PCSXA80
720p HD Visual
Communications
Package

Pricing available upon
request

UPC: 027242269668

Overview

HD Visual Communication Systems
High-end HD Desktop Package (PCS-XG80S, PCSA-CXA55, PCS-RF1)

Highlights

* Sony HD Visual Communication System
* High End Desktop Package
* Stunning 720p high-definition (HD) images
* Superb audio quality
* ITU-T h.239 support - presentation data transferred at 30 fps*
Compact and HD high-quality 8-megapixel pixel CMOS camera unit
(PCSA-CXA55)
* Kiosk mode
* Video annotation function*
* Enhanced intelligent QoS(TM) functions for stable and secure
videoconferencing
* Multi-point connection - embedded MCU*

* Simple setup and easy operation
* One-touch dialing with the RF remote commander unit
* Memory Stick(TM) recording - video/presentation data (including
annotations) and audio can be recorded for later review
* Presentation data can be sent as a single stream by selecting the RGB
input
* Built-in streaming function for multicasting to large audiences
* 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

Features

Features	Benefits
Stunning 720p High-definition (HD) Images	The PCS-XA80 and the PCS-XA55 adopt the H.264 video codec, which enables efficient transmission of high-quality images at up to 60 fps in a high-definition resolution of 1280 x 720 pixels. Stunning HD video enhances your videoconferencing with lifelike images for effective communication.
Superb Audio Quality	The units produce clear and natural stereo sound, using the MPEG-4 AAC compression format. Since the each has a built-in stereo echo canceller, which eliminates the annoying echo often heard with other systems, communication sounds far more natural.
ITU-T H.239 Support - Presentation Data Transferred at 30 fps*	With support for the ITU-T H.239 (video and presentation data) standard, the PCS-XA80 and the PCS-XA55 can send both the video and presentation data that is 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 also be shown either from a projector or a sub display, using the RGB output.
Compact and HD High-quality 8-megapixel Pixel CMOS Camera Unit (PCSA-CXA55)	The PCS-XA80 and the PCS-XA55 have a dedicated compact HD camera (PCSA-CXA55) with eight mega pixel CMOS sensor that brings you high-quality HD images at a resolution of in 1280 x 720 pixels, as smooth as 30 fps. They attach to a wide variety of displays in your office, so this HD visual communication system doesn't disturb or alter your existing office aesthetics.Covering an 80.1 degree wide angle, this HD camera has

	a lot of useful features, such as an electrical zoom(x3) capability, manual pan/tilt function, and privacy shutter.
Kiosk Mode	The PCS-XA80 and the PCS-XA55 have a convenient Kiosk mode that can be used to provide unattended services for applications such as remote consulting or customized distance learning. This mode not only provides a user-friendly interface for customers, but is also a delight for system integrators because it is both easy to configure and flexible. For example, up to four locations can be preset and customized thumbnail images can be designed
Video Annotation Function*	For effective communication, the PCS-XA80 and the PCS-XA55 offer a useful video annotation function. Conference participants can clearly point out specific parts of shared data, including live images and presentation data, by simply by writing on a tablet.This function helps minimize the time and effort required to communicate, enabling you to deliver clear,strong messages.
Enhanced Intelligent QoS(TM) Functions for Stable and Secure Videoconferencing	To handle the transmission of large amounts of HD video data, while maintaining high-quality and stable communication over an IP network, the units incorporate the following advanced Quality of Service (QoS) functions:
Multi-point Connection - Embedded MCU*	Using optional PCSA-MCG80 MCU software, the PCS-XA80 can be configured to communicate simultaneously with up to five remote videoconferencing sites (six sites in total), using either an IP (H.323 protocol) or ISDN (H.320 protocol) connection.
Simple Setup and Easy Operation	The units have been thoughtfully designed with an intuitive GUI, which includes a simple layer structure with translucent cascading menus. This provides simple functionality - users find it very easy to operate the entire videoconferencing system, including the camera.
One-touch Dialing With the RF Remote Commander Unit	For user convenience, the PCS-XA80 and PCS-XA55 adopt an RF Remote Commander unit which you do not have to point directly towards the system. What's more, the units have a convenient One-touch Dialing feature, which gives you easy connection to any of your registered contacts - just at the touch of a function button on the RF Remote Commander unit (this button corresponds to a thumbnail image on the GUI). Up to four contacts for one-touch dialing can be shown on the home menu from a maximum of 1,000 registered contacts.
Memory Stick(TM) recording - video/presentation data (including annotations) and audio can be recorded for later review	
Presentation data can be sent as a single stream by selecting the RGB input	
Built-in streaming function for multicasting to large audiences	
Support for IPv6	
Up to 100 camera preset positions can be stored, each with a thumbnail image for easy recall	

Specifications

Camera Specifications	Detail
Control In/Out	RS-232C x 1
Dimensions	282 x 56 (including rubber feet) x 244 mm (11 1/8 x 2 1/4 x 9 5/8 inches), excl. projections
Effective Pixels	Approx. 6.0 Megapixels (16:9)
Focal Length	f=2.9mm (F2.8)
Focus	Auto / Manual
Horizontal Viewing Angle	Approx. 80.1°
Operating Humidity	20 to 80% (non condensing)
Operating Temperature	5 to 35 °C (41 to 95 °F)
Others	Auto White Balance, Backlight Compensation
Pan Angle/Speed	Manual Pan±20° / Tilt±20°

Power Consumption	40 W (the codec only); Power consumption (stand-by) 10 W (the codec only)
Power Requirements	DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz)
Preset Positions	100 positions (Saved in Main Unit)
S/N Ratio	50 dB
Storage Humidity	20 to 80% (non condensing)
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Tilt Angle/Speed	Manual Pan±20° / Tilt±20°
Zoom Ratio	3x digital zoom
Communication Specifications	**Detail**
ITU-T Standards (Excludes audio/video standards)	H.221, BONDING, H.225.0, H.231, H.241, H.242, H.243, H.245, H.350, H.460.18, H.460.19
Lip Synchonization	ON/OFF
Network Protocols	10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1
Display Specifications	**Detail**
Horizontal Viewing Angle	Approx. 80.1°
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)
Interface Specifications	**Detail**
Audio Input	External analog microphone input Mini-jack (Plug in power) x 2 (L/R) EC-Mic Input x 2 (PCSA-A7) Audio Input (MIC/AUX) x 2 (RCA pin, stereo)
Audio Output	HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1
Data Sharing	H.239 (video and presentation data);the optional HD data solution software PCSA-DSG80
Main Unit 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
Main Unit Weight	Approx. 2.2 kg (4 lb 14 oz)
Memory Stick I/F	Memory Stick/Memory Stick Duo Slot x 1
Network	10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1
Operating Humidity	20 to 80% (non condensing)
Operating Temperature	5 to 35 °C (41 to 95 °F)
Power Consumption	40 W (the codec only) Power consumption (stand-by) 10 W (the codec only)
Power Requirements	DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz)
Storage Humidity	20 to 80% (non condensing)
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Video Input	D-Sub 15-pin Dedicated Camera I/F x 1, S-Video x 1, Y/Pb/Pr x 1, RGB (D-sub 15) x 1
Video Output	HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1
Network Features Specifications	**Detail**
NAT	Yes
Other Network Features	UDP shaping, TCP/UDP port setting, Auto gatekeeper discovery, Packet reordering, URI Dialing, IPv6
QoS (Quality of Service)	Adaptive FEC (Forward Error Correction) Real-time ARQ (Auto Repeat reQuest ARC (Adaptive Rate Control) IP Precedence DiffServe
UPnP	Yes
General Specifications	**Detail**
Communication protocol standards	H.320, H.323, IETF SIP

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) 16:9 - wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720)
Maximum frame rate	Max. 60fps: H.264 - 720p Max. 30fps: H.261 - QCIF, CIF, H.263 - QCIF, CIF, H.264 - QCIF, CIF, 4CIF, wCIF, w432p, w4CIF Max. 10fps: H.263 - 4CIF
Bit rate	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 PCSAB384S)
Bandwidth and coding (Audio)	MPEG-4 AAC Stereo: 22 kHz at 192 kb/s (IP only) MPEG-4 AAC Mono: 14 kHz at 48 kb/s, 64 kb/s, 96 kb/s MPEG-4 AAC Mono: 22 kHz at 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-canceling supported Noise reduction included Automatic gain control included
Protocol	TCP/IP, UDP/IP, RTP/RTCP, DHCP, DNS, TELNET, SSH, HTTP, SNMP, NTP, ARP, PPPoE, UPnP
QoS (Quality of Service)	Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), IP Precedence, DiffServe
Others network features	NAT, UDP shaping, TCP/UDP port setting, Auto gatekeeper discovery, Packet reordering, URI Dialing, IPv6
ITU-T (excludes audio/video standards)	H.221, BONDING, H.225.0, 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
Screen Layout	Full screen, Picture-in-Picture,Picture-and-Picture, Side-by-Side split screen
Data Sharing	H.239 (video and presentation data)*
Lip Synchronization	ON/OFF
Mic off Function	ON/OFF
Video input	D-Sub 15-pin Dedicated Camera I/F x 1, S-Video x 1, Y/Pb/Pr x 1, RGB (D-sub 15) x 1
Video output	HDMI (video, audio) x 1, RGB x 1
Audio input	External analog microphone input Mini-jack (Plug in power) x 2 (L/R) EC-Mic Input x 2 (PCSA-A7) Audio Input (MIC/AUX) x 2 (RCA pin, stereo)
Audio output	HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1
Memory stick	Memory Stick/Memory Stick Duo Slot x 1
Network	10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1
Control	RS-232C x 1
Maintenance interface	RS-232C x 1
Other interface	Tablet Interface x 1
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 (the codec only)
Power consumption (stand-by)	10 W (the codec only)
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
Image sensor	1/3.2-type 8 Megapixels CMOS image sensor
Effective pixels	Approx. 6.0 Megapixels (16:9)
Position preset	100 positions (Saved in Main Unit)
Focus	Auto / Manual
Gain	Auto (Auto Gain Control)
Focal length	f=2.9mm (F2.8)
Zoom ratio	3x digital zoom
Pan / Tilt angle	Manual Pan±20° / Tilt±20°
Horizontal viewing angle	Approx. 80.1°
S/N Ratio	50 dB
Power	Supplied from Codec Unit
Other features	Auto White Balance, Backlight Compensation

Accessories

Supplied Accessories

Model:	Description:	U.S.List Price
	AC adapter	Pricing available upon request
	HDMI cable (3m	Pricing available upon request
	RF Remote Commander Unit	Pricing available upon request
	Batteries for Remote Commander unit x 2	Pricing available upon request
	CD-ROM (Operating instructions, Before using this unit, Connection sheet, Quick dial guide)	Pricing available upon request
	Before using this unit, Connection sheet, Quick dial guide, Important notice regarding software, Warranty booklet	Pricing available upon request