

Audiovisual consultation via telemedicine

VIMED® TELEDOC 4 HD+ is a powerful mobile workstation for telemedical diagnostic applications.

■ Maximum mobility in hospital environment

The workstation VIMED® TELEDOC 4 HD+ can be fully integrated into the diagnostic workflow. The workstation performs specific requirements of the daily clinical routine and it can be deployed supporting of the diagnostic and therapeutical purposes over spatial distances directly in the patient room. The height of the VIMED® TELEDOC 4 HD+ can be adjusted easily via the electrical lifting column. A professional display and robotic camera can be individually set easily to allow optimal diagnostics. The design of VIMED® TELEDOC 4HD+ is compact with a high mechanical stability and electronic reliability.



■ Teleconsultations in high quality

Using the powerful audio and video technologies such as H.264 High Profile, Scalable Video Coding (SVC), an excellent sound and picture quality at low bandwidths is guaranteed between similar systems. The high resolution PTZ-camera delivers an excellent picture quality in Full-HD resolution with up to 1080p. The powerful optical zoom allows the representation of the smallest details on the HD monitor.

Advanced 3D audio system ensures good sound and speech quality, especially in rooms where the acoustics are poor. A special microphone arrangement detects the range between active sound sources automatically and allows hand-free talking even in large rooms.

■ Comfortable acquisition of patient data

VIMED® TELEDOC 4HD+ has an integrated card reader for swift acquisition of the master data from the patient. The data can be transferred into the optional integrated VIMED® TENEDOC file. A special keyboard with trackball allows the admission and processing of the patient data as well as free text in the patient file directly.



■ Simple switch into the processing mode

VIMED® TELEDOC 4 HD+ has a mini PC system which is reserved for the processing of the patient data and associated medical data only. By means of the button on the front panel the user can switch between the documentation and video communication modes simply.

VIMED® TELEDOC 4 HD+ an additional data channel, where contents of external systems can be transmitted. All external devices must comply with the common requirements of the MDD 93/42/EWG and 2007/47/EG for electrical safety.

■ Maximum patient safety

VIMED® TELEDOC 4 HD+ is designed according to the requirements of the Medical Device Directive (MDD) 43/42 EWG and 2007/47/EG. VIMED® TELEDOC 4HD+ is a medical device Class I. This ensures, that no leakage current can threaten the patient security under normal use.

Technical data

Processor	Intel® Atom™ Quad Core
RAM	4 GB
Hard Disc	128 GB SSD
Network	GBLAN (RJ-45); galvanic isolation for electrical medical devices and systems in accordance to DIN EN 60601-1-1
Ports	1 x USB 2.0, 1x DVI (DVI not galvanically isolated)
Input devices	101 key medical keyboard with trackball (mouse), touch-screen
Card reader	Electronic health card or health insurance card
Optical drive	Reading and writing of CD / DVD / DVD RAM data media

Video specifications

Hardware	Platform for video communication with up to dual video streams in full HD quality 1080p60, downward compatibly up to CIF/SIF
Connection speed	H.323: 64 Kbps – 6 Mbps
Video standards	H.263, H.263+/+, H.264 High Profile und SVC
Data	Support H.239 dual stream, up to HD 1080p/60fps
Supported video resolution	HD 1080/720, 4CIF, CIF, Interlaced CIF, SIF, QCIF, VGA
Refresh rate	up to 60 fps (HD)
Network specification	IP, H.323, SIP, IPv4/v6, QoS, Flow control, IP adaptive packet management inkl., Firewall Traversal H 460.18/19, Embedded encryption H.235 (AES)
Camera	
Resolution	1080p 60 fps
Objective	AF, 5x optical, 3x digital
Control	Pan & Tilt Function
Monitor	
Diagonal	Widescreen- LCD-Display 54,8 cm (21,5 Zoll)
Active display size (WxH)	474 x 269 mm
Ideal resolution	1920 x 1080 pixel
Display colors / Maximum brightness	16,7 Mio, 250 cd/m ²
Viewing angles (H/V, typical)	178° / 178°

Audio specifications

Audio standards	AAC-LD, G.722.1, G.723.1, G.711, G.728, G.729
Audio features	Full duplex echo cancellation, Automatic noise suppression, Automatic Gain Control
Loud speakers	Loudspeakers system with 360° coverage area
Microphone	Microphone array with mute button

WiFi (optionally)

Standards	IEEE 802.11a/b/g/n
Frequency band	2,4 / 5 GHz

General information

Dimensions (W x H x D)	159-197 x 63 x 54 cm
Weight	95 kg
Operating temperature/ Storage	+5° C ... +40° C / -10° C ... + 60° C
Humidity	10% ... 80%, non-condensed
Power supply	AC 220-240 V, 50/60 Hz, max. 300W, IP 20, in accordance to DIN EN 60601-1/60601-1-2

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

Last update: May 2016. All data without guarantee. Changes and mistakes reserve.
All previous data sheets are invalid.

Competence for Telemedicine and Medical Technology

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