

*New high-end system for boardrooms and large venues! With an amazing 4 Mbps, and with 5 separate far-end monitors, it's an integrators' delight!*

**Secure Videoconferencing - Advanced Encryption Standard (AES)**

Secure videoconferencing over a network is possible because the PCS-G70 supports AES Encryption, a NIST (National Institute of Standards and Technology) standard for encrypting electronic data used in commercial applications including telecommunications.

When a videoconference is initiated with the AES feature active, video, audio, and graphics are encrypted for the duration of the videoconference. Because of this feature, companies can hold sensitive meetings, negotiations, and other similar interactions with confidence that they will not be compromised.

**Memory Stick® Media Support**

Private phone books can be created and stored on Memory Stick media. By simply inserting the Memory Stick media into the PCS-G70, the unit automatically recognizes and activates the private phone book, thereby eliminating the need to re-enter contact information to place a call.

Memory Stick media has a number of other uses, such as storing captured images, PC-generated data, and digital whiteboard drawings. The media can also be used for capturing audio and video during a videoconference to keep a record of what was conveyed during a conference, and for installing and updating software.



**QoS (Quality of Service) Enhancement Functions**

When holding a videoconference over a network, a common concern is how to maintain video and audio quality when the performance of the network is changing. The PCS-G70 provides three advanced functions to enhance QoS over a network.

**Easy-to-Use Remote Commander® Unit/ Intuitive GUI**

The PCS-G70 has a number of features that make it easy to operate. The cursor keys on the Remote Commander unit can be used to select and call any one of three contacts, which are pre-programmed and displayed in the Launcher Menu. Up to 500 contacts can be stored in the PCS-G70 common address book for quick and easy dialing. In addition, the unit supports a call history log, which stores the last 32 incoming and outgoing calls so that the user can readily select and dial a recent contact.

**Stylish Design**

With its elegant design and optional stands for both the camera unit and the codec unit, the PCS-G70 can fit into even the classiest of conference rooms.



**3-CCD Color Video Camera  
BRC-300**



**Tracking Camera Unit  
PCSA-CTG70**



**Standard Camera Unit  
PCSA-CG70**

**IPELA™**

Sony IPELA products embrace the concepts of Reality, Usability, and Intelligence, enabling real audiovisual communication over IP networks.

**The Flagship Sony PCS-G70 – Quality Videoconferencing with the Utmost in Flexibility**

Videoconferencing systems continue to evolve as we enter a new era of visual communication. Sony is leading this evolution by staying ahead of the latest technological trends in videoconferencing and developing systems that meet our customers' demands. The flagship PCS-G70 video communication system is our latest solution to meet the needs of our high-end customers.

# PCS-G70 Features

**High-Quality Video/High-Speed Network Connection:** The PCS-G70 provides excellent picture quality over both ISDN (H.320) and IP (H.323) networks and fully supports the latest non-proprietary ITU-T H.264 video codec standard for maximum customer confidence and flexibility.

**Superb Sound:** The PCS-G70 reproduces clear and natural-sounding audio using MPEG-4 AAC (Advanced Audio Coding) at 14KHz.

**Multi-Point Videoconferencing at up to 10 Sites:** Using optional MCU software, the PCS-G70 can be configured to communicate with up to 5 remote videoconferencing sites (6 sites total) simultaneously using either an IP (H.323 protocol) or ISDN (H.320 protocol) connection.

**Multiple Display Output:** In addition to the main monitor output, the PCS-G70 can support up to five additional monitors that can be used to display the five other far-end sites in a 6-way videoconference.

## VIDEO

Signal system	PCS-G70S: NTSC
Standards	H.261 (Annex D), H.263 (Annex D,F), H.263+ (Annex J), H.263++ (Annex U,V), H.264, MPEG-4 SP@L3, H.239 Video and Presentation Data Support**, H.239 Dual Video Stream Support
Resolution	SGCIF (128 x 96, reception only), GCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576, H.263 only), Interlaced SIF (H.263, H.264 only)
Frame rate	Max. 30 frames/s (H.261, H.263, H.263+, H.263++, H.264, and MPEG-4 SP@L3) Interlaced SIF Mode (PCS-G70S: 60 fields/s)
Bit rate	Up to 4 Mb/s in H.323 (Incl. audio)**** Up to 2 Mb/s in H.320 (Incl. audio) when configured with the PCSA-B768S Up to 768 Kb/s in H.320 (Incl. audio) when configured with the PCSA-B768S Up to 384 Kb/s in H.320 (Incl. audio) when configured with the PCSA-B384S

## AUDIO

Bandwidth and coding	G.711: 3.4 kHz at 56/64 Kb/s G.722: 7.0 kHz at 48/56/64 Kb/s G.722.1: 7.0 kHz at 24/32 Kb/s (H.323) G.728: 3.4 kHz at 16 Kb/s G.723.1: 3.4 kHz at 5.3/6.3 Kb/s (H.323) G.729: 3.4 kHz at 8 Kb/s (H.323) MPEG-4 AAC (mono) 14 kHz at 64/96 Kb/s (H.323) at 48 Kb/s (H.320)
Echo cancellation	Noise Suppressor included Automatic Gain Control included

## GRAPHICS

XGA	1024 pixels x 768 lines (H.263), with PCSA-DSB1S
4CIF	704 pixels x 576 lines (H.261 Annex D and H.263)

## PICTURE IN PICTURE

Sub screen size	4.3" (256 x 192), One of four corners
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## ITU-T STANDARDS (EXCLUDES AUDIO/VIDEO STANDARDS)

H.320, H.323
H.221
Bonding
H.281 FECC
H.225.0
H.233, H.234, H.235
H.239
H.242
H.243
H.245
T.120

## NETWORK PROTOCOLS

TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent), DNS (Client), DHCP (Client), RTP/RTCP, TCP/UDP, ARP, SIP
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## MULTIPOINT CAPABILITIES

Up to 6 sites (H.320/H.323)*****
Up to 10 sites (H.320/H.323)*****

## LIP SYNCHRONIZATION

Manual On/Off
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## SECURITY

H.233, H.234, H.235
Sony Proprietary AES Encryption, Password Protection

## SPECIFICATIONS FOR OPTIONAL CAMERAS

	BRC-300	PCSA-CT670	PCSA-C670
Image device	1/4.7 type CCD x3	1/4 type CCD	
Horizontal resolution	600 TV lines (4:3 mode)	NTSC: 470 TV lines/PAL: 460 TV lines	
Focal length	3.6 to 43.2 mm (F1.6 to 2.8)	3.1 to 31mm (F1.8 to 2.9)	
Focus	Auto/Manual		
IRIS	Auto/Manual	Auto	
Zoom ratio	x 12 optical zoom (x 48 with digital zoom)	x 10 optical zoom (x 40 with digital zoom)	
Pan angle/speed	±170° (max 60°/sec)	±100° (max 300°/sec)	
Tilt angle/speed	-30 to +90° (max 60°/sec)	±25° (max 125°/sec)	
Preset	6 positions		
S/N	50 dB	more than 50 dB	
I/F	Analog Video Out (Y/C 4-pin Mini-DIN, BNC) RS-232C/RS-422 (VISCA protocol)	Dedicated 23-pin RS-232C (VISCA protocol) 8-pin Mini-DIN	
Dimensions (W x H x D) excluding projections	7 1/8 x 8 3/8 x 8 1/8 inches (180 x 210.1 x 205 mm)	5 1/8 x 6 1/2 x 5 1/8 inches (130 x 165 x 130 mm)	5 1/4 x 5 5/8 x 5 1/8 inches (131 x 141 x 130 mm)
Weight	5 lb 8 oz (2.5 kg)	2 lb 14 oz (1.3 kg)	2 lb 3 oz (1.0 kg)
Others	Backlight compensation Auto white balance		

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\* The system must be configured with a multicast router.  
\*\* Recommended system requirements: Microsoft Windows® XP, Microsoft Internet Explorer® 6.0 or higher, and QuickTime® 6.0 or higher.  
\*\*\* The optional PCSA-DSB1S Data Solution Box is required to send presentation data.  
\*\*\*\* When the H.261 video standard is used, up to 2 Mb/s is supported.  
\*\*\*\*\* Requires optional MCU software. IP/ISDN Bridging is possible.  
\*\*\*\*\* Requires optional MCU software. Connections between base units must be IP (H.323). IP/ISDN Bridging is possible.

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**Site-Name Display:** During multi-point videoconferences, it can be difficult to keep track of all of the participants; however, with the PCS-G70 site-name display function, this is no longer the case.

**Flexible Display Patterns at all Sites:** In addition to conventional patterns of display - such as showing the far-end site on a full screen or displaying near-end and far-end sites in picture-in-picture mode - a variety of other display patterns are available with the PCS-G70.

**Dual Camera and Split Picture Support (H.239 Dual Stream):** The PCS-G70 can be configured with two cameras, which is ideal for covering large conference rooms or for capturing video of a specific area of interest during a videoconference.

**Data-Sharing Capabilities/Digital Whiteboard Support:** Data originated on your PC can be shared with your videoconferencing counterparts, making communication even more effective.

**Built-in Streaming Function:** To broadcast\* your videoconferences to a large audience, i.e. with educational lectures or live corporate speeches, the PCS-G70 features a built-in streaming function that allows remote users to log on from any PC using an Internet browser.\*\*

## NETWORK FEATURES

QoS (Quality of Service)	ARC (Adaptive Rate Control), Real-time ARQ (Auto Repeat reQuest) IP Precedence, DiffServ, FEC (Forward Error Correction)
NAT	Network Address Translation
FireWall	Port setting for TCP/UDP
UPnP	Universal Plug and Play

## REMOTE COMMANDER UNIT

Format	Wireless SIRCS
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## INTERFACES

Video	D-Sub 15-pin Dedicated Camera I/F x2 S-video or Composite input x2 (switchable with conversion connector) S-video output x2 (for main/sub monitor) S-video output x5 (for individual sites in MCU) Composite output (AUX) RGB output
Audio	Line input RCA AUX input RCA (bypass echo cancellor) External analog microphone input, Mini-jack (Plug in power) x2 External digital microphone input x2 Line output RCA x2 (one mixed output)
Network	10Base-T/100Base-TX External ISDN Unit I/F
Control	SIRCS IR Out x2 Wired SIRCS In (Control-S) RS-232C
DSB I/F	Dedicated D-Sub 15
RGB I/F	RGB output
Memory Stick Media	Memory Stick™ slot
Digital whiteboard	Dedicated connector

## GENERAL

Operating temperature	5 °C to 35 °C
Operating humidity	30% to 70%
Storage temperature	-20 °C to +55 °C
Storage humidity	25% to 75%
Power Requirements	PCS-G70S: AC 120 V, 50/60 Hz DC 19.5 V, 5 A
Communication Terminal (PCS-G70S)	16 5/8 x 2 7/8 x 10 inches (420 x 70 x 254 mm), excluding projections
Dimensions (W x H x D)	
Remote Commander Unit (PCS-RG70)	1 7/8 x 1 3/4 x 7 3/4 inches (47 x 43 x 195 mm), excluding projections
Dimensions (W x H x D)	
Communication Terminal (PCS-G70S) Weight	11 lbs 11 oz (5.3 kg)
Remote Commander Unit (PCS-RG70) Weight	6.3 oz (180 g), incl. batteries

## SYSTEM COMPONENTS AND SUPPLIED ACCESSORIES

Communication Terminal	Operation Guide
Remote Commander Unit	Quick Connection Guide
AC Adaptor/Power Cord	Cable Connection Guide
IR Repeater x2	Worldwide Warranty Booklet
Manganese Battery for Remote Commander Unit x2	Audio Cable (1.0 m)
Operation Manual CD-ROM (Japanese, English, French, Spanish, Italian, German, Portuguese, Simplified Chinese)	S-Video Cable (1.5 m)
	Mini DIN 7-pin to RCA Conversion Connector x2