

SONY

HD Multipoint Control Unit System

PCS-MCS1



IPELA



Sony now offers a new simplified MCU system, the PCS-MCS1 to deliver multipoint connectivity and communications full of Sony's latest technologies.

Providing simple and easy installation, the PCS-MCS1 can connect up to 16 sites*1 for visual communications with full HD 1080p*2 high-quality smooth and natural video images.

You can also utilize your own mobile device*3 to join the meeting when you're on the go.

The PCS-MCS1 is ideally placed for use in business applications that require flexibility and simplicity to bring various remote offices together using their visual communication systems.

*1 Up to four terminals can be connected as standard, adding the optional software PCSA-MPE1 increases capacity to 10 terminals, and adding the optional software PCSA-MPE1 and PCSA-MPE2 together increases this further to 16 terminals connectivity.

*2 May not be 1080p depending on number of connected points and broadcast mode settings.

*3 Mobile Endpoint Software is required on the mobile device and adding the optional software PCSA-MSA1 on the PCS-MCS1.

A meeting administrator can control the PCS-MCS1 as well as the multipoint meetings through the Web UI of PCS-MCS1. (Web control mode)



Using the Sony PCS-series visual communication terminal you can control the multipoint meeting through the on-screen menu of the PCS terminal. (PCS control mode)*3



*3 Future upgrade

Easy installation, Easy connection, Easy settings

Benefit from the compact design and low-noise, the PCS-MCS1 does not require to be installed in a dedicated server room. Place it anywhere and just connect a network cable and a power cable. Multipoint communications starts simply by dialing into the PCS-MCS1 from any PCS-series terminal or visual communications system. (Direct connection mode)



Various settings can be adjusted via a remote PC that is connected to the same network. In addition, simple settings can also be configured via a USB storage device.

High picture quality of 1080p full HD video and QoS

The PCS-MCS1 provides superb Full HD (1920 x 1080) picture quality with high quality audio MPEG-4 AAC as standard. This results in the natural communication with smooth, clear images and reduced blur, especially on moving objects. Together with Sony PCS-series terminals, the PCS-MCS1 optimizes Intelligent QoS (Quality of service) transmission which significantly reduces the video artifact caused by packet losses regardless of the transmission distance. This is realized by Sony's sophisticated technologies applied in accordance with the network conditions.

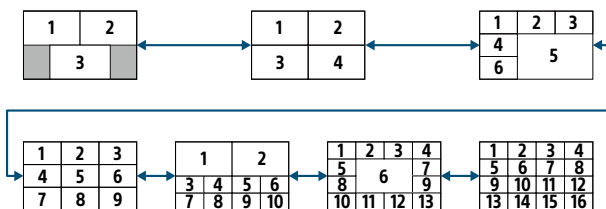
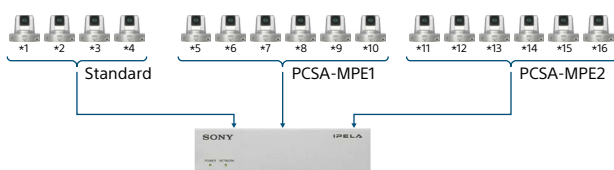
- Real-time ARQ (Auto Repeat request)
- ARC (Adaptive Rate Control)
- Adaptive FEC (Forward Error Correction)

Compact, Easy Installation, Multiple Connection, Anytime, Anywhere, and yet Cost Effective



High-performance Multipoint Capability

The PCS-MCS1 provides up to 4-site multipoint connecting capability as standard. In addition, up to 10 terminals are available by installing the optional software PCSA-MPE1, and up to 16 with both the optional software PCSA-MPE1 and PCSA-MPE2.



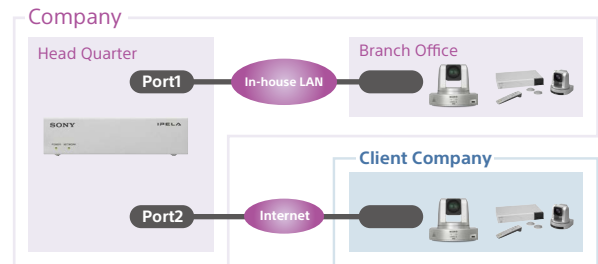
Cost Effective Solution

PCS-MCS1 offers cost effective 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'.

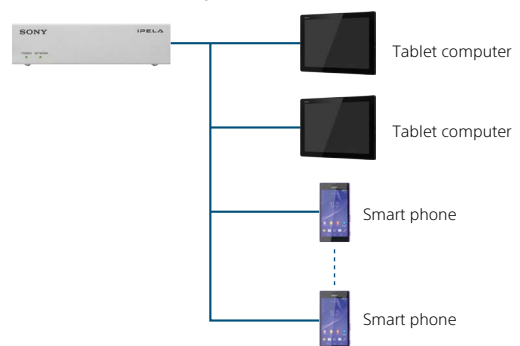
Dual Network

The PCS-MCS1 is equipped with two individual network ports that can be configured independently providing a mixed environment of LAN and WAN connectivity.



Direct Connection with Android™ /iOS™ Terminals

Up to 16 Android™ or iOS™ smart devices*4 in which the IPELA™ Communication Mobile applications are installed can connect to the PCS-MCS1 simultaneously.



*4 Up to 4 devices connection requires the optional software PCSA-MSA1, up to 10 devices the optional PCSA-MSA1 and PCSA-MPE1, and up to 16 devices the optional PCSA-MSA1, PCSA-MPE1, and PCSA-MPE2.

Other Features

- PPPoE (Point-to-Point Protocol over Ethernet)
- NAT (Network Address Translation)
- Encryption function ITU-T: Highly secure meetings are available by encryption of Video, Audio, and PC screen images.

Rear View



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 G.711 (3.4 kHz@56/64 kbps), G.722 (7.0 kHz@48/56/64 kbps), G.728 (3.4 kHz@16 kbps), MPEG-4 AAC-LC Mono (14 kHz@64/96 kbps)*1, MPEG-4 AAC-LC Mono (22 kHz@64/96 kbps)*2
Audio Encoding	
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 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
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*3
Other	USB x 1, Kensington Security Slot x 1
Language	
Language on Web UI	English, Japanese, Simplified Chinese

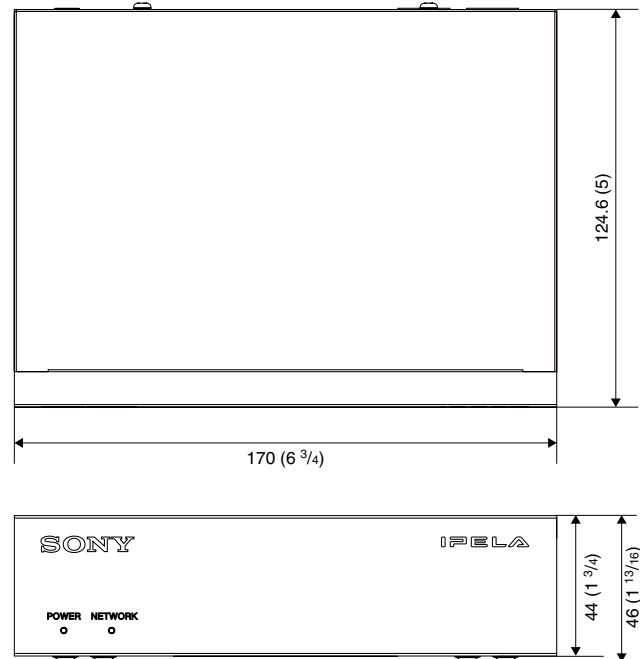
*1 In the case that the echo canceller is activated.

*2 In the case that the echo canceller is deactivated.

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

Dimensions

Unit: mm (inches)



Optional accessories

PCSA-MPE1: Port Extension Software for expansion of number of ports from 4 to 10

PCSA-MPE2: Port Extension Software for expansion of number of ports from 10 to 16

PCSA-MSA1: Mobile Access Software for up to 16 IPELA Communication Mobile applications to access PCS-MCS1

Distributed by

PEAK
CONFERENCE
www.PeakConference.com

©2016 Sony Corporation. All rights reserved.

Reproduction in whole or in part without written permission is prohibited. Features, design, and specifications are subject to change without notice.

The values for mass and dimension are approximate.

"SONY" and "IPELA" are trademarks of Sony Corporation.

iOS is a trademark of Apple Inc., registered in the U.S. and other countries.

Android is a trademark of Google Inc.

All other trademarks are the property of their respective owners.