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IPELA
INTEGRATED VISUAL COMMUNICATION

PCS-TL30P
Desktop Videoconferencing

PCS-TL30P

A Sleek, Personal, All-in-one Video Communication System

- Simple mouse operation
- Unique, easy-to-use features
- Integrated smart design

As the quality of IP networks improves, business work styles are changing to include more effective use of communication tools such as desktop videoconferencing systems. To meet the needs of those users who choose this new work style, Sony adds the new PCS-TL30P to its IPELA family of video communication systems.

The PCS-TL30P is an all-in-one video communication system that includes a digital PTZ camera, a 17.1-inch widescreen XGA LCD that doubles as a PC monitor, speakers and a microphone in a single lightweight and slim body.

Network-ready out of the box, the PCS-TL30P is a video communication system that allows you to instantly communicate with your business counterparts over IP networks. This unit is ideal for use on individual desktops and can even be used in small meeting spaces as required.

The PCS-TL30P can receive any kind of data displayed on a PC. Installing the optional PCSA-DSM1 gives you even greater flexibility by allowing you to also send such data to your videoconferencing counterpart.

The personal use PCS-TL30P can enhance effective communication by enabling you to grasp the actual situation during a videoconference. With the system's high-quality audio and video, reading expressions, voice tones, and body language can be done as if you are meeting face-to-face. The PCS-TL30P is the affordable videoconferencing solution for personal and professional use.

EASY TO USE FEATURES

- Mouse operation – for both PC and VC
- Intuitive Graphical Menus
- One-click dialling
- Flexible display modes
- Memory Stick support
- QoS (Quality of Service) functions

IPELA

Business is changing. The vision of integrated visual communication is becoming a reality with Sony IPELA – a suite of intelligent IP-based Network Video Monitoring and Videoconferencing products and solutions

Sony IPELA utilises the rapidly expanding global IP broadband network and advanced high resolution imaging technology to offer visual communications systems that enable customers to realise the Sony vision for the workplace of the future, where better business decisions are made as a result of enhanced, real-time person-to-person and location-to-location communication.

Sony IPELA Videoconferencing solutions offer customers a complete range of great-looking, affordable and simple-to-use conferencing systems, from compact all-in-one systems to high-end solutions with advanced capabilities. All Sony IPELA Video-conferencing solutions enable groups and individuals to share high quality voice, video and PC data cost-effectively over IP.

The PCS-TL30P is the latest addition to the IPELA line-up and brings enhanced communications to the desktop, empowering users to improve communications. It is based on industry standards and can therefore easily be integrated into the corporate network.

Reality

• High video & audio quality
• Effective, live personal communication
• Personal solution at an affordable price

❱ **As close as you can get to a face-to-face meeting**

Intelligence

• Quality of service maintains video and audio levels
• Recognises wide range of protocols
• Embedded security

❱ **Your applications are enhanced by technology**

Usability

• PC and VC operation with the same mouse
• Easy to set-up, easy to use
• Efficient use of workspace

❱ **Fits on your desktop and ready to start in minutes**

Typical System Configurations

PCS-TL30P in a One-to-One Videoconferencing

PCS-TL30P
(used with a PC)

INTERNET

Possibility of Secured 128-bit encrypted connection

IP Network

PCS-TL30P
(used alone)

User 1   User 2   User 3

Different user configurations and preferences thanks to Memory Stick
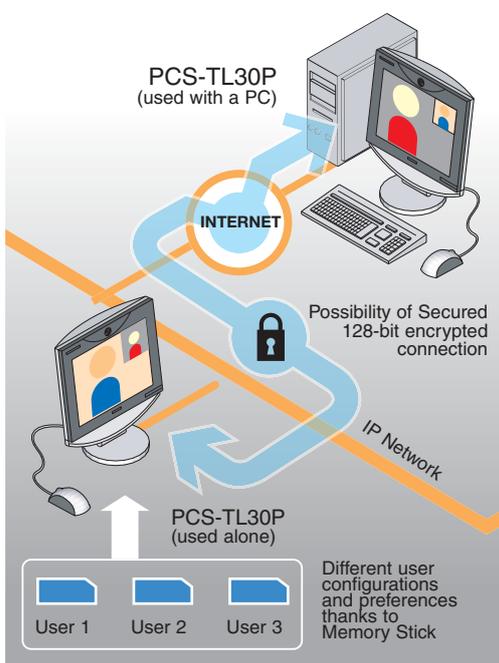
PCS-TL30P can participate and share data in a Multipoint Videoconference

PCS-TL30P   PCS-TL30P

Multipoint Control Unit
(e.g. the PCS-G50P)

IP Network

Share data

PCS-TL30P

PCS-TL50P

Shared data is displayed

Projector

PCS-TL30P connected with a Video Projector

IP Network
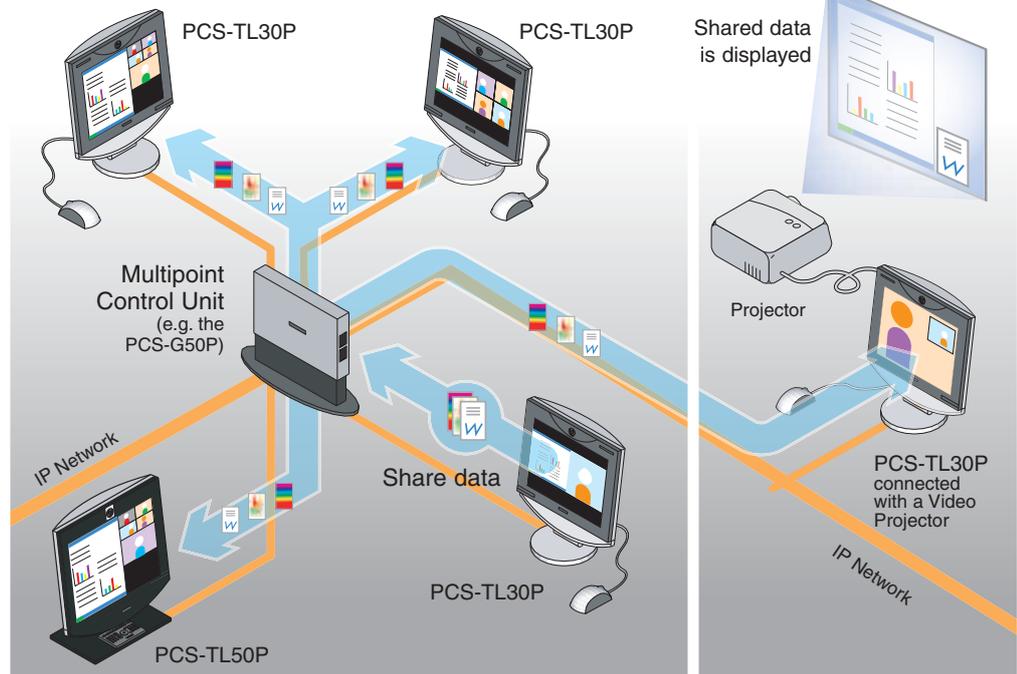
Main Features

All-In-One Design

The PCS-TL30P is an all-in-one video-conferencing system that combines a built-in camera, 17.1-inch Wide-XGA LCD, speakers and a microphone in one compact and sleek body. What's more, it even doubles as a PC display. And the unit has a Privacy Shutter that can be closed at times when you prefer not to receive videoconference calls. The unit also has a height adjustment and swivel mechanism so that it can be adjusted for optimal viewing. Alternatively, it can be wall-mounted.

Easy Operation

The PCS-TL30P is easy to operate using the supplied mouse connected directly to the unit. What's more, the mouse can also be used to control a PC thanks to a simple cable connection between the PC and the PCS-TL30P.

Thoughtfully designed with an intuitive GUI, the PCS-TL30P uses translucent cascading menus and displays all menu items in one layer. Text messages displayed at the bottom of the screen guide the user through operation while intuitive icons make it quick and easy to change display layouts, capture images and place calls.

Easy Setup

With a built-in Ethernet interface, the PCS-TL30P can be configured by simply plugging it into a LAN and making a few quick settings on its intuitive setup menu. The PCS-TL30P supports data transfer rates of up to 2 Mb/s over IP networks (H.323), making high-quality videoconferencing possible.

User-Friendly One-Click Dialling

A particularly user-friendly feature of the PCS-TL30P is one-click dialling, which allows you to easily connect to any of your listed contacts with a click on the screen. By pre-programming your contact information, picture icons and contact names will appear at the left side of the main menu. Up to 30 contacts for one-touch dialling can be flagged from a maximum of 300 registered contacts.

Multi-tasking

(Simultaneous Videoconferencing/PC)

With the PCS-TL30P, you can continue to work on your PC even while you are on a videoconference call. This powerful feature is ideal for business people who want to further increase their productivity.

Data-Sharing Capabilities

When using the optional PCSA-DSM1 Data Solution Module, which is neatly integrated into the rear of the unit, the PCS-TL30P is capable of sending or receiving any image that can be displayed on a PC (presentation data) in native XGA resolution during a videoconference. Because the PCSA-DSM1 is equipped with an RGB Out connector, presentation data from the PCS-TL30P can be enlarged by connecting the unit to equipment such as a projector or a large display, while allowing the user to continue with live video on the screen of the PCS-TL30P.

Still Image Capturing Function

The image from your videoconferencing counterpart can be captured and stored in the PCS-TL30P memory or on Memory Stick media. This image can then be easily registered in your address book as a picture icon for one-click dialing.

Memory Stick Support
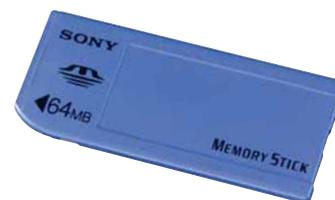
Memory Stick and Memory Stick PRO support allows users to store their contact information, still image data received from videoconferencing counterparts and images from confe-rences on a Memory Stick. You can simply insert the Memory Stick and the unit automatically recognises and activates the user's private phonebook, eliminating the need to re-enter contact information. Memory Stick support is also of real benefit to network administrators, allowing them to store, for example, factory settings, firmware updates or other network settings and configurations on a Memory Stick and use that to update or re-configure units quickly and easily.

Multiple Display Modes

The PCS-TL30P has multiple display modes such as Full Screen, Picture-in-Picture, or Picture-and-Picture (including a side by side split screen). What's more, a unique 3-window layout mode is available, which displays presentation data on the left side of the screen while displaying the two videoconferencing participants in two small windows on the right side of the screen.

Camera Module

Close-up of Camera Module

Accessories

PCSA-DSM1
Data Solution Module

PCS-A1
Omnidirectional Microphone

PCSA-A3
Unidirectional Microphone
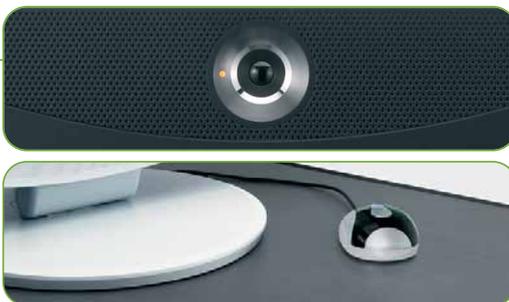
Excellent Video Quality

The PCS-TL30P complies with the ITU H.264 video codec in addition to previous versions of ITU videoconferencing codecs to maintain compatibility with legacy systems. ITU H.264 is the latest video standard that offers high-picture quality at a much lower bit rate than the conventional H.263 standard.

Superb Sound

Clear and natural-sounding audio is produced with the PCS-TL30P as it supports MPEG-4 AAC (Advanced Audio Coding) at 14 kHz. Boasting dual-integrated speakers and a built-in echo cancelling microphone, audio quality is much higher than conventional speakerphone systems. A microphone jack and a headphone jack are also available for external microphone or headset use.

Secure Videoconferencing

Secure videoconferencing over a network is possible because the PCS-TL30P supports 128-bit encryption, and offers two encryption modes. The first, complying with the ITU-T H.235 standard, allows encrypted communication with other H.235 compliant systems. The second, Advanced Encryption Standard (AES), is Sony proprietary and is ideal when connecting to other Sony products with AES as it provides even greater security.

When either of these modes is active, video, audio and graphics are encrypted for the duration of the videoconference.

QoS (Quality of Service)

When holding a videoconference over a network, a common concern is how to maintain video and audio quality when the performance of the network is changing. The PCS-TL30P provides two advanced functions to enhance QoS over a network:

• ADAPTIVE RATE CONTROL (ARC)

The adaptive rate control function automatically varies the audio and video data transfer rate to meet changing network conditions. It also selects the most appropriate frame rates, which helps prevent audio and video break-up.

• REAL-TIME AUTO REPEAT REQUEST (ARQ)

The Real-time ARQ function recovers lost IP packets. This is performed by buffering the packets at the originating site in a videoconference and resending any that are lost. This feature helps maintain the audio and video quality, and helps prevent picture collapse even under high network traffic conditions.

Participation in Multi-point Videoconferencing

The PCS-TL30P can be used to participate in multi-point videoconferences. When the PCS-TL30P is in a multi-point videoconference environment with an MCU (Multipoint Control Unit) software-equipped host system, such as the PCS-TL50P, PCS-G50P, PCS-G70P or the PCS-TL30P can receive multi-screen video images and audio directly from that host system. It can also both send and receive video and data to all connected systems.

User-friendly GUI

One Click Dial

Access Phone Book

Direct Dialing

Menu

Self View

Memory Stick indicator

Connect

Redial or history/call log

Transparent background to menu

Rearrange PiP / PaP

Data sent Button / Share data

Full screen video of remote site

Status and Mic level indicators

PiP of self-view

To place a call , press number entry area.   Number:012,345,678,912
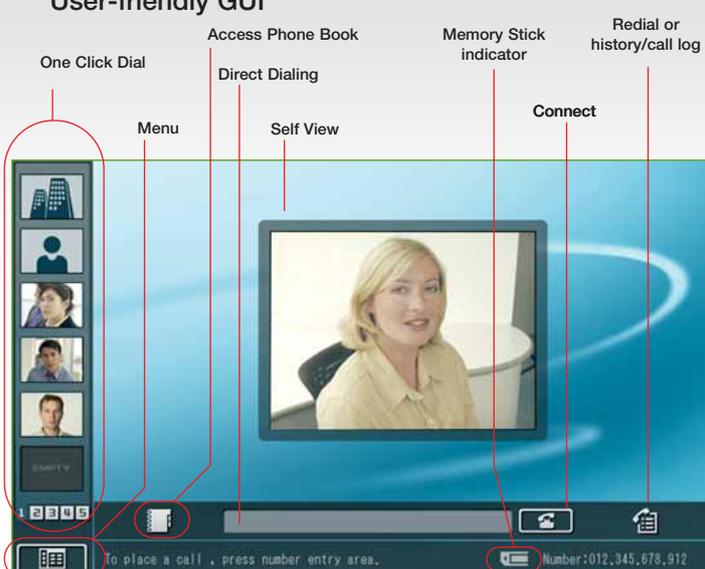
STARTUP WINDOW
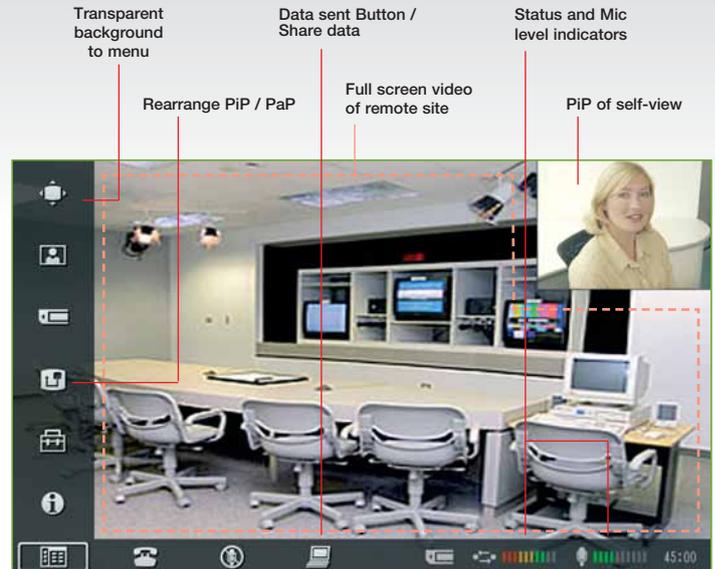
COMMUNICATION WINDOW

PCS-TL30P Specifications

Video

Standards	H.261, H.263, H.263+, H.263++, H.264, MPEG-4 SP@L3
Resolution	QCIF (176 x 144), CIF (352 x 288)
Frame rate	5/30 frames/s
Bit rate	Up to 2 Mb/s (2048 kb/s) in H.323 (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
	G.729: 3.4 kHz at 8 kb/s
	MPEG4 AAC (mono) 14 kHz at 64/96 kb/s

Integrated Display

LCD	17.1 inch Widescreen TFT
Aspect Ratio	15:9
Resolution	1280 x 768 (WXGA)
Response	13 ms or less
Contrast ratio	600:1
Horizontal viewing angle	176°
Colours	16.7 million

Graphics

XGA	1024 pixels x 768 lines (H.263), with PCSA-DSM1
4CIF	704 pixels x 576 lines (H.261 Annex D, H.263)

Screen Layout

Full screen	17.1 inch Full-screen (1280 x 768) display
Picture-in-Picture	Sub screen size (256 x 192), One of four corners
Picture-and-Picture (1)	Main screen size (1024 x 768)
	Sub screen size (256 x 192), Located at upper right-corner of display
Picture-and-Picture (2)	Main/Sub screen size (640 x 480), Side-by-Side Split Screen

ITU-T Standards (excludes audio/video standards)

H.323, H.225, H.281 FECC, H.245, H.239, H.235

Network Protocols

TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent), DNS (Client), DHCP (Client), RTP/RTCP, TCP/UDP

Control Port

LAN (Ethernet), RS-232C

Lip Synchronisation

Manual On/Off

Security

H.235 and AES

Network Features

QoS (Quality of Service)	ARC (Adaptive Rate Control), Real-time ARQ, (Auto Repeat reQuest), IP Precedence, DiffServ
NAT	Network Address Translation
UPnP	Universal Plug and Play
PPPoE	Point-to-Point Protocol over Ethernet
Port Numbers	PCS-TL30P can be manually configured by an administrator

Integrated Camera

Image device	1/3.2 inch CMOS
Number of effective pixels	1.3 million pixels
Picture Format	4CIF
Focal length	2.3 mm (F2.8)
Focus	Pan Focus
Zoom ratio	x 3 (Digital)
Horizontal viewing angle	88°
Pan angle	-29° to +29° (Digital)
Tilt angle	-24° to +24° (Digital)
Presets	Up to 6 presets
Others	Backlight compensation, Auto white balance

Integrated Microphone

Frequency response	14 kHz, Narrow-angle directional microphone

Integrated Speakers

Output	3 W x 2

Interface

Video	RGB input, mini D-Sub 15-pin x 1
Audio	External microphone input (mini-jack, plug in power) x 1, External headphone output (stereo mini-jack) x 1
Network	10Base-T/100Base-TX x 1
Memory Stick	I/F Memory Stick Slot x 1
PCSA-DSM1 Interface	Dedicated connector x 1
RS-232C	D-sub 9-pin x 1

General

Operating temperature	5 °C to 35 °C
Operating humidity	20% to 80%
Storage temperature	-20 °C to +60 °C
Power Requirements	AC 100 to 240 V, 50/60 Hz
Power Consumption	DC 19.5 V, 6.15 A
Dimensions (W x H x D)	424 x 376 x 95.5 mm (16 ¾ x 14 ⅞ x 3 ⅞ inches), excl. stand
	424 x 419 x 258 mm (16 ¾ x 16 ½ x 10 ¼ inches), incl. stand
Mass	Approx. 8 kg (17 lb 10 oz)

Supplied Accessories

PCS-AC19V6A or PCGA-AC19V7 (AC Adaptor)
PCS-RMU1 (Optical Mouse)
Quick Start Guide
Operation Manual CD-ROM
Worldwide Warranty Booklet
Power Cord

PCSA-DSM1

Interfaces (input/output)	Dedicated connector x 1, RGB output D-sub 15-pin x 1
Dimensions	(W x H x D) 107 x 250 x 34 mm (4 ¼ x 9 ⅞ x 1 ⅜ inches), excl. projections
Mass	550 g (1 lb 3 oz)

REAR PANEL

DIMENSIONS
Unit: mm (inches)

Screen depth: 95.5 (3 ⅞)
376 (14 ⅞)
Diag. 43.18 (17)
Height : 419 (16 ½)
424 (16 ¾)
Depth: 258 (10 ¼)