

## A mobile workstation for communications between physicians and patients

**VIMED® TELEDOC 2** is a mobile workstation that delivers high quality, simultaneous image, audio and medical video communications, in real-time between the physician and a patient irrespective of location.

■ This bespoke system combines high mechanical stability and electronic reliability without compromising mobility within the hospital environment.

VIMED® TELEDOC 2 approved according to the German medicine product law (MPG).

The latest audio-video communication technologies ensure exemplary sound and image quality at low bandwidths. The high-resolution camera, with optical zoom, renders the smallest details accessible to the physician.

■ The integrated **3D-audio system VIMED® VOICE** ensures optimum sound quality independent of specific room acoustics.

**VIMED® VOICE** incorporates a boundary layer microphone enabling clear audible speech over distances.

VIMED® TELEDOC 2 sends and receives DICOM-data, providing simple integration into RIS and PACS.

**VIMED® TELEDOC 2 can be used for a variety of medical disciplines, where audio-visual communication and data transfer requirements can be remotely accessed across large distances. This has proved most beneficial in areas such as radiology, neurology and stroke services.**



## Technical data

Processor	Intel® Pentium® Mobile 745
Frequenz	1.8 GHz
Memory	1024 MByte
Graphic card	Intel 855 GM; 64 MByte Graphic storage
Hard disk	80 GByte
Optical drive	CD-RW/DVD-R-Drive or DVD+/-RW Recorder
Network	Onboard 10/100 MBit/s (RJ-45); Galvanic network separation for medical electrical devices and systems according to DIN EN 60601-1-1; Optional: 54 MBit WirelessLAN-Adapter
Connections	1 x USB 2.0 / 1 x IrDA 115k Baud
Input devices	101-key medical keyboard with integrated Trackball
Software equipment	Microsoft Windows XP Professional OEM / Microsoft Office 2003 Professional OEM / Nero 7 Essentials Vista OEM Suite / eTrust Antivirus v7.1 / VIMED® COMM TELEDOC

## Video specifications

Bandwidth	H.323: 64 Kbp/s – 4 Mbp/s
Video standards	H.261, H.263, H.263+/+/, H.264 (bis 512 Kbp/s outgoing)
Live video resolution	Interlaced CIF, CIF, SIF, QCIF, QVGA, VGA, 720p (incoming)
Data	Support for H.239 and Tandberg DuoVideo
Network specifications	ITU-T: H323 v4.2 / H.281 Annex Q (FECC) / H.323 QoS Feature / Coded conferences after H.235 (AES) possible / LDAP-Support
<b>Camera</b>	
Sensor size / resolution	1/4" / 752 x 582 Pixel
Norm	PAL / 25 Bilder/sec. / 1s - 1/10.000s / 0,7 Lux bei f=1,4
Lens	f = 4,1...73,8 mm / AF 216 fach Zoom (18 x Optisch)
Camera control	Pan & Tilt function
<b>Monitor</b>	<b>Widescreen-LCD-Display</b>
Diagonal size	55,8 cm (22 Zoll) Widescreen-LCD (16:10-Format)
Active Display Size (W x H)	474 mm x 296 mm / diagonal 558 mm
ideal and recommended resolution	1680 x 1050 Pixel / Point distance 0,282 mm x 0,282 mm
Display colors	16,7 Millionen / Brightness 450 cd/qm
max. dark space contrast	1.200:1
max. point of view	Horizontal: 178°; Vertically: 178°
LCD-Technology	S-PVA / Response time 6 ms
rise/fall	6/6 ms, Black-and-white change
Certifications and Standards	CE, TÜV GS, TÜV ergonomics examined, ISO 13406-2, TCO03, Energy Star

## Audio specifications

Audio standards	G.711, G.722, G.722.1, G.723.1, G.728, G.729, AAC-LD
Audio features	Full duplex echo cancellation / Automatic noise suppression (ANS) / Voice Activity Detection (VAD)
Audio Input/-Output	VIMED® VOICE Sound system (integrated)

## DICOM specifications (optionally)

Key Features	Flexible Screen-Layout / Versatility Toolbar / Advanced "Cine" function
Further functions (characteristics)	Burning of Patient-CD's / Scalable Multiplanar Rekonstruktion (MPR) / Digitale Substraktions-Angiography (DSA) / create AVI-Files (export AVI) / DICOM Print / 3D-Cursor function / CE- Certification
DICOM Compatibility	DICOM 3.0 / supports Storage und Query/Retrieve classes as Service Class User (SCU) and Service Class Provider (SCP)

## General indicated

Dimensions (WxHxD)	63 cm x 159 cm x 54 cm / height adjustably from 159 cm to 197 cm
Weight	121 kg
Operating temperature	5° C ~ 40° C
Air humidity	10 % ~ 80 % / non-condensing
Power connection	AC 220 - 240 V, 50/60 Hz, max. 600 W, IP 20
Certification	CE / EN 60601-1 / EN 60601-2

VIMED® TELEDOC 2 is a telemedicine system from the MEYTEC GmbH Medizinsysteme and a part of the VIMED® 2000 system family  
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## Competence for telemedicine and eHealth

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