

# KEY FEATURES AND BENEFITS

The PCS-G50 and PCS-G70 Series of Videoconferencing Systems were designed to meet the needs of boardrooms, large venue halls, and right down to the small to medium businesses that look for videoconferencing equipment to save time, money and provide best solutions. These two flagship models share many of the same features and functions as one another, but the PCS-G70 series has the most features while the PCS-G50 in comparison is considered the little brother to the PCS-G70.

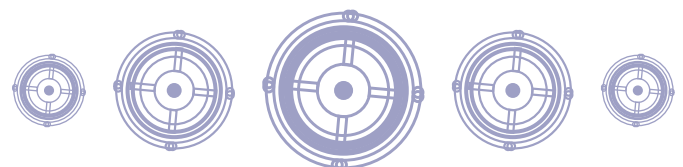
The PCS-G50 boasts a maximum video transfer rate of 4 Mbps over an IP network, and it provides very high resolution. It can also switch to the H.264 video codec for higher throughput or revert to previous version of the ITU-T videoconferencing codes to maintain compatibility with legacy systems. Applications that the PCS-G50 can be used for is Corporate/Government and SMB, Healthcare/Teaching Hospitals, or for Education to connect teachers and students via distance learning.

The PCS-G70 also boasts a maximum video transfer rate of 4 Mbps over an IP network as the PCS-G50 model. The PCS-G50/G70, with its internal MCU (Multi-Control Unit) capability, supports simultaneous multi-point videoconferences with six (6) endpoints and a maximum of 10 endpoints when two PCS-G50/G70 units are cascaded. The PCS-G50/G70 also bridges mixed calls between an ISDN network and an IP network. Other key features of the PCS-G50/G70 include site-name display function. The difference between the two models is that the PCS-G70 supports up to five monitors that display far-end sites in addition to the main monitor, a dual-camera input, and a tracking camera which can be used to provide more video coverage.

As we enter a new era of visual communication, the features of both PCS-G50 and PCS-G70 Series of room integration models will meet user needs for high-end and large-venue videoconferencing applications all at very affordable prices.



Simulated images



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FEATURES	PCS-G50	PCS-G70	BENEFITS
High Speed Network Connection	Up to 4Mbps IP or 1.5Mbps ISDN (optional PCSA-PRI)	Up to 4Mbps IP or 1.5Mbps ISDN (optional PCSA-PRI)	The codec engine of the PCS-G50/G70 is capable to achieve Maximum 4Mbps bandwidth of IP connection that is currently the industry's highest level. For the ISDN connection, the PCS-G50/G70 series support the PRI I/F of E1 (2Mbps) / T1 (1.5Mbps).
High Resolution and Motion Video	H.263 4CIF 30fps, H.264 2SIF 60fps, H.263 2SIF 60fps	H.263 4CIF 30fps, H.264 2SIF 60fps, H.263 2SIF 60fps	The PCS-G50/G70 support the 4CIF format at Maximum 30fps in H.263 Video Encode Mode and the interlaced SIF format (60 fields per second) in H.264 Video Encode Mode. With this high resolution video encode modes at a high video bitrate such as 4Mbps the PCS-G50/G70 will provide high video quality as standard TVs.
16:9 3CCD High Quality Camera Support	Yes (optional BRC-300)	Yes (optional BRC-300)	The PCS-G50/G70 supports the BRC-300, the 16:9 / 4:3 Switchable 3CCD high quality camera. It can control the Pan, Tilt and Zoom etc of the BRC-300 in the same way as the standard camera. With high quality video input from the BRC-300 and powerful encoding capability, the PCS-G50/G70 will provide an excellent video.
Tracking camera support	No	<b>Yes (optional PCSA-CTG70)</b>	The optional tracking camera of the PCS-G50/G70 supports Speaker Tracking Mode, Next Face Centering Mode, and Presenter Mode, and no need to manually control the camera so that the person speaking is visible at the far end during a videoconference.
Superb Sound	14KHz MPEG4 AAC	14KHz MPEG4 AAC	The PCS-G50/G70 reproduce clear and natural-sounding audio using MPEG-4 AAC (Advanced Audio Coding) at 14KHz. A built-in echo cancellation system minimizes unwanted echoes during a videoconference. The PCS-G50/G70 are also compatible with a number of SONY external microphones and speakers, including unidirectional and omnidirectional models. Professional A/V integrators will particularly appreciate the power and flexibility of this system to be customized for best application match. For exceptional sound quality in rooms with conference tables in a U-shape or in a classroom layout, the optional unidirectional PCSA-A7P4 microphones are ideal. Up to 80 units can be daisy chained so that all participants sitting near a microphone can be heard.
Multi-Point Videoconferencing at up to 10 Sites	Yes (optional PCSA-M3G50, PCSA-MOG50)	Yes (optional PCSA-M3G70, PCSA-MOG70)	Using optional MCU software, the PCS-G50/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. It can also support videoconferences in which the connections are a combination of IP and ISDN using a unique bridging function. Two PCS-G50/G70 units - each installed with the optional MCU (H.323) software - can be cascaded with an IP connection to support a maximum of 10 simultaneous sites.

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High Quality Video and Audio in Multipoint Conference	H.264 video and MPEG4 AAC audio (optional PCSA-M3G50, PCSA-MOG50)	H.264 video and MPEG4 AAC audio (optional PCSA-M3G70, PCSA-MOG70)	The PCS-G50/G70 can achieve a maximum 30 fps in the video encode, and supports H.264 video encode mode and MPEG4 AAC mono audio encode mode in the multi-point operation. Therefore high quality video and audio can be maintained even in multi-point conferences.
H.320/323 Bridging and Speed Matching	Yes (optional PCSA-M3G50, PCSA-MOG50)	Yes (optional PCSA-M3G70, PCSA-MOG70)	H.320/323 Bridging function is supported on the PCS-G50/G70 in the same way as the PCS-1. In addition the PCS-G50/G70 can accommodate two different speeds of the connections for H.320 and H.323 respectively. With this function it's possible to avoid lowering the speed of the H.323 connection to match the H.320 connection. Thus the system performance can be maintained.
Five Monitor Out	No	<b>Yes</b> (optional PCSA-M3G70, PCSA-MOG70)	The PCS-G70 has a 5 monitor out function for up to 5 sites when it works as an MCU. With this function good quality of video can be viewed at the terminals and MCU site.
Site Names Display	Yes (optional PCSA-M3G50, PCSA-MOG50)	Yes (optional PCSA-M3G70, PCSA-MOG70)	The PCS-G50/G70 are capable to display the site names on the display even in the multi-way split display mode in multi-point conferences. This will greatly help the participants in multi-point conferences to understand the source of the video.
Dual Video Supported	No	<b>Yes</b>	The PCS-G70 has both a Dual Camera Input and H.239 Dual Video Stream function. These functions give the PCS-G70 a scalability to be applied to a larger scale conference room, a high quality boardroom and a class room in a higher grade school and so on.
Audiovisual (A/V) Recording to Memory Stick® Media	Yes (optional Memory Stick media)	Yes (optional Memory Stick media)	Capturing audio and video during a videoconference can be important, so that a record of what was conveyed during a conference is kept. With the PCS-G50/G70, audio and video displayed on the main monitor can be recorded directly to an optional Memory Stick media in MPEG-4 format and can be played back on any PC using QuickTime® media player.
Memory Stick® Media Support	Yes *In addition to Memory Stick, Memory Stick PRO™ and Memory Stick DUO™ media with an adaptor can be used.	Yes *In addition to Memory Stick, Memory Stick PRO™ and Memory Stick DUO™ media with an adaptor can be used.	Private phone books can be created and stored on optional Memory Stick media. By simply inserting the Memory Stick media into the PCS-G50/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 installing and updating software.
Data-Sharing Capabilities/ Digital Whiteboard Support	Yes (optional PCSA-DSB1S Mimio Xi whiteboard recorder)	Yes (optional PCSA-DSB1S Mimio Xi whiteboard recorder)	With the PCS-G50/G70, data originated on a PC can be shared with your videoconferencing counterparts, making communication even more effective. Any image that can be displayed on a PC can be sent or received in native XGA resolution, allowing all parties to share data during a videoconference. In addition, information drawn up on a digital whiteboard can also be viewed in real time by all parties participating in a videoconference or captured and stored for later reference.

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Streaming to multiple PC	Yes	Yes	To broadcast your videoconferences to a large audience, for example, with educational lectures or live corporate speeches, the PCS-G50/G70 features a built-in streaming function that allows remote users to log on from any PC using an Internet browser. Simply enter the URL provided by the PCS-G50/G70 administrator into your Internet browser, and you can have instant access to the active audio and video from the PCS-G50/G70. With this useful feature, hundreds of people with access privileges can view and listen to your videoconference session from almost any location that has access to a network.
Secure Videoconferencing - Advanced Encryption Standard (AES)	Yes 128bit AES (H.233/H.234/H.235)	Yes 128bit AES (H.233/H.234/H.235)	Secure videoconferencing over a network is possible because the PCS-G50/G70 support 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.
Enhanced QoS	FEC, ARQ, ARC	FEC, ARQ, ARC	The PCS-G50/G70 now provides a FEC (Forward Error Correction) feature to enhance the QoS function in addition to the ARC (Adaptive Rate Control) and Real-time ARQ (Auto Repeat request). The PCS-G50/G70 will utilize the above three methods simultaneously in an optimum ratio and maintain a very stable connection.
Unique Design	Yes	Yes	Having succeeded to the two piece design from PCS-1, the PCS-G50/G70 have a sophisticated design to fit into a stylish conference room. The codec unit is designed to be placed vertically or flat on its side. Therefore it can be smartly placed in any space with the codec stand and also put into the normal rack.
Easy-to-Use Remote Commander® Unit/Intuitive GUI	Yes	Yes	The PCS-G50/G70 have 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-G50/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.