SONY

PCS-XC1

Portable wireless HD video
conferencing system

Overview

Easily hold high-quality video conferences wherever there's a network connection available

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Businesses, schools and public organisations can communicate more effectively and spontaneously with the PCS-XC1 portable video conferencing system that includes an optional wireless capability (license required).

Quick and easy to set up, this all-in-one solution lets conference participants share crisp sound and smooth, clearly-packed HD pictures over the internet with colleagues anywhere in the world. The high-quality pan/tilt/zoom camera captures smooth, finely-detailed video images that make virtual meetings more natural and immersive - even in low light or against harsh back-lighting where other VC systems struggle. For critical applications such as healthcare and broadcasting, the system can be optionally upgraded to support even higher-quality Full HD 1080p video at a smooth 60 frames per second.

Meetings can be further enhanced with live data sharing. Just hook up a PC and illustrate your point with on-screen slide presentations, documents or videos. Add an optional wireless

pen/tablet and make on-screen annotations while you're talking for extra emphasis. Conferences can also be recorded directly to a connected USB memory for easy storage and sharing.

Everything's included in the compact, highly portable unit: colour HD camera and codec, plus Wi-Fi capability (requires optional license) for fuss-free connection to wireless networks in any office, hotel, classroom or huddle space.

Affordable, flexible and refreshingly simple to use, the PCS-XC1 puts high quality 'on-the-go' video conferencing in reach of every organisation.

This product contains pre-installed software and requires the purchase of licence keys to activate some functions.

Features

Light, compact and highly portable
Hold video conferences virtually anywhere, even in small meeting rooms where space is at a premium. The all-in-one design allows easy portability and quick set-up without specialist technical know-how.

High quality HD pictures, even in low light
The camera's highly sensitive Exmor CMOS image sensor captures detailed HD video (720p) at a smooth 60 frames per second - even on dull days or in poorly lit meeting rooms. An optional Full HD (1080p) upgrade is available for even higher picture quality in critical applications.

Pan/tilt/zoom camera with wide field of view
The pan/tilt/zoom camera can be controlled remotely with the supplied remote commander. The camera's wide maximum viewing angle ensures that every conference participant in the room can be seen clearly.

High quality pictures in any lighting conditions

Sony's advanced View-DR technology expands dynamic range to accommodate extremes of contrast in the same scene, such as when the presenter's face is backlit by a sunny window.

Crisp, clear digital audio

Connect the optional PCS-A1 omnidirectional microphone for capture crisp digital sound, with on-board echo cancelling to ensure that every conference participant is heard loud and clear.

High-efficiency coding and intelligent QoS

The PCS-XC1 supports the highly efficient H.264 High Profile video coding scheme. Intelligent QoS (Quality of Service) adapts to network conditions, allowing a high-quality experience with fewer dropped frames and frozen pictures - even over low-bitrate network connections.

Easy wireless networking

Wi-Fi capability (requires optional license) simplifies connection to any local wireless network (WLAN) in conference rooms, classrooms hotel suites or huddle spaces.

Simultaneous data sharing

Enrich video conferences by sharing live presentations and other materials with SVGA quality from a connected PC. Data and the main video image can be viewed simultaneously on a single monitor at the remote site, with a choice of split-screen and PiP (Picture in Picture) options.

Record conferences on USB flash memory

HD video and audio can be stored directly onto a USB flash memory device for easy sharing, with no need for any additional recording hardware.

Add video annotations

Add an optional wireless pen and tablet to make live on-screen video annotations to slide presentations, documents and more.

One-touch dialling

Just pick a contact from the integrated address book to launch a conference with a single touch.

Intuitive operation with handy remote

It's easy to operate the PCS-XC1 via its intuitive user interface, using the supplied RFZ remote commander to launch conferences, control the camera and adjust other settings.

Specifications

Format	
Communication Protocol	ITU-T H.323, IETF SIP
Video Encoding	H.263, H.263+, H.263++, H.264 Baseline Profile, H.264 High Profile, MPEG-4 SP@L3 (SIP only)
Audio Encoding	G.711 (3.4kHz@56/64kbps), G.722 (7.0kHz@48/56/64kbps), G.728 (3.4kHz@16kbps), MPEG-4 AAC-LC Mono (11kHz@64/96kbps), MPEG-4 AAC-LC Mono (22kHz@96kbps)
Far End Camera Control	H.281 (Zoom / Pan / Tilt / Preset)
Frame Format	H.225
Dual Stream	H.239 (video and presentation data) (transmission and reception)

Encryption**	H.235 version 3
Other	H.460.18, H.460.19

Camera

Image Sensor	1/2.8-type "Exmor" CMOS image sensor
Output Pixels (H x V)	1920 x 1080
Frame Rate	59.94 fps
S/N Ratio	50 dB
Brightness Control	Auto/Manual
Zoom Ratio	x144 zoom (12X optical zoom, 12X digital zoom)
Focusing System	Auto/Manual
Horizontal Viewing Angle	Approx. 71°
Focal Length	f = 3.9 mm to 46.8 mm
F-Number	F1.8 to F2.0
Pan/Tilt Angle	Pan ±100°/Tilt +25°
Preset Position	100 positions
Power Supply	Supplied from Codec Unit

Other Features	Auto Gain Control, Auto White Balance, Backlight Compensation

Video

Resolution	[4:3] QCIF (176x144), CIF (352x288), 4CIF (704x576) [16:9] WCIF (W288p) (512x288), W432p (768x432), W4CIF (1024x576), 720p (1280x720), 1080i (1920x1080), 1080p (1920x1080)*1
Frame rate	Up to 60fps (H.263, H.263+, H.263++, H.264, H.264@720p, H.264@1080p, MPEG-4 SP@L3, except for H.263 4CIF)*2
Screen Layout	Full Screen / PinP / PandP / PandPandP / Side by Side
Communication Parameter Settings	YES (Auto / Manual) (Resolution, Bitrate, Frame Rate)
Notes	*1 : 1080p and 1080i are available after installing the optional PCSA-RXC1 HD upgrade software. *2: H.264@1080p is available after installing the optional PCSA-RXC1 HD upgrade software.

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Audio	
Audio Channel	Monaural
High Quality Audio	Echo Canceller (Enable to turn ON and OFF), Auto Gain Control, Auto Noise Reduction
Lip Sync	YES (Enable to turn AUTO and OFF)
Mic ON/OFF	YES

Network	
Network Protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP, PPPoE, UPnP
QoS (Quality of Service)	Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), Adaptive FEC (Forward Error Correction), IP Precedence, DiffServe
Network Function	UDP Shaping, TCP/UDP Port Setting, NAT Support, Auto Gatekeeper Discovery, URI Dialing, Encryption**, IPv6
Protocol Stack	IPv4, IPv6

Bit Rate	64 kbps to 4,096 kbps
H.239 Presentation	YES 1080* / SXGA / WXGA / 720 / XGA @30fps
Note	* : Available when installing the HD upgrade software option PCSA-RXC1.

Interface	
Video Input	HDMI x 1 *2
Video Output	HDMI x 1 *2
Audio Input	Mic In (mini jack, plug-in power) x 1 HDMI x 1
Audio Output	HDMI x 1
Network Interface	Gigabit Ethernet (10BASE-T/100BASE-TX/1000BASE-T) x 1, Wireless LAN *3
External Control	mini-USB
Other	USB x 2 *4
	*2 : HDCP and HDMI CEC are NOT supported. *3 : The wired LAN and wireless LAN features are NOT available at

Notes	the same time. *4 : The USB connector on the front panel is prohibited from connecting any wireless LAN module of the wireless software option PCSA-WXC1 and wireless dongle of pen tablets as well as any tiny USB devices.

Others

USB flash memory	Save Still Image (JPEG), Version Up, Private Phone Book (Auto Dialing), Save/Load Setup, Save/Load Phone Book, Recording
Recording	YES (to USB flash memory) Video : 512 kbps and 1,024 kbps (2 steps) Audio : 64kbps
Still Image Capturing	YES
Annotation	YES*
Remote Control Interface	TELNET/SSH, WEB
Remote Commander	RFZ Remote Commander

Note	* : A pen tablet device should be prepared to use the annotation function.

General Note

**	Encryption is not available in the models supplied in some regions. Please consult with local representative.

Related products

PCS-MCS1

HD Multipoint Control Unit (MCU) System

PCS-MEP

IPELA Communication Mobile app for Android, iPhone®, iPad®, iPad Air™ and iPad mini™

PCS-XL55

HD Desktop Video Conferencing System

PCS-XG77S

HD Videoconferencing System (codec only)

PCS-XG100S

Full HD Videoconferencing System (codec only)

Gallery