

SONY

HD



PCS-XG80

1080i HD Visual
Communication System



IPELA
INTEGRATED VISUAL COMMUNICATION

www.sonybiz.net/vc

Affordable, powerful, compact videoconferencing

The new 1080i 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

Full HD 1080i HD
The world's first 1080i 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.



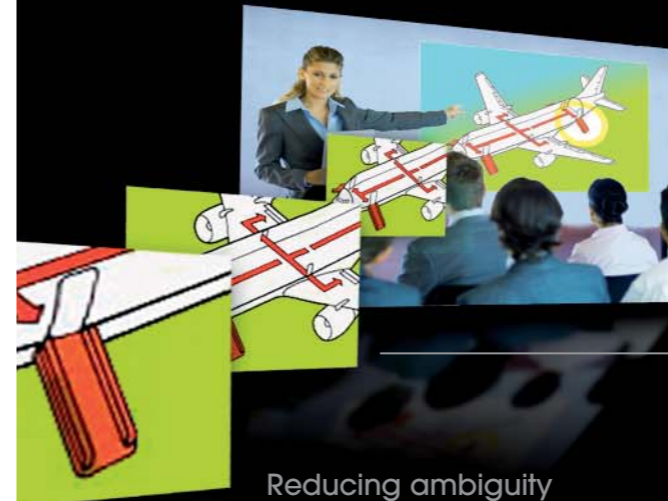
Experience 1080i Videoconferencing

Powerful, affordable, and compact, the PCS-XG80 delivers 1080i 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.



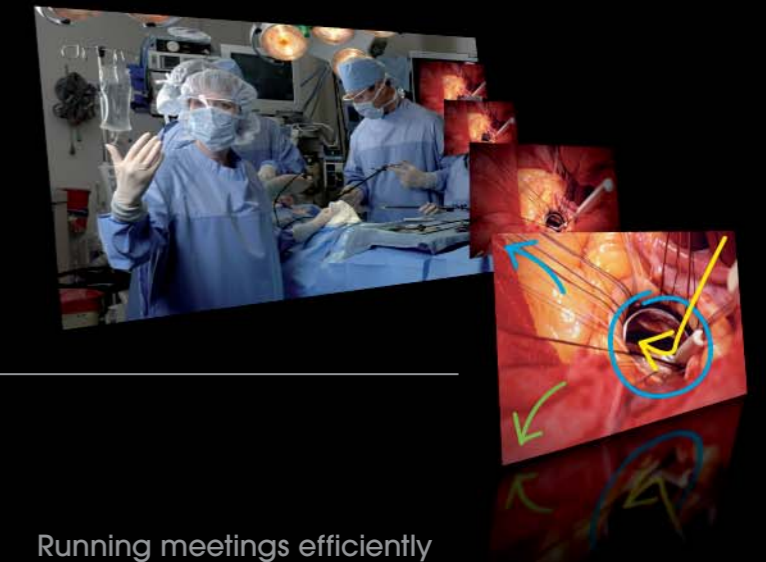
Data and video together

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.



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

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

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

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

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

Built-in streaming function
For broadcasting to large audiences³

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

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

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

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

Backward compatibility with SD systems
Seamless integration with existing equipment

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 1080i format.
⁴ These functions are available except when using the 1080i or 720p/60p video formats.

PCS-XG80 Specifications

Video	
Resolution (4:3)	QCIF(176pixel x 144line), CIF(352pixel x 288line), 4CIF(704pixel x 576line)
Resolution (16:9)	WQCIF(256 x 144), WCIF(w288p)(512 x 288), W432p(768 x 432), W480p(848 x 480), W4CIF(1024 x 576), 720p(1280 x 720), 1080i(1920 x 1080)
Max Frame Rate (H.261)	QCIF 30fps, CIF 30fps
Max Frame Rate (H.263)	QCIF 30fps, CIF 30fps, 4CIF 10fps
Max Frame Rate (H.264)	QCIF 60fps, CIF 60fps, WQCIF(256 x 144), WCIF(512 x 288), W432p(768 x 432), W4CIF(1024 x 576) 60fps, 720p 60fps, 1080i 60fps
H.239 2nd video stream	H.264 (SXGA, WXGA, XGA, SVGA, VGA), H.263 (XGA, SVGA, VGA)
Screen Layout	PinP, PandP, SideBySide
Bit Rate	IP 64kbps-10Mbps ISDN 56-768kbps (with optional PCSA-B768S), 56-384kbps(with optional PCSA-B384S)

Audio	
Echo Cancellation	Stereo Echo Cancelling (ON/OFF, supported for audio frequency up to 14kHz), Auto Gain Control, Noise Suppressor
Lip Synchronization	ON/OFF
Mic Off Function	ON/OFF

Camera Unit	
Image Sensor	6mm (1/3-type) CMOS
Effective Pixels	Approx. 2.0 Megapixels (16:9)
Position Preset	100 positions (Saved in Codec Unit)
Focus	Auto / Manual
Gain	Auto (Auto Gain Control)
Focal Length	f=3.4 to 33.9mm (F1.8 to F2.9)
Zoom Ratio	10x optical zoom (40x with digital zoom)
Pan / Tilt Angle	Pan±100° / Tilt±25°
Horizontal Viewing Angle	Approx. 8°(tele) to 70°(wide)
S/N Ratio	50 dB
Power	Supplied from Codec Unit
Other Features	Auto White Balance, Backlight, BrightFace™ function, ViSCA output for 2nd camera control

Network Protocol	
	TCP/IP, UDP/IP, DHCP, DNS, HTTP, HTTPS, TELNET, SSH, SNMP, NTP, PPPoE, UPnP

Network Features	
	Adaptive FEC (Forward Error Correction), Real time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery

Others	
External control	TELNET/SSH, RS-232C, WEB(HTTP/HTTPS)
Password protection	for administrator

Communication Protocol	
Standard	ITU-T H.320, H.323, IETF SIP
Video Codec	H.261, H.263, H.263+, H.263++, H.264, MPEG-4 video (SIP only)
Audio Codec	G.711(3.4kHz@56/64kbps), G.722(7.0kHz@48/56/64kbps), G.728(3.4kHz@16kbps), MPEG-4 AAC-LC Mono (14kHz@48/64/96kbps), MPEG-4 AAC-LC Mono (22kHz@96kbps - IP only), MPEG-4 AAC-LC Stereo (22kHz@192kbps - IP only)
Far End Camera Control	H.281 (Pan/Tilt/Zoom/Focus/Pre-set Position/ Input Select)
Frame Format	H.221, BONDING, H.225.0
Dual Stream	H.239
Encryption	H.233, H.234, H.235ver3
NAT/Firewall Traversal	H.460

Interface	
Video Input	AUX Video Input (S-Video x1, Analog Component (YPbPr) x1, RGB x1)
Video Output	HDMI(Video, Audio) x1, RGB x1
Audio Input	AUX Mic Input L/R x1(Analog, Plug-in power), AUX Mic Input x2 (Digital, PCSA-A7P4), AUX Input (Pin, Stereo) x2
Audio Output	HDMI(Video, Audio) x1, Line Output(Pin, Stereo) x1, REC Output (Pin, Stereo) x1
Network	10BASE-T/100BASE-TX x2, ISDN Unit Interface x1
Control	RS-232C
Others	Memory Stick Slot x1, Tablet Interface, Maintenance Interface(RS-232C)

Memory Stick Media	
	JPEG Saving/Loading, Firmware version up, Private phonebook (auto-dialing), Configuration Saving/Loading, Phonebook Saving/Loading, AV recording

Streaming / Recording	
	Audio : 64kbps, Video : 0-512kbps

Multipoint Capability	
	Up to 6 sites (H.320/H.323) require PCSA-MCG80 Up to 10 sites (H.320/H.323) require PCSA-MCG80, cascaded connection

Data Sharing	
	PC image supported up to SXGA (require PCSA-DSG80 to send image)

General	
Power Requirement	DC19.5V supplied from AC Power Adapter (AC100-240V, 50/60Hz)
Current	5A
Codec Unit Dimension(W x H x D)	282 x 52 x 244mm (excl. projections), 11 1/8 x 2 1/8 x 9 5/8 inches
Camera Unit Dimension(W x H x D)	240 x 152 x 158mm (excl. projections)
Codec Unit Weight	Approx. 2.2kg, 4 lb 14oz
Camera Unit Weight	Approx. 1.7kg

Supplied Accessories	
Codec Unit	AC Power Adaptor x1 AC Power Code x1 HDMI cable (3m) x1 PCS-RF1 (RF Remote Commander Unit) x1 Manganese Battery for Remote Commander Unit x2 CD-ROM(Operating Instructions) x1 Operation Guide x1 Connection Sheet x1 Quick Connection Guide/Remote Control Guide x1 Worldwide Warranty Booklet x1
Camera Unit	Camera cable (3m) x1 Operation Guide x1 Worldwide Warranty Booklet x1

Optional Accessories	
	HD camera unit HD MCU software HD data solution software ISDN I/F box 768Kbps ISDN I/F box 384Kbps Omni-directional microphone Uni-directional microphone Echo cancelling microphone (4 units package) SD camera unit Camera stand for PCSA-CXG80 & PCSA-CG70

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