

Secure videoconferencing – Advanced Encryption Standard (AES)

The PCS-TL50P supports the Advanced Encryption Standard (AES), ensuring that video, audio and data conferences transmitted over local area networks or the Internet are safeguarded against unauthorized 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-TL50P systems or in combination with the PCS-1P, PCS-11P or PCS-G70P systems.

Wireless LAN capability

By connecting an external wireless LAN device to the network interface of the PCS-TL50P, the unit can be used on a wireless network.

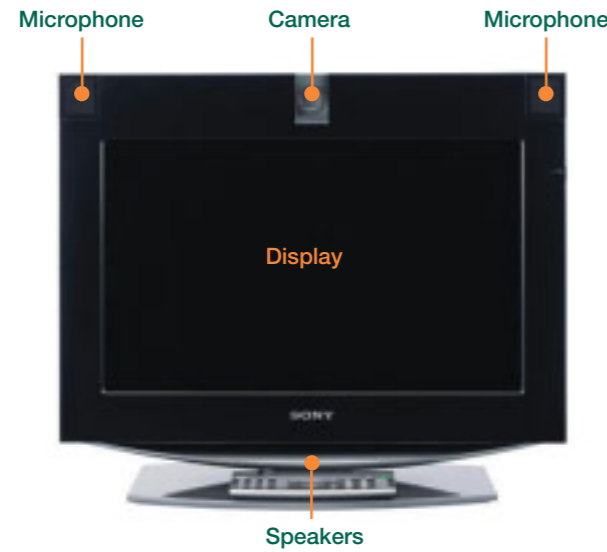
QoS (Quality of Service) enhancement functions

Maintaining consistent picture and audio quality levels is a common concern when running videoconferences over the Internet and data networks. The PCS-TL50P offers advanced functions to enhance Quality of Service and provide a more satisfying, reliable and productive videoconference.

Sony Prime Support®

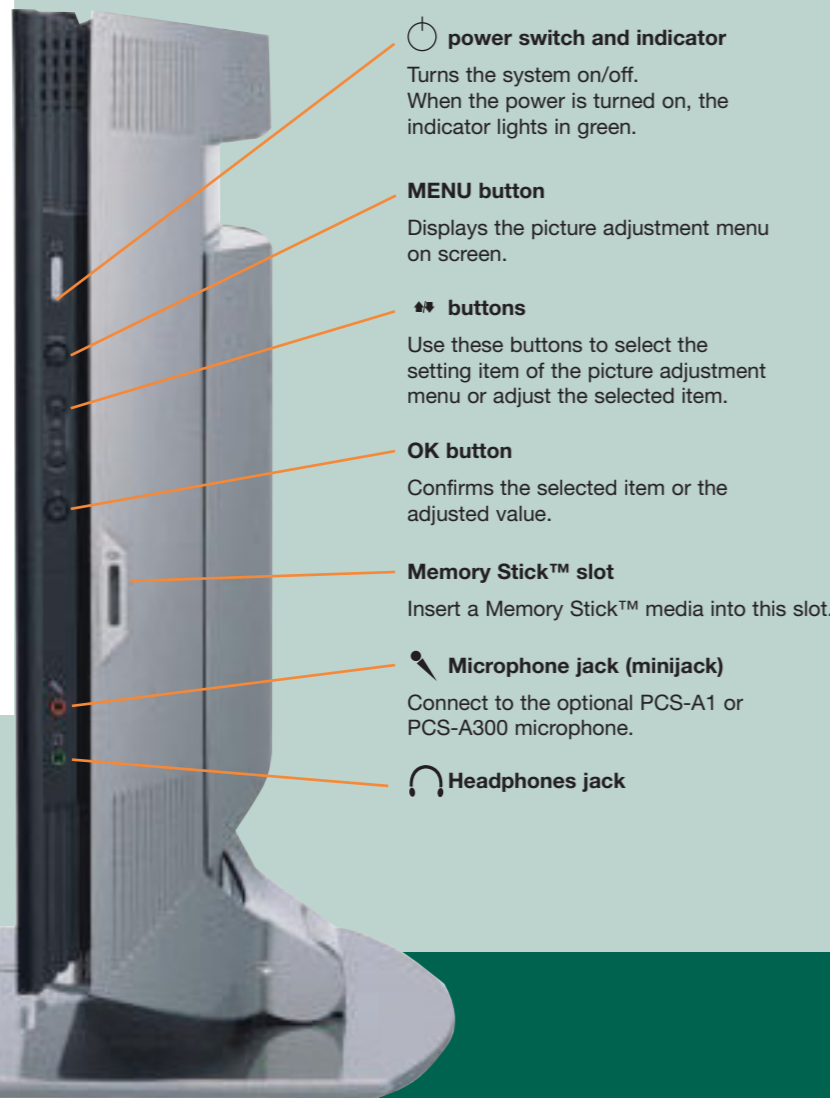
The PCS-TL50P is backed by the additional assurance of a 2-year Prime Support extended warranty a comprehensive after-care programme that includes telephone assistance during installation and helpdesk support, free repairs in the event of a hardware fault plus supply of a loan unit collection and delivery* in the event of your PCS-TL50P requiring factory repairs. Please contact your Sony dealer for more information.

*Collect & Deliver covers EU, Iceland, Norway and Switzerland.



With its compact design and sleek looks, the Sony PCS-TL50P will enhance any office space.

PCS-TL50P Right Side



power switch and indicator

Turns the system on/off. When the power is turned on, the indicator lights in green.

MENU button

Displays the picture adjustment menu on screen.

⬅️➡️ buttons

Use these buttons to select the setting item of the picture adjustment menu or adjust the selected item.

OK button

Confirms the selected item or the adjusted value.

Memory Stick™ slot

Insert a Memory Stick™ media into this slot.

Microphone jack (minijack)

Connect to the optional PCS-A1 or PCS-A300 microphone.

Headphones jack

PCS-TL50P Specifications

| VIDEO | |
|---------------------|---|
| Signal system | PAL |
| Standards | H.261, H.263, H.263+, H.263++, H.264 H.263 Interfaced SIF MPEG4 SP@L3 |
| Resolution | QCIF (176 x 144) CIF (352 x 288) |
| Frame rate | 7.5/10/15/30 fps in H.261 1/2/3/5/6/7.5/10/15/30 fps in H.263 60/50 filed per sec for NTSC/PAL in Interface |
| mode | |
| Video Bitrate | Up to 768kbps in H.320 (incl. audio) Up to 2 Mbps(1920kbps) in H.323 (incl. audio) |
| Graphics Resolution | XGA: H.263, With PCSA-DSB1S 4CIF: H.261 Annex D and H.263 Base |

| AUDIO | |
|----------------------|---|
| Bandwidth and coding | G.711: 3.4kHz at 56k/64kbps G.722: 7.0kHz at 48k/56k/ 64kbps G.722.1: 7.0kHz at 24kbps /32kbps (H.323 only) G.728: 3.4kHz at 16kbps G.723.1: 3.4kHz at 5.3k/6.3kbps (H.323 only) G.729: 3.4kHz at 8kbps (H.323 only) MPEG4 AAC mono: 14kHz at 64kbps/96kbps |
| Echo Cancellation | Noise Suppressor included Automatic Gain Control included |

| Picture in Picture | |
|--------------------|------------------------------------|
| Sub screen size | equiv. 4.3 inch (256X192 pixels) |
| Position | One of four corners of main screen |

| Picture and Picture (1) | |
|-------------------------|---|
| Main screen size | equiv. 17.3 inch (1024X768 pixels) |
| Sub screen size | equiv. 4.3 inch (256X192 pixels) |
| Position | Sub screen is located at right-top of the display |

| Picture and Picture (2) | |
|-------------------------|---------------------------------------|
| Main/Sub screen size | equiv. 10.8 inch (640X480 pixels) |
| Position | Both screens are located side-by-side |

| Supported ITU-T Standard (except Video and Audio) | |
|--|--|
| H.320, H.323, H.221, Bonding, H.225.0, H.225.0, H.281, FECC, H.245, H.239, T.120 | |

| Supported Network Protocol | |
|--|--|
| TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent), DNS (Client), DHCP (Client), RTP/RTCP, TCP/UDP | |

| Internal MCU | |
|--|--|
| Up to 6 sites of video and audio in ISDN operation (PCS-320M1) | |
| Up to 6 sites of video and audio in IP operation (PCS-323M1) | |
| Up to 10 sites of video and audio in Cascading mode | |
| IP/ISDN bridging | |

| Control Port | |
|---------------|--|
| LAN(Ethernet) | |

| Lip Synchronization | |
|---------------------|--|
| Manual On/Off | |

| Security | |
|---------------------|--|
| AES encryption | |
| Password Protection | |

| QoS | |
|--|--|
| Adaptive Rate Control | |
| Real-time ARQ (Automatic Repeat reQuest) | |

| ADSL/FTTH Support | |
|-------------------|--|
| PPPoE | |

| CAMERA UNIT | |
|-----------------------|---|
| CCD | 1/3 CCD |
| Effective Resolution | 768(H) x 494(V) |
| Picture Format | NTSC |
| Horizontal Resolution | 450TV line |
| Lens | f=4.0mm (F2.0) |
| Focus | Pan Focus |
| IRIS | Auto (Digital AGC) |
| Zoom ratio | x2 and above (in digital form) |
| Pan | +/- 35 ° (in digital form) |
| Tilt | +/- 26 ° (in digital form) |
| Preset Position | 6 points |
| S/N | 48dB |
| Others | Back Light Shooting Auto White Balance |

| Integrated Display | |
|--------------------|-------------------------------|
| LCD | 20 inch widescreen TFT LCD |
| Aspect Ratio | 16:9 |
| Resolution | 1280 x 768 (WXGA) |
| Brightness | 400 Cd / m ² (MAX) |
| Response | within 15ms |
| Contrast Ratio | 500:01:00 |
| Viewing Angle | 160°and above |
| Color | 16.7million colors |

| Integrated Microphone | |
|-----------------------|---------------------------------|
| Microphone | Mono-Directional Microphone x 2 |
| Frequency range | 15kHz |

| Integrated Speaker | |
|--------------------|--------|
| Speaker | 3W x 2 |

| I/F of PCS-TL50 | |
|------------------|--|
| Network I/F | 10Base-T/100Base-Tx x1 External ISDN Unit I/F x1 |
| Audio I/F | External Microphone In x1 External Phone Out (Pin) x1 |
| Offline PC I/F | RGB Input x1 (D-Sub15) Line Input (Mini) x1 (Stereo mini) |
| Offline V/A I/F | Composite Input x1 Line Input (RCA) x2 (Stereo Lx1 Rx1) |
| Memory Stick I/F | Memory Stick Slot x1 |
| PW I/F | AC Adaptor x1 PW Switch x1 |
| DSB I/F | Dedicated Cable x1 (Connector: D-Sub15) |
| Others | Ground x1 |

| Environment | |
|-----------------------|---------------|
| Operating Temperature | 5°C ~ 35°C |
| Operating Humidity | 20% ~ 80% |
| Storage Temperature | - 20°C ~ 60°C |
| Storage Humidity | 20% ~ 80% |

| Power Requirement | |
|-------------------------|--|
| AC220V to 240V, 50/60Hz | |

| Power Consumption | |
|-------------------|--|
| DC19.5V, 7.7A | |

| Remote Commander (PCS-RTL50) | |
|------------------------------|-------------------------------|
| Format | Wireless SIRCS |
| Control | DC 3V Manganese Battery X2 |

| Dimensions and Mass | |
|--------------------------|--|
| W x H x D (mm) PCS-TL50P | 528 x 445 x 110 (Excl. Projected Parts) x 265 (Stand) |
| Weight (kg) PCS-TL50P | 10 Kg |
| W x H x D (mm) PCS-RTL50 | 167.4 x 19.0 x 87.3 (Excl. Projected Parts) |

| Standard Accessories | |
|--|---------------------------|
| PCS-TL50P | PCS-TL50P (Main Unit) x 1 |
| PCS-RTL50 (Remote Commander) x 1 | |
| PCS-AC19V8 (AC Adaptor) x 1 | |
| Manganese Battery for Remote Commander x 2 | |
| Quick Operation Guide x 1 | |
| Operation Manual CD-ROM x 1 | |
| W/W Warranty Card x 1 | |

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Features

All-in-one design

Unlike typical videoconference systems, the PCS-TL50P has everything you need built into a single package that can double as a PC monitor. Its bright 20-inch wide display can properly present images in both 16:9 and 4:3 aspect ratios. The unit also has a built-in digital PTZ (Pan / Tilt / Zoom) camera that is used to precisely capture images, and a privacy shutter that can be closed at times when you prefer not to receive videoconference calls. In addition, built-in speakers and microphones provide high audio quality during videoconferences.

Flexible and scalable

With a built-in Ethernet interface, the PCS-TL50P can be configured by simply plugging it into a LAN (Local Area Network) and making a few quick settings on an intuitive setup menu. The PCS-TL50P supports connections up to 2 Mbps over IP networks, making high-quality videoconferencing possible across company networks, leased lines, or DSL connections from home.



One-touch dialing GUI

An optional ISDN network adapter is available for videoconferencing over ISDN networks; the PCSA-B384S or PCSA-B768S network adaptors can connect up to a maximum of 3 or 6 ISDN lines respectively. This gives you a connection speed up to 384 Kbps or 768 Kbps connecting to any combination of other videoconference systems, fixed or mobile telephones.

Powerful built-in multipoint conferencing capabilities

The PCS-TL50P[®] can be configured to communicate with up to 5 other sites simultaneously, whether they are videoconference systems or (mobile) telephones, connected over (any mix of) IP, DSL or ISDN lines. In cascaded mode, you can even bring up to 10 sites into one videoconference. The high bandwidth of 384 Kbps per site in such a conference ensures superb video and audio quality, while sending large files from a PC.

Ease-of-use

- User-friendly remote commander / Intuitive GUI
The PCS-TL50P is thoughtfully designed with an intuitive on-screen user interface and a user-friendly Remote Commander. Displaying only required information, the on-screen menus are complete and comprehensive and allow easy navigation; in addition, text messages are displayed at the bottom of the screen for additional guidance. Conveniently situated one-touch operation buttons on the Remote Commander make it quick and simple to change display layouts, capture images, and place calls.

One-touch dialing

A unique feature of the PCS-TL50P is one-touch dialing, which allows you to easily connect to any of your listed contacts with the touch of a button. By preprogramming your contact information, picture icons and contact names will appear at the bottom of the main menu. Calls are placed automatically by simply pressing the button on the remote commander that corresponds to the picture icon. Up to 30 contacts can be preprogrammed.

Memory Stick™ for Private Phonebook

If multiple users choose to use a single PCS-TL50P, each user can store their personal contact information on a Memory Stick™ media card as a Private Phonebook. After inserting the Memory Stick™ into the PCS-TL50P, the unit automatically recognises and activates the Private Phonebook, allowing users to place calls from their personal contacts information.

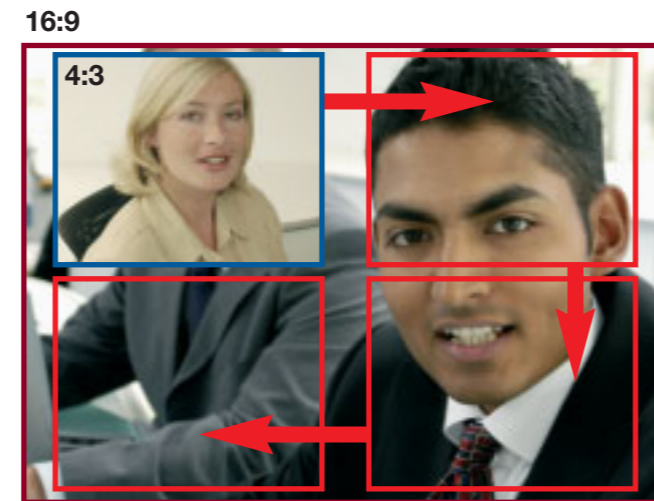
Data-sharing capabilities

Documents on your PC can be shared with your videoconferencing counterparts at the touch of a button. All parties continue to see and hear each other as presentations, spreadsheets or drawings are shown simultaneously. Any kind of image that can be displayed on a PC can be sent or received in native XGA resolution, allowing all participants to clearly see the data during a videoconference.

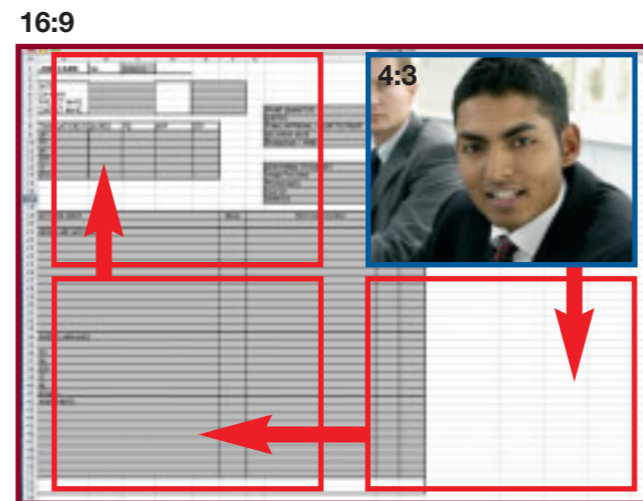
Picture-in-Picture / Picture-and-Picture

With the choice of Picture-in-Picture or Picture-and-Picture (split screen) layout options, both near and far-end video and/or data can be displayed in a manner that is pleasing to the eye.

P in P

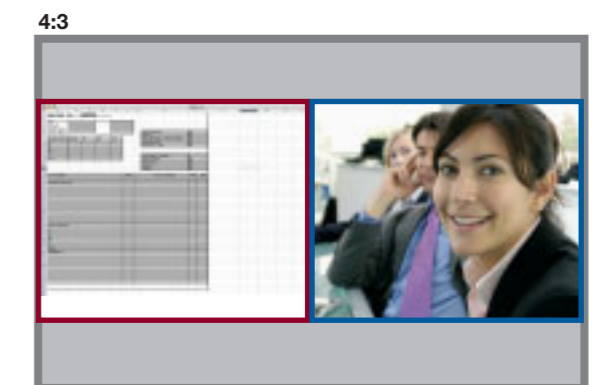
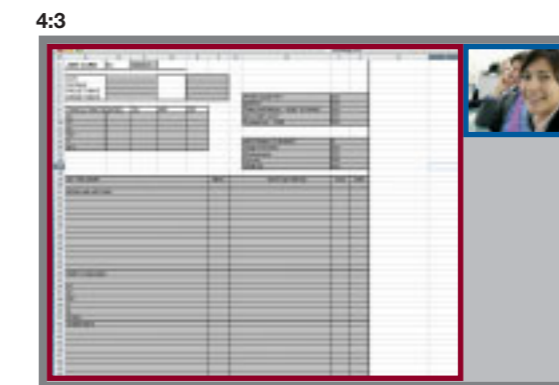
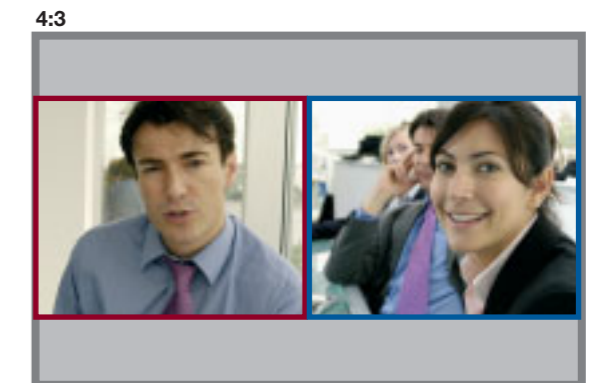
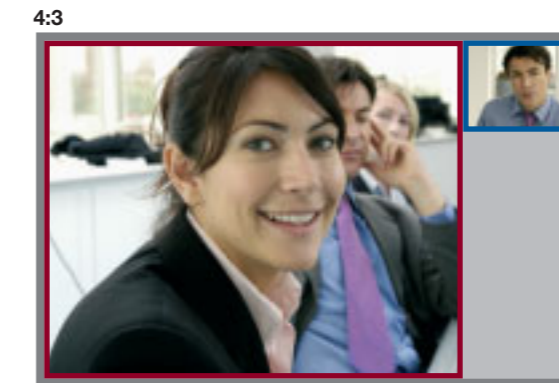


Users can set this PIP inset in either of the 4 corners by pushing the PIP button on the remote control



Alternatively, when data is sent by the Data Solution Box or received from the Far-End, the P in P mode can show live PC Data and the Far-End image.

P and P



There are two layouts to display picture and picture. Again you can show both far end plus near end video, or alternatively, data plus video.

Multitasking (Simultaneous videoconference / PC)

With the PCS-TL50P, you can continue to work on your PC even while you are on a videoconference call. This unique feature is ideal for busy executives who need to have non-stop access to their files while they are in a videoconference.

Excellent video quality

The PCS-TL50P supports the latest standard for videocoding (H.264) that doubles the quality of conventional standards at the same bandwidth. Compatibility with older systems is maintained by supporting all the other relevant industry standards.

Superb audio quality

Supporting MPEG-4 AAC (Advanced Audio Coding) at 14 kHz, PCS-TL50P produces clear, natural-sounding audio. Doubling the frequency range of conventional videoconferencing systems, every participant can be heard with unprecedented clarity. The dual-integrated speakers and microphones, and a built-in echo canceller, offer crisp and clear sound quality while keeping the size of this videoconference system small. Additional microphones or a headset can be connected if required.

Memory Stick support

The PCS-TL50P supports Memory Stick™ media to store and retrieve the Private Phonebook, save screenshots during a conference and show slides or pictures from your camera. For installation and maintenance, new firmware, optional multipoint software or system settings can be installed simply from a Memory Stick™.

Optional Accessories

PCSA-DSB1S

Data Solutions Box
Dimensions: 240 (W) x 37 (H) x 180 (D) mm
Mass: 1.1 kg

PCSA-B384S

ISDN unit for 3 lines,
Dimensions: 166 (W) x 33.4 (H) x 128 (D) mm
Mass: 0.40 kg

PCSA-B768S

ISDN unit for 6 lines
Dimensions: 166 (W) x 33.4 (H) x 128 (D) mm
Mass: 0.40 kg

PCS-A1

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

PCS-320M1

H.320 MCU Software

PCS-323M1

H.323 MCU Software

