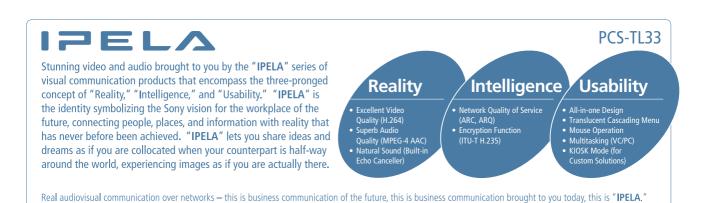


Video Communication System PCS-TL33



Connect Your Vision





A Sleek, Personal, All-in-one Visual Communication System, the PCS-TL33 Doubles as a PC Display and is Easy to Operate With its Single-layer GUI and Supplied Mouse. An Ideal Choice – Either for Your Desktop or a Small Meeting Space.

As the quality of IP networks improves, business work styles are changing to include more effective use of communication tools such as videoconferencing systems. Joining the Sony IPELA family, the PCS-TL33 brings this new efficient work style to the personal level. From your desk with just a click of a mouse, the PCS-TL33 can connect you with people all over the world.

The PCS-TL33 is a network-ready visual communication system that allows you to instantly communicate over IP networks. This unit is ideal for use on individual desktops and can even be used in small meeting spaces or kiosks as required. The PCS-TL33 is an all-in-one visual communication system that includes a widescreen 17.1-inch^{*1} WXGA LCD that doubles as a PC monitor, a built-in digital PTZ (Pan/Tilt/Zoom) camera, speakers, and a microphone in a single lightweight and slim body.

Thanks to its newly developed high-quality camera, the PCS-TL33 produces bright and clear images for your visual communication session. For ease of use, the PCS-TL33 has been designed with a variety of features such as a single-layer GUI, translucent cascading menus, and simple mouse operation. You can place a videoconference call quickly and simply by clicking on an icon for any of 30 people registered in your address book. What's more, you can upload your own picture files, or capture a still image from your videoconferencing counterpart via the PCS-TL33 itself. This image can then be registered as a picture icon in your address book for one-click dialing. In addition, by installing the optional PCSA-DSM1 Data Solution Module, the PCS-TL33 allows you to send and receive² any kind of "presentation data" displayed on a PC to your videoconferencing counterpart. The PCS-TL33 also features a "KIOSK" mode³ for unattended custom installations. Other features include flexible display modes, a built-in echo canceller, QoS features, and an encryption function.

The PCS-TL33 enhances effective communication thanks to its high-quality audio and video. This enables you to pick up clearly on facial expressions, tone of voice, and body language – as if you were meeting face-to-face in the same room. The PCS-TL33 is an affordable visual communication system that's ideal for both personal business use and for customized endpoints in large-scale solutions.

^{*1} Viewable area, measured diagonally.

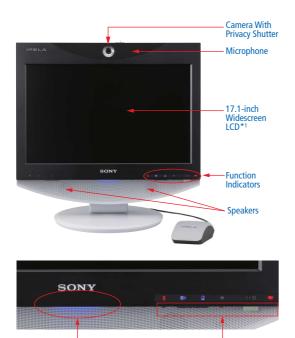
^{*&}lt;sup>2</sup> Sending "presentation data" requires the optional PCSA-DSM1 Data Solution Module (DSM) to be installed. The PCS-TL33 can receive presentation data without the DSM; however, it can receive data at a higher refresh rate with the DSM installed.

^{*3} For more information, please contact your local Sony dealer.

FEATURES

Transportable All-in-one Design

The PCS-TL33 is an all-in-one visual communication system that combines a built-in high-quality camera, widescreen 17.1-inch WXGA LCD, speakers, and a microphone in one compact and sleek body that can even double as a PC display. The unit incorporates a privacy shutter that can be closed if you prefer not to be seen when a call comes through. Also the PCS-TL33 has a height-adjustment and swivel mechanism so that it can be adjusted for optimal viewing comfort. And because the unit meets VESA standards for mounting on a bracket, it can be installed in a way that maximizes desktop workspace. In addition, the PCS-TL33 is easy to transport because it is equipped with a handle and is relatively light in weight.



Simple Menu Structure/Easy Operation With a Mouse

The PCS-TL33 was thoughtfully designed with an intuitive GUI, utilizing translucent cascading menus and displaying all menu items on one layer. The PCS-TL33 can be controlled via the supplied mouse, which can be connected to the unit directly. The mouse can also be used to control the unit and a PC simultaneously by connecting a separate cable between the PCS-TL33 and the PC. For ease of use, text messages are displayed at the bottom of the screen as a guide. And the intuitive icons make it quick and easy to change display layouts, capture images, and place calls.

User-friendly One-click Dialing

A convenient feature of the PCS-TL33 is one-click dialing, which allows you to easily connect to any of your listed contacts with just 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-click dialing can be flagged from a maximum of 500 registered contacts.



Menu

Launcher Screen

- Cascading Menus



Videoconferencing Screen (simulated images)

Multitasking (Simultaneous Videoconferencing/PC)

With the PCS-TL33, you can continue to work on your PC even while you are on a videoconference call. This convenient feature is ideal for business people who want to increase their productivity.

Easy Setup/Built-in Network Interface

Function Buttons

Online Indicator

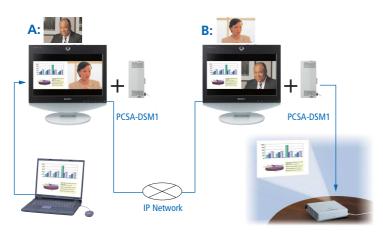
With a built-in Ethernet interface, the PCS-TL33 can be configured by simply plugging it into a LAN and making a few quick settings on its intuitive setup menu. The PCS-TL33 supports data-transfer rates of up to 2 Mb/s over IP networks (H.323), making highquality visual communication possible.

Data-sharing Capabilities

When using the optional PCSA-DSM1 Data Solution Module, which is neatly integrated into the rear of the unit, the PCS-TL33 is capable of sending or receiving^{•2} any image that can be displayed on a PC (presentation data) in native XGA resolution during a videoconference. And because the PCSA-DSM1 is equipped with an RGB OUT connector, presentation

data from the PCS-TL33 can also be enlarged by connecting the unit to equipment such as a projector or a large display.

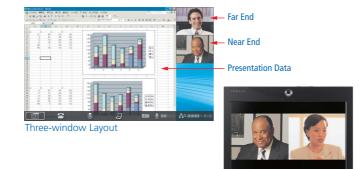




(simulated images)

Multiple Display Modes

The PCS-TL33 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 convenient three-window layout mode is available, which displays presentation data on the left side of the screen while displaying videoconferencing images in two small windows on the right side of the screen. Any of these flexible display modes can be selected so that both videoconferencing images and presentation data can be displayed in a manner that is effective and pleasing to the eye.



Side-by-Side Split Screen (simulated images)

KIOSK Mode

The PCS-TL33 has a convenient KIOSK mode^{*3} that can be used to provide unattended services for applications such as remote consulting or customized distance learning. This mode not only provides a user-friendly interface for customers, but is also a delight for system integrators because it is both easy to configure and flexible. For example, up to 30 locations^{*4} can be preset and customized thumbnail images can be designed.

^{*4} Thirty different locations (six icons on five tabs) can be preset. Up to six icons can be displayed on the screen at one time.



KIOSK Mode

Excellent Video Quality

The PCS-TL33 complies with the ITU-T H.264 video codec, in addition to previous versions of ITU-T videoconferencing codecs to maintain compatibility with legacy systems. ITU-T H.264 is the latest video standard that offers high picture quality at a much lower bit rate than the H.263 standard.

Superb Sound (Advanced Echo Canceller/Dual-integrated Speakers)

Clear and natural-sounding audio is produced with the PCS-TL33 as it supports MPEG-4 AAC (Advanced Audio Coding) at 14 kHz. Boasting an advanced echo canceller and dual-integrated speakers, the PCS-TL33 enables clear and natural sound with minimum distortion during your videoconference.

Private Phonebook on Memory Stick Media

If multiple users choose to use a single PCS-TL33, each user can store their personal contact information on **Memory Stick**[™] media cards. After inserting the Memory Stick media into the PCS-TL33, the unit automatically recognizes and activates the private phonebook, thereby eliminating the need to re-enter contact information to place a call.

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-TL33 provides two advanced functions to enhance QoS over a network:

Adaptive Rate Control (ARC)

The adaptive rate control function automatically varies the video bit transfer rate to meet changing network conditions. It also selects the most appropriate frame rates, which helps prevent video breakup.

Auto Repeat reQuest (Real-time ARQ Function)

The Real-time ARQ[™] function recovers lost IP packets. This is performed by buffering the packets at the encoder and resending any that are lost. This function helps maintain the audio and video quality, and helps prevent picture collapse even under high network traffic conditions.

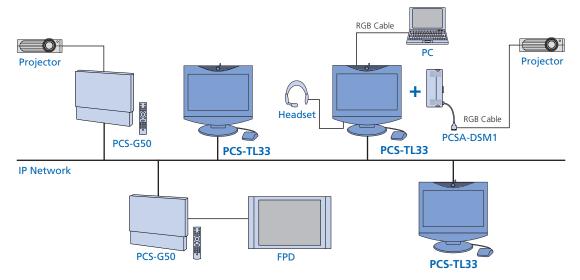
Secure Videoconferencing

Secure videoconferencing over a network is possible because the PCS-TL33 supports 128-bit encryption. The PCS-TL33 offers two encryption modes: one complies with the ITU-T H.235 standard, which allows encrypted communication with other H.235compliant systems, and the other is a Sony proprietary mode, which is ideal when connecting to other PCS Series systems and offers higher security. When either of these encryption modes is active, video, audio, and graphics are encrypted for the duration of the videoconference.



Without QoS (simulated images)

SAMPLE SYSTEM CONFIGURATION



OPTIONAL ACCESSORIES





Omnidirectional Microphone

PCS-A1

PCSA-DSM1 Data Solution Module

SPECIFICATIONS

	PCS-TL33
Video	
Standards	H.261, H.263, H.263+, H.263++, H.264,
Stanuarus	MPEG-4 SP@L3
Resolution	QCIF (176 x 144), CIF (352 x 288)
Frame rate	15 or 30 frames/s
Bit rate	Up to 2048 kb/s in H.323 (Incl. audio)
Audio	op to 2040 kb/s in 11.525 (incl. addio)
Bandwidth and coding	G.711: 3.4 kHz at 56/64 kb/s
banawidan and county	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
Echo cancellation	Built-in noise suppressor
Integrated Display	
LCD	17.1-inch Widescreen*
Resolution	1280 x 768 (WXGA)
Response	13 ms
Contrast ratio	600:1
	176°
Horizontal viewing angle Colors	16.7 million
Graphics	16.7 million
XGA	1024 nivelay 768 lines (U.262) with DCCA DCM1
4CIF	1024 pixels x 768 lines (H.263), with PCSA-DSM1
	704 pixels x 576 lines (H.261 Annex D, H.263)
Screen Layout Full screen**	17.1 is a Full among (1200 - 700) display
	17.1-inch Full-screen (1280 x 768) display
Picture-in-Picture	Sub screen size (256 x 192), One of four corners Main screen size (1024 x 768)
Picture-and-Picture (1)**	
	Sub screen size (256 x 192), Located at upper
<u></u>	right-corner of display
Picture-and-Picture (2)	Main/Sub screen size (640 x 480), Side-by-Side Split Screen
ITU-T Standards (excludes	
	H.323, H.225, H.281 FECC, H.245, H.239, H.235,
Network Protocols	H460.18, H.460.19, H.350
Network Protocols	TELNET (Conver) LITTE (Conver) ETE (Conver) SNME (Accept)
	TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent)
Control Port	DNS (Client), DHCP (Client), RTP/RTCP, TCP/UDP, ARP
Control Port	LAN (Telenet) BC 222C
Lin Constanting	LAN (Telnet), RS-232C
Lip Synchronization	Manual On/Off
Consulta	Manual On/Off
Security	11.225
	H.235
	Sony Proprietary AES Encryption, Password Protection
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



PCSA-A3 Unidirectional Microphone

Integrated Camera	
Image device	1/3.8-type CMOS
Total number of pixels	Approx. 1.33 million pixels
Number of effective pixels	Approx. 1.28 million pixels
Picture Format	4CIF
Focal length	2.1 mm (F2.4)
Focus	Pan Focus
Zoom ratio	x 3 (Digital)
Horizontal viewing angle	Approx. 87°
Presets	Up to 6 points
Others	Backlight compensation, Auto white balance
Integrated Microphone	
Frequency range	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 (41 °F to 94 °F)
Operating humidity	20% to 80%
Storage temperature	-20 °C to +60 °C (-4 °F to + 140 °F)
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 3/4 x 14 7/8 x 3 7/8 inches), excl. stand
	424 x 419 x 258 mm
	(16 3/4 x 16 1/2 x 10 1/4 inches), incl. stand
Mass	Approx. 8 kg (17 lb 10 oz)
Supplied Accessories	
	VGP-AC19V15 (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 1/4 x 9 7/8 x 1 3/8 inches), excl. projections
Mass	550 g (1 lb 3 oz)
* Viewable area, measured o	tiagonally.
** If the PC Display Button is	pressed, presentation data is displayed in the main screen
	onferencing images are displayed in two sub screens per right-corner of the display (three-window layout mode).
Memory Stick, Memory Sti Memory Stick PRO Duo™ N	ck PRO [™] (2GB or less), Memory Stick Duo [™] with adaptor, with adaptor, MagicGate [™] Memory Stick/MagicGate
technology.	laptor containing files without content protection
ine optional PCSA-DSM1	Data Solution Module fits into the rear of the PCS-TL33.
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