



## Videoconferencing System

High performance videoconferencing system for small businesses. Based on the powerful PCS-1P videoconferencing platform.

A fast-paced global marketplace has made it more critical than ever before for organisations to improve the quality of their internal and external communications. In the face of increased competition and rising travel costs, corporate companies as well as educational, scientific and medical establishments are turning to videoconferencing as a cost-effective alternative to face-to-face meetings that can accelerate decision making and boost productivity.

Sharing technology developed for the powerful PCS-1P videoconferencing system, the compact and elegantly styled new Sony PCS-11P makes the benefits of networked voice, video and data conferencing more affordable than ever before. Connecting directly to standard office networks or linking with other sites via ISDN or a broadband connection to the Internet, the PCS-11P links staff at local office departments with regional sites and home-based teleworkers to conduct 'virtual' meetings as a time-saving alternative to costly travel.

Teaming excellent video quality with crisp, clear audio, the PCS-11P offers the additional convenience of sharing data within a videoconference using Sony's unique Memory Stick slideshow feature. At the touch of a button, it's easy to flip through a PowerPoint slide presentation stored on Memory Stick or share slide presentations with another system.



The PCS-11P also supports latest standards for 'dual streaming', permitting reception and display of PC images during a conference that have been sent from another videoconferencing system such as the Sony PCS-1P.

Support for internationally agreed communications standards also allows the PCS-11P to be used in combination with other already installed videoconferencing units. The PCS-11P can be further enhanced by a range of microphones, a camera stand and various display devices from Sony to expand your conferencing possibilities still further and build a dedicated, fully scalable voice, video and data conference solution.

Much more than just a videoconferencing system, the new Sony PCS-11P is a more cost-effective way to share thoughts, ideas, words and pictures... and dramatically improve the multimedia communications of any organisation.

# PCS-11P

## Features

### Outstanding video quality

Adhering to the latest industry standards for videoconferencing, the PCS-11P delivers crisp, clear pictures at up to 30 frames per second for smooth, life-like video transmission over IP, VPN and ISDN networks or over the internet, using ADSL or SDSL lines.

The PCS-11P supports the latest H.264 video coding standard, offering dramatically increased video quality at the same bandwidth as conventional video coding standards.

### Clear, intelligible audio

Clear, high quality audio is an integral aspect of every Sony videoconferencing system, and the PCS-11P features advanced audio processing functions to improve the clarity and intelligibility of every speaker in the room. The built-in noise suppressor and echo canceller reduce background hiss and troublesome reflections caused by voices bouncing off the walls and ceilings of a meeting room, while an automatic gain control constantly monitors audio levels to compensate for louder or quieter voices and ensure that every participant is clearly heard. The PCS-11P can be connected to up to two PCS-A1 omnidirectional microphones, or alternatively the optional CTE-600 Communication Transducer can be added to capture and reproduce the voices of as many as 20 participants in a larger meeting room. Featuring six radially arranged microphones plus a central omnidirectional speaker, the CTE-600 constantly monitors audio levels within the room to ensure that only the active speaker's voice is transmitted clearly while background voices and other extraneous noises are reduced.

### Easy data sharing

#### 1. Memory Stick SlideShow

Conference participants can easily present Powerpoint slides and pictures stored on a Memory Stick to all parties in the conference. Adding a second display monitor allows participants to present and be seen by their audience at the same time, while audience members can see the presenter and their presentation simultaneously. Sharing data via the unique Memory Stick SlideShow requires only that you bring a Memory Stick to the conference. Users do not even have to bring their laptops anymore.

#### 2. Seamless operation with Sony PCS-1P videoconferencing system

The PCS-11P can receive presentations and pictures through the latest dual stream standard making it the perfect partner for systems with dual stream capability such as the PCS-1P.

Similarly, the PCS-11P can display hand-written notes, drawings and diagrams on a monitor screen that have been captured using a Mimio Xi whiteboard connected to a 'host' PCS-1P.

Data received from a networked PCS-1P can also be stored on Memory Stick media inserted into the PCS-11P.

### Ensuring quality on your network

Maintaining consistent picture and audio quality levels is a common concern when running videoconferences over the Internet and data networks. The PCS-11P offers advanced functions to enhance Quality Of Service and provide a more satisfying, reliable and productive videoconference:

### Adaptive Rate Control

The adaptive rate control function varies the bit rate of transmitted audio and video data corresponding to changing network conditions, selecting the most appropriate frame rate at a particular instant. Video bit rates are automatically lowered when network traffic becomes congested, and increased when network performance increases to deliver the best possible conferencing quality at all times.

### ARQ (Auto Repeat reQuest)

The ARQ function maintains picture quality by buffering and re-sending lost data packets, improving audio and video performance even when network conditions are less than optimal.

### Quick, convenient operation

Getting the best out of the powerful capabilities of the PCS-11P is quick and fuss-free, with a simple and intuitive on-screen user interface which can be navigated using the handy remote commander. Making a videoconference call with the PCS-11P is as easy as making a telephone call. People anywhere in the world can be easily reached by means of their IP, ISDN or telephone number – or by selecting an entry from the PhoneBook of the system.

The PCS-11P allows users to keep a private phonebook on a Memory Stick for personal use. Using the unique auto-dial function from the private phonebook sets up the videoconference call. All the user has to do is insert the Memory Stick into the PCS-11P. Videoconferencing has never been easier.

## Optional Accessories

### CTE-600

Communication Transducer

Dimensions: Ø 248 x 104 (H) mm  
Mass: 1.5 kg



### PCS-B768

ISDN Unit

Dimensions: 165 (W) x 34 (H) x 127 (D) mm  
Mass: 0.40 kg



### PCS-B384

ISDN Unit

Dimensions: 165 (W) x 34 (H) x 127 (D) mm  
Mass: 0.40 kg



### PCS-A1

Microphone

Dimensions: Ø 74 x 16 (H) mm  
Mass: 0.17 kg



## Keeping confidential information confidential

The PCS-11P supports the Advanced Encryption Standard (AES), ensuring that video, audio and data conferences transmitted over local area networks or the Internet are safeguarded against unauthorised interception.

AES can be activated by entering an encrypted matching password on both systems in a videoconference before setting up the connection. AES is supported for conferences between two PCS-11P systems or in combination with the PCS-1P.

## Compatibility with Memory Stick media

The PCS-11P is compatible with Memory Stick removable media, making it quick and easy to augment conferences with a slideshow presentation or digital camera images stored on Memory Stick. As well as using Memory Stick for managing phonebook information, viewing system log information and uploading latest updates, the PCS-1P can also save images displayed during a videoconference to Memory Stick media in standard 4CIF format for sharing or storage.

## PCS-11P Memory Stick

### User benefits:

- **Easy data sharing :**  
During a videoconference, by using the Memory Stick SlideShow, images that are received can be saved on a Memory Stick to be reviewed later.
- **Private PhoneBook function:**  
Users can store their own private phonebook on a Memory Stick. A selected phonebook entry can also be configured for automatic dial-up when the Memory Stick is inserted into the PCS-11P.

## Flexible installation options

Featuring a separate Camera Unit and main Communication Terminal, the two-piece design of the PCS-11P offers a choice of flexible installation possibilities. Both units can be conveniently mounted on the optional PCS-STP1 Camera Stand to add a stylish note to any meeting room. The Camera Unit and Communication Terminal can be positioned directly on top of a television or video monitor to save space in the smallest of rooms.

## For even greater peace of mind

The PCS-11P is backed by the additional assurance of a 2-year Prime Support extended warranty – a comprehensive after-care programme that includes telephone assistance during installation and helpdesk support, plus free repairs in the event of a hardware fault plus supply of a loan unit collection and delivery in the event of your PCS-11P requiring factory repairs. (NB: Collect & Deliver covers EU, Iceland, Norway and Switzerland.) Please contact your Sony dealer for more information.

## System Components



Camera unit



Communication terminal



Remote commander

- **Installation and upgrading:**

A videoconferencing system can be installed and upgraded straight from the Memory Stick. Multiple installations can be done by simply copying and pasting the system settings and PhoneBook to another PCS-11P or PCS-1P.

- **Information retrieval:**

Call log files from the PCS-11P can be saved to a Memory Stick, providing all the relevant information about the system usage: the username, time of usage, bandwidth used, etc, thus facilitating invoicing for your company.



Memory Stick

## EVI-D100P

Communication Colour Video Camera

Dimensions: 113 (W) x 120 (H) x 132 (D) mm  
Mass: 0.86 kg



## PCS-STP1

Camera Stand

Dimensions: 386 (W) x 1170 (H) x 386 (D) mm  
Mass: 13.0 kg



# PCS-11P Specifications

Video	
Signal system	PAL
Standards	H.261, H.263, H.263+, H.263++, H.264
Resolution	QCIF, CIF
Frame rate	Max. 30 frames/s
Bit rate	Up to 1 Mb/s in H.323 (Incl. audio) Up to 768 kb/s in H.320 (Incl. audio)
Audio	
Bandwidth and coding	G.711: 3.4 kHz at 56/64 kb/s G.722: 7.0 kHz at 48/56/64 kb/s G.728: 3.4 kHz at 16 kb/s
Echo cancellation	Reduction rate: 30 dB Echo path length: 340 ms (4 kHz and below) 110 ms (4 to 8 kHz) Noise suppressor included Automatic gain control included
Graphics	
4CIF: 704 pixels x 576 lines (H.261 Annex D and H.263 Base)	
Picture in Picture	
Sub screen size: 1/9 (One of four corners)	
ITU-T Standards	
H.320, H.323, H.221, H.239, Bonding, H.281 FECC, H.225.0, H.245, T.120	
Network Protocols	
TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent), PING, DNS (Client), DHCP (Client), RTCP, RTP, TCP, ARP	
Lip Synchronisation	
Manual On/Off	
Camera Unit	
Image sensor	1/4 type CCD
Horizontal resolution	460 TV lines
Focal length	3.1 to 31 mm (F = 1.8 to 2.9)
Focus	Auto/Manual
IRIS	Auto
Horizontal view angle	6.6 to 65 degrees
Zoom ratio	x10
Pan angle	-100 to +100 degrees (Max. 300 degrees/s)
Tilt angle	-25 to +25 degrees (Max. 125 degrees/s)
Preset	Up to 6 positions
S/N	More than 50 dB
Others	Back light shooting
Remote Commander	
Format: Wireless SIRCS	
I/F of PCS-11P	
Video	S-video input x 1 Composite input x 1 S-video output x 2 Composite output x 1
Audio	Line input (RCA) x 1 External microphone input (Plug in power) x 2 Line output (RCA) x 2 Internal microphone x 1
Network	10Base-T/100Base-TX x 1
Memory Stick	Memory Stick slot x 1
Control	RS-232C/VISCA (Mini-DIN 8-pin) for second camera x 1 SIRCS IR output for TV monitor x 2 IR for Remote Commander x 1

I/F of PCS-B768	
ISDN: BRI (Basic Rate Interface) x 6	

I/F of PCS-B384	
ISDN: BRI (Basic Rate Interface) x 3	

Environment	
Operating temperature	5 °C to 35 °C
Operating humidity	30% to 70%
Storage temperature	-20 °C to +55 °C
Storage humidity	25% to 75%

Power Requirement and Consumption	
Requirement	AC 220 V to 240 V, 50/60 Hz
Consumption	DC 19.5 V, 3.5 A

Dimensions and Weight	
Communication Terminal	258 (W) x 54 (H) x 171 (D) mm, 1.3 kg (10 1/4 x 2 1/4 x 6 3/4 inches, 2 lb 14 oz)
Camera Unit	147 (W) x 130 (H) x 138 (D) mm, 1.1 kg (5 7/8 x 5 1/8 x 5 1/2 inches, 2 lb 7 oz)
Remote Commander	50 (W) x 24 (H) x 197 (D) mm, 0.14 kg (Incl. battery) (2 x 31/32 x 7 7/8 inches, 5 oz (Incl. battery))

System Components and Supplied Accessories	
<ul style="list-style-type: none"> <li>- Communication Terminal x 1</li> <li>- Camera Unit x 1</li> <li>- Remote Commander x 1</li> <li>- Camera Cable (0.25 m) x 1</li> <li>- AC Adaptor x 1</li> <li>- IR Repeater x 2</li> <li>- Manganese Battery for Remote Commander x 2</li> <li>- Velcro for Communication Terminal x 2</li> <li>- Double-faced Tape for Camera Unit x 3</li> <li>- Audio Cable (1.0 m) x 1</li> <li>- S-Video Cable (1.5 m) x 1</li> <li>- Operation Manual x 1 (Japanese, English, French, Spanish, Portuguese, Italian, German, Simplified Chinese)</li> <li>- Warranty Card x 1</li> </ul>	

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