

PCS-XG77S

HD Videoconferencing System
(codec only)



Overview

Collaborate more efficiently with this easy to use videoconferencing system that's ideal for general business communications and distance learning applications.

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

Smoothly detailed HD (720p) images at up to 60 fps make the PCS-XG77S ideal for a wide range of virtual meeting and distance learning applications.

Crystal-clear pictures from the PTZ camera (not included with PCS-XG77S) are complemented by clear, natural sounding audio. 'Dual stream' video and PC presentations can be shared seamlessly with remote locations at 30 fps.

See camera images plus PC presentations on one or two connected video monitors with a generous choice of screen layout options.

The optional integrated MCU allows multi-point conferences over IP & ISDN between up to six sites via a simple software option installation. What's more, two PCS-XG77S systems can be

cascaded without additional hardware to link 10 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 even 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-XG77/PCS-XG77H 'bundled version' with SRG-120DH PTZ camera.

Features

Express yourself with clear HD images

Communicate more clearly and effectively with smooth, detail-packed video conferences at HD 720p resolution. You'll even enjoy superior picture quality at low bitrates when network bandwidth is limited. Video quality can be readily upgraded to Full HD 1080p by adding the optional PCSA-RXG77.

Smooth 30fps dual streaming

Send dual video streams simultaneously (camera image and PC presentation) at a smooth 30 frames per second (SXGA) in accordance with H.239 standards. The other conference party can see both images simultaneously on two connected monitors. Upgrade to Full HD 1080p with the optional PCSA-RXG77.

Instantly recall up to 100 camera positions

The PCS-XG77S 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 dual monitor mode

Support for up to two video monitors (HDMI and DVI-I) allows full-size simultaneous views of video and shared PC presentations.

Versatile display options

See video and shared PC views with choice of screen layout options: Full Screen, PinP, PandP, Side by Side or PandP.

High quality audio

The supplied PCS-A1 microphone enables more natural, lifelike conferences with crisp, clear sound. The codec supports up to 6 microphones. The built-in stereo 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-MCG106 software expands multi-point capabilities to link six sites via IP connection. Two PCS-XG77S units can also be cascaded to support a maximum of 10 sites, with no additional hardware needed.

Continuous Presence mode with Voice Activation Switching

See everyone clearly with support for three-, four- or six-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.

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.

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| Image Sensor | 1/2.8 Exmor CMOS |
| 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) |
| Shutter Speed | 1/1 to 1/10000 sec(59.94 Hz 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 |

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| 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

Up to 6 sites (H.323) with optional software PCSA-MCG106.

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| Multipoint Capability | 7 to 10 sites (H.323) requires two PCS-XG77S units with optional software PCSA-MCG106 using cascaded connection. |
| Data Sharing | PC images up to SAGA resolution is supported (1080p with PCSA-RXG77) Video annotation function |
| 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 60fps (with PCSA-RXG77) |
| Communication Protocol Standards | H.263, H.263+, H.263++, H.264, H.264 High profile, MPEG-4 SP@L3 |
| | 4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) 16:9 wCIF/w288p (512 x 288), w432p |

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| Resolution | (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080p (1920 x 1080) with PCSA-RXG77 |
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| Bit Rate | 64 kbps to 4,096 kbps (5,120 kbps with PCSA-MCG106 and PCSA-RXG77) |
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| Screen Layout | Full Screen, PinP, PandP, SideBySide, PandPandP |
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Audio

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| Bandwidth and Coding | <p>MPEG-4 AAC Stereo: 22 kHz at 192 kbps (IP only)</p> <p>MPEG-4 AAC Mono: 14 kHz at 48 kbps, 64 kbps, 96 kbps</p> <p>MPEG-4 AAC Mono: 22 kHz at 64 kbps, 96 kbps (IP only)</p> <p>G.711: 3.4 kHz at 56 kbps, 64 kbps</p> <p>G.722: 7.0 kHz at 48 kbps, 56 kbps, 64 kbps</p> <p>G.728: 3.4 kHz at 16 kbps</p> |
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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 |
| QoS (Quality of Service) | Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), IP Precedence, DiffServe |
| Other Network Features | Packet reordering, TCP/UDP port setting, NAT, PPPoE, UDP shaping, Encryption*, Auto gatekeeper discovery, UPnP, URI Dialing, IPv6 |

Interface

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| Video Input | External video inputs (DVI-I x 2) |
| Video Output | HDMI x 1, 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) |
| | HDMI (video, audio) x 1, Line Output (Phono jack, stereo) x 1, |

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| Audio Output | REC Output (Phono jack, stereo) x 1 |
| Network Port | 10BASE-T/100BASE-TX/1000BASE-T x 1, ISDN Unit Interface x 1 |
| USB Slots | 2 (Pen Tablet, USB Memory) |
| Maintenance Interface | RS-232C x 1 |
| <h2>Standard</h2> | |
| Communication Protocol Standards | ITU-T H.320, H.323, IETF SIP |
| 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 |

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| Dual Stream | H.239 (video and presentation data) |
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General

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| Power Requirements | DC 19.5 V (AC Adapter : AC 100 V to 240 V, 50/60 Hz) |
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| Power Consumption | 58.5W |
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| Power Consumption (Standby) | 23.4W |
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| Operating Temperature | 5°C to 35°C 41°F to 95°F |
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| Storage Temperature | -20°C to +60°C -4°F to +140°F |
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| Operating Humidity | 20% to 80% (no condensation) |
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| Storage Humidity | 20% to 80% (no condensation) |
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| Dimensions | Codec: Approx. 370 x 60 x 244 mm (excluding protrusions) Camera unit (SRG-120DH optional camera): Approx. 153 x 156 x 153 mm (excluding protrusions) |
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| Mass | Codec: Approx. 2.3 kg Camera Unit (SRG-120DH optional) |
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camera): Approx. 1.45 kg

Supplied Accessories

PCS-A1 microphones (1), AC adapter (1), HDMI cable (3m) (1), RF Remote Commander Unit (1), CD-ROM (Operating instructions, Before using this unit, Quick connection guide) (1), Before using this unit (1), Installation Guide (1), Quick connection guide (1), Warranty booklet (1), Camera cable (3m) for HD camera (1)

Note

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

Related products



PCS-MCS1

HD Multipoint Control Unit (MCU) System



SRG-300H

Full HD remotely operated PTZ camera



PCS-XC1

Portable wireless HD video conferencing system



PCS-XL55

HD Desktop Video Conferencing System

Gallery

