

Mobile Workstation for audiovisual doctor-to-doctor and doctor-to-patient communication

VIMED® TELEDOC 4 HD+ is a telemedicine system for deployment in emergency care.

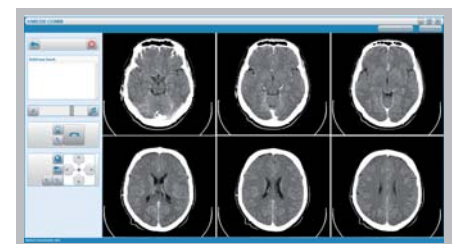
■ The mobile workstation VIMED® TELEDOC 4 HD+ delivers a high definition quality of video for communication in the medical environment. The system is especially tailored for deployment in the emergency care (ED A&E). VIMED® TELEDOC 4 HD+ is characterised by its high level of robustness, the mobility and user-friendly interface. The system can be adjusted in height using the electronic lifting column for convenience. The device design is compact and incorporates high mechanical stability and electronic reliability.

■ VIMED® TELEDOC 4 HD+ uses standardised data transfer protocols of the ITU (International Telecommunication Union), like SIP and H.323. The latest communication technologies, e.g. H.264 High Profile and Scalable Video Coding (SVC) ensure good image and sound quality* at the lowest transfer bandwidth.

■ The high resolution and controllability of the PTZ-camera provides first class video quality up to 1080p/ 60 fps and a wide range of use. An up to 10x optical zoom allows the display of the smallest details. Optional is the deployment of a second HD handheld camera possible. The touchscreen monitor delivers valuable pictures in HD quality.

■ The integrated microphone delivers good audio quality* to the remote location through the use of echo cancelling technology, even in challenging environments with poor acoustics. In turn the implemented 3D sound system of VIMED® TELEDOC 4 HD+ delivers an optimal audio reproduction from the remote location back to the hospital.

■ The touchscreen monitor offers an alternative possibility to mouse and keyboard to control the system. The patient data can be transferred into documentation system fast via an optional integrated card reader module. The DVD data carriers with DICOM images can be read with the built-in DVD drive and then visualized optionally with the DICOM – viewer program.



- Steerable PTZ camera
- Integrated room microphone
- Integrated pull-out drawer
- Comfortable handle

■ The system conforms in its construction and operation to the requirements of the regulation 93/42/EWG (MDD) and can be deployed in different medical fields allowing remote locations to access clinical expertise from clinical sites regardless of distance.

Technical data

Hardware	HD video communication platform for up to 2 simultaneous video streams in 1080p60 quality, downward compatible up to CIF/SIF
Network	GB-LAN (RJ-45), galvanic network isolation for safe connection with medical electronic devices acc. to EN 60601-1-1
Ports	1 x USB 2.0, 1 x USB 3.0, 1 x DVI in (optional)

PC specifications

Processor	Intel® Core™ i7
RAM	8 GB DDR3
Hard disc	128 GB SSD
Input devices	101-key medical keyboard with trackball
Software	MS Windows® 10 Pro / Antivirus / Firewall / VIMED® COMM 11
Card reader	Electronic Health Card (eHC)
Optical drive	Read and burn to CD or DVD data carrier

Video specifications

Connection speed	H.323: 64 Kbp/s – 4 Mbp/s
Video standards	H.263, H.263+/+++, H.264 High Profile and SVC (up to 4 Mbps)
Supported video resolution	HD 1080/720, 4CIF, CIF, Interlaced CIF, SIF, QCIF, VGA
Frame rate	up to 60 fps
Data exchange	H.239 HD Dual Stream™
Network and security	IP, H.323, SIP, IPv4/v6, QoS, flow control

Camera

Resolution	up to 1080p / 60fps
Lens	up to 10 x optical zoom, 4 x digital zoom
Camera control	Pan & Tilt, auto focus function

Monitor

Diagonal size	Widescreen- LCD- Display 53 cm (21") or (optional) 61 cm (24")
Dual display (optional)	2 x 53 cm (21")
Ideal resolution	1920 x 1080 pixel / point distance 0,265 mm x 0,265 mm
Display colors	16.7 Mio. / 300 cd/m ²
Room contrast	3.000:1
Maximal viewing angles	horizontal 178° / vertical 178°
LCD-technology	S-PVA / Response time 7 ms
Typical response time, rise/fall	7/7 ms, black-white alternation

Audio specifications

Audio standards	G.722, G.723, G.711, G.728
Audio features	Full duplex echo cancellation, Automatic noise suppression, Automatic Gain Control
Audio in / output	Array microphone and VIMED® VOICE Sound system (integrated)

WiFi (optional)

Standards	802.11 a/b/g/ n
Frequency band	2.4/5 GHz

General information

Dimensions (B x W x D)	63 x 159-197 x 55 cm
Weight	95 kg
Operating temperature	5° C ~ 40° C / air humidity 10% ... 80%, non-condensed
Grid connection / Power supply	AC 220 - 240 V, 50/60 Hz, max. 300 W, IP 20, in accordance to CE / EN 60601-1 / EN 60601-1-2 / MDD (93/42/EEC, Annex VII)

VIMED® TELEDOC 4 HD+ is a telemedicine system of MEYTEC GmbH Informationssysteme from the system family VIMED®

*The actual quality of audio depends e.g. on the given acoustic conditions in the room and on the quality of the complete transmission path.

Last update: June 2018. All data without guarantee. Changes and mistakes reserve. All previous data sheets are invalid.

Please note: Pictures may differ from the original.

Competence for Telemedicine and Medical Technology

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