



Since 1987

Features: PCS-G50

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High-Quality Video/High-Speed Network Connection	The PCS-G50 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. When video encoding is in accordance with the H.263 protocol, the PCS-G50 supports the 4CIF format at a maximum frame rate of 30 fps, and when in H.264 protocol, it supports the interlaced SIF format at 60 fields per second.*1 In addition, the PCS-G50 can achieve a maximum bandwidth of 4 Mb/s with an IP connection, and up to 768 Kb/s with an ISDN connection using an optional PCSA-B768S ISDN unit. This combination of high-quality codec and high-speed network support provides video quality comparable to standard TV broadcasts. *1 The PCS-G50P supports a maximum of 50 fields per second in interlaced SIF format. Optional PCSA-PRI (1.5Mbps ISDN) is supported.
Multi-Point Videoconferencing at up to 10 Sites	Using optional MCU software, the PCS-G50 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. And because the PCS-G50 has a "speedmatching" function, it maximizes performance by not reducing the higher speed connection to match the lower speed connection, as is done with some videoconferencing systems. Moreover, two PCS-G50 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. What is unique about the PCS-G50 is that it provides high quality, H.264 CIF video and clear MPEG-4 AAC audio, even in a multi-point videoconference. And of course, the PCS-G50 allows users to expand from a peer-to-peer videoconference to a multi-point videoconference. *2 When adding a new endpoint on the same network (IP or ISDN), the system will default to the lowest resolution video standard of all endpoints.
Site-Name Display	During multi-point videoconferences, it can be difficult to keep track of all of the participants; however, with the PCS-G50 site-name display function, this is no longer the case. The PCS-G50 can display anything from company or branch names to geographical locations on a monitor, allowing videoconference participants to keep track of all parties.
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-G50. Supporting both 4-screen and 6-screen continuous-presence modes, the PCS-G50 can display the most appropriate pattern to match the number of sites that are connected. In both full-screen and continuous-presence modes, the following two display options are available:
Voice Switching	The PCS-G50 defaults to voice switching, which displays the far-end site that is actively talking on the monitor when the unit is in full-screen mode. In continuous-presence mode, the site that is actively speaking is displayed on the largest of the six sub screens, and the near-end site is displayed on the sub screen where the original far-end site was.
Fixed Site	As its name suggests, the selected far-end site is continuously displayed on the monitor when the unit is in full-screen mode. In continuous-presence mode the selected far-end site is displayed in the largest of the six sub screens, and the other sites are fixed as well.
Audiovisual (AV) Recording to Memory Stick (TM) Media	Capturing audio and video during a videoconference is important to keep a record of what was conveyed during a conference. With the PCS-G50, audio and video displayed on the main monitor can be recorded*3 directly to Memory Stick media in MPEG-4 format and can be played back on any PC using QuickTime media player. *3 AV recording is not supported when AES is active. Also, graphical data cannot be recorded.
H.239 Data-Sharing Capabilities/Digital Whiteboard Support	Data originated on your 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*4 in native XGA resolution, allowing all parties to share data during a videoconference. In addition, information drawn up on a digital whiteboard*5 can also be viewed in real time by all

parties participating in a videoconference or captured and stored for later reference. *4 Sending data requires the optional PCSA-DSB1S Data Solution Box (DSB); however, the DSB is not required for receiving data *5 Please contact your local Sony sales office for information on compatible digital whiteboards.

Superb Sound	The PCS-G50 reproduces clear and natural-sounding audio using MPEG-4 AAC (Advanced Audio Coding) at 14 KHz. A built-in echo cancellation system minimizes unwanted echoes during a videoconference. The PCS-G50 is 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-A7 microphone is ideal. Up to 40 units can be daisy chained to ensure that all participants sitting near a microphone can be heard.
Stylish Design	With its elegant design and optional stands for both the camera unit and the codec unit, the PCS-G50 can fit into even the classiest of conference rooms
Easy-to-Use Remote Commander Unit/Intuitive GUI	The PCS-G50 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-G50 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.
Memory Stick (TM) Support*6	Private phone books can be created and stored on Memory Stick media. By simply inserting the Memory Stick media into the PCS-G50, 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. *6 In addition to Memory Stick, Memory Stick PRO (TM) and Memory Stick DUO (TM) with an adaptor can be used.
Secure Videoconferencing - H.235 Advanced Encryption Standard (AES)	Secure videoconferencing over a network is possible because the PCS-G50 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.
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-G50 provides three advanced functions to enhance QoS over a network:
Forward Error Correction (FEC)	The PCS-G50 employs an FEC function that corrects errors in transmission at the receiving end. If a transmission error occurs, the PCS-G50 can repair the data and accurately reproduce the original audio and video.
Adaptive Rate Control (ARC)	The adaptive rate control function automatically varies the video data transfer rate to meet changing network conditions. It also selects the most appropriate frame rates, which helps prevent audio and video breakup.
Real-time Auto Repeat Request (ARQ)	The real-time ARQ function recovers lost IP packets. This is achieved by buffering the packets at the encoder and resending any that are lost. This feature helps maintain audio and video quality, and helps prevent picture collapse even under high network traffic conditions

Call 630-692-2702 or email: sales@dccil.com



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