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bringing people and ideas together with greater clarity

PCS-XG100
and PCS-XG77
high definition
videoconferencing
systems

Express yourself clearly with Full HD 60p image quality

The PCS-XG100 lets you communicate more clearly and productively with detail-packed video conferences at Full HD (1920 x 1080) resolution for exceptional realism. (PCS-XG77: 720p).
With frame rates as high as 60fps, conferences are smoother and more natural. You'll even enjoy HD quality picture quality at low bit rates when network bandwidth is limited.

Richer, more rewarding communications:
share video, voice and PC presentations with HD quality

Ideal for a wide range of business communications, the PCS-XG100 and PCS-XG77 videoconferencing systems offer superb picture and sound quality, plus smart features to enrich collaboration across your organisation.

Crystal-clear images from the high quality PTZ camera* are complemented by clear, natural sounding stereo audio. Dual streaming allows video and PC presentations to be shared simultaneously with viewers at a remote location. See 'Near' and 'Far' camera images plus PC presentations with exceptional layout flexibility on one, two or three connected video monitors. HD conferences can be streamed as live webcasts, or recorded to USB memory for easy sharing and review.

The integrated MCU (PCS-XG100 only) allows multi-point conferences over ISDN or IP, choose for either six sites or nine sites options via a simple software upgrade. What's more, two PCS-XG100 systems can be cascaded without additional hardware to link 16 sites simultaneously.

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-XG100S/XG77S 'codec only' version without PTZ camera.

Features

Express yourself clearly with Full HD 60p images (PCS-XG100)
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-XG77 video resolution is HD 720 60p).

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.

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-XG100 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 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-XG100 and PCS-XG77 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**

Energise your business communications with smarter, more satisfying collaboration

Specifications

Camera (Optional EVI-H100V camera)	PCS-XG100S	PCS-XG77S
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	29.97 fps	
S/N Ratio	50 dB	
Brightness Control	Auto/Manual	
Zoom Ratio	x240 zoom (x20 optical zoom, x12 digital zoom)	
Focusing System	Auto/Manual	
Horizontal Viewing Angle	Approx. 55.4°	
Focal Length	f = 4.7 mm to 94.0 mm	
F-Number	F1.6 to F3.5	
Pan/Tilt Angle	Pan ±170° / Tilt +90°-20°	
Preset Position	100 positions (Saved in Codec Unit)	
Power Supply	Supplied from Codec Unit	
Other Features	Auto Gain Control, Auto White Balance, Backlight Compensation, Ceiling Mountable (Image Flip), VISCA output to the second camera	

Key Features	PCS-XG100S	PCS-XG77S
Multipoint Capability	Up to 6 sites (H.320[*1]/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)[*1] (16 sites with H.323)	–
Data Sharing	PC images up to 1080p resolution is supported	PC images up to SXGA resolution is supported
	Video annotation function	
Lip Synchronization	AUTO/OFF	
Mic Off Function	ON/OFF	
Streaming/Recording Feature	HD 720p	

Video	PCS-XG100S	PCS-XG77S
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[*2], 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)
Bit Rate	64 kbps to 16,000 kbps	64 kbps to 4,096 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 G.728: 3.4 kHz at 16 kbps	
Other Features	Stereo echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction	

Network	PCS-XG100S	PCS-XG77S
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-XG100S	PCS-XG77S
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		
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 (optional EVI-H100V): Approx. 145 x 164 x 164mm (excluding protrusions)	
Mass	Codec: Approx. 2.3 kg	
	Camera Unit (optional EVI-H100V): Approx. 1.55 kg	
Supplied Accessories	PCS-A1 microphones (2) (PCS-XG100), PCS-A1 microphones (1) (PCS-XG77), 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.320 will be available as V2.0

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

Optional Accessories

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