

# IPELA

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

Sony IPELA uses the rapidly expanding global IP broadband network and advanced high resolution imaging technology, to offer visual communications systems for your workplace. Sony IPELA enhances real-time person-to-person and place-to-place communication, to help you make better business decisions.

With a range of attractive, affordable and easy to use conferencing systems, Sony IPELA videoconferencing allows groups and individuals to share high quality voice, video and PC data cost-effectively over IP.

The PCS-TL33P is the latest addition to the IPELA line-up. Based on industry standards and easily integrated into your corporate network, it takes communications to a higher level, to make business personal.

## Reality

- Excellent video quality
- Superb natural sound
- As close as you can get to a face-to-face meeting

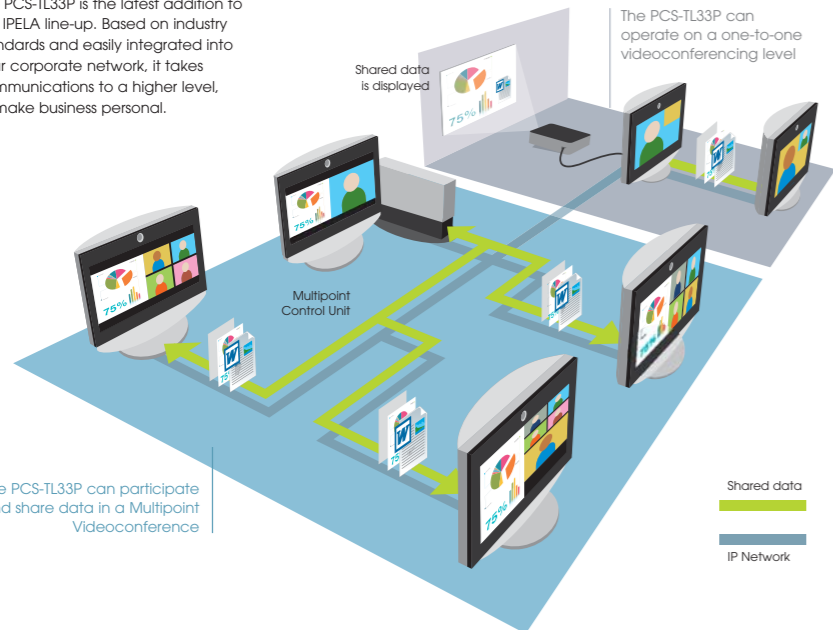
## Intelligence

- ARC and Real-time ARQ™ for consistent quality of service
- Encryption function for effective security

## Usability

- PC and videoconferencing with the same mouse
- Easy to set-up, easy to use
- Sleek, all-in-one design
- Multitasking and KIOSK mode

## Typical System Configuration



The PCS-TL33P can operate on a one-to-one videoconferencing level

## PCS-TL33P Specifications

<b>Video</b>	
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	15 or 30 frames/s
Bit rate	Up to 2048 kb/s in H.323 (incl. audio)
<b>Audio</b>	
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
Echo cancellation	Built-in noise suppressor
<b>Integrated Display</b>	
LCD	17.1-inch Widescreen*
Resolution	1280 x 768 (WGA)
Response	13 ms
Contrast ratio	600:1
Horizontal viewing angle	176°
Colors	16.7 million
<b>Graphics</b>	
XGA	1024 pixels x 768 lines (H.263), with PCSA-DSM1
4CIF	704 pixels x 576 lines (H.261 Annex D, H.263)
<b>Screen Layout</b>	
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
<b>ITU-T Standards (excludes audio/video standards)</b>	
	H.323, H.225, H.281 FECC, H.245, H.239, H.235, H.460.18, H.460.19, H.350
<b>Network Protocols</b>	
	TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent) DNS (Client), DHCP (Client), RTP/RTCP, TDP/UDP, ARP
<b>Control Port</b>	
	LAN (Telnet), RS-232C
<b>Lip Synchronization</b>	
	Manual On/Off
<b>Security</b>	
	H.235 Sony Proprietary AES Encryption, Password Protection
<b>Network Features</b>	
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
<b>Integrated Camera</b>	
Image device	1/3.8-type CMOS
Total number of pixels	1.33 million pixels
Number of effective pixels	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	87°
Presets	Up to 6 points
Others	Backlight compensation, Auto white balance
<b>Integrated Microphone</b>	
Frequency range	14 kHz, Narrow-angle directional microphone
<b>Integrated Speakers</b>	
Output	3 W x 2
<b>Interface</b>	
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
<b>General</b>	
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	8 kg (17 lb 10 oz)
<b>Supplied Accessories</b>	
	VGP-AC19V15 (AC Adaptor) PCSRMU1 (Optical Mouse) Quick Start Guide Operation Manual CD-ROM Worldwide Warranty Booklet Power Cord
Interfaces (input/output)	PCSA-DSM1**** 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 diagonally.

\*\* If the PC Display Button is pressed, presentation data is displayed in the main screen (1024 x 768) and videoconferencing images are displayed in two sub screens (256 x 192 each) at the upper right-corner of the display (three-window layout mode).

\*\*\* Supports Memory Stick, Memory Stick PRO™ (2GB or less), Memory Stick Duo™ with adaptor, Memory Stick PRO Duo™ with adaptor, MagicGate™ Memory Stick/MagicGate Memory Stick Duo with adaptor containing files without content protection technology.

\*\*\*\* The optional PCSA-DSM1 Data Solution Module fits into the rear of the PCS-TL33P.

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[www.sonybiz.net/videoconferencing](http://www.sonybiz.net/videoconferencing)

SONY



Sony PCS-TL33P  
Engage Differently  
with Sony Videoconferencing

SONY

IPELA  
INTEGRATED VISUAL COMMUNICATION

Business has never been so competitive, and customers have never been more demanding. They want rapid results, but still expect your personal attention. Sony videoconferencing brings you the answer, making your business communications more immediate, professional and effective.



## Sony Videoconferencing Achieve More.

**Much more personal than making contact by email or phone, videoconferencing with the Sony PCS-TL33P lets you see and speak to customers and colleagues anywhere in the world from your desk. You can develop stronger working relationships and gauge their reactions instantly - making business more responsive and productive.**

The Sony PCS-TL33P is a versatile business tool with superb video and audio quality. Ready to plug into your IP network, its sleek design takes up little space on your desktop, and the widescreen video display doubles as a PC monitor. This dual role makes it even easier to share and display data during videoconferencing; in fact, every aspect of the PCS-TL33P is designed for easy, intuitive use. In KIOSK mode, it can even work unattended, for remote consulting or distance learning.

With the Sony PCS-TL33P, you benefit from an all-in-one business tool that helps you work more flexibly and productively, and can talk face-to-face with your international colleagues, without travelling round the world. So you reduce costs, and your carbon footprint. And as it's a Sony, quality and reliability are built-in from the start.

### PCS-TL33P Features

Superb audio quality with echo canceller

High frame rates and high quality camera for smoother video

Dual functionality - desktop videoconferencing monitor and PC display

KIOSK mode - ideal for remote learning

Easy to use interface

Superb audio quality with echo canceller

The PCS-TL33P produces natural-sounding audio to MPEG-4 AAC (Advanced Audio Coding) standard, so you can clearly hear your colleagues' tone of voice and concentrate on what they say. Your communications are further enhanced by the built-in advanced echo canceller, which eliminates distracting audio delays.

High frame rates and high quality camera for smoother video

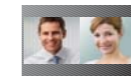
The PCS-TL33P gives you smoother and clearer video, so now you can accurately interpret body language and facial expressions. It complies with the latest H.264 standard, which combined with the built-in digital pan/tilt/zoom camera, plus Adaptive Rate Control (ARC) and Real-time ARQ™, means higher quality video and audio, even during heavy network traffic.

Dual functionality - desktop videoconferencing and PC display

Ideal for crowded desks, small meeting spaces or even kiosks, the PCS-TL33P combines a widescreen 17.1 inch WXGA videoconferencing monitor and PC display in one sleek unit. The display is versatile and adaptable, with multiple display modes such as full screen, picture-in-picture or picture-and-picture, including a side by side split screen. The three-window mode is especially useful during videoconferencing; you can display data on the left of the screen, with the participants' images in two smaller windows on the right. Alternatively, a privacy shutter option allows you not to be seen when a video call comes through. While your videoconferencing call is in progress, you can add to its impact and usefulness by sending and receiving data from your PC, using the optional PCSA-DSM1 module.



Picture-in-Picture



Picture & Picture



Picture & Picture



Data & Picture



3 window display



Videoconferencing monitor and PC display in one



Display up to six one-touch dial buttons in entry list

Further contact screens appear below entry list

High-resolution wide screen - 1280 x 768 (WXGA)

Exceptionally sharp and clear images

Custom background screen

**KIOSK mode, ideal for remote learning**

The KIOSK mode turns the PCS-TL33P into a convenient and easy way to interact remotely - for all types of organisations. For example, it can be used to deliver better customer service, patient care, remote interviewing and distance learning applications to name a few. KIOSK mode is quick and easy to set up, will run unattended and can accommodate up to 30 preset locations, identified by your chosen picture icons, ready to connect at the click of a mouse.

**Easy to use interface**

Logical and transparent drop-down menus and simple mouse commands ensure that in just a few minutes, using the PCS-TL33P will feel natural and familiar, so you quickly become more productive. You can make a videoconferencing call simply by using your mouse to click on the picture icons in your address book. And you can easily multitask - working on your PC even during a videoconferencing call.