PCS-XG80
1080i HD Visual Communication System
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

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.

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.

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 copy the support of international customers or colleagues for a new idea.

Reducing ambiguity
Using the Video Annotation function with a writing tablet, either side of the conference can clearly point at 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. 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.

Integrated visual communication
View images from an IP camera during a videoconference.

ITU-T H.323 support
(video and presentation data)Presentation transferred at up to 30fps (with optional software)

Multi-point connection
Embedded MCU (with optional software)

Built-in streaming function
For broadcasting to large audiences

Multi-point connection
Embedded MCU (with optional software)

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

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

Backward compatibility with SD systems
Seamless integration with existing equipment

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 laptop

Life-like stereo sound
Natural and clear voice communication with advanced echo canceler

Excellent image quality – four times more detail than SD

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

Dual screen functionality
Dual network interfaces
Memory Stick™ recording
Integrated visual communication
Video annotation function
Multi-point connection
Compact and stylish design

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 720/60p video formats.
## Specifications

### Video

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (4:3)</td>
<td>QCIF(176pixel x 144line), CIF(352pixel x 288line), 4CIF(704pixel x 576line)</td>
</tr>
<tr>
<td>Resolution (16:9)</td>
<td>WQCIF(256 x 144), WCIF(256 x 192), QCIF(352 x 288), 4CIF(704 x 576), 3CIF(512 x 384), 2CIF(448 x 352), CIF(352 x 288), WQCIF(256 x 192)</td>
</tr>
<tr>
<td>Max Frame Rate (H:261)</td>
<td>QCIF 30fps, CIF 30fps</td>
</tr>
<tr>
<td>Max Frame Rate (H:263)</td>
<td>QCIF 30fps, CIF 30fps, 4CIF 10fps</td>
</tr>
<tr>
<td>Max Frame Rate (H:264)</td>
<td>QCIF 30fps, CIF 30fps, 4CIF 10fps</td>
</tr>
<tr>
<td>Input</td>
<td>HDMI(Video, Audio) x1, RGB x1</td>
</tr>
<tr>
<td>Audio Output</td>
<td>AUX Mic input 1/4 x1 (Analog, Plug-in power), AUX Mic input 2/2x (Digital, PCSA-A1P4)</td>
</tr>
<tr>
<td>Audio Output</td>
<td>HDMI(Video, Audio) x1, Line Output(Pin, Stereo) x1, REC Output (Pin, Stereo) x1</td>
</tr>
<tr>
<td>Network</td>
<td>10BASE-T/100BASE-TX x2, ISDN Unit Interface x1</td>
</tr>
<tr>
<td>Control</td>
<td>Memory Stick Slot x1, Tablet Interface, Maintenance Interface(RS-223C)</td>
</tr>
</tbody>
</table>

#### Streaming / Recording

- Audio: 64kbps, Video: 0.5-1.2Mbps

#### 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

### Audio

- Echo Cancellation: Stereo Echo Cancelling (On/Off)
- 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: 102 positions (Saved in Codec Unit)
- Focus: Auto / Manual
- Gain: Auto (Auto Gain Control)
- Focal Length: f=3.4 to 33.9mm (F:1.8 to F:2.2)
- Zoom Ratio: 10x optical zoom (40x with digital zoom)
- Pan / Tilt Angle: Pan100° / Tilt55°
- Horizontal Viewing Angle: Approx. 8°(H) to 70°(W)
- S/N Ratio: 56 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, TFTP, UPnP, UPnP AV

### Communication Protocol

- Standards: ITUT H.320, H.323, EEP SIP
- Video Codec: H.261, H.263, H.263+, H.264, MPEG-4 video (IP only)
- Audio Codec: G.711(A/A-Law/G711A), G.722(16kHz), G.722(16kHz/44kHz), G.726(4kHz), MPEG-4 AAC-LC Mono (16kHz/44kHz/48kHz), G.726(4kHz), MPEG-4 AAC-LC Stereo (22kHz/16kHz - IP only), MPEG-4 AAC-LC Stereo (22kHz/16kHz - IP only)
- Far End Camera Control: H.281 (Pan/Tilt/Zoom, Focus/Preset Position/Input Select)
- Frame Format: H.221, BONDING, H.221
- Dual Stream: H.239
- NAT/Network Traversal: H.460

### Interface

- Video Input: AUX Video Input (3/Video x1, Analog Component (YPbPr) x1, RGB x1)
- Video Output: HDMI(Video, Audio) x1, RGB x1
- Audio Input: AUX Mic input 1/4 x1 (Analog, Plug-in power), AUX Mic input 2/2x (Digital, PCSA-A1P4)
- 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: Memory Stick Slot x1, Tablet Interface, Maintenance Interface(RS-223C)
- Streaming / Recording: Audio: 64kbps, Video: 0.5-1.2Mbps
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### Memory Stick Media

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

### General

- Power Requirement: DC18.5V supplied from AC Power Adapter (AC100-240V, 50/60Hz)
- Current: 5A
- Codec 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, DC Power code x1, HDMI cable (3m) 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 x1, 1-box 384kbps
- ISDN x2, box 512kbps
- Omnidirectional microphone
- Uni-directional microphone
- Echo cancelling microphone (4 units package)
- Camera stand for PCSA-CXG80 & PCSA-CG70