

SONY



PCS-XG100 / PCS-XG100S
PCS-XG77 / PCS-XG77S

HD Visual Communication Systems



IPELA *Exmor*

View-DR

Upgrade Your Daily Business Communication with Sony's 1080/60p Full HD Visual Communication Packages

With the rapid development and spread of IT and network technologies, visual communication has become an indispensable daily business tool both internally and externally for every organization.

Sony offers two full HD visual communication system packages: the PCS-XG100 and PCS-XG77. The PCS-XG100 package optimally combines a PCS-XG100S video codec unit and SRG-120DH Full HD PTZ (Pan, Tilt, Zoom) camera system. The PCS-XG77 package combines a PCS-XG77S video codec unit and the same SRG-120DH PTZ camera system.

The PCS-XG100 and PCS-XG77 deliver industry-leading stunning 1080/60p*¹ full HD images. In addition, by adoption of View-DR image enhancing technology in the SRG-120DH PTZ camera system, these packages are enabled to provide clear images. Furthermore, both support H.239 1080/30p dual streams*¹ and high-quality MPEG-4 AAC stereo audio, too.

With this high-quality video and audio performance, the PCS-XG100 and PCS-XG77 have wider application than just the usual business meetings; they are also ideal for design simulation meetings, scientific research communications, and much more.

Packages	PCS-XG100	PCS-XG77
PTZ Camera	SRG-120DH	
Codec unit	PCS-XG100S	PCS-XG77S
Microphone	PCS-A1 (2)	PCS-A1 (1)
Other items than manuals and guides	HDMI cable (3 m) (1), RF Remote commander (1), Camera cable (3 m) (1)	

Note: In this brochure, The PCS-XG100 refers to both the PCS-XG100 and PCS-XG100S, and the PCS-XG77 refers to both the PCS-XG77 and PCS-XG77S unless otherwise specified.

IPELA

The IPELA Series of visual communication products encompass a three-pronged concept of "Reality", "Intelligence", and "Usability" to bring you all the benefits of advanced audiovisual communication.

Reality

- 1080/60p full HD images*¹
- 1080/30p dual streams including simultaneous 1080/30p video + presentation data transmission (H.239)*¹
- Superb MPEG-4 AAC stereo audio quality with an echo canceller function

Intelligence

- SRG-120DH PTZ camera with View-DR image enhancing technology
- Multi-point connection – Embedded MCU for up to 16 sites*^{2*3}
- Maximum 9-screen continuous-presence mode
- Intelligent QoS™ functions
- AES (Advanced Encryption Standard) for high-level security

Usability

- Video annotation function*⁴
- Multiple display layout – PandPandP (Far/Near/PC)
- Triple monitor mode*⁵
- One-touch dialing with RF Remote Commander™ unit
- Dual network interfaces*³
- HD recording via USB port
- HD multicast streaming for up to 10 sites via web interface

*¹ The PCS-XG77 and PCS-XG77S require an optional PCSA-RXG77 HD upgrade software license.

*² The PCS-XG100 and PCS-XG100S require an optional PCSA-MCG109 MCU software.

*³ The PCS-XG77 and PCS-XG77S do not support this function.

*⁴ Requires a commercially available third-party pen tablet product.

*⁵ The PCS-XG77 and PCS-XG77S support dual monitors.

Reality

Stunning 1080/60p HD Video Images*

The PCS-XG100 and PCS-XG77 adopt the H.264 high-efficiency video codec to bring you smooth and natural HD 1920 x 1080/60p broadcast-quality images. Stunning HD video enhances your videoconferencing with lifelike images, and gives you a wider range of ways to use visual communication.

* The PCS-XG77 and PCS-XG77S require an optional PCSA-RXG77 HD upgrade software license.



1080/30p



1080/60p

Simulated images

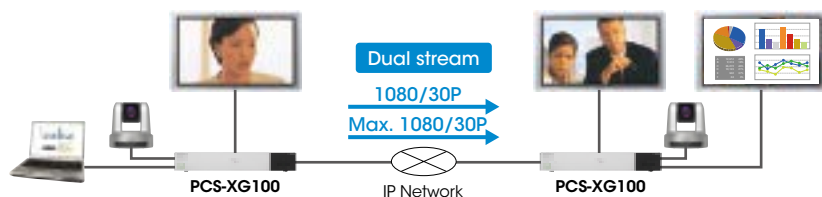
Superb Audio Quality with Stereo Echo Canceller Function

Both of these visual communication packages produce clear and natural stereo sound, using the MPEG-4 AAC compression format. A built-in stereo echo canceller function eliminates annoying echo, and makes communication sound far more natural. These systems support up to six microphone connections.

Full HD 1080/30p Dual Streams*

With support for the ITU-T H.239 standard, the PCS-XG100 and PCS-XG77 can send full HD 1080/30p dual streams, or both video and presentation data displayed on your PC, to videoconferencing counterparts for more effective communication. Presentation data can be transferred at frame rates as high as 30 fps, providing natural and smooth presentations even when using animation effects or showing videos from your PC. This presentation data can be shown from either a projector or a sub display using the HDMI or DVI output.

* The PCS-XG77 and PCS-XG77S require an optional PCSA-RXG77 HD upgrade software license.



Intelligence

View-DR Image Enhancing Technology in SRG-120DH Camera



The SRG-120DH HD camera incorporates Sony-developed View-DR technology. This technology optimizes the brightness of each pixel to highlight shadows, while subduing areas of the image that are too bright, allowing operation in less-than-ideal lighting conditions.

View-DR technology can provide clear images even in dimly lit rooms, for example when using a projector, or in rooms with poor backlighting conditions.



Without View-DR function



With View-DR function

Simulated images

Up to 16 Multi-point Connections – Embedded MCU

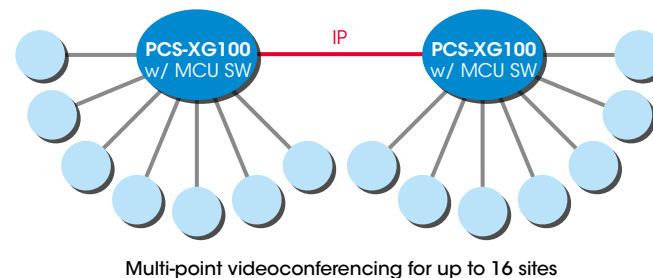
Using optional MCU software*¹, the PCS-XG100 can be configured to communicate with up to 8 remote videoconferencing sites (9 sites in total) simultaneously, using either an IP (H.323 protocol) or ISDN (H.320 protocol)*² connection. It can also support videoconferences in which the connections are a combination of IP and ISDN by using a bridging function.*³

Moreover, two PCS-XG100 systems – each installed with the optional MCU software – can be cascaded with an IP connection to support a maximum of 16 sites.

*¹ PCSA-MCG106 (6-site connection) and PCSA-MCG109 (9-site connection) MCU software.

*² The ISDN connection will be supported with V1.4. An optional ISDN interface box PCSA-B768S for 768 kbps or PCSA-B384S for 384 kbps is required. The PCS-XG77 will support the ISDN connection in V1.4 but will not support multi-point connection.

*³ The ISDN connection is limited to one site per one MCU software.



Up to Nine-screen Continuous-presence Mode

The PCS-XG100 system supports three-screen, four-screen, six-screen, and nine-screen continuous-presence modes in 1080p HD format, which provides clear images even on smaller sub screens. When using voice-activated switching in continuous-presence mode, the far-end site that is actively speaking is displayed on the largest of the six or nine sub screens. In addition, voice-activated switching is available when the unit is in full-screen mode. Plus, of course, fixed-site videoconferencing is available as well.

Six-split window



Picture on the local terminal

Nine-split window



Picture on the local terminal

Six-screen and nine-screen continuous presence modes

Simulated images

Intelligent QoS for Stable and Secure Videoconferencing

Both packages incorporate Intelligent QoS control which greatly reduces the video artifact caused by packet losses, regardless of the transmission distance, by applying the following three methods adaptively in accordance with the network condition:

- Adaptive FEC (Forward Error Correction)
- Real-time ARQ (Automatic Repeat reQuest)
- ARC (Adaptive Rate Control)

For more information on the Intelligent QoS mechanism, refer to the "Technical Note" insert.



Without Intelligent QoS



With Intelligent QoS

Simulated images

Advanced Encryption Standard (AES) for High Security

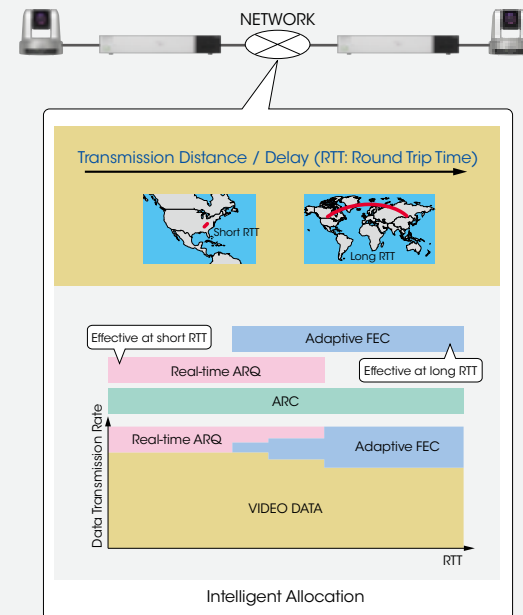
Secure videoconferencing over a network is achieved because the PCS-XG100 and PCS-XG77 support 128-bit AES encryption in compliance with ITU-T H.233/H.234/H.235 standards. When the encryption mode is active, video, audio, and presentation data are encrypted for the duration of the videoconference.

Technical Note

Sony's Intelligent QoS Functions

Sony has designed and implemented Intelligent QoS functions in its HD visual communication systems.

The system optimally allocates the amount of ARQ, FEC, and video data based on the bandwidth available, which is determined by the ARC function. FEC is performed with larger FEC blocks and the number of parity packets is adjusted as required. This combination is both efficient and effective for transmitting large amounts of data over IP networks to help maintain high picture quality.



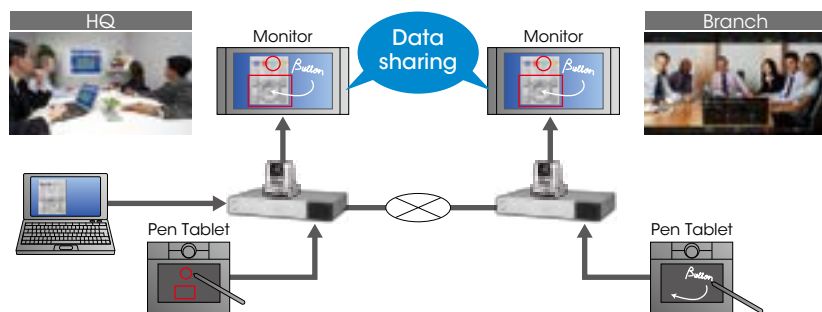
Usability

Video Annotation Function*

For effective communication, the PCS-XG100 and PCS-XG77 support a video annotation function. Conference participants can clearly point out specific parts of shared data, including live images and presentation data, by simply writing on a tablet.

This function can help you minimize time and effort in your communication, and allow you to deliver a clear and strong message.

* A commercially available third-party tablet device is required.



Simple Setup and Easy Operation with an Intuitive Menu GUI

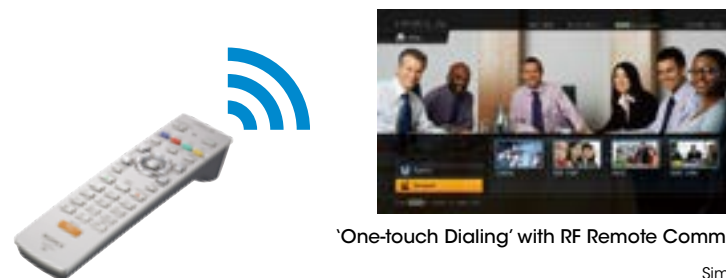
The PCS-X100 and PCS-XG77 have been thoughtfully designed with an intuitive GUI, utilizing translucent cascading menus. The simple layer structure and easy functionality allow you to operate the videoconferencing system, including the camera, more easily than ever before.



Simulated image

One-touch Dialing With a Convenient RF Remote Commander

An ergonomically designed RF remote commander makes dialing easy – just press the button to specify the thumbnail image of any contact registered on the menu GUI. Unlike an IR (infrared ray) remote commander, an RF (radio frequency) commander is omnidirectional, and can transmit a command from any direction.



Simulated image

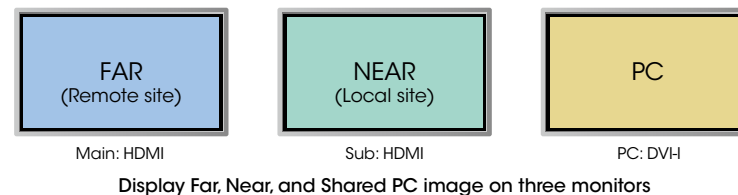
Multiple Display Layout

Users can select the following display layouts: Full Screen, Picture-in-Picture (PinP), Picture-and-Picture (PandP), and a Side-by-Side split screen. By selecting any of these flexible display patterns, both videoconferencing images and presentation data can be displayed in ways that are effective and pleasing to the eye.



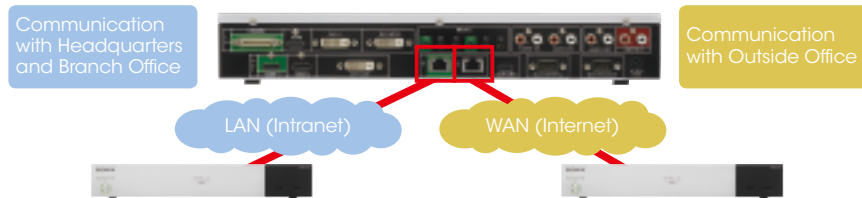
Triple Monitor Mode

The PCS-XG100 system provides a triple monitor mode. This function is useful when you want to use separate monitors to display images of Far (remote site), Near (local site), and PC output separately and use a full-screen display size for each.



Dual Network Interfaces for LAN and WAN Connections

For ease of use in office environments, the PCS-XG100 is equipped with dual network interfaces; one for a LAN, the other for a WAN connection. This allows you to have a multi-point conference between a LAN and WAN.



HD Recording Via USB Port and Multicast Streaming Via a Web Interface

The PCS-XG100 and PCS-XG77 are equipped with two USB ports on the front panel, which are for HD recording on USB 2.0 memory.* HD video and audio can be streamed out as multicast streaming (up to 10 sites) or unicast streaming via a Web interface.

* Sony's USM32GM and USM32GR are tested. The FAT32 format is required before use.



Direct Connections From Mobile Endpoint to the PCS-XG100 and PCS-XG77 Systems

By installing an optional mobile access software license – the PCSA-SAG8 for the PCS-XG100* and PCSA-SAG1 for the PCS-XG77 – these system can be connected from mobile endpoint devices installed with IPELA Communication Mobile software (both Android and iOS are available).

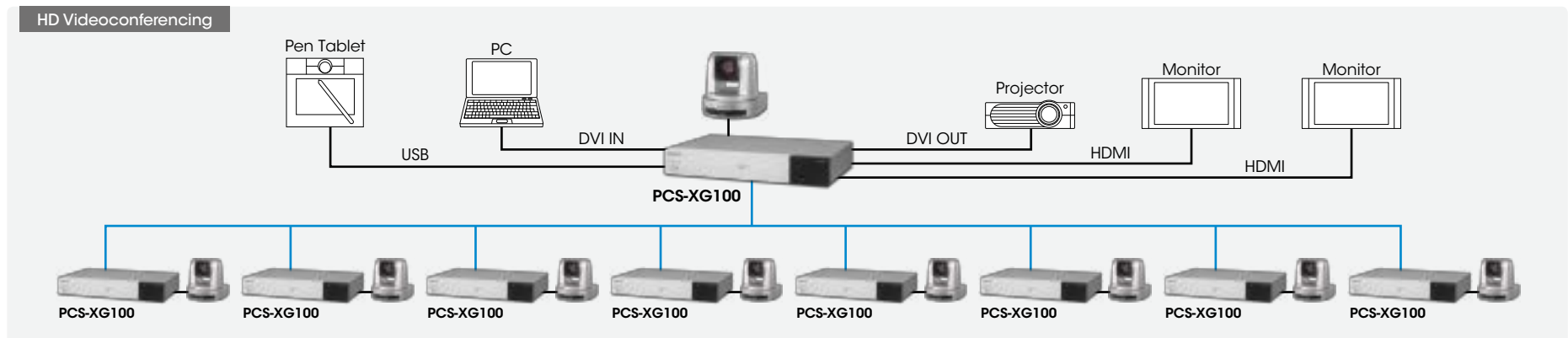
* The PCS-XG100 requires installation of optional PCSA-MCG109 multi-point access software, and can access up to eight end-points.

Other Features

- Convenient HDMI input for versatile inputs including a camcorder.
- DVI-I input allows users to connect a PC.
- Kiosk mode supports user-friendly and error-free operation.
- Support for Microsoft Lync*
- Support for IPv6.
- Support for H.460 Firewall Traversal.
- Up to 100 camera preset positions can be stored each with a thumbnail image for easy recall.

* This function will be supported with version 1.4 or later.

Sample System Configurations



Optional Accessories



Optional Software

Model	Compatible Product	Description
PCSA-MCG106	PCS-XG100	Embedded MCU software license 6 sites
PCSA-MCG109	PCS-XG100	Embedded MCU software license 9 sites
PCSA-RXG77	PCS-XG77	Full HD upgrade software license
PCSA-SAG8	PCS-XG100	Mobile access software license
PCSA-SAG1	PCS-XG77	Mobile access software license



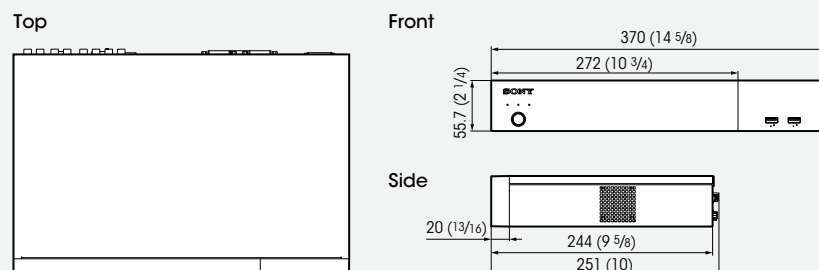
PCS-XG100S



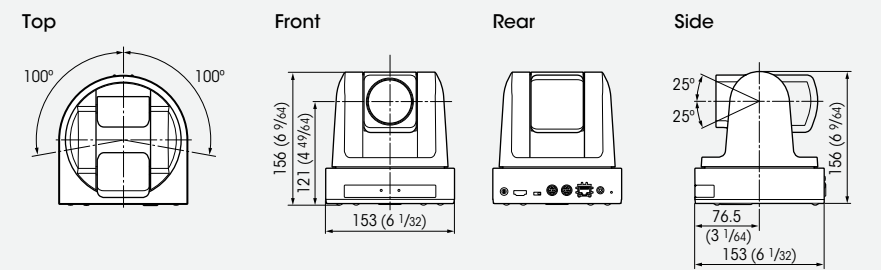
PCS-XG77S

Dimensions

PCS-XG100S/PCS-XG77S



SRG-120DH



Unit: mm (inches)

Specifications

		PCS-XG100	PCS-XG77
Camera (Optional SRG-120DH camera)			
Image Sensor	1/2.8-type "Exmor" CMOS image sensor		
Image Sensor (Number of Effective Pixels)	Approx. 3.27 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 (x12 optical zoom, x12 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	100 positions (Saved in Codec Unit)		
Power Supply	Supplied from Codec Unit		
Other Features	Auto Gain Control, Auto White Balance, Backlight Compensation, VISCA output to the second camera, View-DR		
Key Features			
Multipoint Capability	Up to 9 sites (H.323) with optional software PCSA-MCG109. (6 sites with H.320)	-	
	10 to 16 sites (H.323) requires two PCS-XG100 units with optional software PCSA-MCG109 using cascaded connection. (10 sites with H.320)	-	
Data Sharing	PC images up to 1080p resolution is supported.	PC images up to SXGA resolution is supported. (Optional: up to 1080p)* ¹	
	Video annotation function is available.		
Lip Synchronization	AUTO/OFF		
Mic Off Function	ON/OFF		
Streaming/Recording Feature	HD 720p		
Video			
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	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* ¹	
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			
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		
Other Features	G.728: 3.4 kHz at 16 kbps		
	Stereo echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction		

	PCS-XG100	PCS-XG77
Network		
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		
Video Input	External video inputs (HDMI x1, DVI-I x2)	External video inputs (DVI-I x2)
Video Output	HDMI x2, DVI-I x1	HDMI x1, DVI-I x1
Control Input	RS-232C x1	
Audio Input	External analog microphone input Mini-jack (Plug in power) x6 (L/R)	
	HDMI (video, audio) x1	—
	Audio Input (MIC/AUX) x 2 (Phono jack, stereo)	
Audio Output	HDMI (video, audio) x1, Line Output (Phono jack, stereo) x1, REC Output (Phono jack, stereo) x1	
Network Port	10BASE-T/100BASE-TX/1000BASE-T x2, ISDN Unit Interface x1 *2	10BASE-T/100BASE-TX/1000BASE-T x1, ISDN Unit Interface x1 *2
USB Slots	2 (Pen Tablet, USB Memory)	
Maintenance Interface	RS-232C x1	
Standard		
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	
Dual Stream	H.239 (video and presentation data)	
General		
Power Requirements	DC 19.5 V (AC Adapter : AC 100 V to 240 V, 50/60 Hz)	
Power Consumption	58.5 W	
Power Consumption (Standby)	23.4 W	
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: 370 x 60 x 244 mm (14 5/8 x 2 3/8 x 9 5/8 inches) (excluding protrusions) Camera unit (optional SRG-120DH): 153 x 156 x 153 mm (6 1/8 x 6 1/4 x 6 1/8 inches) (excluding protrusions)	
Mass	Codec: 2.3 kg (5 lb 1.1 oz) Camera unit (optional SRG-120DH): 1.45 kg (3 lb 3.1 oz)	
Supplied Accessories	PCS-A1 microphone (2)	PCS-A1 microphone (1)
	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 Requires an optional PCSA-RXG77 full HD upgrade software license.

*2 The ISDN connection function will be supported with V1.4.

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The values for mass and dimension are approximate.
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PCS-XG100H & PCS-XG77H

high definition videoconferencing systems



Key Feature

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 videoconferencing, wherever you are

Success in business depends on effective communication, wherever you, your colleagues, partners and customers are. The PCS-XG100H and PCS-XG77H videoconferencing 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 videoconferences 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.

Easy operation, supports Microsoft Lync™

The PCS-XG100H and PCS-XG77H are quick booting, so you're ready for business faster, and operation couldn't be simpler: just select a contact using the supplied remote and launch your conference. Plus, both systems integrate seamlessly with your existing platforms as well as fully supporting Microsoft Lync™ (available soon), now being used by more and more businesses.

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 videoconferencing 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 videoconferences 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.

PrimeSupport for extra peace of mind

To keep you up and running, PCS-XG100H and PCS-XG77H video conferencing systems come as standard with a 3-year PrimeSupport package. This includes repair or replacement in the event of a faulty unit, plus free telephone helpdesk support in English, German, French, Italian and Spanish. For full details please visit www.pro.sony.eu/primesupport

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

PCS-XG100H		PCS-XG77H	
Camera (SRG-120DH)			
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		x1.44 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			
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-XG100S units cascaded with optional software (10 sites with H.320) (16 sites with H.323)	—
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			
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)	
Bit Rate		64 kbps to 16,000 kbps	
Screen Layout		Full Screen, PinP, PanP, SideBySide, PandPandP	
Audio			
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	

	PCS-XG100H	PCS-XG77H
Network		
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		
Video Input	External video inputs (HDMI x 1, DVH x 2)	External video inputs (DVH x 2)
Video Output	HDMI x 2, DVH x 1	HDMI x 1, DVH 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 Output	Audio Input (MIC/AUX) x 2 (Phono jack, stereo) 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		
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		
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 x 156 x 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



PCSA-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)



PCSA-MEP
IPELA Communication
Mobile app

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

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