

PCS-XG100S

Full HD Videoconferencing
System (codec only)



Overview

Collaborate more efficiently with this powerful, easy to use videoconferencing system that's ideal for mission-critical business communications plus broadcast and higher education applications.

This powerful yet easy-to-use Full HD videoconferencing system offers superb picture and sound quality, plus versatile collaboration tools and flexible configuration.

Smooth, detail-packed Full HD (1080p) images at up to 60 fps make the PCS-XG100S ideal for mission-critical business communications, as well as broadcast, higher education and medical/healthcare applications.

Crystal-clear images from the PTZ camera (not included with PCS-XG100S) are complemented by clear, natural sounding stereo audio. 'Dual stream' Full HD video and PC presentations can be shared seamlessly with remote locations at 30 fps.

See 'Near' and 'Far' camera images plus PC presentations with exceptional layout flexibility on one, two or three connected video monitors.

The optional integrated MCU allows multi-point conferences over IP & ISDN between up to six sites, expandable to nine sites over

IP via a simple software option installation. What's more, two PCS-XG100S systems can be cascaded without additional hardware to link 16 sites simultaneously. HD conferences can be recorded to USB memory for easy sharing and review.

Set-up is refreshingly straightforward, with quick booting so you're ready for business faster. Operation is easy, too: just select a contact using the supplied remote commander to launch your conference at a touch.

Also available as PCS-XG100/PCS-XG100H 'bundled version' with SRG-120DH PTZ camera.

Features

Express yourself clearly with Full HD 60p images

Communicate more clearly and effectively with smooth, detail-packed video conferences at up to Full HD (1920 x 1080) 60p resolution for exceptional realism. You'll even enjoy HD picture quality at low bitrates when network bandwidth is limited.

Smooth 30fps Full HD dual streaming

Send dual HD 1080p video streams simultaneously (camera image and PC presentation) at a smooth 30 frames per second in accordance with H.239 standards. The other conference party can see both Full HD (1920 x 1080) images simultaneously on two connected monitors.

Instantly recall up to 100 camera positions

The PCS-XG100S allows instant recall of up to 100 pre-programmed positions from a connected PTZ camera (not included), permitting quick transition from one camera set-up to another.

See everything with triple monitor mode

Support for three video monitors allows full-size simultaneous views of 'Far' and 'Near' video sources (via HDMI) on two

separate screens, plus a third screen (via DVI-I) showing smooth, crisply detailed PC presentations.

Three images, one monitor

If you've only got one monitor, up to three separate images (Far, Near and PC) can be displayed simultaneously with a choice of screen layout options: Full Screen, PinP, PandP, Side by Side or PandPandP.

High quality stereo audio

Two supplied PCS-A1 mono microphones ensure more natural, lifelike conferences with crisp, clear stereo sound. The built-in echo canceller makes speech even more natural-sounding and easier to follow.

Easy multi-point conferences

The in-built Multipoint Control Unit (MCU) allows simultaneous connection between up to six videoconferencing sites. Adding optional PCSA-MCG109 software expands multi-point capabilities to link nine sites via IP connection. Two PCS-XG100S units can also be cascaded to support a maximum of 16 sites, with no additional hardware needed.

Continuous Presence mode with Voice Activation Switching

See everyone clearly with support for three-, four-, six- or nine-screen continuous-presence modes. Voice Activated Switching automatically displays the active speaker on the largest sub screen alongside other participants, or can display the current speaker in full-screen mode.

Easy usability with Video Annotation

Add an optional tablet/pen interface to sketch notes and highlight your point clearly on shared data presentations.

Stable, consistent conferencing

Enjoy stable transmission of HD video, voice and data with

Enhanced Intelligent QoS™ (Quality of Service) Functions that ensure fast, consistent data throughput that adapts transmission to take account of changing network conditions.

USB recording

Record HD video (720p), voice and PC presentations direct to USB memory for easy storing and sharing.

Second camera support

Add up to two optional PTZ cameras (Sony SRG/BRC/EVI series models), giving greater freedom to ensure every meeting participant is adequately covered – for example when seated around a boardroom table.

HDMI input

Easily connect an additional video source – such as a camcorder or document camera – via HDMI.

Highly secure

Keep your business private, just the way it should be. Support for 128-bit AES encryption ensures safe, highly secure voice/video/data conferences with other compliant systems.

Easy operation and quick start-up

Enjoy simple operation with the attractive, intuitive on-screen interface. Quick start-up from initial switch-on has you ready to start conferencing in less than a minute – far faster than many other systems.

One-touch Dialling

Enjoy the speed and convenience of one-touch dialling with the newly designed RFZ Remote Commander unit that does not have to be pointed directly towards the system. Just browse and select from the thumbnail image any of up to 1000 stored contacts: up to four regularly-accessed contacts can be shown on the home screen.

Easily switch between LAN and WAN connections

Dual network interfaces allow easy switching between office-base LAN and WAN connections – saving time if you need to use the system both within an intranet environment and over the public Internet. Multi-point connections can also be made between LAN and WAN environments.

Specifications

Camera SRG-120DH (optional)

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| Image Sensor | 1/2.8-type "Exmor" CMOS image sensor |
| Image Sensor (Number of Effective Pixels) | Approx. 2.1 Megapixels |
| Signal System | 1080/59.94p,50p,29.97p,25p 1080/59.94i,50i 720/59.94p,50p,29.97p,25p |
| Minimum Illumination (50IRE) | 1.8 lx (50IRE, F1.8, 30fps) |
| S/N Ratio | 50 dB |
| Gain | Auto/Manual (0 to +43 dB) |
| Zoom Ratio | x240 zoom (x20 optical zoom, x12 digital zoom) |
| | 1/1 to 1/10000 sec(59.94 Hz) |

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| Shutter Speed | system) 1/1 to 1/10000 sec(50Hz system) |
| Exposure Control | Auto, Manual, Priority AE(Shutter,Iris), Exposure compensation, Blight |
| White Balance | Auto, Indoor, Outdoor, One-push auto, ATW, Manual |
| Optical Zoom | 12x |
| Digital Zoom | 12x |
| Focusing System | Auto/Manual |
| Horizontal Viewing Angle | 71 degree(Wide) |
| Focal Length | f=3.9mm(wide) to 46.8 mm(Tele) F1.8 to 2.0 |
| Minimum Object Distance | 10 mm(Wide)~ 1500 mm(Tele) |
| Pan/Tilt Angle | Pan: $\pm 100^\circ$ Tilt: $\pm 25^\circ$ |
| Pan/Tilt Speed (Max.) | Pan 300°/sec Tilt 126°/sec |
| Preset Position | 100 (saved in codec unit) |

Camera features (SRG-120DH optional)

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| Auto ICR | No |
| Wide-D | Yes |
| Image Stabilization | No |
| Image Flip | No |
| Auto Power Off | No |
| Night Power Off | No |

Key Features

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| Multipoint Capability | <p>Up to 9 sites (H.323) with optional software PCSA-MCG109. (6 sites with H.320)</p> <p>10 to 16 sites (H.323) requires two PCS-XG100S units with optional software PCSA-MCG109 using cascaded connection. (10 sites with H.320)</p> |
| Data Sharing | <p>PC images up to 1080p resolution is supported</p> <p>Video annotation function</p> |
| Lip Synchronization | AUTO/OFF |
| Mic Off Function | ON/OFF |
| Recording Feature | HD 720p |

Video

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| Maximum Frame Rate | H.263 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps, 1080p 60 fps |
| Communication Protocol Standards | H.263, H.263+, H.263++, H.264, H.264 High profile, MPEG-4 SP@L3 |
| Resolution | 4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) 16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080p (1920 x 1080) |
| Bit Rate | 64 kbps to 16,000 kbps |
| Screen Layout | Full Screen, PinP, PandP, SideBySide, PandPandP |

Audio

MPEG-4 AAC Stereo: 22 kHz at 192 kbps (IP only)
MPEG-4 AAC Mono: 14 kHz at 48 kbps, 64 kbps, 96 kbps

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| Bandwidth and Coding | MPEG-4 AAC Mono: 22 kHz at 64 kbps, 96 kbps (IP only) G.711: 3.4 kHz at 56 kbps, 64 kbps G.722: 7.0 kHz at 48 kbps, 56 kbps, 64 kbps G.728: 3.4 kHz at 16 kbps |
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| Other Features | Stereo echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction |
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Network

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| Protocols | TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP |
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| QoS (Quality of Service) | Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), IP Precedence, DiffServe |
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| Other Network Features | Packet reordering, TCP/UDP port setting, NAT, PPPoE, UDP shaping, Encryption*, Auto gatekeeper discovery, UPnP, URI Dialing, IPv6 |
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Interface

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| Video Input | External video inputs (HDMI x 1, DVI-I x 2) |
| Video Output | HDMI x 2, DVI-I x 1 |
| Control Input | RS-232C x 1 |
| Audio Input | External analog microphone input Mini-jack (Plug in power) x 6 (L/R) HDMI (video, audio) x 1 Audio Input (MIC/AUX) x 2 (Phono jack, stereo) |
| Audio Output | HDMI (video, audio) x 1, Line Output (Phono jack, stereo) x 1, REC Output (Phono jack, stereo) x 1 |
| Network Port | 10BASE-T/100BASE-TX/1000BASE-T x 2, ISDN Unit Interface x 1 |
| USB Slots | 2 (Pen Tablet, USB Memory) |
| Maintenance Interface | RS-232C x 1 |

Standard

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| Communication Protocol Standards | ITU-T H.320, H.323, IETF SIP |
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| ITU-T (excluding audio/video standards) | H.231, H.241 H.242, H.243, H.245, H.350, H.460.18, H.460.19 |
| IETF | RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, RFC3984, RFC4573, RFC4587, RFC4629, RFC4856, RFC4628, RFC5168 |
| Encryption* | H.233, H.234, H.235 ver.3 |
| Far End Camera Control | H.224, H.281 |
| Frame Format | H.221, BONDING, H.225.0 |
| Dual Stream | H.239 (video and presentation data) |

General

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|-----------------------------|------------------------------------------------------|
| Power Requirements | DC 19.5 V (AC Adapter : AC 100 V to 240 V, 50/60 Hz) |
| Power Consumption | 58.5W |
| Power Consumption (Standby) | 23.4W |
| Operating | 5°C to 35°C |

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| Temperature | 41°F to 95°F |
| Storage Temperature | -20°C to +60°C -4°F to +140°F |
| Operating Humidity | 20% to 80% (no condensation) |
| Storage Humidity | 20% to 80% (no condensation) |
| Dimensions | Codec: Approx. 370 x 60 x 244 mm (excluding protrusions) Camera unit (SRG-120DH optional camera): Approx. 153 x 156 x 153mm (excluding protrusions) |
| Mass | Codec: Approx. 2.3 kg Camera Unit (SRG-120DH optional camera): Approx. 1.45 kg |
| Supplied Accessories | PCS-A1 microphones (2), AC adapter (1), HDMI cable (3m) (1), RF Remote Commander Unit (1), CD-ROM (Operating instructions, Before using this unit, Quick connection guide) (1), Installation Guide (1), Warranty booklet (1), Camera cable (3m) for HD camera (1) |

Note

Encryption is not available in the models supplied in some regions. Please consult with local representative.

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Related products



PCS-MCS1

HD Multipoint Control Unit (MCU) System



SRG-300H

Full HD remotely operated PTZ camera



SRG-120DH

Full HD remotely operated PTZ camera



Vision Presenter

Interactive presentation solution



PCS-MEP

IPELA Communication Mobile app for Android, iPhone®, iPad®, iPad Air™ and iPad mini™



PCS-XC1

Portable wireless HD video conferencing system



PCS-XL55

HD Desktop Video Conferencing System

Gallery

