

A mobile wireless-workstation for telemedicine consultations and remote diagnostic of patients

Telemedicine system VIMED® TELEDOC 4 for medical departments.

As a mobile system VIMED® TELEDOC 4 enables the cooperation between local medical personnel in hospitals and medical experts in approved centers or in their home office. The system is used to support medical diagnostics and supplement medical treatment. A high degree of in-built security empowers the device, when performing consultations on patients in the emergency departments of hospitals.

The integrated medical communication suite interface, VIMED® COMM, allows versatile use in real time.

In addition to the treatment documentation radiology images and other medical data may be exchanged. MEYTEC's Telemedicine system performs bi-directional audio-visual communication. The system's advantages are in the connection of the remote experts and local patients in emergency situations through specific telemedicine technologies, including telemedicine supported exploration.

With a "Touch Screen" monitor the communication interface is comfortable and simple to use.

VIMED® TELEDOC 4 can be transported easily and safely between different clinical departments.

The design of VIMED® TELEDOC 4 is compact with a high mechanical stability and electronic reliability. The system conforms in its construction and operation to the basic requirements of regulation 93/42/EWG and the condition of the German Medical Product Directive (MPG).

It uses the latest communication technologies to ensure good image and sound quality at the lowest transfer bandwidth. The high resolution and control ability of the camera provides first class quality and a wide range of use. Optical zoom allows the display of the smallest details.

With an integrated card reader it is possible to transfer patient data from a health insurance card directly into the documentation software VIMED® TENEDOC.



Photos: MEYTEC
Please note: Pictures may differ from the original.

The side-mounted DVD drive enables the fast transfer of documentation to be burned to a CD/DVD for transfer to an external party or for the inspection of pre-existing patient data on such media (option with VIMED® TENEDOC).

The integrated 3D-audio system VIMED® VOICE allows optimum sound and comprehension, independent of the room acoustics. VIMED® VOICE incorporates a boundary layer microphone suitable for maximum effect in hospital spaces.



VIMED® TELEDOC 4 can be used for a variety of medical disciplines, where audio-visual communication and data transfer requirements can be accessed remotely across large distances.

Technical data

Processor	Intel® Core™ i7 Mobile Processor
Memory	4 GB
Hard disk	128 GB SSD
Network	Onboard GBitLAN (RJ-45) Galvanic network separation for medical electrical devices and systems according to DIN EN 60601-1-1
Connections	1 x USB 2.0
Input devices	101-key medical keyboard with integrated trackball
Software equipment	MS Windows® 7 Pro OEM / MS Office 2013 Pro OEM / Antivirus / Firewall/ Authentication Extended Device Block / Medical Communication Suite - VIMED® COMM 10
Card reader	for eGK and health insurance card
DVD drive	reading and writing of CD / DVD / DVD RAM

Video Specification

Bandwidth	H.323: 64 Kbp/s – 4 Mbp/s
Video-Standards	H.261, H.263, H.263+ / ++, H.264 (up to 2 Mbps)
Live video resolution	4CIF, CIF, Interlaced CIF, SIF, QCIF, QVGA, VGA
Data	Support for H.239 HD Dual Stream™
Network Specification	ITU-T: H323 v4.2 / H.281 Annex Q / H.323 QoS / Coded conferences after H.235 (AES)
Camera	
Sensor size / resolution	1/4" / 752 x 582 Pixel
Norm	PAL / 25 frames/sec. / 1s - 1/10.000s / 0,7 Lux with f=1,4
Lens	f = 4,1...73,8 mm / AF 216-fold Zoom (18x optical)
Camera control	Pan & Tilt function
Monitor	
Diagonal size	Widescreen- LCD-Display
Active Display Size (W x H)	Digital Display 21,5" / 53,75 cm / Format 16:9
Ideal and recommended resolution	477 mm x 269 mm
Display colors	1920 x 1080 Pixel
Max. point of view	16,7 Million / Brightness 250 cd/qm
LCD-Technology	Horizontal: 178°; Vertically: 178°
	TFT LCD Touch Screen

Audio Specification

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

DICOM (optional)

DICOM specifications	on requirements
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WLAN (optional)

Standard	IEEE 802.11 a/b/g/n
Frequency band	2.4 / 5 GHz
Data Rate	11 / 54 / 300 Mbps

General indicated

Dimensions (WxHxD)	63 cm x 159 cm x 54 cm / height adjustably from 159 cm to 197 cm
Weight	117 kg (incl. 24 kg UPS and battery)
Operating temperature	5° C ~ 40° C / Air humidity 10 % ~ 80 % / non-condensing
Power connection	AC 110 V, 220 - 240 V, 50/60 Hz, max. 600 W, IP 20
Certification	CE / EN 60601-1 / EN 60601-1-2

VIMED® TELEDOC 4 is a telemedicine solution from MEYTEC GmbH Informationssysteme and part of the system family VIMED®.

Last Change: June 2016. We reserve the right to make changes at any time.

Competence for Telemedicine and Medical Technology

MEYTEC GmbH
Informationssysteme

Akazienstr. 13
D-16356 Werneuchen

Phone +49 (0) 33398 – 78 200
Fax +49 (0) 33398 – 78 299

info@meytec.com
www.meytec.com

