

SONY

HD



PCS-XG80

1080i HD Visual
Communication System



IP-ELA
INTEGRATED VISUAL COMMUNICATION

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Affordable, powerful, compact videoconferencing.

The new 1080 HD PCS-XG80 Visual Communication system delivers four times the detail of standard definition, bringing astounding clarity to videoconferencing. Unique Sony BrightFace™ technology enables you to see every glance, even in poorly-lit environments, and crisp stereo audio creates natural meetings as if everyone were in the same room together.

The PCS-XG80 features dual screen functionality so you can enjoy a live camera view on one screen at the same time as sharing live data from your laptop. Perfect for corporate meetings, medical conferences, educational seminars and distance learning, the PCS-XG80 delivers performance speeds up to 30 frames/second.



KEY FEATURES

HD 1080 The world's first 1080 visual communication system, delivers four times the detail of Standard Definition (SD) systems.

BrightFace™ technology Unique Sony technology ensures exceptional image clarity, high contrast and brightness, even in poorly-lit rooms.

Dual screen functionality Ability to split the HD stream into two parallel streams of live information for same-time video and data sharing.

Simple set-up and use Intuitive Graphical User Interface (GUI), one-touch dialling and RF Remote Commander™ – all designed for easy use.



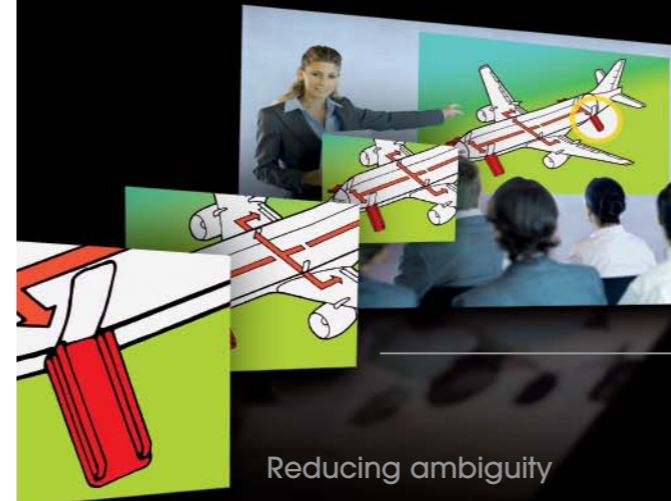
Experience 1080 Videoconferencing

Powerful, affordable, and compact, the PCS-XG80 delivers 1080 HD video quality to make your daily communication more effective, productive and comfortable. Without the cost and time of travel, you can experience a level of detail that might indicate a buying decision, confirm an important diagnosis, improve a student's comprehension or enable you to carry the support of international customers or colleagues for a new idea.



Data and video together

The PCS-XG80 enables you to share data at 30 frames per second, which results in live data: you could even share a DVD from your laptop. Perfect for design meetings, medical conferences or training and education sessions, it's a feature that significantly enhances the exchange of ideas and information.



Reducing ambiguity

Using the Video Annotation function¹ with a writing tablet², either side of the conference can clearly point out specific parts of an image, creating a truly collaborative environment and ensuring that critical details in medical reports, concepts or prototypes are fully understood by all parties.



Running meetings efficiently

The intuitive GUI produces translucent cascading menus, which are very simple to operate, even for inexperienced users. Calls to most frequently used entries can be made at the touch of a button. The PCS-XG80 remote control uses a RF (radio frequency) signal, so you no longer have to point to the system or camera to action commands.



HD 1080 1080 HD Excellent image quality – four times more detail than SD

Life-like stereo sound Natural and clear voice communications with advanced echo canceller

Memory Stick™ recording Video, audio and data can be recorded for later review on any PC or laptop³

Integrated visual communication View images from an IP camera¹ during a videoconference

Video annotation function Attach notes to objects or data (with optional third party tablet input device)³

Backward compatibility with SD systems Seamless integration with existing equipment

BrightFace™ technology Optimizes image quality even in less than ideal lighting conditions

LAN/WAN Dual network interfaces Easily switch between LAN and WAN connections

Built-in streaming function For broadcasting to large audiences³

ITU-T H.239 support (video and presentation data) Presentation transferred at up to 30fps (with optional software)⁴

Multi-point connection – Embedded MCU (with optional software)⁴ Six-site videoconferencing – Supports ten-sites when two units are cascaded – Supports six-site continuous presence mode with voice-activated switching

Compact and stylish design Unobtrusive hardware suitable for any style of meeting room

¹ Requires optional software
² Requires an optional third-party tablet input device
³ These functions are available except when using the 1080 format.
⁴ These functions are available except when using the 1080 or 720/60p video formats.

PCS-XG80 Specifications

Communication Protocol Standards H.320, H.323, IETF SIP	
Video	
Compression Standard	H.261, H.263, H.263+, H.263++, H.264, MPEG-4 Video (SIP only)
Resolution	4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576)
Maximum Frame Rate	16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080i (1920 x 1080)
Bit Rate	H.261 QCIF 30fps, CIF 30fps H.263 QCIF 30fps, CIF 30fps, 4CIF 15fps H.264 QCIF 60fps, CIF 60fps, 4CIF 60fps, wCIF 60fps, w432p 60fps, w4CIF 60fps, 720p 60fps, 1080i 60fps IP 64 kb/s to 10 Mb/s ISDN 56 kb/s to 768 kb/s (with optional PCSA-B768S) 56 kb/s to 384 kb/s (with optional PCSA-B384S)
Audio	
Bandwidth and Coding	MPEG-4 AAC-LC Stereo: 22 kHz at 128kb/s, 192 kb/s - IP Only MPEG-4 AAC-LC Mono : 14 kHz at 48 kb/s, 64 kb/s, 96 kb/s MPEG-4 AAC-LC Mono : 22 kHz at 64 kb/s, 96 kb/s - IP only G.711: 3.4 kHz at 56 kb/s, 64 kb/s G.722: 7.0 kHz at 48 kb/s, 56 kb/s, 64 kb/s G.728: 3.4 kHz at 16 kb/s
Echo Cancellation	Stereo echo-cancelling supported Noise reduction included Automatic gain control included
Screen Layout	Full screen, Picture-in-Picture, Picture-and-Picture, Side-by-Side split screen
ITU-T Standards (excludes audio/video standards)	H.221, BONDING, H.225.0, H.231, H.241, H.242, H.243, H.245
Other Standards	RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, RFC3984, RFC4537, RFC4587, RFC4629, RFC4856
Network Protocol	TCP/IP, UDP/IP, RTP/RTCP, DHCP, DNS, SNMP, TELNET, SSH, HTTP, HTTPS, SNMP, NTP, PPPoE, UPnP
Multipoint Capability	Internal MCU Up to 6 sites (H.320/H.323/SIP) with optional software PCSA-MCG80 Internal MCU Up to 10 sites (H.320/H.323/SIP) with optional software PCSA-MCG80 Using Cascaded Connection
Data Sharing	H.239 (video and presentation data)*
Lip Synchronization	ON/OFF
Mic Off Function	ON/OFF
Encryption Protocols	H.233, H.234, H.235 ver.3
Network Features	
Intelligent QoS (Quality of Service)	Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control)
Others Network Features	NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing
Camera Control	Far End Camera Control H.281

Interface	
Video Input	AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x 1)
Video Output	HDMI (video, audio) x 1, RGB x 1
Audio Input	Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (PCSA-A7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX)
Audio Output	HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1
Control	RS-232C
Memory Stick	Memory Stick Slot x 1
Tablet Interface	Tablet Interface x 1
Maintenance Interface	RS-232C x 1
Network	10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1

General	
Operating Temperature	5 to 35 °C (41 to 95 °F)
Operating Humidity	20 to 80% (non condensing)
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Storage Humidity	20 to 80% (non condensing)
Power Requirements	DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz)
Power Consumption	40 W (codec only)/90 W (with PCSA-CXG80, PCSA-A7P4, PCSA-B768S)
Power Consumption (stand-by)	10 W (codec only)/15 W (with PCSA-CXG80, PCSA-A7P4, PCSA-B768S)
Dimensions (W x H x D)	282 x 56 (including rubber feet) x 244 mm (11 1/8 x 2 1/4 x 9 5/8 inches), excl. projections
Mass	Approx. 2.2 kg (4 lb 14 oz)

Supplied Accessories	AC adapter, HDMI cable (3m), RF Remote Commander Unit, Batteries for Remote Commander unit x 2, CD-ROM (Operating instructions, Before using this unit, Connection sheet, Quick dial guide), Before using this unit, Connection sheet, Quick dial guide, Important notice regarding software, Warranty booklet
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HD Camera Unit - PCSA-CXG80	
Image Device	1/3-type CMOS
Effective Picture Elements	Approx. 2 Megapixels (16:9)
Focal Length	3.4 to 33.9 mm (F1.8 to F2.1)
Focus	Auto/Manual
Horizontal Image Angle	Approx. 8°(tele) to 70°(wide)
Zoom Ratio	x 10 optical zoom, (x 40 with digital zoom)
Pan/Tilt Angle	-100° to +100°(Pan), -25° to + 25° (Tilt)
S/N	More than 50 dB
GAIN	AUTO
Control Out	VISCA OUT RS-232C for 2nd camera control
Position Preset	100 positions
Operating Temperature	5 to 35 °C (41to 95°F)
Operating Humidity	20 to 80% (non condensing)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Storage Humidity	20 to 80% (non condensing)
Power Requirements	DC 19.5V (supplied via the codec)
Dimensions (W x H x D)	240 x 152 (including rubber feet) x 158 mm (9 1/2 x 6 x 6 1/4 inches), excl. projections
Mass	Approx. 2 kg (4 lb 3 oz)
Others	BrightFace function, Noise reduction, Backlight compensation, Auto white balance
Supplied Accessories	Camera cable (3m), Hook-and-loop pads x 2, Operating instructions, Warranty booklet

Package Configuration	PCS-XG80	PCS-XG80S
HD Codec Unit (PCSA-XG80S)	○	○
HD Camera Unit (PCSA-CXG80)	○	-
Omnidirectional	○	-
Microphone (PCSA-A1 x 2)		

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Features, design and specifications are subject to change without notice. All non-metric weights and measures are approximate.

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