote point connection, and the remaining 2B channels are used for the second remote point connection.

Note

When you are called from a remote party and the remote party has set a lower number of ISDN channels than that in this terminal, the setting on the remote party's terminal has priority.

To connect with a normal phone

When you are using an ISDN connection, a normal phone can be connected at up to five points.

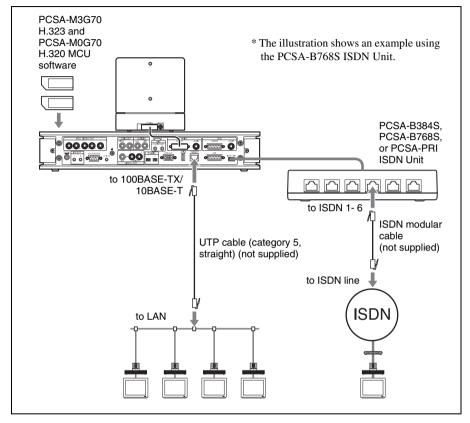
Only the 1B (64K) connection is available for a normal phone.

- When using the ISDN connections, installing the PCSA-M0G70 H.320 MCU software into two or more Communication Terminals does not allow cascade connection.
- For a multipoint videoconference only the Communication Terminal in which the PCSA-M0G70 H.320 MCU software is installed is used as the main terminal. If you want to use two or more Communication Terminals as main terminals depending on the type of conference, the same number of H.320 MCU software as that of the main terminals is required.



Using Both LAN and ISDN

Installing both the PCSA-M3G70 H.323 and PCSA-M0G70 H.320 MCU software in one Communication Terminal enables conduct of a multipoint videoconference with the terminals connected via a LAN and ISDN.

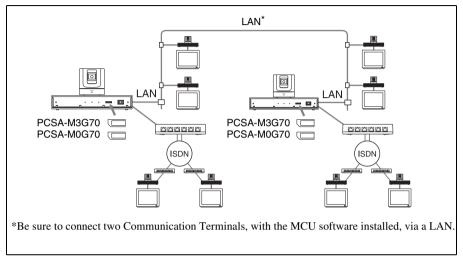


Note

The connection example above includes four terminals via the LAN connection and one terminal via the ISDN connection. There is no limitation on the number of LAN and ISDN connections.

Using the LAN cascade and ISDN connection

Installing both the PCSA-M3G70 H.323 and PCSA-M0G70 H.320 MCU software in two Communication Terminals enables cascade connection including two main terminals. Connecting four terminals to one main terminal allows you to conduct a multipoint videoconference via a LAN and ISDN with up to ten points.



- Be sure to make connection between two Communication Terminals via LAN. Even if the PCSA-M0G70 H.320 MCU software is installed in both the Terminals, cascade connection via an ISDN is not available.
- For cascade connection, the "Split" and "Split (Fixed)" modes are not available. Only the "Voice Activate" mode is available.
- The remote parties must be using the PCS-1/1P, PCS-G50/G50P, PCS-G70/G70P, or PCS-TL50/TL50P as their main terminal.



Installing the MCU Software

Notes on installing the MCU software

- You cannot install the software if the write-protect tab on the Memory Stick where the MCU software is stored is set to "LOCK".
- Once the MCU software is installed in the Communication Terminal, the software is not used again.
- You cannot install MCU software that was copied to another Memory Stick with a computer, etc.
- **1** Open the front panel of the Communication Terminal, and then slide the power switch on the right to the off position (O).
- 2 Insert the "Memory Stick" containing the PCSA-M3G70 or PCSA-M0G70 MCU software into the Memory Stick slot.

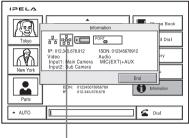
Insert the "Memory Stick" in the direction of the arrow with the mark facing upward.



3 Slide the power switch on the right to the off position (**l**). The MCU software is installed in the Communication Terminal.

To check if the installation of the software is complete

Press the launcher's Information button to display the information. If the "Multipoint Mode" is "On", an icon appears.



Multipoint mode icon

The installed software in the Machine Information menu.

For details on the Information menu, see "Using the Launcher Menu" on page 91.



Setting for a Multipoint Videoconference

Communication Setup menu

You can configure various multipoint videoconferencing settings in the Communication Setup menu.

1 Select the number of ISDN channels to be used for connecting with the first remote point of a multipoint videoconference in "Number of Lines" on page 1 of Communication Setup menu. The number of connectable remote points is defined by the selected number of channels and the number of ISDN lines used.

Communication			
Page: 1/4 >			
Indivisual Settings	Off 🔹		
Number of Lines	4B(256K) 🔻		
LAN Bandwidth	1024Kbps 👻		
	Save Cancel		

2 Select the LAN bandwidth to be used for multipoint videoconferencing in "LAN Bandwidth" on the Communication Setup menu.

Communication		
Page: 1/4 ►		
Indivisual Settings	Off 🔹	
Number of Lines	4B(256K) 👻	
LAN Bandwidth	1024Kbps 👻	
	Save Cancel	
	<u>ц , , , , , , , , , , , , , , , , , , ,</u>	

Registering the Remote Parties in the Multipoint Connection List

You can register the multipoint connection list that includes all remote parties for a multipoint videoconference in the Phone Book. It allows you to dial all the parties simultaneously.

You can enter new remote parties to register the multipoint connection list, or add the parties registered in the Phone Book to the multipoint connection list.

To register a multipoint connection list in the Phone Book

The basic procedure for registration is the same as the registration of a remote party for a point-to-point videoconference. For details on the procedure, see "Registering a New Remote Party" on page 77.

1 Select "New Entry" in the Phone Book menu to display the List Edit menu, then enter the name of the multipoint connection list in the Index text box.

IPELA				
List Edit				
Line I/F				
LAN Bandwidth 1024 Kbps				
	Save Cancel			

2 Select "Multipoint" under "Line I/F".

IPELA		
List Edit		
· ·	IP	
Index		
Line I/F	·	
IP	1	
ISDN] [
ISDN (Telephone)] [
- Multipoint		
SIP	Save Cancel	
	•	

3 Select the line interface icon or a still image to be displayed in the Phone Book.

The icon is shown as " 👫 ".

4 Set up the line interface of the remote parties. **When PCSA-M3G70 H.323 MCU software (for LAN) is installed** Select "IP", and enter the IP addresses of all the parties for the multipoint videoconference in text boxes A to E.

When PCSA-M0G70 H.320 MCU software (for ISDN) is installed

Select "ISDN" or "TEL", and enter the line numbers or phone numbers of all the parties for the multipoint videoconference in text boxes A to E.



When both PCSA-M3G70 H.323 MCU software (for LAN) and PCSA-M0G70 H.320 MCU software (for ISDN) are installed

Select Multipoint and a drop-down list is displayed to the right of text boxes A to E. **For LAN:** Select "IP" from the drop-down list, and enter the IP address.

For ISDN: Select "ISDN" from the drop-down list, and enter the line number. **For ISDN (Telephone):** Select "TEL" from the drop-down list, and enter the telephone number.

For SIP: Select "SIP" from the drop-down list, and enter the address. Enter all the parties for the multipoint videoconference.

IPELA				
List Edit				
	A IP			
	B P			
Index	C []			
Line I/F	D IP			
Multipoint LAN Bandwidth	E []			
1024 Kbps 🔻	30B(1920k) -			
Save Cancel				

For details on the setups, see step 5 in "Registering a New Remote Party" on page 77.

5 Select "Save", then press the PUSH ENTER button. The registration of the multipoint connection list is completed.

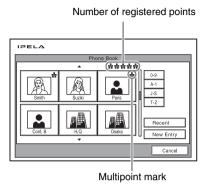
To specify a remote party registered in the Phone Book to the multipoint connection list

- 1 Use the ♠, ♥, ♠ or ➡ button on the Remote Commander to select the name you want to register in the multipoint connection list.
- 2 Press the ★ button on the Remote Commander, or press the PUSH ENTER button to open the submenu, press the ↑ or ♦ button to select " ♣ On", then press the PUSH ENTER button.

IPELA		
Phone Book		
A	 ★☆☆☆☆_ 	
Dial Ma	A-1 Paris 1 0-9 A-1 J-S T-Z	
Copy Delete Cancel Conf, B H,(Recent	
	▼ B New Linky	
	Cancel	

The 🛃 (multipoint) mark is added to the upper right of the selected name in the list and the remote party is registered in the multipoint connection list.

You can add the 🐕 marks for up to five parties using the same procedure as above. The 🎇 marks are displayed at the upper right corner of the Phone Book, showing how many points you registered for a multipoint connection.



Note

To delete the $\frac{1}{2}$ mark from the name list, press the $\frac{1}{2}$ button again, or press the PUSH ENTER button to open the submenu, press the $\frac{1}{2}$ or $\frac{1}{2}$ button to select " $\frac{1}{2}$ Off", then press the PUSH ENTER button.

- **3** Select one of the remote parties with the ***** mark, then press the PUSH ENTER button.
- 4 Press the ▲ or ♦ button to select "♣ Edit" from the submenu, then press the PUSH ENTER button.

The List Edit menu appears. All the IP addresses or telephone numbers of the parties marked with $\frac{1}{2}$ are entered in the number text boxes.

IPELA			
List Edit			
	A 192,168,159,1	IP	
	B 192.168.159.2	IP	
Index	C 192.168.159.3	IP	
Line I/F	D 192.168.159.4	IP	
Multipoint -	E 192.168.159.5	IP	
LAN Bandwidth 1024 Kbps -	30B(1920k) 👻]	
Save Cancel			

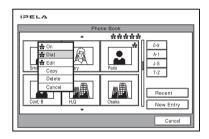
- **5** Enter the name of the multipoint connection list in the Index text box.
- **6** Select "Save", then press the PUSH ENTER button. The registration of the multipoint connection list is completed.

Starting a Multipoint Videoconference

Calling Remote Parties

To call remote parties registered in the multipoint connection lists

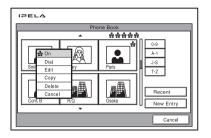
- 1 Select the multipoint connection list registered in the Phone Book. The multipoint connection lists are marked with "F IP".
- 2 Press the CONNECT/DISCONNECT (≤ / ≤) button on the Remote Commander, or press the PUSH ENTER button to display the submenu, press the ↑ or ♦ button to select " → Dial", then press the PUSH ENTER button.



The system begins dialing the numbers of the remote parties registered in the multipoint connection list. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks. When the system connects to all the remote points, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights.

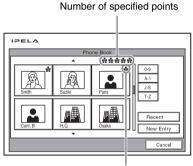
To call remote parties by selecting from the Phone Book

- **1** Select a remote party to which you want to connect for a multipoint videoconference from the Phone Book.
- 2 Press the ★ button on the Remote Commander, or press the PUSH ENTER button to open the submenu, press the ♠ or ♥ button to select "♣ On", then press the PUSH ENTER button.



The 🚼 (multipoint) mark is added to the upper left of the selected name in the Phone Book list and the remote party is specified to the party for multipoint connection.

You can add the 🐕 marks for up to five parties using the same procedure as above. The 🎇 marks added are displayed at the upper right corner of the Phone Book menu.



Multipoint mark

Note

To delete the $\frac{1}{2}$ mark from the name list, press the $\frac{1}{2}$ button again, or press the PUSH ENTER button to open the submenu, press the $\frac{1}{2}$ or $\frac{1}{2}$ button to select " $\frac{1}{2}$ Off", then press the PUSH ENTER button.

- **3** Select one of the remote parties with the 🚼 mark.
- 4 Press the CONNECT/DISCONNECT (≤ / ≈) button on the Remote Commander, or press the PUSH ENTER button to open the submenu, press the ↑ or ↓ button to select " Dial", then press the PUSH ENTER button.



The system begins dialing the number of the remote party with the 🐕 marks. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks.

When the system connects to all the parties, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights.

To call remote parties not registered in the Phone Book

Basic operations are the same as those for starting a point-to-point conference. For details, see "To call a remote party not registered in the Phone Book" on page 96.

- Select "Detail Dial" in the launcher menu to open the Detail Dial menu.
- **2** Select the multipoint connection under "Line I/F".

IPELA	
Detail Dial	
	Line I/F
IP	IP
	ISDN
	ISDN(2B)
	ISDN (Telephone)
	Multipoint
	SIP
Dial	Save Cancel

3 Set up the line interface of the remote parties.

When PCSA-M3G70 H.323 MCU software (for LAN) is installed Select "IP", and enter the IP addresses of all the parties for the multipoint videoconference in text boxes A to E.

When PCSA-M0G70 H.320 MCU software (for ISDN) is installed

Select "ISDN" or "TEL", and enter the line numbers or phone numbers of all the parties for the multipoint videoconference in text boxes A to E.

When both PCSA-M3G70 H.323 MCU software (for LAN) and PCSA-M0G70 H.320 MCU software (for ISDN) are installed

Select Multipoint and a drop-down list is displayed to the right of text boxes A to E.

For LAN: Select "IP" from the drop-down list, and enter the IP address. **For ISDN:** Select "ISDN" from the drop-down list, and enter the line number. **For ISDN (Telephone):** Select "TEL" from the drop-down list, and enter the telephone number.

For SIP: Select "SIP" from the drop-down list, and enter the address. Enter all the parties for the multipoint videoconference.

12	IPELA				
		Detail Dial			
	A	IP	Line I/F Multipoint -		
	в	IP	LAN Bandwidth		
	c	IP	1024kbps Number of Lines		
	D	IP	30B(1920k) 🔻		
	E	IP			
		Dial	Save Cancel		

For details on the setups, see step 3 in "To call a remote party not registered in the Phone Book" on page 96.

4 Select "Dial", and press the PUSH ENTER button on the Remote Commander. You can also press the CONNECT/DISCONNECT (≤ / ≤) button on the Remote Commander.

The system begins dialing the numbers selected in step 3. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks.

When the system connects to all the remote parties, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights.

To call additional remote parties

After communication begins with the first party, press the CONNECT/ DISCONNECT (\leq / \leq) button on the Remote Controller to open the menu.

Disconnect	Phone Book
	4 +Dial
	History
	Cancel

Perform one of the procedures described in "Calling a Remote Party" on page 95.



If some points are not connected

The following dialog appears. Select the desired item.

Some Positi	Some Positions were not connected.					
Status Cause Code	▲ □	В	C D	D D XX	E D YY	
Start Meeting	1					
Disconnect Al				Re	edial	

Start Meeting: Starts a conference with remote parties connected. **Disconnect All:** Cancels all the connections and restores the launcher menu. **Redial:** Redials the numbers of the points that you failed to connect.

Receiving a Call from a Remote Party

Operations are the same as those for a point-to-point conference.

For details, see "Receiving a Call from a Remote Party" on page 104.

Using the Display Control

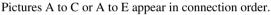
During a multipoint videoconference with the MCU software installed in the communication Terminal you can control the following operations.

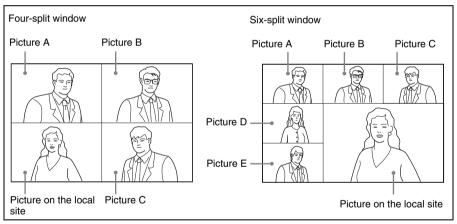
What is "Broadcast Mode"?

You can use the "Split", "Split (Fixed)", "Voice Activate" and "Broadcast" modes.

Split mode

This mode allows display of the pictures from the connected remote terminals and the picture of the local terminal by splitting the monitor screen. The display is split into six, regardless of the number of terminals. You can also use "Automatic" to split the screen into four or six depending on the number of terminals. When there are two or three terminals, the display is automatically split into four. When there are four or five terminals, the display is automatically split into six.





Notes

- When the six-split window is displayed, the system detects the terminal including the loudest sound among all the terminals and displays the picture of that terminal in the lower right window. The picture on the local site is then displayed in the window where the picture of the detected terminal was displayed.
- If you switch the broadcast mode from Split mode to Voice Activate mode in which a picture of a specified terminal is shown in full screen during communication, the location of Pictures A to E will be changed when the Split mode is restored.
- When there is one terminal, the display is switched to Full Screen regardless of the display setting.
- When the six-split window is displayed, the picture on the local site is always displayed in the lower right window.

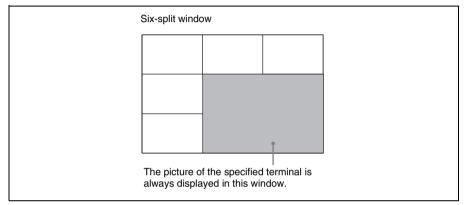


• When your system is in the Split or Split (Fixed) mode, you cannot control the camera on any connected remote terminals.

Split (Fixed) mode

The pictures from the connected remote terminals and the picture of the local terminal are displayed by splitting the monitor screen as the same manner as those in the split mode.

You can specify a picture among the split windows to fix it in the lower right window for the six-split mode. Pictures other than the specified one will be displayed in the split windows in order of connecting.



Voice Activate mode

Detects the terminal with the speaker with the loudest voice among the connected terminals, and displays the picture of that terminal in full screen on all the sites. The "V.A" indicator appears when the Voice Activate mode is activated. The final indicator with alphabet showing the terminal of the displayed picture also appears. The Figure indicator is displayed while the local picture is broadcast.

Broadcast mode

You can specify the terminal to display the picture of that terminal in full screen on all the sites. The $\boxed{120}$ indicator with alphabet showing the terminal of the displayed picture also appears. The $\boxed{120}$ indicator is displayed while the local picture is broadcast.

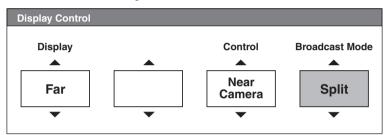
Broadcast Modes and Displayed Windows

The chart described below shows the window displayed on the monitor screen when you select one of the Broadcast Modes. According to the connection status of your system, some modes cannot be selected. In the connection status with no window shown in the chart, the corresponding mode is not available.

Conne	ection	status		Non-cascade connection	Cascade connection
				LAN connection (See page 204.) ISDN connection (See page 206.) LAN & ISDN connection (See page 208)	LAN cascade connection (See page 205.) LAN cascade&ISDN connection (See page 209.)
Conne	ecting	points (max		6	10
	u	Automatic	2 or 3 terminals connected	Four-split window	_
	Before communication		4 or 5 terminals connected	Six-split window	_
Broadcast Mode	Befc	Six-screen	mosaic	Six-screen mosaic	_
Broa		Split (Fixed)	2 or 3 terminals connected	-	-
	unication		4 or 5 terminals connected	Six-split window	_
	During communication	Voice Activ	ate	Full screen	Full screen
		Broadcast		Full screen	-

At the beginning of the conference, the mode set for "Broadcast Mode" on page 4 of the Communication Setup menu is applied. You can change the mode during communication.

- **1** Press the FAR/NEAR button on the Remote Commander. The Display Control menu appears.
- 2 Use the ♠, ♥, ♦ or ♦ button on the Remote Commander to select "Broadcast Mode", then press the PUSH ENTER button.



Split: Selects the Split mode.

- **Split (A Fixed):** Specifies the picture of the terminal connected first to fix in the Split (Fixed) mode.
- **Split (B Fixed):** Specifies the picture of the terminal connected second to fix in the Split (Fixed) mode.
- **Split (C Fixed):** Specifies the picture of the terminal connected third to fix in the Split (Fixed) mode.
- **Split (D Fixed):** Specifies the picture of the terminal connected fourth to fix in the Split (Fixed) mode.
- **Split (E Fixed):** Specifies the picture of the terminal connected fifth to fix in the Split (Fixed) mode.

Split (Near End Fixed): Fixes the local picture in the Split (Fixed) mode. **Voice Activate:** Selects the Voice Activate mode.

- Self Broadcast: Broadcasts the near end (local) party in the Broadcast mode.
- A Broadcast: Broadcasts the picture of the terminal connected first in the Broadcast mode.
- **B Broadcast:** Broadcasts the picture of the terminal connected second in the Broadcast mode.
- **C Broadcast:** Broadcasts the picture of the terminal connected third in the Broadcast mode.
- **D Broadcast:** Broadcasts the picture of the terminal connected fourth in the Broadcast mode.
- **E Broadcast:** Broadcasts the picture of the terminal connected fifth in the Broadcast mode.

- A Dual Broadcast: Broadcasts in dual video the picture of the terminal connected first in the broadcast mode.
- **B Dual Broadcast:** Broadcasts in dual video the picture of the terminal connected second in the broadcast mode.
- **C Dual Broadcast:** Broadcasts in dual video the picture of the terminal connected third in the broadcast mode.
- **D** Dual Broadcast: Broadcasts in dual video the picture of the terminal connected fourth in the broadcast mode.
- **E Dual Broadcast:** Broadcasts in dual video the picture of the terminal connected fifth in the broadcast mode.

Stop Broadcast: Stops broadcasting in the Broadcast Mode.

To display the local picture in the Voice Activate mode

You can display the local picture only on your monitor screen while the broadcast mode remains in Voice Activate mode.

- **1** Press the FAR/NEAR button on the Remote Commander. The Display Control menu appears.
- 2 Use the ♠, ♥, ♦ or ♦ button to select "Near" under "Display", then press the PUSH ENTER button.

The local picture appears on your monitor screen.

To restore the Voice Activate mode

Press the FAR/NEAR button on the Remote Commander again, and select "Far" under "Display".

Receiving the Broadcast Requested From Any Other Terminal

When you receive "Self Broadcast" command from one of the terminals connected, the picture of that terminal is broadcast in full screen. When you receive "Stop Broadcat" command from one of the terminals connected, the system returns to the previous mode.

Notes

- If you have received "Self Broadcast" command from another terminal, the operation above will not be carried out.
- When you use a cascade connection, the Video Communication System supports the Voice Activate mode only.



Ending the Multipoint Videoconference

 Press the CONNECT/DISCONNECT (≤ / ≤) button on the Remote Commander.

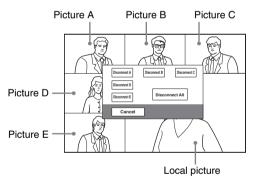
The following menu appears.

Disconnect	Phone Book
	4 +Dial
	History
	Cancel

2 Use the ↑, ↓, ↓ or → button to select "Disconnect", then press the PUSH ENTER button.

The screen changes to the split window screen and the following menu appears. The location of the pictures in the split windows A to E (or A to C) is restored to that when the terminals were connected.

You can display the terminal names in this window if you set "Display Terminal Name" to "On" in the menu window of the General Setup menu.



3 Use the ♠, ♣, ♠ or ➡ button to select the terminal to be disconnected, then press the PUSH ENTER button.

Disconnect A: Disconnects the terminal connected first.

Disconnect B: Disconnects the terminal connected second.

Disconnect C: Disconnects the terminal connected third.

Disconnect D: Disconnects the terminal connected fourth.

Disconnect E: Disconnects the terminal connected fifth.

Disconnect All: Disconnects all the terminals.

The selected terminal is disconnected.

You can disconnect all the terminals by pressing the CONNECT/ DISCONNECT (\leq / \simeq) button again.

To cancel the disconnection

Select "Cancel" in step 3, then press the PUSH ENTER button.

Notes on Secondary Terminals

If there is a terminal that is not adequate for the settings set by this system, that terminal is called the secondary terminal. Communication capabilities between the secondary terminal and this system are

- shown below.Sending/receiving audio
- Receiving video from the secondary terminal
- Disables transmission of video to the secondary terminal

For details on the secondary terminal, see the glossary on page 312.

When a normal phone is connected

The audio mode of the other terminals is not affected if a normal phone is connected or disconnected any time.

When terminals with "Far End Camera Control" set to "On" and "Off" are mixed

As the bit rate of video signals differs depending on the setting of "Far End Camera Control", the picture is not displayed on some terminals.

When a 56K network is mixed among the terminals if the conference is held via 64K network

The conference automatically changes to that via 56 K network. Terminals that cannot change to that network are regarded as secondary terminals, and the transmission of video is not available.

When a terminal with different audio mode is connected and its video bit rate is different

The conference is conducted in the video mode according to the terminal with the lowest video bit rate. A terminal that cannot fit this rate is regarded as a secondary terminal, and the transmission of video is not available.

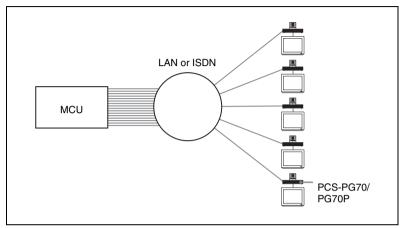
When a terminal whose video mode is QCIF standard only

The system does not send video to the QCIF terminal.



Connecting the External MCU

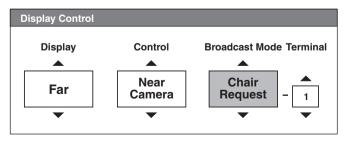
Connecting the external MCU (Multipoint Control Unit) enables conduct of a multipoint videoconference unless the MCU software is installed into the Communication Terminal.



Activating the Chair Control

If the MCU for the ISDN connection is equipped with the chair control function, the chair control can be activated for up to 99 terminals connected. The chair control mode allows you to specify any terminal to display on the monitor screen, to broadcast the specified picture to all the terminals, or to broadcast the local picture to all the terminals.

- **1** Press the FAR/NEAR button on the Remote Commander. The Display Control menu opens.
- 2 Use the ♠, ♣, ♠ or ➡ button to select "Chair Request" under "Broadcast Mode".



3 Press the PUSH ENTER button on the Remote Commander. The chair control is activated and you can control up to 99 terminals. The chair control feature is canceled if you set "Broadcast Mode" to "Chair Release".

Note

When you operate incorrectly, the message "MCU operation rejected." will appear on the monitor screen.

Displaying the picture of the selected terminal

- **1** Open the Display Control menu.
- **2** Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Receive" under "Broadcast Mode".
- 3 Use the ↑, ↓, ↓ or → button to select the number of the terminal you want to view in the box under "Terminal", then press the PUSH ENTER button. The picture of the selected terminal is displayed on the local screen.

Notes

- When no terminal is selected, the picture of the smallest terminal number will be displayed.
- The terminal number is assigned to a terminal based on the information on each terminal obtained from the MCU.

To broadcast the selected picture to all terminals

- **1** Open the Display Control menu.
- **2** Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Broadcast" under "Broadcast Mode".
- 3 Use the ↑, ↓, ↓ or → button to select the number of the terminal you want to broadcast in the box under "Terminal", then press the PUSH ENTER button.

The picture of the selected terminal is displayed on the local screen and is broadcast to all terminals.

To broadcast a local picture to all terminals

- **1** Open the Display Control menu.
- **2** Use the \blacklozenge , \blacklozenge , \blacklozenge or \blacklozenge button to select "Broadcast" under "Broadcast Mode".
- Use the ↑, ↓, ← or → button to display "0" in the box under "Terminal", then press the PUSH ENTER button.
 The local picture is broadcast to all terminals. The 2 indicator is shown on the monitor screen.

Exiting the chair control

- **1** Open the Display Control menu.
- 2 Use the ♠, ♦, ♦ or > button to select "Chair Release" under "Broadcast Mode".

The chair control is not available for the local party.

Multipoint Attributes

Number	Attribute	Value (H.320 MCU)	Value (H.323 MCU)
1	Maximum number of terminals that can be connected to a single MCU	5 (6 when including the local terminal)	5 (6 when including the local terminal)
2	Maximum number of concurrent (independent) conferences that can be supported in a single MCU	1	1
3	Maximum number of ports that can be connected to other MCUs	0	1
4.1	Network interfaces at each port	BRI, PRI (T1/E1)	LAN
4.2	Restricted network capability	Restrict_Required	-
5	Transmission rates available at each port	1B, 2B, 4B, 6B (BRI) 1B, 2B, 4B, 6B, 8B, 12B (PRI (T1/E1))	Total rate of all points Max. 4 Mbps
6	Audio Processor	Equipped	Equipped
6.1	mixed/switched noise/echo suppression on "silent" ports	Mixed No	Mixed No
6.2	audio algorithm at each port	G.711, G.728, G.722, MPEG4 ACC	G.711, G.728, G.722, MPEG4 ACC
7	Video Processor (motion pictures)	Equipped	Equipped
7.1	switched/mixed	Voice activated/four- split/six-split/user control	Voice activated/four- split/six-split/user control
7.2	video algorithm at each port	H.261, H.263, H.264	H.261, H.263, H.264
8	Data Processor	Equipped	Equipped
8.1	data broadcast facility, LSD data broadcast facility, HSD	Equipped No	-
8.2	MLP Processor	Equipped	-
9	Encryption	No support	Support



Number	Attribute	Value (H.320 MCU)	Value (H.323 MCU)
10	Method of choosing Selected Communication Mode - SCM	Custom: Number of lines (1B/ 2B/4B/6B (up to 30B when the PCSA-PRI is used)) Audio algorithm (G.711, G.728, G.722, MPEG4 ACC) Auto: Video frame rate (7.5/ 10/15/30fps) Video encoding mode (CIF/QCIF) Fixed or switched automatically: Video algorithm (H.261 fixed, H.261, H.263 or H.264 switched automatically) Restrict (56K fixed/ Auto)	Custom: LAN bandwidth (Total rate of all points, max. 4 Mbps) Audio algorithm (G.711, G.728, G.722, MPEG4 ACC) Auto: Video frame rate (7.5/ 10/15/30fps) Video encoding mode (CIF/QCIF) Fixed or switched automatically: Video algorithm (H.261 fixed, H.261, H.263 or H.264 switched automatically)
11	Capability of secondary terminals	Capable of audio sending/receiving and video receiving only. Capable of audio sending/receiving only via a normal phone.	Capable of audio sending/receiving and video receiving only. Capable of audio sending/receiving only via a normal phone.
12	Call setup provision(s)	No call/receive reservation	No call/receive reservation
13	Control capabilities	_	_
13.1	Numbering of terminals Simple chair control using BAS	No No	Equipped No
13.2	MLP facilities [refer to ITU-T T series]	No	No
13.3	H.224 (simplex data)	Equipped	Equipped
14	Cascading	No	Equipped
14.1	Fixed rates ("simple")	No	No
14.2	Master/Slave	No	Equipped
15	Terminal identification	No	Equipped
16	MBE capability Register necessary information such as the telephone number and index number.	No	-

Chapter 9: Videoconference Using SIP

This chapter describes how to conduct a videoconference using SIP (Session Initiation Protocol). SIP is a protocol to start communication via a network standardized by IETP (Internet Engineering Task Force).

For conducting a videoconference with an IP phone using SIP, installation of the optional PCSA-SP1 SIP software in the Communication Terminal and connection via a SIP server are required.

Installation of the optional MCU software allows multipoint videoconference with up to 5 IP phones.

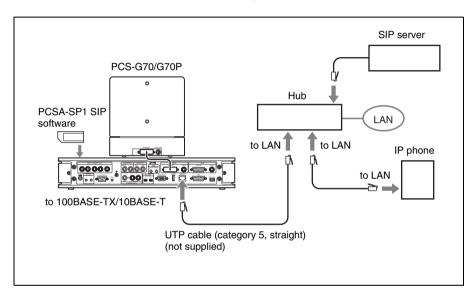
Restrictions on the use of the SIP software

Cascade connection using SIP is not supported.

Connection Examples for a Videoconference Using SIP

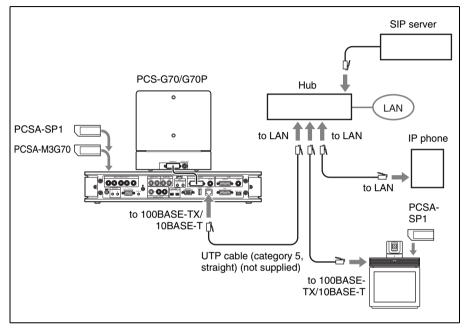
Connection Example for Point-to-Point Videoconference

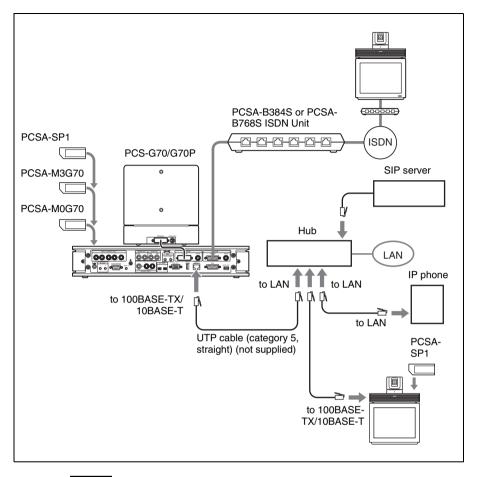
Connect the Communication Terminal in which the optional PCSA-SP1 SIP software has been installed to an IP phone and a SIP server via a hub.



Connection Examples for Multipoint Videoconference

Installation of the PCSA-SP1 SIP software and PCSA-M3G70 H.323 MCU software in the Communication Terminal allows you to conduct a multipoint videoconference among up to six points. By adding the PCSA-M0G70 H.320 MCU software, a multipoint videoconference with SIP and ISDN connections mixed is also enabled.





Notes

- Cascade connection is not possible even if SIP software is installed in two or more Communication Terminals.
- With SIP connection, the video mode cannot be automatically changed during a conference. If a terminal with a different video mode from that of the previously connected terminal participates in the conference, that terminal is regarded as a secondary terminal and cannot receive video signals.

Preparing for a Videoconference Using SIP

Installing the SIP Software

Notes on installing the SIP software

- You cannot install the software if the write-protect tab on the "Memory Stick" in which the SIP software is stored is set to "LOCK".
- Once the SIP software is installed in the Communication Terminal, the software will not be used again.
- You cannot install the SIP software which is copied to another "Memory Stick" with a computer, etc.
- 1 Set the power switch on the right side of the Communication Terminal to the off position (O).
- 2 Insert the "Memory Stick" containing the PCSA-SP1 SIP software into the Memory Stick slot.

Insert the "Memory Stick" in the direction of the arrow with the mark facing upward.



3 Set the power switch on the right side of the Communication Terminal to the on position (**l**).

The SIP software is installed in the Communication Terminal.

To check if the installation of the SIP software is completed

"SIP" is shown in "Software Option" of the Information menu.

Information				
Host Version	Ver X.XX			
ISDN UNIT Version	Ver X.XX			
DSB Version	Ver X.XX			
DSP Version	Ver X.XX			
Software Option	SIP			
Option I/F	DSB, ISDN UNIT			
Host Name	PCS-G70			
IP Address	0. 0. 0. 0			
MAC Address	00-00-00-00-00-00			
Serial Number	12345 End			

For details on the Information menu, see "Information Menu" on page 71.

Setting for SIP

You can set items regarding a videoconference using SIP in the SIP Setup menu for the administrator.

For details on the setting, see "SIP Setup Menu" on page 75.

Set "SIP Server Mode" to "On" on page 1 of the SIP Setup menu.

s	IP Setup
Page: 1/7 ►	
SIP Server Mode	Off 👻
Transport Protocol	TCP 🔻
Port Number	
SIP Domain	
	Save Cance

2 Select the transport protocol (TCP or UDP) to be used for SIP connection and enter the port number and SIP domain.

3 Enter "Registered User Name" and "Password" on page 2 of the SIP Setup menu.

SIP Set	up	
4Page: 2/7 ▶	SIP1	
Registered User Name Password	SIP1	
-	Save	Cancel

Note

On the Communication Terminal with the PCSA-M3G70 H.323 MCU software installed, enter the user names and passwords for all the terminals to be connected for a multipoint videoconference. Up to 5 terminals can be registered.

4 Enter the address and port number for the SIP server on page 4 of the SIP Setup menu.

SIP Setup				
Primary	÷			
✓ Page: 4/7 ▶				
Proxy Server Address	XXX.com			
Proxy Port				
Registrar Server Address	XXX.com			
Registra Port				
	Save Cancel			

Note

Up to four SIP servers can be set up. To set up multiple SIP servers, enter the addresses and port numbers for all the SIP servers on page 4 to page 7.

Registering Remote Parties in the Phone Book

The basic procedure for registration is the same as the registration of a remote party for a point-to-point videoconference. For details on the procedure, see steps 1 to 3 of "Registering a New Remote Party" on page 77

1 Select "New Entry" in the Phone Book menu to display the List Edit menu, then enter the name of the remote party in the Index text box.

IPELA	
	List Edit
Index	
Line I/F IP LAN Bandwidth	l
1024 Kbps	Save Cancel

2 Select "SIP" under "Line I/F".

IPELA		
	List Edit	
· • •	IP	
Index		
Line I/F		
IP		
ISDN		
ISDN (Telephone)		
Multipoint		
SIP	Save Cancel	

- **3** Enter the IP address of the remote party in the IP text box.
- **4** Select the line interface icon (SIP) or a still image to be displayed in the Phone Book.
- **5** Select "Save", then press the PUSH ENTER button on the Remote Commander.

The registration in the Phone Book is completed.

Starting a Videoconference Using SIP

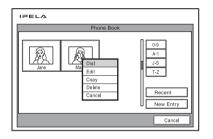
Calling Remote Parties

To call a remote party registered in the Phone Book

1 Select "Phone Book" in the launcher menu, then press the PUSH ENTER button.

The Phone Book menu appears.

2 Use the ♠, ♣, ♠ or ➡ button on the Remote Commander to select a remote party from the Phone Book, then press the PUSH ENTER button. The submenu appears.



3 Use the ▲ or ♦ button on the Remote Commander to select "Dial", then press the PUSH ENTER button, or press the CONNECT/DISCONNECT (
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The system begins dialing the party selected in step 2. "Dialing" appears on the monitor screen, and the ON LINE indicator (blue) on the Communication Terminal blinks.

When the System connects to the system on the remote site, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights.

To call a remote party not registered in the Phone Book

The basic procedure is the same as that for a normal point-to-point videoconference.

For details of the procedure, see "To call a remote party not registered in the Phone Book" on page 94.

- **1** Select "Detail Dial" in the launcher menu to display the Dial menu.
- **2** Select "SIP" under "Line I/F".

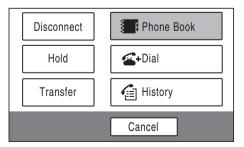
IPELA		
Detai Dia		
Line I/F		
IP	IP 💌	
	ISDN	
	ISDN(2B)	
	ISDN (Telephone)	
	Multipoint	
	SIP	
Dial Sa	ave Cancel	

- **3** Enter the address of a remote party in the IP text box. The format of the address may be the following:
 - 4000 (number assigned by the SIP server)
 - 4000@sip.com
 - 192.168.1.1 (when not using an IP address or SIP server)

When the System connects to the system on the remote site, the message "Meeting starts!" appears on the screen, and the ON LINE indicator stops blinking and lights.

To dial the remote parties for a multipoint videoconference one by one

After staring communication with the remote party selected first, press the CONNECT/DISCONNECT (\leq / \approx) button on the Remote Commander to open the menu.



Select "Phone Book" or "Dial" depending on the registration status of the next remote party.

Select "Phone Book", then perform steps 2 and 3 of the procedure shown in "To call a remote party registered in the Phone Book" on page 231, or select

"Dial", then perform steps 2 to 4 of the procedure in "To call a remote party not registered in the Phone Book" on page 231. Repeat this procedure for each remote party.

To dial the remote parties for a multipoint videoconference simultaneously

You can register a "multipoint connection list for SIP" that includes all remote parties for a multipoint videoconference using SIP in the Phone Book. Set up the list following "Registering the Remote Parties in the Multipoint Connection List" on page 203 of Chapter 8. Register each remote party as follows:

- ① Select "Multipoint" under "Line I/F".
- ② Select the line interface icon "* " (or a preferred still image).
- ③ Select "SIP" from the drop-down list on the right of the text box.
- ④ Enter the address of the remote party for SIP connection.

IPELA		
	List Edit	
	A 4000	SIP 🔻
	B 4001	SIP 🔻
Index	C 4002	SIP 🔻
Line I/F	D	SIP 🔻
Multipoint LAN Bandwidth	E	SIP 🔻
1024 Kbps 🔻	30B(1920K)] [
•	Save	Cance

When you start a multipoint videoconference, select the "multipoint connection list for SIP" and press the CONNECT/DISCONNECT (\leq / \approx) button on the Remote Commander. The system then dials all the remote parties registered in the list.

Receiving a Call from a Remote Party

Operations are the same as those for a point-to-point conference.

For details, see "Receiving a Call from a Remote Party" on page 102.

Putting a Call on Hold

You can put a call on hold during a point-to-point or multipoint videoconference when connected by SIP.

To put a call on hold during a point-to-point videoconference

 Press the CONNECT/DISCONNECT (≤ / ≤) button on the Remote Commander during communication.

The following menu appears.

Disconnect	Phone Book	
Hold	🕢 Dial	
Transfer	History	
	Cancel	

2 Select "Hold" using the ♠, ♥, ♠ or ➡ button and the PUSH ENTER button on the Remote Commander.

The "On Hold (SIP)" display appears on the monitor screens of the local and remote sites.

Notes

- Dialing and answering a call are not available during a point-to-point videoconference. However, you can receive a call if you have the MCU software installed in the local system.
- If a call in a point-to-point videoconference is held during transmission or reception of the data via the Data Solution Box or the White Board, the transmission or reception is cancelled and will not be restored after the hold mode is cancelled.

To cancel the hold mode of a point-to-point videoconference

You can cancel the hold mode only when you have operated the system to enter the hold mode.

Press the CONNECT/DISCONNECT (\leq / \approx) button on the Remote Commander while in the hold mode, select "Resume Call" from the menu and press the PUSH ENTER button. The hold mode is cancelled and you can continue the conference.

Disconnect	
Resume Call	
	Cancel

Note

"Resume Call" is not available when the remote party has operated the system to enter the hold mode during a point-to-point videoconference. Only "Disconnect" is available.

To put a call on hold during a multipoint videoconference

The operations to enter/cancel the hold mode are the same as those for a point-to-point videoconference.

See "To put a call on hold during a point-to-point videoconference" and "To cancel the hold mode of a point-to-point videoconference" above.

The following differences regarding the operation and display are observed during a multipoint videoconference:

• When the terminal in use is the main terminal and a call is put on hold, all the connected terminals enter the hold mode simultaneously and the "On Hold" display appears on the monitor window of each site. However, if a multipoint videoconference is conducted and there are connected terminals with line types other than SIP, you cannot put a call on hold from the main terminal.

When a connected terminal puts a call on hold, the "On Hold" display appears on their screen only, and calls can no longer be put on hold from the main terminal. In such a case, you can still receive calls from other terminals. When all connected terminals put calls on hold, only the picture of this site is displayed on the monitor screen.

- When the terminal in use is a connected terminal and a call is put on hold, the "On Hold" display appears on screen. Even if another connected terminal puts a call on hold, you can still put a call on hold from this terminal. If the main terminal puts a call on hold, all connected terminals enter hold mode. In any such case, you cannot dial or receive calls from any terminal when in hold mode.
- When a multipoint videoconference is conducted in the Voice Activate mode with the MCU software installed in the local system, and if a connected terminal being broadcast puts a call on hold, only that terminal enters the hold mode and the local picture is shown on the other terminals. If a connected terminal that is not being broadcast puts a call on hold, the broadcasting continues.

For details on the Split mode and the Voice Activate mode, see "What is "Broadcast Mode"?" on page 221 of Chapter 8.

- Only "Disconnect" and "Resume Call" are available in the hold mode.
- Only "Disconnect" is available in the hold mode.
- When all the receiving terminals enter the hold mode in a multipoint videoconference during transmission or reception of the data via the Data Solution Box or the White Board, the transmission or reception is cancelled and will not be restored after the hold mode is cancelled. If a connected terminal puts a call on hold but communication with other terminal(s) remains established, however, transmission or reception via the Data Solution Box or the White Board is not cancelled.

Transferring a Call

You can transfer a call to another remote party during a point-to-point videoconference when connected by SIP.

Note

Call transfer is not possible during a multipoint videoconference.

 Press the CONNECT/DISCONNECT (≤ / ≤) button on the Remote Commander during communication.

The following menu appears.

Disconnect	Phone Book	
Hold	🕢 Dial	
Transfer	History	
	Cancel	

2 Select "Transfer" using the ♠, ♦, ♦ or ♦ button and the PUSH ENTER button on the Remote Commander.

The remote terminal in communication enters the hold mode. The hold mode continues until the call transfer is completed.

Notes

- "Resume Call" is not available on the remote terminal in the hold mode. Only "Disconnect" is available on that terminal.
- If you operate the system to transfer a call during transmission or reception of the data via the Data Solution Box or the White Board, the transmission or reception is cancelled and will not be restored after call transfer is completed.

The following menu appears on the monitor screen of the local system.

	Phone Book	
*	Dial	
	History	
		Cancel

- 3 Select "Phone Book" or "Dial" using the ♠, ♥, ♠ or ➡ button on the Remote Commander, according to the registration of the remote party to whom you want to transfer the call, then press the PUSH ENTER button.
- **4** Select the remote party from the Phone Book or by using the Dial menu, then select "Dial".

For details, see steps 2 and 3 in "To call a remote party registered in the Phone Book" (page 231) or steps 2 to 4 in "To call a remote party not registered in the Phone Book" (page 231).

Note

You can transfer a call to the remote parties with "Line I/F" set to "SIP" only.

When the system connects to the selected remote party, the picture of the remote site and the message "Call will be transferred upon disconnection" appear on the monitor screen.

5 When the remote party answers, inform that party that you are transferring a call, and then press the CONNECT/DISCONNECT (\leq / **\approx**) button on the Remote Commander.

The call is transferred and the launcher menu is restored on the monitor screen of the local system.

To cancel call transfer

Select "Cancel" from the menu and press the PUSH ENTER button on the Remote Commander.

Note

You can cancel call transfer only before the destination remote party answers. To cancel call transfer after the destination remote party has answered, ask the remote party to disconnect the line. You will then return to point-to-point videoconferencing.

To end a point-to-point videoconference

 Press the CONNECT/DISCONNECT (≤ / ≤) button on the Remote Commander.

The message "Disconnect?" appears on the monitor screen.

Press the ♦ or ♥ button on the Remote Commander to select "OK", then press the PUSH ENTER button, or press the CONNECT/DISCONNECT (
 (
 /
) button again.

To end a multipoint videoconference

Operations are the same as those in Chapter 8, "Ending the Multipoint Videoconference" on page 216.

Chapter 10: Web Control Function

This chapter describes the Web Control Functions used when operating the PCS-G70/G70P. The Web Control Function helps you control the PCS-G70/G70P, or change its setup configuration, using a Web browser installed on your PC, such as Internet Explorer. The following is a set of Operating Instructions for the Web Control Function.

Internet Explorer is a product of the Microsoft Corporation. Please use Version 5.0, or above (Version 6.0 recommended).

Open the Web page

Enter the IP address assigned to the PCS-G70/G70P in the address line of your browser. The format of an address is: http://XXX.XXX.XXX/

For instance, if the IP address is "192.47.100.117", enter "http:// 192.47.100.117/" in the address line.

Note

When a proxy server in an external network segment has been set, the Gateway address in the PCS-G70/G70P LAN setting must also be set. Or set your Web browser proxy setting to "No Proxy" for the PCS-G70/G70P.

Identify a user

Once you reach the Web page, the following window will be displayed asking you to identify yourself as the user.

Connect to 192.16	B.O.10 ?×
R	
PCS-G70 Web Control	
User name:	*
Password:	
	Remember my password
	OK Cancel

Enter one of the following user names (see below) into the "User Name" box and the corresponding password into the "Password" box, then click the [OK] button.

Each character of a password is shown as "*" on the screen. When the user name and password are correct, the "Dial/Disconnect" page will come up. If an incorrect user name or password is entered three times, an error message appears on the screen.

Notes on the user name and the password

- When you enter "user" in the "User Name" box and then its password (Remote Access Password) in the "Password" box, you can access and check the "Phone Book" and "Setup" pages.
- When you enter "super" in the "User Name" box and then its password (Phone Book Modification Password) in the "Password" box, you can access the "Phone Book" page, change the setting of the page, and register a new entry onto the page. And you can check the "Setup" page.
- When you enter "sonypcs" in the "User Name" box and then its password (Administrator Password) in the "Password" box, you can access the "Phone Book" page, change the setting of the page, and register a new entry onto the page. And you can check and modify the "Setup" page.
- When you enter "streaming" in the "User Name" box and then the password (Streaming Password) of the terminal transmitting via streaming broadcast in the "Password" box, you can receive and view the contents of the transmitted conference.
- If the corresponding password is not assigned, leave the "Password" box blank and click the [OK] button.
- Administrator Setup Password, Phone Book Modification Password, Remote Access Password, and Streaming Password settings are in the Administrator Setup menu.

Select a tool

By clicking a tool button on the top part of the page, you can jump to the corresponding tool page. A brief introduction of each tool is presented below.



[Controller]

Controls the PCS-G70/G70P using the on-screen controller, or controls using the on-screen Remote Commander in the same manner as you do with the PCS-RG70 Remote Commander.

[Dial/Disconnect]

Calls a remote party, or ends a meeting.

[Phone Book]

Displays the dial list. Connects from the dial list. Registers, confirms or edits the dial list.

For a private address book, the "Phone Book" button changes to the "Private Phone Book" button.



[Setup]

Confirms or modifies the setup.

Sends messages.

Resets the setup functions (only when "sonypcs" has been entered as the user name).

[Info]

Displays the connection status, line status, or other machine information. Displays the "Cause Code."

Displays the "Call Log" (only when "sonypcs" has been entered as the user name).

[Monitor]

Monitors a meeting being held with the PCS-G70/G70P over the Web.

Note

When Web Monitor is set to Off in the Administrator Setup menu, the "Monitor" page cannot be used.

[Streaming]

You can watch the live stream of a videoconference.

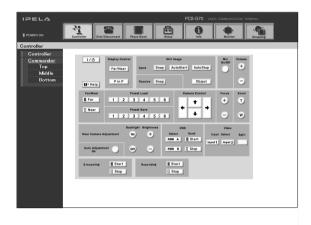
Notes

- QuickTime version 6.0 or above is needed to view a videoconference.
- When streaming is disabled in Streaming/Recording Setup, videoconferences cannot be watched. Also, if the video stream is turned off in Streaming/Recording Setup, only the audio stream of the conference is broadcast, and video cannot be watched.



How to use "Controller"

To control the PCS-G70/G70P from the on-screen controller



When you click the [Controller] button, the on-screen control panel appears. By clicking the buttons on this control panel, you can control the PCS-G70/ G70P, sending still images, operating the camera, registering preset camera settings, and so on.

For example, in order to preset and load a camera setting:

- ① Set the camera at the desired position using the Camera Control buttons.
- 2 Click one of the "Preset Save" 1 to 6 buttons on the image.
- The preset is done.
- ④ Click one of the "Preset Load" 1 to 6 buttons on the image to load it.

To control the PCS-G70/G70P from the on-screen Remote Commander



When you click <u>Commander</u> on the left part of the screen, the Remote Commander screen appears.

By clicking the various buttons on the Remote Commander image, you can control the unit in the same way you can when using a real Remote Commander (PCS-RG70), operating the camera, and dialing phone numbers.

How to use "Dial/Disconnect"

IPELA	PCS-G70 VIDEO COMPLENCATION TERMINAL
POWER ON	
Dial/Disconnect	
	A1:
	A2:
	B1:
	B2:
	C1:
	C2:
	Line I/F: IP 💌
	LAN Bandwidth: 1024 Kbps
	DIAL DISCONNECT CLEAR

By clicking the [Dial/Disconnect] button, you can jump to the "Dial/ Disconnect" page.

For Point-to-Point Videoconferences

To connect:

- ① Enter the telephone number(s) of a remote party into the box(es): A1(to C2) (When using a LAN, enter an IP address or a DNS name.)
- ② Set the communication attribute.
- ③ Click the [DIAL] button.
- (4) The message, "Now dialing..." appears.
- (5) After the connection is made, the message, "Connect OK." will appear, and the screen will return to the "Dial/Disconnect" page.

To disconnect:

- ① Click the [DISCONNECT] button.
- 2 The message, "Now disconnecting..." appears.
- ③ After the disconnection is completed, the message "Disconnect OK." will appear, and the screen will return to the "Dial/Disconnect" page.

To clear the dial number:

- ① Click the [CLEAR] button.
- ② The number(s) entered on this menu will be cleared and the screen will return to the "Dial/Disconnect" page.

To connect:

- ① Select "Multipoint" for "Line I/F".
- ② Enter the telephone number(s) of a remote party into the box(es) (When using a LAN, enter an IP address or a DNS name.)
- Set the communication attributes.
- (4) Click the [DIAL] button.
- (5) The message, "Now dialing..." appears.
- 6 After the connection is made, the message, "Connect OK." will appear, and the screen will return to the "Dial/Disconnect" page.

To disconnect (all remote parties at once):

- ① Click the [DISCONNECT] button.
- ② The message "Now disconnecting..." appears.
- ③ After the disconnection is complete, the message, "Disconnect OK." will appear, and the screen will return to the "Dial/Disconnect" page.

To disconnect (one party at a time):

- (1) Click the button, (Disconnect A to E) that corresponds to the party you wish to disconnect.
- ② The message "Now disconnecting..." appears.
- ③ After the disconnection is complete, the message, "Disconnect OK." will appear, and the screen will return to the "Dial/Disconnect" page.

To clear the dial number:

- ① Click the [CLEAR] button.
- ② The number(s) entered on this menu will be cleared and the screen will return to the "Dial/Disconnect" page.

How to use "Phone Book"

IPELA	PCS-G70 VIDEO COMMUNICATION TERMINAL
POWER ON	
Phone Book	
0 <u>-9</u> <u>A-C</u> D-F	New
A-C D-F G-1 J-L M-0 P-S T-V W-2	0-9
<u>P-S</u> T-V <u>W-Z</u>	A-C Dial Edit ABCDE
	D-F
	G-1
	J-L

By clicking the [Phone Book] button, you can jump to the "Phone Book list" page.

To connect:

- Click □<u>Dial</u> next to the index title that you are dialing. Then, the message, "Now dialing..." will appear.
- ② After the connection is made, you will see the message, "Connect OK.," and the screen will return to the list page.

"Phone Book-Edit" page

IPELA		F	CS-G70 VIDEO COMMUNICATI	ON TERMINAL
POWER ON	Controller Dial/Disconnect Phone B	ook Setup	1 Nonitor	Streaming
Phone Book > Edit				
0-9 A-C D-F G-I J-L M-0 P-S T-V W-2 Return	Index (A6006 A1:			
	Line I/F: LAN Bandwidth: SAVE DELETE	P v 1024 Kbps		

To edit the communication attribute (only when "super" or "sonypcs" has been entered as the user name):

- Click □<u>Edit...</u> next to the index title whose communication attribute you want to edit or modify on the list page. Then, the "Phone Book-Edit" page will appear.
- 2 Edit or modify the telephone numbers and attributes.
- ③ Click the [SAVE] button. After saving the changes, the screen will return to the list page.

To delete data from the Phone Book (only when "super" or "sonypcs" has been entered as the user name):

- (1) Click □<u>Edit...</u> next to the index title whose data you want to delete on the list page. Then, the "Phone Book-Edit" page will appear.
- (2) Click the [DELETE] button. After the deletion is complete, the list page will appear.

To return to the list page:

① Click <u>Return</u> on the left part of the page. The list page will appear.

"Phone Book-New" page

IPELA	PCS-G70 VIDEO COMMUNICATION TERMINAL
POWER ON	
Phone Book > Edit	
0-9 A-C	
D-F	Index
G–I	A1:
J-L	A2:
M-O P-S	B1:
T-V	B2:
W-Z	C1:
Return	C2:
	Line I/F: P
	LAN Bandwidth: 1024 Kbps
	SAVE

To register a new point (only when "super" or "sonypcs" has been entered as the user name):

(1) Click \Box <u>New</u> on the list page.

The "Phone Book-New" page will appear.

- ② Enter an index title into the Index box and telephone numbers into box(es) A1 (to C2).
- ③ Set the communication attributes.
- ④ Click the [SAVE] button. After the registration is complete, the new index will be added, and the screen will return to the list page.

To register a new multipoint list (only when "super" or "sonypcs" has been entered as the user name):

- (1) Click \Box <u>New</u> on the list page.
 - The "Phone Book-New" page will appear.
- ② Select "Multipoint" for "Line I/F".
- ③ Enter an index title into the Index box and telephone numbers into box(es) A1 (to C2).
- ④ Set the communication attributes.
- (5) Click the [SAVE] button. After saving is complete, the new list will be added, and the screen will return to the list page.

To return to the list page:

① Click <u>Return</u> on the left part of the page. The list page will appear.

How to use "Setup"

SONY		PCS-G70 VIDEO COMMUNICATION TERMINAL
POWER ON	Carizolier Dial/Disconnect Proce Back	10 Molifer
Setup	PCS-G70	
Dad Anner Communication Anton General LAN SEP SEP Streamine/foc Hesiste	Line VF: Bundhar Telaphone Mode: Mere Optimes Enable: Uner Hans Spot: Prefix A Prefix A Prefix A Prefix C Select LAN Prefix: LAN Prefix:	Dial Satup
		Disable 💌
	SAVE	

Click the [Setup] button, and you will jump to the "Dial Setup" page.

Click <u>Dial</u>, <u>Answer</u>, <u>Communication</u>, <u>Audio</u>, <u>Video</u>, <u>General</u>, <u>LAN</u>, <u>ISDN</u>, <u>SIP</u>, <u>Streaming/Recording</u> on the left part of the screen, according to what you are setting up.

To modify the attribute (only when "sonypcs" has been entered as the user name)

- ① Open the page whose attributes you want to modify.
- 2 Modify the attributes.
- (3) Click the [SAVE] button. After the modification is complete, the screen will return to the same page as you see in step 1.

Note

Sometimes the screen may not go back to the previous page after modifying the "LAN" page. This is not a malfunction.

To enable More Options

- ① Open the "Dial Setup" page.
- 2 Set "More Options Enable" to "On".
- ③ Click the [SAVE] button. After saving is complete, the screen will return to the "Dial Setup" page.

When "More Options Enable" is set to "On", the following settings are added to the "Dial/Disconnect" and "Phone Book" pages. For details on these settings, see "Dial Setup Menu" (page 50) and "Communication Setup Menu" (page 52).



Number of Lines: Select the number of ISDN channels Video Mode: Select the compression format of pictures Interlace Mode: Select whether to use interlace SIF format **4CIF Mode:** Select whether to use 4CIF format Video Frame: Select the number of video frames Audio Mode: Select the compression format of audio **Restrict:** Select the ISDN transmission rate at dialing **Prefix:** Select the prefix number Select LAN Prefix: Select whether to use the LAN prefix **Bonding:** Select bonding setting Far End Camera Control: Select whether to enable camera control T.120 Data: Select whether to enable T.120 data conferences H.239 Presentation: Select whether you can use presentation mode based on the H.239 standard H.239 Dual Video: Select whether you can use dual video based on the H.239 standard

To display the "Send Message" page

IPELA	PCS-G70 VIDEO COMMUNICATION TERMINAL
POWER ON	Centratur Build Extended
Setup	
Dial Answer	Send Message
Communication Audio Video	Message:
General LAN	Send
Streaming/Re Message Reset	

Click <u>Message</u> on the left side of the page. The "Send Message" page will appear.

Enter the message you want to send into the Message box and click the [Send] button to send the message to the PCS-PG70/PG70P. After the message is sent, "message send OK." will be displayed and the screen

will return to the "Send Message" page.

Note

Messages up to 200 ASCII characters long can be sent.

To reset the system

IPELA	PCS-G70 VIDEO COMMUNICATION TERMINAL
POWER ON	
Setup	
Dial Answer Communication Audio Video General LAN Streaming/Re	System Restart Erase Configuration Setup Erase Phone Book Erase Call Log
Message Reset	

Click <u>Reset</u> on the left part of the page. The "Reset" page will appear (only when "sonypcs" has been entered as the user name).

- ① Click on the desired item.
 - A dialog box will appear.
- 2 Click the [OK] button.

"System Restart"

Resets the PCS-PG70/PG70P system.

"Erase Configuration Setup"

Returns to the factory setting values.

"Erase Phone Book"

Erases all information saved in the "Phone Book."

"Erase Call Log"

Erases all information saved in the "Call Log."

How to use "Info"

IPELA		PCS-G	70 VIDEO COMMUNICATION TERMINAL
	Controller Disi/Disconnect Phone	Book Satup	
ormation			
Communication Line	Line Status	Status	Cause Code
<u>ine</u> Machine	CH 1;	No network	0
ause	CH 2:	No network	0
Call Log Occuments	CH 3:	No network	0
Recording Data	CH 4:	No network	0
	CH 5:	No network	0
	CH 6:	No network	0
	CH 7:	No network	0
	CH 8:	No network	0
	CH 9:	No network	0
	CH 10:	No network	0
	CH 11:	No network	0
	CH 12:	No network	0
	CH 13:	No network	0
	CH 14:	No network	0
	CH 15:	No network	0
	CH 16:	No network	0
	CH 17:	No network	0
	CH 18:	No network	0
	CH 19:	No network	0
	CH 20:	No network	0
	CH 21:	No network	0
	CH 22:	No network	0

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- Click the [Info] button, and the "Information" page will appear.
- Click the [Documents] button to download the Operating Instructions (PDF format).

When the PCS-G70/G70P is on-line, the "Communication Status," "Line Status," and "Machine Information" page appears, and during otherwise, the "Line Status" and "Machine Information" page appears.

To display the Cause Code list

IPELA		
POWER ON	Controller Disl/Disconnect Phot	n Book Setup Dir Honditer
Information		
Communication		Cause Code
Line	0	Unknown network error: Try again later.
Machine	1	Number does not exist: Check the number and try again.
Cause	2.3.6	Network congestion: Try again later.
Call Log	16	Normal disconnection: (The line has been disconnected normally.)
Documents	17	Line is busy: Try again later.
Recording Data	18	System not responding. Check if the remote system is connected.
	19	System not responding. Check if the remote system is connected.
	21	Call rejected: Check if the remote system is connected.
	22	Called party number changed: Check the number and try again
	26	Connection restoration request: Try again later.
	27	Remote system out of order: Check if the remote system is operational
	28	Invalid number entered: Check the number and try again
	31 34 41 42 43 44 47	Network not available: Try again later.
	50	Not a Subscriber: Check the remote party's facility contract.
	57.58	Bearer capability not authorized: Check if the line rate is set correctly.
	70	Restricted capability: Set the line rate to 56K and try again.
	88	Terminal attribute error. Check the connection of the remote system
	91,95-102,111	Protocol error: Turn off and restart the system and try again.
	128	H221 negotiation timeout: Turn off and restart the system and try again
	131	Board mismatch: Check the optional line interface boards.
	132	Invalid SPID: Reregister the SPID
	134	Physical link synchronization error: Check the connection of the ISDN cable.
	144,145	Bonding negotiation timeout: Turn off and restart the system and try again
	177	LAN connection timeout: Try again later:
	178	LAN connection rejected: Try again later.
	179	DNS error.
	180	Dialing your own number is invalid.
	181	GateKeeper error

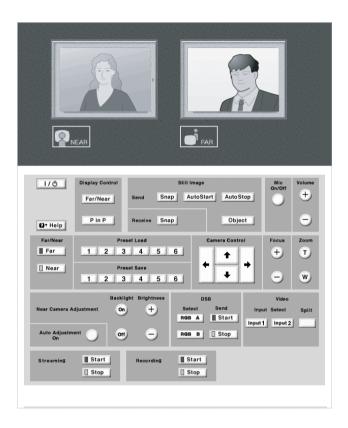
By clicking <u>Cause</u> on the left part of the page, you can jump to the "Cause Code" page, and see the Cause Code list.

To display the Call Log

Committion	IPELA					PCS-G70 VIC							
Ochemenication Marking Start Dates Farl Date Farl Date<	POWER ON	-		tere Bask	Etta p								
Lice Monitoria Galary Call Cog	Information												
Circ Start Date Ford Date Fo	Communication					Call I	08						
Openanic 12-14-2004 000059 12-14-2004 000050 000000000 152 1915 39 Macha LAN PA 108.0 Obsample 12-14-2004 23-62 12-14-2004 23-62 12-14-2004 12-16 12-14-2004 12-16 12-14-2004 12-16 12-14-2004 12-16 12-14-2004 12-16 12-14-2004 12-16 12-14-2004 12-12-200		Start Date	Start Time	End Date	Fod Time			Address	Launch	Turne	Mode	Rate	Cause
Ort Loc 12-13-000 23-25 12-13-2000 23-25 00000000 92:28:13:39 MacLu LAN PA CK 0 Becomment 12-13-000 23:307 12-13-2004 23:307 000000000 19:28:13:39 Gauda LAN PA CK 0 Becomment 12-13-000 23:307 12-13-2004 23:307 000000000 19:28:13:39 Gauda LAN PA CK 0 12-13-000 23:307 12-13-2004 23:317 12-13-2004 23:01 00000000 19:28:13:39 Gauda LAN PA CK 0 12-13-004 23:210 12-13-2004 23:210 000000000 19:28:13:39 Gauda LAN PA KK 0 12-13-004 23:210 12-13-2004 12:210 12:13:200 LAN PA KK 0							index						
Documenti Decementi Dec													
According Data 12-18-2004 233.07 12-08-2004 233.07 12-08-2004 12-08 15-08 12-08 15-08 12-08													
12-13-2004 232111 12-13-2004 23211 0000000000 192.18815.30 Galaxii LAN P-P 0K 0 12-13-2004 232042 12-13-2004 232042 000000000 192.18815.39 Galaxii LAN P-P 0K 0 12-13-2004 232012 12-13-2004 23201 0000000 1192.18815.39 Galaxii LAN P-P 0K 0													
12-13-2004 232042 12-13-2004 232042 0000000000 1921681539 Dialout LAN P-P 0K 0 12-13-2004 232021 12-13-2004 232021 0000000000 1921681539 Dialout LAN P-P 0K 0	Mcording Data												
12-13-2004 232021 12-13-2004 232021 0000000000 1921881539 Dialout LAN P-P 0K 0													
		12-10-2004	20:18:42	12-13-2004	20:18:42	0000000000		182.100.13.38	Dialout	LAN	h-h	UN	199

By clicking <u>Call Log</u> on the left part of the page, you can jump to the "Call Log" page (only when "sonypcs" has been entered as the user name).

Monitor a meeting over the Web



Click the [Monitor] button to show the monitoring window, and monitor the images from the PCS-PG70/PG70P Communication Terminal over the Web.

Note

When Web Monitor is set to Off in the Administrator Setup menu, the "Monitor" page cannot be used.

Watching a streaming videoconference

① On the user name entry screen, enter "streaming" in the "User Name" box and the Streaming Password of the terminal transmitting via streaming broadcast in the "Password" box.

The following screen appears, and all buttons except the [Streaming] button are disabled.



② Click the [Streaming] button to start the QuickTime and start watching a videoconference.



Notes

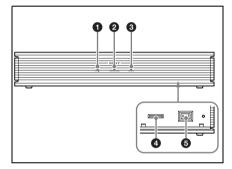
- QuickTime version 6.0 or above is needed to view a videoconference. If QuickTime is not installed on your computer, download it for free from the following Web site: http://www.apple.com/quicktime/download/
- When streaming is disabled in Streaming/Recording Setup, videoconferences cannot be watched. Also, if the video stream is turned off in Streaming/Recording Setup, only the audio stream of the conference is broadcast, and video cannot be watched.

Appendix

Location and **Function of Parts** and Controls

PCS-PG70/PG70P **Communication Terminal**

Front/Right side



1 ON LINE indicator

Blinks during dialing or answering and lights in blue when connection is completed. It turns off when the system is disconnected.

2 POWER/STANDBY indicator

Lights in green when the power switch is set to on (**I**). Lights in orange when the Communication Terminal is set to standby mode.

3 LAN ALERT indicator

Lights in yellow when packet error (loss) or link error occurs during communication.

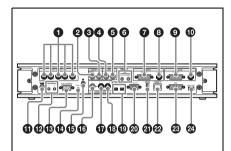
4 Memory Stick slot

Insert a "Memory Stick" (not supplied) into this slot.

6 Power switch

Turns on/off the Communication Terminal. The power is on when the switch is set to the side and off when the switch is set to the \bigcirc side

Rear



1 MCU VIDEO OUT (1 - 5) connectors (mini DIN 4-pin)

During a multipoint conference, the video signal from each point is output to the corresponding connector.

2 AUDIO OUT (MIXED) jack (phono jack)

Used when recording the sound to minute a conference. The mixed sounds of a local and remote parties are output from this jack.

3 AUDIO OUT jack (phono jack) Connect to the audio input of the TV monitor.

4 AUDIO IN AUX jack (phono jack) Connect to the audio output of the optional VCR or audio equipment.

5 AUDIO IN LINE jack (phono jack) Used when connecting to the optional

CTE-600 Communication Transducer or an external microphone mixer.

6 MIC1/MIC2 (PLUG IN POWER) jacks (minijack)

Connect to the optional PCS-A1 or PCSA-A3 microphone. Power is supplied to the microphone from the Communication Terminal.



MAIN CAMERA connector

Connect to the TERMINAL connector on the rear of the Camera

13 MAIN AUX IN connector (mini DIN 4-pin)

Connect to the video output of external video equipment.

9 SUB CAMERA connector

Connect to the TERMINAL connector on the rear of the secondary camera.

1 SUB AUX IN jack (mini DIN 7-pin)

Connect to the video output of external video equipment.

1 DC 19.5V jack

Connect the supplied PCS-AC19V6 AC power adaptor.

IR OUT 1/2 jacks

Connect the supplied IR repeater. Connect the IR repeater for the monitor connected to the VIDEO OUT MONITOR MAIN connector to the IR OUT 1 jack, and the IR repeater for the monitor connected to the VIDEO OUT MONITOR SUB connector to the IR OUT 2 jack.

AUX CONTROL connector (D-sub 9-pin)

Used for maintenance service.

① CTRL-S jack (minijack)

Connect to the optional Remote Commander Signal Receptor. The remote sensor of the Camera Unit does not operate when this connector is in use.

(ground) terminal

Connect a ground wire.

1 VIDEO OUT AUX jack (phono jack)

Connect to the video input of the TV monitor or VCR.

1 VIDEO OUT MONITOR 1 connector (mini DIN 4-pin)

Connect to the S-video input on the TV monitor or VCR

VIDEO OUT MONITOR 2 connector (mini DIN 4-pin)

Connect to the S-video input on the second TV monitor when the system uses the dual monitor mode.

EC-MIC jacks (1, 2)

Connect to an optional PCSA-A7 Microphone.

RGB OUT connector (D-sub 15pin)

Connect to the RGB input of the optional projector or display unit.

WHITE BOARD connector

Connect to the optional mimio Xi.

100BASE-TX/10BASE-T connector (8-pin modular)

Used to conduct a conference via a LAN or an SIP. Connect to a hub or an SIP server using the category 5 cable.

DSB connector (D-sub 15-pin)

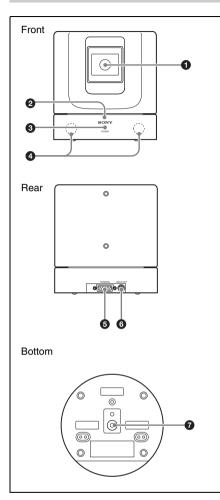
Connect to the TERMINAL connector on the optional PCSA-DSB1S Data Solution Box

2 ISDN UNIT connector

Connect to the TERMINAL connector on the optional ISDN Unit such as PCSA-B384S, PCSA-B768S and PCSA-PRI.



PCSA-CG70/CG70P Camera Unit (Optional)



1 Lens

2 Remote sensor

Point the Remote Commander to the sensor when operating this system.

3 POWER indicator (green)

Lights when the power switch on the Communication Terminal is set to on and goes out when it is set to off or the terminal is set to standby mode.

4 Infrared sensor

Receives the infrared wireless signal from the optional PCS-DS150/DS150P Document Stand (Currently not available). The received signal is used as IR input.

5 TERMINAL connector

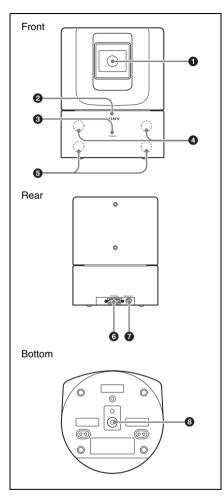
Connect to the CAMERA UNIT connector on the Communication Terminal.

6 VISCA OUT connector

7 Tripod hole

Use to attach the camera on a tripod.

PCSA-CTG70/CTG70P Camera Unit (Optional)



1 Lens

2 Remote sensor

Point the Remote Commander at this sensor when operating this system.

3 POWER indicator (green)

Lights when the power switch on the Communication Terminal is set to on and goes out when it is set to off or the terminal is set to standby mode.

4 Infrared sensor

Receives the infrared wireless signal from the optional PCS-DS150/DS150P Document Stand (Currently not available). The received signal can be used as an IR input.

5 Microphone

Designed for directional voice detection. Cannot be used for calls.

6 TERMINAL connector

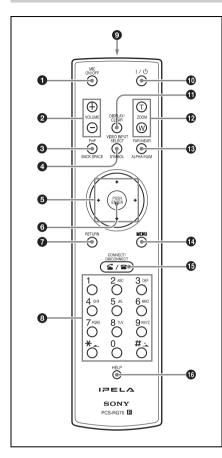
Connect to the CAMERA UNIT connector on the Communication Terminal.

7 VISCA OUT connector

3 Tripod hole

Use to attach the camera onto a tripod.

PCS-RG70 Remote Commander



You can set for a beep not to sound by pressing the button on the Remote Commander with the Audio Setup menu.

For the setting, see "Audio Setup Menu" on page 56.

1 MIC ON/OFF button

Turns off the local sound to be sent to a remote party. To restore the sound, press the button again.

2 VOLUME +/- buttons

Adjusts the volume of the sound received from a remote party. +: to increase the volume -: to decrease the volume

3 PinP (BACK SPACE) button

Displays a window picture when pressed during communication.

Each time you press this button, the location of the window picture changes. Pressing the button displays the picture in full screen while the Camera menu opens.

When used for character input, deletes the character you entered last.

4 VIDEO INPUT SELECT (SYMBOL) button

Selects the video input signal. Each time you press the button, the input signal switches.

Used to enter a symbol for character input.

S Arrow buttons (★/★/★/→)

Used to select the menu or make various settings in the menu. Also used for camera angle adjustment.

6 PUSH ENTER button

Executes the selection or setting in the menu and goes to the next layer.

7 RETURN button

Used to return to the previous layer in the menu.

8 Number (0-9, #, *) buttons

Used to enter the letters or numbers of a telephone number, etc.

Used for focus, brightness and backlight compensation adjustments.

9 Battery compartment (rear)

Insert two size AAA (R03) batteries.

1/() (power on/off) button

Sets the Communication Terminal to standby mode when it is turned on. Turns on the Communication Terminal when it is in standby.

1 DISPLAY (CLEAR) button

Switches the picture displayed on the monitor screen. Deletes a line when used for character input.

2 ZOOM (T/W) buttons Zooms in or out.

T: to enlarge the picture W: to reduce the picture

B FAR/NEAR (ALPHA/NUM) button

Switches the picture on a local or remote site.

Switches the input mode between alphabets and numbers for character input.

MENU button

Used to display a menu.



🚯 CONNECT/DISCONNECT (🗲 / 🕿) button

Used to connect or disconnect a remote party for a conference.

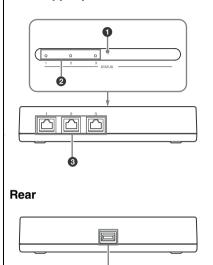


1 HELP button

Used to show the help guide.

PCSA-B384S ISDN Unit (Optional)

Front/Upper panel



1 POWER indicator

Lights in orange when power is supplied to the ISDN Unit. When initializing is complete, blinks in green.

4

2 STATUS 1-3 indicators

Lights in orange when link synchronization of each ISDN connector is established. Lights in vellow when each ISDN line is connected.

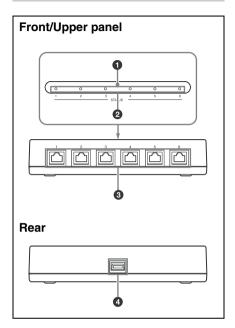
3 ISDN 1-3 terminals (8-pin modular jack)

Connect to the ISDN lines using the ISDN modular cable.

4 TERMINAL connector

Connect to the ISDN UNIT connector on the Communication Terminal with the interface cable supplied with the ISDN Unit.

PCSA-B768S ISDN Unit (Optional)



1 POWER indicator

Lights in orange when power is supplied to the ISDN Unit. When initializing is complete, blinks in green.

2 STATUS 1-6 indicators

Lights in orange when link synchronization of each ISDN connector is established. Lights in yellow when each ISDN line is connected.

3 ISDN 1-6 terminals (8-pin modular jack)

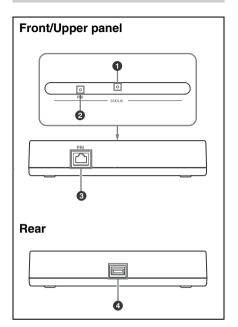
Connect to the ISDN lines using the ISDN modular cable.



4 TERMINAL connector

Connect to the ISDN UNIT connector on the Communication Terminal with the interface cable supplied with the ISDN Unit

PCSA-PRI ISDN Unit (Optional)



1 POWER indicators

Lights in orange when power is supplied to the ISDN Unit. When initializing is complete, blinks in green.

2 STATUS PRI indicator

Lights in orange when link synchronization of the ISDN connector is established. Lights in yellow when each ISDN line is connected.

3 ISDN PRI terminal (8-pin modular jack)

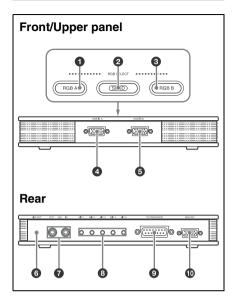
Connect to the ISDN line using the ISDN modular cable.

4 TERMINAL connector

Connect to the ISDN UNIT connector on the Communication Terminal with the interface cable supplied with the ISDN Unit.

Location and Function of Parts and Controls 277

PCSA-DSB1S Data Solution Box (Optional)



1 RGB A input select button and indicator

Selects the video input from the video equipment connected to the RGB IN A connector.

2 SEND button and indicator

Sends the selected input picture to the Communication Terminal.

3 RGB B input select button and indicator

Selects the video input from the video equipment connected to the RGB IN B connector.

G RGB IN A connector (D-sub 15-pin) Connects to the RGB output connector on a computer, etc.

G RGB IN B connector (D-sub 15-pin) Connect to the RGB output connector on a computer, etc.

G LINE OUT jack (stereo minijack) Connect to the audio input jack on the active speaker, etc. Outputs monaural sound.

AUX IN/OUT jacks (phono jack) Connects to the optional CTE-600 Communication Transducer.

8 MIC 1–MIC 5 jacks (minijack)

Connect to the optional PCS-A1 or PCSA-A3 microphone.

TO PROCESSOR connector (D-sub 15-pin)

Connect to the DSB connector on the Communication Terminal using the interface cable supplied with the Data Solution Box.

RGB OUT connector (D-sub 15pin)

Outputs the video signal to a projector, TV monitor, etc.



Indicators

The following icons appear on the monitor depending on the functions being used.

Indicator	Name	Description
FAR	Far	Remote camera being controlled
	Chair Control	Chairman control function being used
	Mic Off	Local microphone deactivated
T.120	Data	T.120 Data conference being held
	Still	Still image being sent or received
30	Broadcast	Video being broadcast during multipoint videoconference
	Volume	Volume of remote party's voice being adjusted
·் Brightness +	Brightness	Camera image being adjusted manually
▲ Focus Far	Focus	Camera focus being adjusted automatically
👤 Focus Near		
Auto Camera	Auto Adjust	Camera focus and brightness being adjusted automatically

Indicator	Name	Description
Backlight On Backlight Off	Backlight	Backlight compensation function activated/deactivated
V.A.	Voice Activate	Voice detection function activated in broadcasting mode
ALPHA NUM	Input Mode	Input mode currently selected
	Slide Show	Images being shown in slide show mode
Packet Loss	Packet Loss	Packet loss now occuring
\square	Presentation	PC images being sent or received
	Whiteboard	White board data being sent or received
A s	SONY Encryption	Videoconference being held with SONY encryption
Ан	Standard Encryption	Videoconference being held with standard encryption
(Ĵ)	Preset Load	Loading preset camera settings
	Audio Level	Voice input level display



Indicator	Name	Description
	Dual Video	Data being received or transmitted in dual video presentation mode.
	Streaming	Streaming broadcast in progress
	Recording	Recording in progress

On-screen Messages

Check the following if a message appears on the TV monitor when operating the Communication Terminal.

Message	Meaning
Incorrect dialing setup.	Make sure the selected entry is correctly registered
CANNOT COMPLETE CONNECT (The following code and message a	
0 Unknown network error:	Try again later.
1 Number does not exist:	Check the number and try again.
2,3,6 Network congestion:	Try again later.
16 Normal disconnection:	(The line has been disconnected normally.)
17 Line is busy:	Try again later.
18,19 System not responding:	Check if the remote system is connected.
20 No such subscriber	Confirm the site number.
21 Call rejected:	Check if the remote system is connected.
22 Called party number change	ged: Check the number and try again.
26 Connection restoration req	uest: Try again later.
27 Remote system out of orde	er: Check if the remote system is operational.
28 Invalid number entered:	Check the number and try again.
31, 34, 41 – 44, 47 Network not available:	Try again later.
50 Not a Subscriber:	Check the remote party's facility contract.
57,58 Bearer capability not author	orized: Check if "Restrict" is set correctly.
70 Restricted capability:	Set "Restrict" to "56K" and try again.
88 Terminal attribute error:	Check the connection of the remote system.
91, 95 – 102, 111 Protocol error:	Turn off and restart the system and try again.
128 H.221 negotiation timeout:	: Turn off and restart the system and try again.
132 Invalid SPID:	Reregister the SPID.
134 Physical link synchronizati error:	ion Check the connection of the ISDN cable.
144, 145 Bonding negotiation timeo	Turn off and restart the system and try again.
177 LAN connection timeout:	Try again later.
178 LAN connection rejected:	Try again later.
179 DNS error:	Please check DNS.

Messa	ge	Meaning			
180	Dialing your own number is invalid.	Please check the IP address of the remote party.			
181	GateKeeper error.	Please check the IP address of the remote party.			
Busy li	ne - Connection not possible.	The telephone line of the remote party is busy and cannot be connected.			
Far end inactive		The remote party operates the menu, and the still picture cannot be sent.			
System	n not responding.	Check if the remote system is connected.			
Close this menu to connect line		Close the menu when starting a conference.			
Cannot	t establish all connections	Check the telephone number of the remote party.			
Connection time out.		Wait for a while and then try dialing again.			
Comm	unication error	Wait for a while and then try dialing again.			
Config	uration error	Wait for a while and then try dialing again.			
MCU o	operation rejected.	The function is not available when external MCU is connected.			
Corrup	ted data stream-Terminating tion.	A signal error occurred. The line connections are compelled to be disconnected.			
Memor	ry full	The memory capacity of the "Memory Stick" is full.			
Input ti	itle	Input an index title.			
Operat	ion disabled	—			
Wrong password		The password is not correct. Enter the correct password.			
01H LAN configuration error (IP address)		The IP address is not proper.			
02H L. (Netma	AN configuration error ask)	The netmask is not proper.			
	AN configuration error address)	The MAC address is not proper.			
04H LA (DHCH	AN configuration error ⁹ error)	The IP address and netmask cannot be obtained.			
05H G	atekeeper registration error	The setting of the Gatekeeper is not proper.			
06H SI	NMP error	SNMP is not set properly.			
LAN configuration error (Gatekeeper)		The setting of the Gatekeeper is not proper.			
LAN configuration error (SNMP error)		The setting of the SNMP is not proper.			
LAN c	onfiguration error	The settings in the LAN Setup menu are not prop			
Memor	ry Stick error.	The format of the "Memory Stick" is wrong.			
Genera	l error.	_			

Message	Meaning		
No Memory Stick.	Insert a "Memory Stick".		
Memory Stick write-protected.	Release the lock of the erasure prevention switch on the "Memory Stick".		
Memory full.	The data has been saved in the "Memory Stick" to its full capacity.		
Memory Stick file error.	The file format of the "Memory Stick" is incorrect or abnormal.		
Memory Stick file decode error.	Decoding the JPEG file has failed.		
Memory Stick size error.	The file size of the "Memory Stick" is not acceptable.		
There are no images recorded in the Memory Stick.	No images are recorded in the "Memory Stick".		
File error.	There is an abnormality in the file.		
File size error.	The file size is not acceptable.		
File decode error.	Decoding the JPEG file has failed.		
Format error.	The "Memory Stick" cannot be formatted.		
Settings cannot be changed during communication.	Change the setting after disconnecting the system.		
The still images were not sent.	Transmission of the still images has failed.		
The presentation screen can not be sent.	Transmission of the RGB data from the Data Solution Box has failed.		
Multipoint connection to this participant was not made.	Multipoint connection with this party is not available.		
The LAN cannot be used.	You cannot use the LAN connection.		
The DATA SOLUTION BOX cannot be used.	You cannot use the Data Solution Box connected.		
Unknown device is connected.	An unacceptable device is connected to the WHITE BOARD connector.		
ISDN UNIT is not available.	Communication with the ISDN unit cannot be made.		
No more cascade connections are enabled.	Installing the MCU software into three or more Communication Terminals does not allow cascade connection.		
Cascade connection via ISDN is not available.	You cannot use cascade connection when your system is connected via ISDN.		
Cannot send RGB data while receiving.	While you are receiving an RGB picture from another terminal, you cannot send an RGB picture from equipment connected to the Data Solution Box.		
A still image is being sent or received. The Data Solution Box is not usable.	While you are sending or receiving a still image, you cannot send or receive the RGB picture via the Data Solution Box.		

Message	Meaning			
Connection with the Data Solution Box is not correct. Please reset the system.	Connection between the Communication Terminal and the Data Solution Box is not correct. Turn off the Communication Terminal, then turn it on again.			
Fan in the Data Solution Box does not work properly. The Data Solution Box is not usable.	The fan equipped with the Data Solution Box is not working properly. You cannot use the Data Solution Box.			
The Whiteboard cannot be used.	A videoconference with the whiteboard can be held only when the remote party uses the PCS-G70/ G70P, PCS-1/1P, PCS-11/11P, or PCS-TL50/ TL50P.			
Battery in the stylus could be weak. Replace the battery.	The battery in the stylus for the whiteboard is low. Replace the battery in the stylus with a new one.			
The far-end system is not compatible with the encryption feature.	When conducting an encrypted videoconference, you cannot connect to the system that is not compatible with the encryption feature.			
The encryption feature on a far-end system is disabled.	When conducting an encrypted videoconference, you cannot connect to the system if the encryption feature is deactivated.			
The encryption feature on a far-end system is enabled.	When conducting a daily conference, you cannot connect to the system if the encryption feature is activated.			
The entered password for the encryption feature is not correct.	Enter the correct password.			
The encrypted videoconference is not available if any terminal is connected via ISDN.	While conducting a videoconference via an ISDN connection, you cannot connect to any terminal via LAN connection if "SONY encryption" is being used.			
At least thirteen characters are required as a password for the encryption feature.	You have to enter 13 to 20 characters, numbers or symbols as the password required for conduct of an encrypted videoconference.			
PPPoE connection has failed.	LAN connection has failed. Check the PPPoE setting.			
PPPoE server admission has failed.	Access to a network is not admitted by the PPPoE server.			
Connection to the PPPoE server fails.	Check the DNS server setting.			
Communication via LAN is not available. Check the LAN cable.	The connection to a LAN cannot be made. Check the LAN cable.			
An IP address is not obtained via DHCP.	Check the DHCP setting.			
Please dial by entering the IP address.	Be sure to enter the IP address of the remote party when dialing.			
Reference to DNS has failed.	The LAN connection has failed as you entered the user name when using the domain name server. Enter the IP address.			
Your system attempts to connect to other equipment than a videoconferencing system.	Connect your system to the videoconferencing system.			

Message	Meaning
Some trouble occurs during connection. Connection has failed.	Try to connect again.
Check the information registered to the gatekeeper.	When you use the gatekeeper mode, the registered information on gatekeeper appears in page 2/2 of the LAN Setup menu.
Connection has been rejected as the data exceeds the bandwidth of a gatekeeper.	Connection has failed as the data exceeds the bandwidth of a gatekeeper.
Gatekeeper does not respond.	Check the gatekeeper setting.
The ISDN Unit is not connected.	The ISDN Unit is not connected.
The ISDN line is invalid. Check the ISDN connection.	Check the ISDN connection.
ISDN lines are not connected correctly.	Check the ISDN connection.
Check the ISDN configuration.	Check the settings in the ISDN Setup menu.
A telephone number of a remote party has not been entered.	Enter the telephone number of the remote party.
The entered telephone number of a remote party is not correct.	Enter the correct telephone number of the remote party.
Problems connecting to a router or an ISDN connection.	The ISDN connection has not been made. There may be some problem in a router or in the ISDN connection on the remote party.
Line is busy. Try to dial again later.	Line is busy. Wait for a while and try dialing again.
A line has not been completely connected. The far-end videoconferencing system did not respond to our calling.	The videoconferencing system does not respond to the calling, and the connection has failed.
The terminal with the specified IP address does not exist, or the system is turned off.	The connection to the remote party cannot be made. You may specify a different IP address from that of the terminal or the system of the remote party is turned off.
Connection rejected.	The connection to the remote party has failed.
Call not responded.	The remote party does not respond to your calling.
H.245 Error.	Error occurs while connecting to the multiple points via LAN.
The remote terminal may not be compatible with the bonding function.	The bonding function may not be used. The remote terminal may not be equipped with this function.
The ISDN telephone number of the local party is not correctly set. Set it correctly.	Set your ISDN telephone number correctly.
The ISDN telephone number of the far-end party may be configured incorrectly.	The ISDN telephone number of the remote party may not be set correctly.
6B connection is available.	Connection has been made via 6B. More channel connection than 6B is not available.

Message	Meaning
PPPoE server admission has failed. Check the PPPoE User Name and Password are entered correctly.	LAN connection using PPPoE has failed. Enter the correct user name and password.
LAN configuration error. Fixed IP for PPPoE is set to On. Check the Fixed IP for PPPoE is entered correctly.	This system is set to use a fixed IP for a PPPoE connection. Enter the Fixed IP for PPPoE correctly in the LAN Setup menu.
PPPoE server admission fails. Dial again after confirmation of the PPPoE settings.	Check the PPPoE settings are complete in the LAN Setup menu, then try to dial again.
Access to the DNS server has failed. Check the PPPoE DNS settings.	Check that the PPPoE DNS settings in the LAN Setup menu are correct.
Connection to the remote party via DNS disabled. Dial using IP address.	Enter the IP address of the remote party when dialing.
Now obtaining an IP address via DHCP.	The IP address of your system is assigned automatically by the DHCP server.
LAN configuration error. Unauthorized IP address is set.	The set IP address cannot be used. Set the correct IP address again.
LAN configuration error. Unauthorized network mask is set.	The set network mask cannot be used. Set the correct network mask again.
Cannot access the DNS server. Use the IP address to dial.	Connection to the remote party using the domain name cannot be made. Enter the IP address of the remote party for dialing.
Configure the DNS address or use the IP address to dial.	Set the DNS address or enter the IP address of the remote party for dialing.
Check the user name or user number for dialing is correct.	Enter the user name or user number of the remote party correctly.
The remote terminal may not be registered in gatekeeper. Contact the gatekeeper administrator.	Contact the gatekeeper administrator for registration status of the remote party in gatekeeper.
Gatekeeper does not respond. Contact the gatekeeper administrator, or use the IP address to dial.	Connection using the user name and user number has failed. Contact the gatekeeper administrator, or dial using the IP address.
LAN configuration error. Gatekeeper Mode is set to On. Enter the gatekeeper address.	LAN connection is set to use the gatekeeper. Enter the gatekeeper address.
LAN configuration error. NAT Mode is set to On. Check the NAT address.	LAN connection is set to use NAT. Check the NAT address in the LAN Setup menu.
LAN configuration error. Unauthorized NAT address is specified. Check the NAT address.	The set NAT address cannot be used. Enter the correct NAT address in the LAN Setup menu.
LAN configuration error. Different address from NAT machines is specified. Check the NAT address.	Enter the correct NAT address in the LAN Setup menu.
LAN configuration error. Connection is not complete as the port number overlaps.	Check the TCP and UDP port numbers in the LAN Setup menu.

Message	Meaning		
LAN configuration error. Connection is not complete as an invalid port number is specified.	Check the TCP and UDP port numbers in the LAN Setup menu.		
Line is busy. Try to dial again later.	Connection has filed as the line is busy. Try to dial again later.		
Local number is not set correctly in the ISDN Setup menu. Set it correctly. Line connected with 1B (64K).	ISDN line has been connected with 1B (64K) channel. Set the local numbers correctly in the ISDN Setup menu.		
Local number setting for ISDN configuration may not be correct in the remote party. Line connected with 1B (64K).	ISDN line has been connected with 1B (64K) channel. The local numbers may not be correctly set in the remote party.		
H.221 negotiation timeout. Restart the system and connect again.	Turn off your system, turn it on and try to dial again.		
Dialing the same address is invalid.	You are calling the same party.		
The ISDN lines fully occupied. Check Number of Lines in the Multipoint Setup menu, or check whether the ISDN cable is disconnected.	Check the number of ISDN lines is correctly set in the Multipoint Setup menu, or check the ISDN cable connection.		
Regarded as a secondary terminal as the number of lines for ISDN configuration is different.	Some functions may be limited as your system is regarded as secondary terminal.		
Regarded as a secondary terminal as Far End Camera Control is set to Off.	Some functions may be limited as your system is regarded as secondary terminal.		
Check the line interface or the IP address is set correctly.	Select the line interface correctly or enter the correct IP address.		
Dial setup error. No prefix number is entered.	The prefix is not registered in the Dial Setup menu.		
Dial setup error. No prefix number for LAN is entered.	The prefix is not registered in the Dial Setup menu.		
LAN configuration error. PPPoE is set to On. Check the PPPoE User Name and Password.	PPPoE is set for LAN connection. Configuration of the user name and password is required.		
LAN configuration error. IP Precedence exceeds the maximum value.	Set the IP Precedence value between 0 and 7 in the LAN Setup menu.		
LAN configuration error. Diffserve exceeds the maximum value.	Set the Diffserve value between 0 and 64 in the LAN Setup menu.		
Connection using SIP is not available. Parameter error.	Connection using SIP cannot be made as the SIP configuration is not correct. Check the settings in the SIP Setup menu.		
Connection using SIP is not available. System call error.	Connection using SIP cannot be made as this System has a problem.		
Connection using SIP is not available. Memory over.	Connection using SIP cannot be made as the memory of this system is fully occupied.		

Message	Meaning
Connection using SIP is not available. Initialization error.	Connection using SIP cannot be made as the initialization has failed. Check the setting.
Connection using SIP is not available. Unauthorized handle.	Connection using SIP cannot be made due to internal error.
Connection using SIP is not available. Maximum sessions over.	Connection using SIP cannot be made as the number of sites connected has been exceeded.
Connection using SIP is not available. Server internal error.	Connection using SIP cannot be made due to internal error of the SIP server.
Connection using SIP is not available. Provisional response timeout.	Connection using SIP cannot be made as there is no response from the remote party for a certain period of time.
Connection using SIP is not available. Request timeout.	Connection using SIP cannot be made as there is no response to our call from the remote party for a certain period of time.
Connection using SIP is not available. 4xx response received.	Connection using SIP cannot be made as, for example, the remote party uses a media that is not supported by this System.
Connection using SIP is not available. 5xx response received.	Connection using SIP cannot be made as an error occurs in the SIP server, etc. Check the SIP server.
Connection using SIP is not available. 6xx response received.	Connection using SIP cannot be made as, for example, the remote party cannot be found. Check the address of the remote party.
Connection using SIP is not available. Undefined error.	Connection using SIP cannot be made as unexpected error occurs.
Connection using SIP is not available. Unauthorized status.	Connection using SIP cannot be made as unexpected error occurs.
Connection using SIP is not available. Cancelled by the remote site.	Connection using SIP is not possible as the remote party has been made a call, then cancelled.
Connection using SIP is not available. Disconnected by the remote site.	Connection using SIP cannot be made as the remote party cancels your call.
Connection using SIP is not available. Rejection received.	Connection using SIP cannot be made as the remote party rejects your call.
Connection using SIP is not available. Network error.	Connection using SIP cannot be made due to network problem. Check the network status.
Connection using SIP is not available. Encrypted conference not available.	Connection using SIP cannot be made if encryption feature is enabled. Set Encryption to Off.
Connection using SIP is not available. Line is busy.	Connection using SIP cannot be made as the remote party has been connected to another.
Transferring via a line interface other than SIP is not available.	Transfer cannot be made through line interfaces other than SIP.
Current call has been transferred.	The current call has been transferred.
Call will be transferred upon disconnection.	Call will be transferred once you disconnect.

Message	Meaning			
Remote party of the transfer destination disconnected.	The remote party of the transfer destination disconnected.			
Remote party of the current call to be transferred disconnected.	The remote party of the current call to be transferred disconnected.			
The held call has been resumed.	Hold has been canceled and the held call resumes.			
The operation is not available as some line is in the hold mode.	Operation unavailable as there is a line in hold mode.			
Cascade connection via SIP is not available.	You cannot use a cascade connection using SIP.			
The line has disconnected as you failed in putting the call on hold.	The line has disconnected due to failure in putting the call on hold.			
Settings cannot be changed during recording.	Change the setting after recording ends.			
Settings cannot be changed during a streaming broadcast.	Change the setting after the streaming broadcast ends.			
The search failed.	The search has failed.			
Starts a conference. (The encryption feature is enabled.)	The conference starts with the encryption feature enabled.			
Starts a conference. (The encryption feature is disabled.)	The conference starts with the encryption feature disabled.			
The conference could not start because the encryption feature at the near-end side was disabled.	Enable the encryption feature.			
The conference could not start because the encryption feature at the far-end side was disabled.	Have the far-end side enable their encryption feature.			
The conference could not start because the signal encryption method at the near-end side differed from that of the far-end side.	Select the same signal encryption method as the far-end side.			
The standard encryption videoconference with SIP connection is not available.	Change connection methods, or switch to Sony encryption.			
The Sony encryption videoconference with ISDN connection is not available.	Change connection methods, or switch to standard encryption.			

The following messages indicate the state of the system. No action is required.

Message	Meaning		
Meeting starts!	Connection with the remote party has been completed, and you can now start a conference.		
Starting connection.	After receiving a call from the remote party the system starts connecting.		
Meeting ends.	Operations for ending the conference have been completed.		
Please wait.	The data is being saved.		
Installation completed.	Installing the software is completed.		
The still image has been sent.	A still picture has been transmitted to the remote party.		
Still image transmission cancelled.	Transmission of a still image has been cancelled.		
Preset 1 (-6) selected.	The camera angle and zoom setting has been changed to that registered in Preset number 1 (-6).		
Still image saved to Memory Stick.	The still image has been saved to the "Memory Stick".		
Registered to Preset number 1 (– 6).	The camera angle and zoom setting has been registered in Preset number 1 (-6).		
Terminal A (or B, C, D, E) has disconnected.	During a multipoint videoconference the remote party A (or B, C, D, E) has been disconnected.		
Site A (or B, C, D, E) has disconnected.	During a multipoint videoconference the remote party A (or B, C, D, E) has ended the conference.		
The still image from the object input has been transmitted.	The still image input from the Document Stand (Currently not available) has been transmitted.		
The slide show is over.	The slide show has been ended.		
The 1st (–5th) position has been selected.	The terminal on the 1st (–5th) site for a multipoint videoconference has been selected from the Phone Book.		
The terminal participated in the conference.	The remote party of the displayed terminal participates in the multipoint videoconference.		
The terminal has dropped out of the conference.	The displayed terminal ends the multipoint videoconference.		
Viewing the terminal. [Terminal name]	The picture of the displayed terminal can be seen on the screen.		
Now upgrading. Wait for a while. Be sure not to turn off your system while upgrading.	The software is now upgrading. Be sure not to turn off the Communication Terminal until the upgrading is complete. Doing so may cause malfunction of the system.		
Cascade connection is complete.	Cascade connection with the terminals has been completed.		
Cascade connection has been made. Split mode is not available.	Cascade connection with the terminals has been made. You cannot display split windows.		
Use of the Private Phone Book is available.	The "Memory Stick" in which the Private Phone Book is registered has been inserted into the Communication Terminal. You can use the Private Phone Book.		

Message	Meaning
Use of the Private Phone Book is not available.	The "Memory Stick" in which the Private Phone Book is registered has been removed from the Communication Terminal. You cannot use the Private Phone Book.
The system is connecting to a LAN via PPPoE.	The Video Communication System is connecting to a LAN using PPPoE.



Troubleshooting

If the Communication Terminal does not function correctly, check the following.

Symptom	Cause	Solution		
The power is not turned on.	The power switch is not set to on.	Set the power switch to on (1) (page 34).		
	The batteries in the Remote Commander are low or dead.	Replace the batteries with new ones (page 32).		
No sound or the volume is very low.	The volume of the system is too low.	Adjust the sound volume by pressing the VOLUME +/- buttons on the Remote Commander (page 37).		
	The volume of the TV monitor is too low.	Adjust the volume of the TV monitor.		
	The microphone on the remote party is turned off.	Ask the remote party to turn on the microphone.		
	"Mic Select" is not set properly.	Set up "Mic Select" properly according to the microphone to be used (page 56).		
	Audio input is not selected properly.	Set up "Input Select" properly (page 56).		
	The microphone or external equipment is not connected correctly.	Check the connection (pages 162, 172 and 181).		
Picture is blurred.	Manual focus is selected but picture remains blurred.	Adjust the focus (page 113).		
	When auto focus is selected, the background is too bright, contrast is too high, or the background or the participants' clothes contain fine line patterns.	Select manual focus and adjust manually (page 114).		
No picture.	The selected picture source is not tuned on.	Turn on the selected video equipment.		
	Video input is not selected properly.	Select the video input with the VIDEO INPUT SELECT button (page 123).		
	The selected picture source is not correctly connected to the system.	Check the connections (page 172).		
	A voice meeting is held.	This is not a malfunction.		
	Movement of the camera is prevented.	Turn off the Communication Terminal, then turn it on again.		

Symptom	Cause	Solution		
No connection.	Wrong number was dialed.	Check the entered number.		
	The setting of "Line I/F" is not correct.	Set "Line I/F" to correct interface referring to "Calling a Remote Party" (page 95).		
	The registered items in the Phone Book are not correct.	Register the party correctly referring to "Registering a Remote Party – Phone Book" (page 77).		
	Some of the system settings are not correct.	Set the system settings correctly referring to "Registering Local Information" (page 49).		
	The IP address and network mask are not set correctly (when using LAN).	Ask the system administrator to set them correctly (page 66).		
	The LAN or ISDN cable is disconnected.	Connect correctly (pages 29, 30).		
	The LAN or ISDN cable is connected to the incorrect connector.	Connect correctly (pages 29, 30).		
	The LAN or ISDN cable is down.	Replace the cable with a new one.		
	The cable exclusively designed for the ISDN connection is used for LAN connection (when using LAN).	Use the cable for LAN connection.		
	Incorrect type of cable (cross or straight cable) is used for the LAN or ISDN connection.	Use the correct type of cable.		
	The DSU is turned off.	Turn on the DSU.		
	If you disconnect the communication with an abnormal procedure, e.g., unplugging an ISDN cable or turning off the system during communication, you may not connect to the ISDN line for a while (when using ISDN).	Turn off the power of the system and wait for a few minutes before turning it on again.		
	If you repeat plugging/unplugging or turning on/off, you may not connect to the network for a while (when using LAN).	Turn off the power of the system and wait for a few minutes before turning it on again.		
	LAN connection timeout (when using LAN).	Try again later.		
	Packet for videoconferencing is not acceptable under the current LAN environment (when using LAN).	Consult with the system administrator so that the packet for videoconferencing becomes acceptable under your LAN environment.		

Troubleshooting 293

Symptom	Cause	Solution		
No connection.	The remote terminal is not turned on.	Ask the remote party to turn on the terminal.		
	It takes a long time for the remote party to be able to answer from the standby mode.	Ask the remote party to cancel the standby mode.		
	The remote party is in communication with another party.	Call the remote party after they end the communication with another party.		
	Answering the call is not permitted by the remote terminal as it is operating for setups, etc.	Ask the remote party to permit answering a call.		
	The remote terminal is not set to auto answer mode.	Ask the remote party to set the terminal to auto answer mode, or to answer a call manually.		
	The ISDN telephone numbers are not set up in the remote terminal (when using bonding).	Ask the remote party to set up "Area Code" and "Local Number" in the ISDN Setup menu correctly (page 71).		
	The eighth digit and up of the ISDN telephone numbers are not the same when connecting using bonding (when the remote party uses the videoconference system of an older model such as the PCS-1600).	Connect without using bonding, or use the ISDN telephone numbers that are the same in the eighth digit and up.		
	There is some problem with the remote terminal.	Try to dial the number of another terminal.		
	A message appears on the screen.	See "On-screen Messages" (page 281).		
Still pictures or the Phone Book cannot	The write-protect tab on the "Memory Stick" is set to LOCK.	Release the lock.		
be saved to the "Memory Stick."	The "Memory Stick" has already been recorded to full capacity.	Use another "Memory Stick."		

Specifications

PCS-PG70/PG70P Communication Terminal

This unit is compliant with ITU-T Recommendations H.320 and H.323.

Motion picture

Operating ban	dwidth
	64 Kbps to 4 Mbps (standard, LAN
	connection)
	56 Kbps to 768 Kbps (when
	installing the PCSA-B768S,
	ISDN connection)
	56 Kbps to 384 Kbps (when
	installing the PCSA-B384S,
	ISDN connection)
	56 Kbps to 1472 Kbps (T1)
	56 Kbps to 1920 Kbps (E1)
	(when installing the PCSA-PRI,
	ISDN connection)
Coding	H.261/H.263/H.263+/H.263++/
	H.263 4CIF/H.264/Interlaced
	SIF (ITU-T Recommendation)/
	Interlaced SIF (H.264, H.263)
	MPEG4 Simple Profile (when
	using LAN)
Picture element	nts
	CIF: 352 pixels × 288 lines
	QCIF: 176 pixels × 144 lines
Color system	
	NTSC (PCS-PG70)
	PAL (PCS-PG70P)
	Capable of connection between
	both color systems
Still Pictur	re

Pixels	704 pixels × 480 lines (PCS-PG70)
	704 pixels \times 576 lines
	(PCS-PG70P)
Encoding	H.261 (ITU-T Recommendation)
	Annex. D (4CIF)
	H.263 (special format of this
	system)

Sound

Bandwidth 14 kHz (MPEG4 Audio) 7 kHz (G.722/G.722.1 compliant with ITU-T Recommendation)

3.4 kHz (G.711/G.723.1/G.728/ G.729 compliant with ITU-T Recommendation) Transmission rate 56 Kbps, 64 Kbps (G.711 compliant with ITU-T Recommendation) 48 Kbps, 56 Kbps, 64 Kbps (G.722 compliant with ITU-T Recommendation) 64 Kbps, 96 Kbps (MPEG4 Audio) (when using LAN) 24 Kbps, 32 Kbps (G.722.1 compliant with ITU-T Recommendation) (when using LAN) 16 Kbps (G.728 compliant with ITU-T Recommendation) 8 Kbps (G.729 compliant with ITU-T Recommendation) (when using LAN) 5.3 Kbps, 6.3 Kbps (G.723.1 compliant with ITU-T Recommendation) (when using LAN)

48 Kbps (when using ISDN)

Network

Multiplexing	
	Video, audio, data
Frame format	
	H.221 (compliant with ITU-T
	Recommendation)
Interface	LAN (standard), 64 Kbps to 4
	Mbps
	ISDN (BRI), up to 3 lines (when
	installing the PCSA-B384S)
	up to 6 lines (when installing the
	PCSA-B768S)
	ISDN (PRI) T1 or E1 (when
	installing the PCSA-PRI)
Data transmis	sion rate
	LSD 1.2 Kbps, 4.8 Kbps, 6.4 Kbps
	MLP 6.4 Kbps, 24 Kbps, 32 Kbps
	HMLP 62.4 Kbps, 64 Kbps, 128
	Kbps
LAN protocol	supported
	HTTP
	FTP
	Telnet
	RTP/RTCP
	TCP/UDP
	SNMP

Remote control

Far end camera control

H.281 (compliant with ITU-T Recommendation)

Data transfer

T.120 (compliant with ITU-T Recommendation)

General

Power requirements 19.5 V 5 A Current Operating temperature 5°C to 35°C (41°F to 94°F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) Dimensions $420 \times 70 \times 256 \text{ mm} (W \times H \times D)$ $(16^{1}/_{2} \times 2^{3}/_{4} \times 10^{1}/_{16} \text{ in.})$ (not including projections) Mass Approx. 5.3 kg (11 lb. 11 oz.) Supplied accessories Remote Commander PCS-RG70 (1)Size AAA (R03) batteries for Remote Commander (2) Remote Control Receiver (1) Conversion Adaptor (2) IR repeater (2) S-video cable (1.5 m) (4.9 ft) (1) Audio cable (1 m) (3.3 ft) (1)Video converter cable (15 cm) (0.5 ft) (2)AC adaptor PCS-AC19V6 (1) Power cord (1)21-pin adaptor (1) (PCS-PG70P only) CD-ROM(1) Before Using this Unit (1) Connection Sheet (1) **Ouick connection guide/Remote** Control Guide (1) Warranty booklet (1)

PCSA-CG70/CG70P Camera Unit (Optional)

Video signal

NTSC color, EIA standards (PCSA-CG70) PAL color, CCIR standards (PCSA-CG70P)

Image device

1/4 type CCD (Charge Coupled Device)

Approx. 410,000 pixels (Effective: approx. 380,000 pixels) (PCSA-CG70) Approx. 470,000 pixels (Effective: approx. 440.000 pixels) (PCSA-CG70P) Lens f = 3.1 to 31 mm, F 1.8 to 2.9. Horizontal angle 6.6° to 65° Focal distance 100 (WIDE) to 600 (TELE) mm Minimum illumination 3.5 lux at F 1.8/50 IRE Illumination range 3.5 lux to 100.000 lux Horizontal resolution 470 TV lines (PCSA-CG70) 450 TV lines (PCSA-CG70P) Pan/tilt action Horizontal ±100° Vertical ±25° Dimension $130 \times 141 \times 130 \text{ mm} (W \times H \times D)$ $(5^{1}/8 \times 5^{9}/16 \times 5^{1}/8 \text{ in.})$ (not including projections) Mass Approx. 1.0 kg (2 lb. 3 oz.) Supplied accessory Camera cable (3m) (9.8 ft)

PCSA-CTG70/CTG70P Camera Unit (optional)

Video signal			
	(PCSA-CTG70)		
	PAL color, CCIR standards		
	(PCSA-CTG70P)		
Image device			
	Device)		
	Approx. 410,000 pixels (Effective:		
	approx. 380,000 pixels)		
	(PCSA-CTG70)		
	Approx. 470,000 pixels (Effective:		
	approx. 440,000 pixels)		
	(PCSA-CTG70P)		
Lens	f = 3.1 to 31 mm, F1.8 to F2.9,		
	Horizontal angle 6.6° to 65°		
Focal distance			
	100 (WIDE) to 600 (TELE) mm		
Minimum illu	mination		
	3.5 lux at F 1.8/50 IRE		
Illumination ra	ange		
	3.5 lux to 100,000 lux		
Horizontal res	olution		
	470 TV lines (PCSA-CTG70)		
	450 TV lines (PCSA-CTG70P)		
Pan/tilt action	, , , , , , , , , , , , , , , , , , ,		
	Horizontal ±100°		
	Vertical ±25°		
Dimensions	130×165×130 mm (W × H × D)		
	$(5 \frac{1}{8} \times 6 \frac{1}{2} \times 5 \frac{1}{8} \text{ inches})$		

Mass Approx. 1.3 kg (2 lb 14 oz) Supplied accessory Camera cable (3 m, 9.8 ft) (1)

PCS-RG70 Remote Commander

Signal format

	Infrared SIRCS
Control	DC 3V using two size AAA (R03)
	batteries
Dimensions	$47 \times 43 \times 195 \text{ mm} (W \times H \times D)$
	$(1 \frac{7}{8} \times 1 \frac{11}{16} \times 7 \frac{5}{8} \text{ in.})$
	(not including projections)
Mass	Approx. 180 g (6 oz.) (including
	batteries)

PCS-AC19V6 AC Adaptor

Power requirements 100 to 240V AC, 50/60 Hz, 1.6 A to 0.7 A Output 19.5 V, 6.15A Operating temperature 5°C to 35°C (41°F to 94°F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) Dimensions $160 \times 80 \times 38 \text{ mm} (W \times H \times D)$ $(6^{5}/16 \times 3^{1}/8 \times 1^{1}/2 \text{ in.})$ Mass Approx. 570 g (20 oz.)

PCS-A1 Microphone (Optional)

PCSA-A3 Microphone (Optional)

Bandwidth 13 kHz Directional characteristic Unidirectional Dimension $68 \times 16 \times 96$ mm (W × H × D) (2 ³/₄ × ²¹/₃₂ × 3 ⁷/₈ in.) MassApprox. 200 g (7 oz.)PowerPlug in powerCable length8 m (26.2 ft)

PCSA-A7P4 Microphone (4-pack, optional)

Dimensions $64 \times 24 \times 102 \text{ mm} (W \times H \times D)$ $(2 \frac{1}{2} \times \frac{7}{16} \times 4 \text{ inches})$ Mass Approx. 130 g (4.6 oz) Power requirements 12 V, powered by PCS-G70/G70P Communication Terminal or AC adaptor Power consumption less than 2.5 W (per microphone) Operating temperature 5°C to 35°C (41°F to 94°F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) Supplied accessories PCSA-A7 Microphone (4) Microphone cable (8 m, 26.3 ft) (2)Microphone cable (1.5 m, 4.9 ft) (4)MPA-AC1 AC adaptor (1) Power cord (one for each region: North America, Europe, Japan) Cord adaptor (1) DC cord (1) Operating Instructions (1) B&P Warranty Booklet (1) Warranty card (1)



PCSA-B384S ISDN Unit (Optional)

Power requirements 19.5 V Current 0.3 A Operating temperature 5°C to 35°C (41°F to 94°F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) Dimensions $166 \times 34 \times 128 \text{ mm} (W \times H \times D)$ $(6^{9}/_{16} \times 1^{3}/_{8} \times 5^{1}/_{16} \text{ in.})$ (not including projections) Mass Approx. 400 g (14 oz.) Supplied accessories Interface cable (5 m) (16.4 ft) (1)Operating Instructions (1) Warranty booklet (1)

PCSA-B768S ISDN Unit (Optional)

Power requirements 19.5 V 0.5 A Current Operating temperature 5°C to 35°C (41°F to 94°F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) Dimensions $166 \times 34 \times 128 \text{ mm} (W \times H \times D)$ $(6^{9}/_{16} \times 1^{3}/_{8} \times 5^{1}/_{16} \text{ in.})$ (not including projections) Mass Approx. 400 g (14 oz.) Supplied accessories Interface cable (5 m) (16.4 ft) (1)Operating Instructions (1) Warranty booklet (1)

PCSA-PRI ISDN Unit (Optional)

Power requirements 19.5 V Current 0.3 A Operating temperature 5°C to 35°C (41°F to 94°F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) Dimensions $166 \times 34 \times 128 \text{ mm} (W \times H \times D)$ $(6^{9}/_{16} \times 1^{3}/_{8} \times 5^{1}/_{16}$ in.(not including projected parts) Mass Approx. 400 g (14 oz.) Supplied accessories Interface cable (5 m) (16.4 ft) (1) Operating Instructions (1) Warranty booklet (1)

PCSA-DSB1S Data Solution Box (Optional)

Power requirements 19.5 V 1.0 A Current Operating temperature 5° C to 35° C (41° F to 94° F) Operating humidity 20% to 80% Storage temperature -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F) Storage humidity 20% to 80% (no condensation) $240 \times 37 \times 180 \text{ mm} (W \times H \times D)$ Dimensions $(9^{1}/_{2} \times 1^{7}/_{16} \times 7^{1}/_{16} \text{ in.})$ (not including projections) Mass Approx. 1.1 kg (2 lb. 7 oz.) Supplied accessories Interface cable (10 m) (32.8 ft) (1)Operating Instructions (1) Warranty booklet (1)

PCSA-M0G70 H.320 MCU Software (Optional)

PCSA-M3G70 H.323 MCU Software (Optional)

Design and specifications are subject to change without notice.



Acceptable RGB Input/Output Signals

PCS-PG70/PG70P Communication Terminal (RGB OUT)

Picture element	Signal format	oh (kHz)	fV (Hz)	Dot clock (MHz)	Sync
1024×768	XGA VESA 60 Hz	48.363	60.004	65	H-neg V-neg

PCSA-DSB1S Data Solution Box (RGB IN A/RGB IN B)

Picture element	Signal format	fH (kHz)	fV (Hz)	Dot clock (MHz)	Sync	
640×480	VGA mode	31.469	59.94	25.17	H-neg	V-neg
	Macintosh 13"	35	66.667	30.24	H-neg	V-neg
	VGA VESA 72 Hz	37.861	72.809	31.5	H-neg	V-neg
	VGA VESA 75 Hz	37.5	75	31.5	H-neg	V-neg
	VGA VESA 85 Hz	43.269	85.008	36	H-neg	V-neg
800×600	SVGA VESA 56 Hz	35.156	56.25	36	H-pos	V-pos
	SVGA VESA 60 Hz	37.879	60.317	40	H-pos	V-pos
	SVGA VESA 72 Hz	48.077	72.188	50	H-pos	V-pos
	SVGA VESA 75 Hz	46.875	75	49.5	H-pos	V-pos
	SVGA VESA 85 Hz	53.674	85.061	56.25	H-pos	V-pos
1024 × 768	XGA VESA 60 Hz	48.363	60.004	65	H-neg	V-neg
	XGA VESA 70 Hz	56.476	70.069	75	H-neg	V-neg
	XGA VESA 75 Hz	60.023	75.029	78.75	H-pos	V-pos

PCSA-DSB1S Data Solution Box (RGB OUT)

Picture element	Signal format	fH (kHz)	fV (Hz)	Dot clock (MHz)	Sync
1024×768	XGA VESA 60 Hz	48.363	60.004	65	H-neg V-neg

• While the picture input from the RGB IN A or RGB IN B connector is transmitted, the picture of the input signal format (VGA, SVGA or XGA) is output from this connector.



Pin Assignments

100BASE-TX/10BASE-T jack



Modular jack

Pin	Signal	Description
1	TPOP	Transmit+
2	TPON	Transmit–
3	TPIP	Receive+
4	NC	—
5	NC	_
6	TPIN	Receive-
7	NC	—
8	NC	_

ISDN UNIT connector

14-pin connector

Pin	Signal	Description
1	GND	Ground
2	19.5V	19.5V
3	DCLK+	Clock+
4	DCLK-	Clock-
5	DR+	Receive data+
6	DR-	Receive data-
7	FS+	Frame sync+
8	FS-	Frame sync-
9	DX+	Transmit data+
10	DX-	Transmit data–
11	RX	Serial receive data
12	TX	Serial transmit data
13	19.5V	19.5V

Pin	Signal	Description
14	GND	Ground

VIDEO OUT MONITOR MAIN/SUB, VIDEO IN AUX 1/AUX 2 connectors



Mini-DIN 4-pin connector

Pin	Signal	Description
1	GND	Analog Ground
2	GND	Analog Ground
3	Y	Brightness Signal
4	С	Chrominance Signal

CAMERA UNIT connector



D-sub 15-pin connector (female)

Pin	Signal	Description
1	Y	Brightness signal
2	Y.GND	Brightness signal ground
3	С	Chrominance signal
4	C.GND	Chrominance signal ground
5	Video	Video signal
6	Video.GND	Video signal Ground
7	TXD	Transmit data
8	RXD	Receive data
9	19.5 V	19.5 V
10	MIC+	Microphone+
11	MIC-	Microphone-
12	SIRCS	Remote control data
13	DTR	Data terminal ready
14	STANDBY	Standby
15	GND	Ground

TERMINAL connector



D-sub 15-pin connector (female)

Pin	Signal	Description
1	Y	Brightness signal
2	Y.GND	Brightness signal ground
3	С	Chrominance signal
4	C.GND	Chrominance signal ground
5	Video	Video signal
6	Video.GN D	Video signal Ground
7	RXD	Receive data
8	TXD	Transmit data
9	19.5 V	19.5 V
10	MIC+	Microphone+
11	MIC-	Microphone-
12	SIRCS	Remote control data
13	DTR	Data terminal ready
14	STANDBY	Standby
15	GND	Ground

DSB connector



D-sub 15-pin (male)

Pin	Signal	Description
1	Video	Video signal
2	Video.GND	Video signal ground
3	LINE A+	Line audio+
4	LINE A-	Line audio-
5	MIC+	Microphone+
6	MIC-	Microphone-
7	TD+	Receive+
8	TD-	Receive-

Pin	Signal	Description
9	19.5V	19.5V
10	NC	-
11	AGND	Analog ground
12	NC	-
13	RD+	Transmit data+
14	RD-	Transmit data-
15	GND	Ground

RGB OUT connector



Mini D-sub 15-pin (female)

Pin	Signal	Description
1	RED	R (red)
2	GREEN	G (green)
3	BLUE	B (blue)
4	NC	-
5	GND	Ground
6	RED.GND	R (red) signal ground
7	GREEN.GND	G (green) signal ground
8	BLUE.GND	B (blue) signal ground
9	NC	-
10	SYNC.GND	Sync signal ground
11	NC	-
12	NC	-
13	HSYNC	Horizontal sync
14	VSYNC	Vertical sync
15	NC	-

EC-MIC 1 and 2 connectors



Pin	Signal	Description
1	GND	Ground
2	TXD+	Transmit data+
3	TXD-	Transmit data-
4	NC	-
5	NC	-
6	MICDET	Microphone detect
7	GND	Ground
8	RXD+	Receive data+
9	RXD-	Receive data-
10	+12 V	+12 V

Pin Assignments on Optional Board Connectors

ISDN 1-3 jacks (PCSA-B384S) ISDN 1-6 jacks (PCSA-B768S)



Modular jack

Pin	Signal	Description
1	NC	-
2	NC	-
3	TA	Transmit+
4	RA	Receive+
5	RB	Receive-
6	ТВ	Transmit–
7	NC	-
8	NC	-

ISDN PRI jack (PCSA-PRI)



Modular jack

Pin	Signal	Description
1	RB	Receive-
2	RA	Receive+
3	NC	-
4	TB	Transmit–
5	TA	Transmit+
6	NC	-
7	NC	-
8	NC	-

TERMINAL connector (PCSA-B384S/PCSA-B768S/PCSA-PRI)



USB connector

Pin	Signal	Description
1	GND	Chassis ground
2	19.5V	19.5V
3	DCLK+	Clock+
4	DCLK-	Clock-
5	DR+	Transmit data+
6	DR-	Transmit data-
7	FS+	Frame sync+
8	FS-	Frame sync-
9	DX+	Receive data+
10	DX-	Receive data-
11	TX	Serial transmit data
12	RX	Serial receive data
13	19.5V	19.5V
14	GND	Ground

TERMINAL connector (PCSA-DSB1S)



D-sub 15-pin connector (male)

Pin	Signal	Description
1	Video	Video signal
2	Video.GND	Video signal ground
3	LINE A+	Line audio+
4	LINE A-	Line audio-
5	MIC+	Microphone+
6	MIC-	Microphone-
7	RD+	Receive+
8	RD-	Receive-
9	19.5V	19.5V
10	NC	-
11	AGND	Analog ground
12	NC	-
13	TD+	Transmit data+
14	TD-	Transmit data-
15	GND	Ground



List of Port Numbers Used on the PCS-PG70/PG70P

When connecting one-to-one (Default)

When "Port Number Used" is set to "Default" in the LAN Setup menu, the PCS-PG70/PG70P uses the following port numbers. (MCL option pet instelled)

(MCU option not installed)

Signal	Port number
RAS (PCS-PG70/ PG70P)	Any number from 2253 to 2255 (using GateKeeper)
RAS (GateKeeper)	1718 or 1719 (using GateKeeper)
Q.931 (dial)	Any number from 2253 to 2255
Q.931 (answer)	1720
H.245	Any number from 2253 to 2255
Audio RTP	49152
Audio RTCP	49153
Video RTP	49154
Video RTCP	49155
FECC RTP	49156
FECC RTCP	49157
Data conference/ dual video RTP	49158
Data conference/ dual video RTCP	49159

When connecting one-to-one (Custom: TCP Port Number 3000 and UDP Port Number 3000)

When "Port Number Used" is set to "Custom" in NAT/Port of the LAN Setup menu, the PCS-PG70/PG70P uses the port numbers defined by the values entered in "TCP Port Number" and "UDP Port Number".

For example, when "TCP Port Number" is set to "3000" and "UDP Port Number" is set to "3100", the PCS-PG70/PG70P uses the following port numbers.

Signal	Port number
RAS (PCS-PG70/ PG70P)	Any number from 3000 to 3002 (using GateKeeper)
RAS (GateKeeper)	1718 or 1719 (using GateKeeper)
Q.931 (dial)	Any number from 3000 to 3002
Q.931 (answer)	1720
H.245	Any number from 3000 to 3002
Audio RTP	3100
Audio RTCP	3101
Video RTP	3102
Video RTCP	3103
FECC RTP	3104
FECC RTCP	3105
Data conference/ dual video RTP	3106
Data conference/ dual video RTCP	3107

When H.323 MCU software is installed (Default)

When "Port Number Used" is set to "Default" in NAT/Port of the LAN Setup menu, the PCS-PG70/PG70P operated as the main terminal uses the following port numbers.

Signal	Port number (First point)	Port number (N th point)
RAS (PCS- PG70/PG70P)	Any number from 2253 to 2263 (using Gate Keeper)	
RAS (Gate Keeper)	1718 or 1719 (using Gate Keeper)	
Q.931 (dial)	Any number from 2253 to 2263 1720	
Q.931 (answer)		
H.245	Any number from 2253 to 2263	
Audio RTP	49152	49152+20× (N-1)

Signal	Port number (First point)	Port number (N th point)
Audio RTCP	49153	49153+20× (N-1)
Video RTP	49154	49154+20× (N-1)
Video RTCP	49155	49155+20× (N-1)
FECC RTP	49156	49156+20× (N-1)
FECC RTCP	49157	49157+20× (N-1)
Data conference/dual video RTP	49158	49158+20 × (N-1)
Data conference/dual video RTCP	49159	49159+20 × (N-1)

When H.323 MCU software is installed (Custom: TCP Port Number 3000 and UDP Port Number 3000)

When "Port Number Used" is set to "Custom" in NAT/Port of the LAN Setup menu, the PCS-PG70/PG70P uses the port numbers defined by the values entered in "TCP Port Number" and "UDP Port Number".

For example, when "TCP Port Number" is set to "3000" and "UDP Port Number" is set to "3100", the PCS-PG70/PG70P operated as the main terminal uses the following port numbers.

Signal	Port number (First point)	Port number (N th point)
RAS (PCS- PG70/PG70P)	Any number from 3000 to 3010 (using Gate Keeper)	
RAS (GateKeeper)	1718 or 1719 (using Gate Keeper)	
Q.931 (dial)	Any number from 3000 to 3010	
Q.931 (answer)	1720	

Signal	Port number (First point)	Port number (N th point)
H.245	Any number from 3000 to 3010	
Audio RTP	3100	3100+20 × (N-1)
Audio RTCP	3101	3101+20 × (N-1)
Video RTP	3102	3102+20 × (N-1)
Video RTCP	3103	3103+20 × (N-1)
FECC RTP	3104	3104+20 × (N-1)
FECC RTCP	3105	3105+20 × (N-1)
Data conference/dual video RTP	3106	3106+20 × (N-1)
Data conference/dual video RTCP	3107	3107+20 × (N-1)



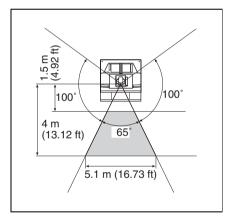
Videoconferencing Room Layout

Be sure to position camera and microphone appropriately in your videoconferencing room.

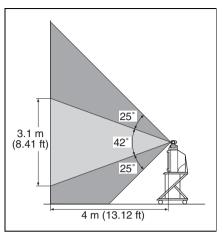
Camera Range

represents the shooting area of the camera when the zoom has been extended fully. indicates the shooting area of the camera when the left/right angling function is fully utilized. Use the measurements below as a guide for the layout of your videoconference room.

Top view (horizontal range at maximum zoom-out)



Side view (vertical range at maximum zoom-out)

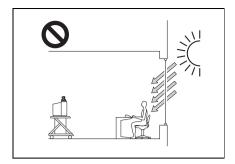


Layout Considerations

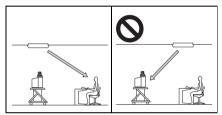
- Avoid having large, moving objects, especially people, behind the participants, as the quality of the picture transmitted to the remote party will deteriorate.
- Do not seat participants in front of a wall with fine stripe patterns.
- Choose a room where echo will not occur.
- Do not install the system near noise sources such as air conditioners or copy machines.
- Avoid placing the system in a room where there are the speakers used for an in-house broadcasting system.

Lighting Considerations

Do not point the camera toward a window where sunlight comes in as back lighting may decrease the contrast. If it is necessary, cover the window with a thick curtain.



Adjust room lighting so that it falls on the participants. Avoid direct light on the TV monitor. Light intensity on faces should be about 300 lux or more.



If an inverter type or brightness-adjustable type of fluorescent lamp is used, the sensitivity of the Remote Commander may deteriorate.

Glossary

Bonding*

Bonding is one of the Inverse Multiplexing methods allowing the connection of the videoconferencing system with multiple ISDN lines. Dialing the first ISDN line enables you to connect all other lines. Dialing the second and later lines is done automatically by the communication between the videoconferencing systems on both sites. To use bonding, it is required that both videoconferencing systems be equipped with the bonding function and that "Area Code" and "Local Number" in the ISDN Setup menu of the answering site be set correctly. As the communication between the systems when using the bonding function is made via the ISDN numbers of the answering site, the "Area Code" and "Local Number" settings in the ISDN Setup menu are not essential at the dialing site.

* Bonding (Bandwidth on Demand Interoperability Group) is a registered trademark of THE BONDING CONSORTIUM.

BRI

An abbreviation for Basic Rate Interface. Basic interface standardized by the ITU-T. Single ISDN has two B channels and one D channel.

CIF

An abbreviation for Common Intermediate Format. This format allows communication between different color systems (NTSC and PAL).

352 pixels × 288 lines

Codec

An abbreviation for Coder-Decoder. An integrated device of a coder that converts an analog audio/video signal to a digital data stream and compresses it, and a decoder for expanding to restore the original analog signal.

DHCP

An abbreviation for Dynamic Host Configuration Protocol. Manages IP addresses in the network.

DNS

An abbreviation for Domain Name System. Defines the domain name system.

Echo Canceller

Device to eliminate echo that occurs when transmitting audio.

Frame rate

The number of frames which can be encoded/decoded in one second.

G.711

Audio encoding/decoding format recommended by the ITU-T. A phone bandwidth audio signal is converted to a digital signal with a data rate of 64 Kbps. It can be transmitted with a data rate of 56 Kbps.

G.722

Audio encoding/decoding format recommended by the ITU-T. A 7-kHz bandwidth audio signal is converted to a digital signal with a data rate of 48 Kbps, 56 Kbps or 64 Kbps.

G.722.1

Audio encoding/decoding format recommended by the ITU-T. A 7-kHz bandwidth audio signal is converted to a digital signal with a data rate of 24 Kbps or 32 Kbps.

G.723.1

Audio encoding/decoding format recommended by the ITU-T. A phone bandwidth audio signal is converted to a digital signal with a data rate of 5.3 Kbps or 6.3 Kbps.

G.728

Audio encoding/decoding format recommended by the ITU-T. A phone bandwidth audio signal is converted to a digital signal with a data rate of 16 Kbps.

G.729

Audio encoding/decoding format recommended by the ITU-T. A phone bandwidth audio signal is converted to a digital signal with the data rate of 8 Kbps.

Gatekeeper

Controls the access of H.323 videoconference devices on a network. Administers the zone, access limitation, audio/video bandwidth, and alias etc.

H.221

Frame structure for a 64 to 1920 Kbps channel in audiovisual teleservices.

H.239

ITU-T standard for sharing data and presentations with video. This supports the dual video presentation mode, enabling endpoints to receive and transmit video and presentation data simultaneously.

H.261

Video codec for audio/visual services as p × 64 Kbps. Videoconferencing standard that defines a video coding algorithm, picture format and error correcting technology for communication between different manufacturers' video codecs.

H.263

A video coding algorithm based on the H.261 standard. This format enables communication via a lower bit rate.

H.263+

Video encoding/decoding format based on the H.263 standard, added by the Annex I to T (I, J, K T), that allows enhanced picture quality and error resistance. Normally, this format is a profile used with a combination of some of the Annex for H.263/H.263+.

H.264

A video coding algorithm newly standardized by the ITU-T in May 2003. This format realizes high-quality picture via a lower bit rate. It provides an equal picture quality via half as low bit rate as the H.263 format. The H.264 format is also called as MPEG4 Advanced Video Coding (AVC).

H.320

A videoconferencing standard for communication between different videoconferencing system.

H.323

This enables communications on the non-QOS (Quality of Service) LAN.

HMLP

See "MLP".

I-MUX

An abbreviation for Inverse Multiplexer. This protocol allows you to transmit the data at 384 Kbps via 6B-channel.

Interlaced SIF

With TV pictures, 60 fields of pictures per second are interlaced to provide high resolution and smooth motion pictures. The conventional videoconferencing system uses CIF format pictures (352 pixel × 388 line) transmitted in 30 fields per second. In CIF format, smooth motion pictures like TV pictures cannot be obtained. In the Interlaced SIF format, interlaced SIF size pictures (352 pixel \times 240 line) can be transmitted at 60 frames per second. This enables display of pictures with higher vertical resolution of $352 \text{ pixel} \times 480 \text{ lines, providing smooth}$ motion picture. However, a relatively higher bit rate is required as the amount of information is twice as much as that of the CIF format.

ISDN

An abbreviation for Integrated Services Digital Network. This is a communication protocol by CCITT on transmission of integrated voice, video, and data. Bandwidths include basic (64 Kbps) and primary rate (1.544 and 2.048 Mbps).

ITU-T

An abbreviation for International Telecommunication Union, Telecommunications.

Lip synchronization

A function that synchronizes sound with motion. Sound processing is much faster than motion processing, thus sound and motion sometimes get out of step with each other.

MCU

An abbreviation for Multipoint Control Unit. When connecting a MCU, a multipoint videoconference can be held.

MLP

Data communication is also available during communication of video/audio signals between the videoconferencing systems. The MLP or HMLP is a protocol for data communication such as NetMeeting. Using the HMLP protocol allows faster data transmission.

MPEG4

A video coding algorithm recommended by the ISO/IEC based on the H.263+ standard. Adding some tools provides some improvement of picture quality compared with the H.263+ standard. The MPEG4 format is commonly used for personal computers, cellular phones, etc.

P in P

An abbreviation for "Picture in Picture." This is a function which allows you to monitor your own party on a small window on your TV monitor.

QCIF

An abbreviation for Quater CIF. The number of pixels is a quarter than one of CIF format. 176 pixels \times 144 lines

Secondary terminal

Normally, a multipoint videoconference is not available unless the video and audio modes and transmission rate of the videoconferencing systems of all the sites are the same.^{*1} For a multipoint videoconference the terminal that can be connected in the same modes is called a primary terminal, while a secondary terminal is the terminal in which some of the functions are restricted since the connection is not enabled with the same modes. The restriction on the functions depends on the conditions described in "Notes on Secondary Terminals" under "in chapter 8 Multipoint Videoconference". For example, this system does not transmit video signals to a terminal that has no common formats but can communicate via audio signals. In this case, the terminal in which picture viewing is not available is regarded as a secondary terminal.^{*2} A terminal communicated via a normal phone included in the multipoint videoconference is also called a secondary terminal. For details on secondary terminals, see "Notes on Secondary Terminals" on page 227.

- *1 Difference between the NTSC and PAL color systems is permitted.
- *2 Receiving the video signals from this terminal may be available with the system.

SIP

An acronym for Session Initiation Protocol. SIP is a communication control protocol used for Internet telephony, instant messaging, etc.

SNMP

An abbreviation for Simple Network Management Protocol. This protocol is for management information between the management station and the managed terminals.

SPID

An abbreviation for Service Profile ID.

Streaming

A technology that allows audio and video data to be played back as it is downloaded for real time viewing over a network, such as the Internet.

Sub-address

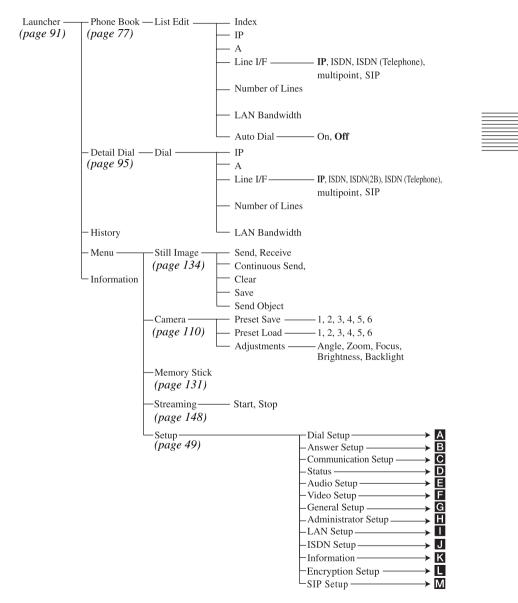
An identification number given to devices sharing a common ISDN line.

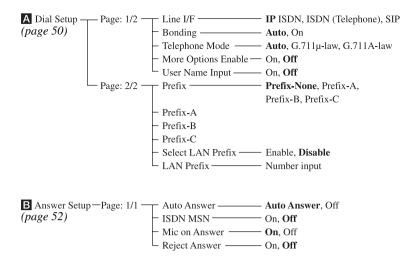
TOS

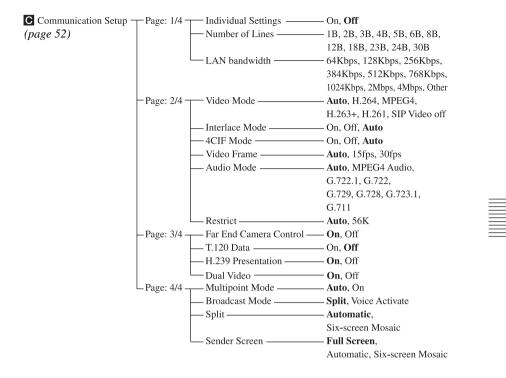
Inputting the information data in the TOS field of the IP address allows the communication system to judge the packet transmission priority, etc. It also enables change of path according to the types of service (Delay or Size).

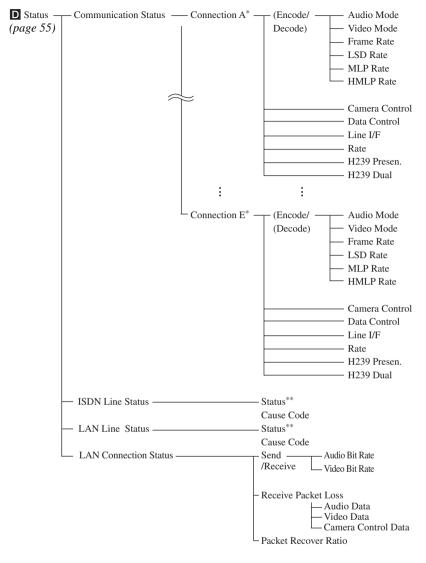
Menu Configuration

The menus of the camera are configured as described below. For detailed information, see pages in parentheses. The initial settings of each item are bolded.

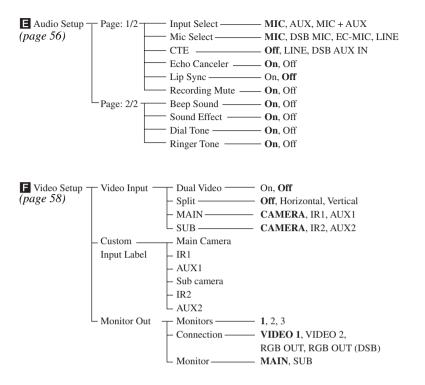








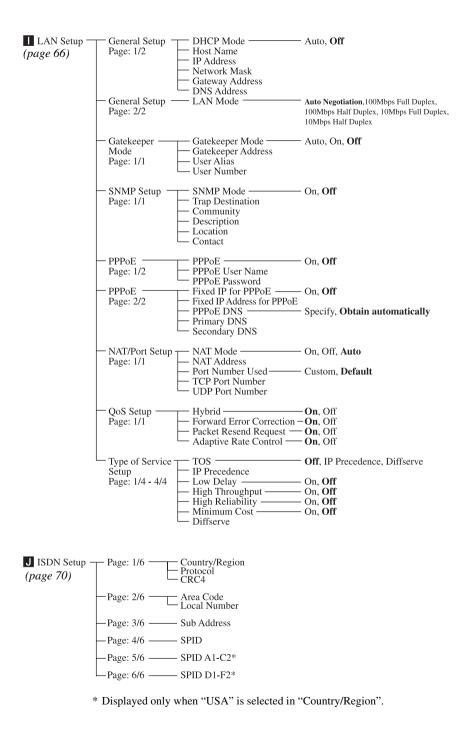
- * During a multipoint videoconference Connection A to E with the terminal name appear according to the points connected.
- ** While not in communication only these items are displayed.



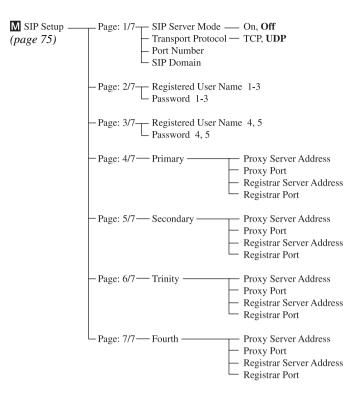
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G General Setup – (<i>page 59</i>)		Clock Set Terminal Name	
(1 O)	1 age. 1/2	- Standby Mode	On Off
		- Standby Time	
		- Last Number Registration -	
	D . C.	Control by Far End —	
	*	Language —	English, French, German, Japanese,
	Page: 2/2		Spanish, Italian, Simplified Chinese,
			Portuguese, Traditional Chinese, Korean,
			Dutch, Swedish, Danish, Finnish, Polish,
			Russian, Arabic
		- IR Repeater Mode	
			MODE4
		T.120 PC Address	
		Time Display —	
	Page: 1/3	1 2	Off, Show temporarily, Always show
		- Character Input Help	
		└─ Number Display ────	SIP:User Name, SIP:Address,
			GK:User Alias, GK:User Number,
			NAT:Address, IP:, No display
		Phone Book Button —	
	Page: 2/3	- Detail Dial Button	
		- Menu Button	
		- Information Button	On , Off
		History Button ———	
		Direct Phone Book Button -	·
	Page: 3/3	— Direct Dial	On , Off
		— Guide ———	On, Off
			Pattern 1, Pattern 2, Pattern 3, Pattern 4
l	- Whiteboard	Whiteboard Attachment —	
	Page: 1/1	- Whiteboard Size	2'0"×3'0", 3'0''×4'0'' , 4'0"×6'0", 4'0"×8'0'
			3'0"×2'0",4'0"×3'0", 6'0"×4'0", 8'0"×4'0"
		Whiteboard Size ———	Inches, Meters
		Measurement	

H Administrator Setup –	Password —	Administrator Password		
(page 62)	Page: 1/3	- Phone Book Modification	n Password	
	0	- Save Settings Password		
		- Remote Access Password	1	
	- Password	Dial Setup	– Enable, Disable	
	Page: 2/3	- Answer Setup	– Enable, Disable	
		- Transmission Mode Setup -	– Enable, Disable	
		- Audio Setup	– Enable, Disable	
		- Video Setup	– Enable, Disable	
		General Setup	– Enable, Disable	
	Password	LAN Setup	 Enable, Disable 	
	Page: 3/3	ISDN Setup	– Enable, Disable	
	_	- Encryption Setup		
		SIP Setup		
	Phone Book Save Phone Book			
		— Load Phone Book		
		Clear Phone Book		
	- Private	- Auto Dialing	– On, Off	
	Phone Book	- Create Private Phone Boo	ok	
		— Delete Private Phone Book		
		Copy to Private Phone Bo	ook	
	- Streaming/	Streaming	– Enable, Disable	
	Recording	- Recording	– Enable, Disable	
	Page: 1/2	Video —	 Off, 64Kbps, 128Kbps, 384Kbps, 	
			512Kbps	
	- Streaming/	— Multicast Address		
	Recording	- Audio Port Number		
	Page: 2/2	 Video Port Number 		
		└─ HOP		
	L Other Settings -	Web Monitor		
		- Web Access	- Enable, Disable	
		- Save Setup		
		Load Setup		



K Machine Information	Host Version				
(page 74)	— ISDN UNIT Version				
	— DSB Version				
	- DSP Version				
	- Software Option	—— None,			
		Multipoint (H.323),			
		Multipoint (H.320),			
		Multipoint (H.320 + H.323),			
		SIP,			
		Multipoint (H.323) SIP,			
		Multipoint (H.320) SIP,			
		Multipoint (H.320 + H.323) SIP			
	- Option I/F	—— None, DSB, IDDN UNIT(B384),			
		IDDN UNIT(B768),	_		
		IDDN UNIT(PRI),	=		
		Whiteboard			
	— Host Name		=		
	- IP Address				
	 MAC Address 				
	└─ Serial Number				
Encryption — Sig	gnal Encryption Methods ——	Off, Standard encryption,			
(page 75)		SONY			
(puse , e)					
- Er	cryption Mode	Connection given priority,			
		Encryption given priority			
L _{En}	cryption Password				



http://www.sony.net/ Sony Corporation