SONY

PCS-MCS1

HD Multipoint Control Unit (MCU) System

Overview

Easily connect multiple videoconferencing sites with crisp HD image quality and data sharing

This compact, flexible Multipoint Control Unit (MCU) allows colleagues, customers and other partners to join videoconferences from mutiple locations with excellent image and voice quality. It's ideal for small businesses and workgroups that need affordable, easy-to-use conferencing facilities with the flexibility to add more sites as required.

This cost-effective solution offers several attractive benefits compared with conventional embedded MCU or dedicated external MCUs:
- Lower ownership costs than an external MCU
- No specialist IT/administrator or training required
- Quiet and efficient, with no dedicated server room needed.
- Always on, with no need for 'Host' terminal to be switched on for communications between 'remote sites'

The PCS-MCS1 connects up to four conferencing endpoints as standard. PCSA-MPE1 port extension software expands the maximum number of supported endpoints from four to ten. Adding PCSA-MPE2 software expands this further to a maximum of sixteen endpoints. Also available, PCSA-MSA1 optional software allows up to 16 users to join meetings remotely using

their smartphone or tablet while they're on the move.

Just enter an IP address to launch a meeting, or pick a stored number from the built-in phone book. Conferences are crisp, clear and secure, with blur-free Full HD images and high quality MPEG-4 AAC audio. Intelligent Quality of Service (QoS) optimises transmission, even with changing network conditions. Participants can view images from connected terminals with a choice of split screen modes. Data sharing lets participants make annotations to on-screen PC presentations with a pen/tablet. The space-saving unit fits discreetly in any meeting room or conference suite. Installation and set-up is quick and easy, with control from a connected PC using an intuitive web-based interface.

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

Features

High quality Full HD pictures and crisp digital sound
Every conference participant can enjoy smooth, detail-packed Full HD video (up to 1080p*) and high-quality MPEG4 AAC audio. * May not be 1080p depending on number of connected points and broadcast mode settings.

Clearer conferences with Intelligent QoS
Intelligent QoS (Quality of Service) reduces video artefacts for best picture quality under varying network conditions, even over long transmission distances.

Connect from four up to sixteen participants
In standard form, the PCS-MCS1 allows up to four sites to join multi-point meetings. Adding optional PCSA-MPE1 port extension software expands the maximum number of terminals

from 4 to 10 endpoints. Additional PCSA-MPE2 software expands this further to a maximum of 16 endpoints.

Join meetings on the move
Adding optional PCSA-MSA1 software to the PCS-MCS1 allows up to sixteen participants to join meetings from anywhere using their handheld device, with the IPELA Communication Mobile app (iOS/Android).

Choice of split-screen or voice activated modes
In split mode, every meeting participant appears on screen simultaneously. In Voice Activated mode, there's a full-screen view of the participant who's speaking currently.

Seven split screen modes
View up to 16 conference participants simultaneously with a choice of seven split-screen modes.

Full HD data sharing
Participants can collaborate with high-quality Full HD video and voice, while simultaneously viewing a shared presentation from a connected PC.

Dual network ports
Dual Ethernet ports allow simultaneous connection to two networks (LAN/Intrant and WAN/Internet) without having to switch network cables. There's no data transmission between networks, ensuring that meetings stay secure.

Share written annotations
Every connected site can make on-screen annotations with a pen/tablet and share with other conference participants

Easy to use web interface
The PCS-MCS1 can be controlled easily via its web-based interface (UI). Users can launch calls via IP address or phonebook, accept/decline inbound calls, and configure multi-

point meetings.

Choice of flexible meeting modes

Meeting administrators can operate the PCS-MCS1 via a connected PC in web control mode. Other participants can join meetings in ad-hoc mode.

More secure meetings

Latest ITU-T encryption standards ensure that transmission of video, audio and PC screen images over public networks remain secure.

Easy upgrades via USB

Always benefit from the latest system software, with easy upgrades via USB flash memory.

Specifications

General	
Power Requirements	DC 12 V (AC Adapter : AC 100 V to 240 V, 50/60 Hz)
Power Consumption	13 Watts
Operating Temperature	5 °C to 35° C (41° F to 95° F)
Storage Temperature	-20° C to + 60° C (-4° F to +140° F)
Operating Humidity	20% to 80% (no condensation)
Storage Humidity	20% to 80% (no condensation)
Dimensions (W x H x D)	Approx. 170 x 44 x 124.6 mm (6 3/4 x 1 3/4 x 5 inches) (excluding

	protrusions)
Mass	Approx. 0.65 kg (1 lb 6.9 oz)

Formats	
Communication Protocol	ITU-T H.323
Video Encoding	H.263, H.263+, H.263++, H.264 Baseline Profile, H.264 High Profile
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 (14kHz@64/96kbps), MPEG-4 AAC-LC Mono (22kHz@64/96kbps)
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

Video and Audio

Video Codec - Resolution	[4:3] QCIF (176x144), CIF (352x288), 4CIF (704x576) [16:9] WCIF (W288p) (512x288), W432p (768x432), W4CIF (1024x576), 720p (1280x720), 1080p (1920x1080)
Video Codec - Frame Rate	Up to 30 fps
Screen Layout	3 screens, 4 screens, 6 screens, 9 screens, 10 screens, 13 screens, 16 screens
Communication Parameter Settings	Auto / Manual (Resolution, Bitrate, Frame Rate)
Multi-stream Transmission/Reception	A/V only, 3 streams (video x2 + PC x1)
Audio Channel	Mono

Network and Multipoint

Network Protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP, PPPoE, UPnP
QoS (Quality of	Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate

Service)	Control), Adaptive FEC (Forward Error Correction), IP Precedence, DiffServe
Network Function	UDP Shaping, TCP/UDP Port Setting, NAT Support, Auto Gatekeeper Discovery, URI Dialing
Protocol Stack	IPv4
Bitrate	64 kbps to 16,000 kbps
Multipoint Capability	Up to 4 terminals (H.323) as standard Up to 10 terminals (H.323) with optional software PCSA-MPE1 Up to 16 terminals (H.323) with optional software PCSA-MPE1 and PCSA-MPE2

Interfaces

Network Interface	Gigabit Ethernet (10BASE-T/100BASE-TX/1000BASE-T) x 2
External Control	Mini-USB typed terminal *1
Other	USB x 1 Kensington Security Slot x 1

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Language	
Language on Web UI	English, Japanese, Simplified Chinese

Notes	
*1	The mini-USB typed terminal is NOT compliant with USB.

Related products

PCS-XC1

Portable wireless HD video conferencing system

PCS-MEP

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

PCS-XL55

HD Desktop Video Conferencing System

PCS-XG100

Full HD High Definition Videoconferencing System

PCS-XG77

High Definition Videoconferencing System

PCS-XG100S

Full HD Videoconferencing System (codec only)

PCS-XG77S

HD Videoconferencing System (codec only)

Gallery