PCS-XG100H
& PCS-XG77H
high definition
video conferencing
systems

PTZ camera included: For sharp HD quality pictures (also available as PCS-XG100S/XG77S 'codec only' version without PTZ camera).

Exceptional layout flexibility: See 'near' and 'far' camera images plus PC presentations on one, two or three connected video monitors.

Up to 16-multipoint conferencing – PCS-XG100H only: Integrated MCU allows multi-point conferences over ISDN or IP for up to six or nine sites via a simple software upgrade. With two PCS-XG100H systems you can link up to 16 sites, simultaneously.

Reliable video conferencing, wherever you are

Success in business depends on effective communication, wherever you, your colleagues, partners and customers are. The PCS-XG100H and PCS-XG77H video conferencing systems provide the reliability and security that any business needs, as well as the exceptional picture and sound quality you'd expect from Sony.

Smart features, enhanced collaboration

Users can securely and remotely connect to video conferences via laptops or mobile devices like smartphones and tablets for truly unified communication. Video is captured in crystal clear HD with a high spec PTZ camera, while stereo audio keeps your voice communications sharp. Dual streaming also allows video and PC presentations to be shared simultaneously – stream HD conferences as live webcasts or record to USB memory for later review.

* Available from version 1.42 and later

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 quality picture quality at low bit rates when network bandwidth is limited. (NB: PCS-XG77H requires optional software to display 1080p 60 fps).

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.

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

Stay connected
Easy, wireless video conferencing from your tablet or smartphone with PCS-MEP with optional software (compatible with iOS and Android).

Easy multi-point conferences
The in-built Multipoint Control Unit (MCU) allows simultaneous connection between up to six or nine sites adding either the optional PCSA-MCG106 or PCSA-MCG109. Two PCS-XG100H 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.

HD multicast streaming
Stream video conferences across your corporate network as 'live' webcasts at 720p resolution for viewing on any networked PC and web browser.

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

Second camera support
Adding an optional second PTZ camera (Sony SRG/BRC/EVI series models) gives 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.

Ideal for:
- Mission-critical business communications
- Virtual meetings and collaborative projects
- Remote working
- Medical consulting
- Distance learning and training
- Higher education
- Remote broadcast interviews

Energise your business communications with smarter, more satisfying collaboration

Specifications

Camera (SRG-120DH)	PCS-XG100H	PCS-XG77H
Image Sensor	1/2.8-type "Exmor" CMOS image sensor	
Image Sensor (Number of effective pixels)	Approx. 2.1 Megapixels	
Output Pixels (H x V)	1920 x 1080	
Frame Rate	59.94 fps	
S/N Ratio	50 dB	
Brightness Control	Auto/Manual	
Zoom Ratio	x144 zoom (12X optical zoom, 12X digital zoom)	
Focusing System	Auto/Manual	
Horizontal Viewing Angle	Approx. 71°	
Focal Length	f = 3.9 mm to 46.8 mm	
F-Number	F1.8 to F2.0	
Pan/Tilt Angle	Pan ±100°/Tilt +25°	
Preset Position	16 positions	
Power Supply	Supplied from Codec Unit	
Other Features	Auto Gain Control, View-DR, XDNR, Backlight Compensation	

Key Features	PCS-XG100H	PCS-XG77H
Multipoint Capability	Up to 6 sites (H.320/H.323) with optional software PCSA-MCG106. Up to 9 sites (H323) with optional software PCSA-MCG109. 10 to 16 sites requires two PCS-XG100H units cascaded with optional software (10 sites with H.320) (16 sites with H.323)	Up to 6 sites (H.320/H.323) with optional software PCSA-MCG106. 10 sites requires two PCS-XG77H units cascaded with optional software
Data Sharing	PC images up to 1080p resolution is supported	PC images up to 1080p resolution is supported with optional license (SXGA standard)
	Video annotation function	
Lip Synchronization	AUTO/OFF	
Mic Off Function	ON/OFF	
Streaming/Recording Feature	HD 720p	

Video	PCS-XG100H	PCS-XG77H
Maximum Frame Rate	H.261 QCIF 30 fps, CIF 30 fps, 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	H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps
Communication Protocol Standards	H.261*1, 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)	16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080p (1920 x 1080) with software option
Bit Rate	64 kbps to 16,000 kbps	64 kbps to 4,096 kbps
Screen Layout	Full Screen, PinP, PandP, SideBySide, PandPandP	

Audio	PCS-XG100H	PCS-XG77H
Bandwidth and Coding	MPEG-4 AAC Stereo: 22 kHz at 192 kbps (IP only) MPEG-4 AAC Mono: 14 kHz at 48 kbps, 64 kbps, 96 kbps 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	
Other Features	Stereo echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction	

Network	PCS-XG100H	PCS-XG77H
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	PCS-XG100H	PCS-XG77H
Video Input	External video inputs (HDMI x 1, DVI-I x 2)	External video inputs (DVI-I x 2)
Video Output	HDMI x 2, DVI-I x 1	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)	
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	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	

Standard	PCS-XG100H	PCS-XG77H
Communication Protocol Standards	ITU-T H.320*1, 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	
Dual Stream	H.239 (video and presentation data)	

General	PCS-XG100H	PCS-XG77H
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 Temperature	5°C to 35°C / 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 (W x H x D)	Codec: Approx. 370 x 60 x 244 mm (excluding protrusions) Camera unit (SRG-120DH): Approx. 153 × 156 × 153 mm (excluding protrusions)	
Mass	Codec: Approx. 2.3 kg Camera Unit (SRG-120DH) (not optional only in "H" version): Approx. 1.45 kg (3 lb 3.1 oz)	
Supplied Accessories	PCS-A1 microphones (2) (PCS-XG100H), PCS-A1 microphones (1) (PCS-XG77H), AC adapter (1), HDMI cable (3m) (1), RF Remote Commander Unit (1), Batteries for Remote Commander unit (2), 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)	

*1 H.261 in H.323 will be available as V2.0

Optional Accessories

PCS-A1
Omnidirectional Microphone

SRG-300H
1080p/60 HD Pan/Tilt/Zoom Camera

PCSA-B384S
3-line ISDN unit (up to 6B channels)

PCSA-B768S
6-line ISDN unit (up to 12B channels)

PCS-MEP
IPELA Communication Mobile app

For full features visit www.pro.sony.eu/products/visual-communications

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