GENERAL

Period: 12 August to 26 August 2005
SW Version: 02.10.
Device Class
The outer appearance of the Sony PCS-TL 50 is this of an office system. The device, however, has
the capacity of a settop system. Its hardware was taken over from SONY PCS-1, which with a 20"
monitor (format 16:9) has become a compact and elegant unit. Thus the TL 50 supports all
standards and makes an MCU extension possible.
Scope of Delivery
The device features an integrated camera, two microphones and a loudspeaker.
Bandwidths
The system makes video conferences of up to 2 Mbps in LAN or via an optionally available adapter
up to 768 kbps in the ISDN area possible.
Miscellaneous
The screen can also be used as a computer monitor.

INSTALLATION

Set up
Setting up the device worked without problems. A sound labelling and the division into groups
belonging together logically (MIC, Audio, Video) make working with the system much easier.
Configuration
After starting the TL 50 is soon ready to work, as it is usual with Sony devices. The configuration of
the system works quickly and without problems.
**Operation**
The operation of the menu surface is easy and intuitively comprehensible. Experienced Sony users find their way with it immediately, as the menu prompt corresponds to that of other devices of the company. The design of the remote control reminds on the keyboard of a pocket computer. Its design is user-friendly and easy to handle. The user, however, has to aim the remote control at the infrared area of the TL 50 very carefully, whereby the intuitional handling can hardly be kept ;)

![Remote Control of Sony](image)

**Audio/Video**
The audio and video quality was good up to excellent in almost all of the examined connections. Here the quality of videos with group and room systems as receiver was better. The available video standard H.264 was not implemented with the VSX 3000, with HD 4000 and SONY PCS-G70 it worked without problems.

**T.120 / H.239**
The T.120 standard is supported only in the ISDN area. With LAN the H.239 standard is used instead. The supply of up to two external RGB signals (e.g. from a laptop), further microphones, loudspeakers and external output devices (e.g. beamer) is implemented with the optionally available Data Solution Box (DSB). When H.239 is used with the devices of different manufacturers, there are still considerable deficiencies. These incompatibilities, which occur with the devices by TANDBERG, Polycom and VCON, lead to errors, which restrict the transfer with H.239 considerably at the moment. Especially texts, which had been transfered, were not readable in most of the tests. Only with devices of their own company the standard called SONY DualVideo worked smoothly in PC screen quality. The test result with a VCON HD 4000 was good as well. In cooperation with the MCU H.239 works flawless as well. However, here only the "Voice Activated" mode with a set speaker is recommendable, since instead of the speaker the H.239 data stream is shown. In the "Continuous Presence" mode the H.239 transmission is not readable on the recipient's side, if it is a text.

**Remote control of the Camera**
Remote control of the camera was possible in both directions, if there were the technical preconditions with both conference participants.

**MCU**
The cooperation of the MCU and RADVision within the DFNVideoConference service went well and in good quality, also with higher bandwidths.

**Gatekeepers**
The cooperation with the gatekeepers GNU-GK 2.0.7 and CISCO MCM worked well.

**Miscellaneous**
If the camera of the TL-50, which is integrated in the frame, is not zoomed, the tilting and pivoting does not work, which can be very irritating, if this has not been taken into account. This is not a flaw of the camera, but related to the digital zoom. With total zoom the camera can be tilted and pivoted more than with less zoom.
CONCLUSIONS

The SONY PCS-TL 50 is an elegant and powerful device, which offers a good price performance ratio for conferences of small groups.

**Technical Data**

Manufacturer: Sony

<table>
<thead>
<tr>
<th>Supported Standards</th>
<th>H.320, H.323</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Coding</td>
<td>G.711, G.722, G.722.1, G.723.1, G.728, G.729, MPEG-4 AAC mono</td>
</tr>
<tr>
<td>Video Compression</td>
<td>H.261, H.263, H.263+, H.263++, H.264, H.264 Interlaced SIF, MPEG-4 SP@L3</td>
</tr>
<tr>
<td>Video Inputs</td>
<td>Composite, RGB (Computer Interface)</td>
</tr>
<tr>
<td>Video Outputs</td>
<td>-</td>
</tr>
</tbody>
</table>

Thanks to Vidofon for supplying the test.