

Mobile workstation for the communication between physicians and patients

VIMED® TELEDOC HD++ is a system for use in clinical telemedicine.

The VIMED® TELEDOC HD++ is a mobile workstation for simultaneous image transmission and video communication in Full HD quality. The system is tailored to the specific needs of the medical field. The height of the VIMED® TELEDOC HD++ can be adjusted at the bedside via an electrical lifting column.

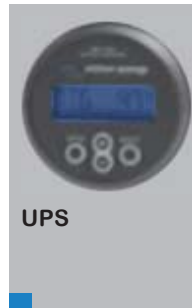
In design and construction an emphasis was placed on the compactness, high stability and maximum reliability value of the system. Using the latest audio and video technologies, such as H. 264 high profile and scalable video coding (SVC), an good picture and sound quality at low bandwidth is guaranteed between similar systems. The high-resolution camera delivers an excellent picture quality in HD resolution (1080p), at up to 60 frames per second. The optical zoom allows the representation of small details and the HD monitor ensures a very good image reproduction.

A 3D-Audio system ensures optimum sound and good speech understanding, especially in rooms where the acoustics are poor. The special microphone allows hands-free talking even at great distances.

The VIMED® TELEDOC HD++ has an option for an additional data channel, where contents of external systems, such as DICOM images or visualized data from HIS, RIS or PACS, can be transmitted.

The wireless application allows for adequate WLAN field strength of its network as well as a fast and flexible transportation of VIMED TELEDOC® HD++ system between different locations in the hospital.

The system is designed according to the requirements of the Medical Device Directive (MDD) 93/42/EEC.



The battery power supply (uninterrupted power supply - UPS) is guaranteed, depending on the application used, mains-independent operation for up to 8 hours. To protect the battery life the system shuts down automatically after a prior warning.



Remote control

The video system is controlled via a remote.

VIMED® TELEDOC HD++ is universally applicable, but first and foremost in applications and areas, where obtaining an expert opinion via visual or audiovisual transmissions is an advantage.

Technical data

Hardware	HD video communications platform for up to two simultaneous 1080p 60 video streams, backward compatible to CIF/SIF
Network	GBLAN (RJ-45); galvanic isolation of the network for electrical medical devices and systems in accordance to DIN EN 60601-1-1
Connections	(option 1x DVI IN)
Input devices	Remote control

Video specifications

Connection speed	H.323: 64 Kbps – 6 Mbps
Video-standards	H.263, H.263+/++, H.264 high profile and SVC (up to 6 Mbps), dual video H.239
Supported video resolution	HD 1080/720, 4CIF, CIF, interlaced CIF, SIF, QCIF, VGA
Refresh rate	up to HD 25, 30 / 50, 60 fps
Data	support H.239 HD dual stream
Network specifications	IP, H.323, SIP, IPv4/v6, QoS, flow control, IP adaptive packet management including, firewall traversal H 460.18/19, embedded encryption H.235 (AES)
Camera	
Resolution	1080p 60 fps
Objective	AF, 40x zoom, 10x optical, 4x digital
Control	pan & tilt function H.224, H.281 up to 1920 x 1080 (option medical decoupled)
DVI input	
Monitor	
Diagonal, viewable image size (option dual display operation)	53 cm (21-inch) or 61 cm (24-inch) 2 x 53 cm (21-inch) or 2x 61 cm (24-inch)
Ideal resolution	1920 x 1080 pixel / dot pitch 0,265 mm x 0,265 mm
Displayable colours	16,7 million colours, luminance 300 cd / sqm
Maximum dark room contrast	3.000:1
Maximum viewing angle	horizontally: 178°; vertically: 178°
LCD-technology	S-PVA / response time 7 ms
Typical response time, rise/fall	7 / 7 ms, black and white change

Audio specifications

Audio-Standards	G.711, G.722, G.722.1, G.723.1, G.728, G.729, AAC-LD, G.719
Audio-Features	Echo cancellation / Automatic noise suppression (ANS) / Automatic Gain Control (AGC)
Audio input/output	VIMED® VOICE Sound system (integrated)

UPS (integrated)

Input / output	230 V, 50 Hz 5A / 24 V DC
Charge / discharge current	automatic limitation, monitored by sensors
Mains-independent operation	about 8 h depending on the application
Battery	24 V / 33 Ah, capsuled lead-nonwoven fabric accumulator (AGM), maintenance-free

WLAN

Standards	802.11 a/b/g/n
Frequency band	2,4 / 5 GHz
Bit rate	11 / 54 / 300 Mbit

General information

Dimensions (W x H x D)	63 cm (120 cm) x 159 cm x 54 cm, height adjustability 159 cm ... 197 cm;
Weight	117 kg (incl. UPS and battery)
Operating temperature	5° C ... 40° C, humidity 10 % ... 80 %, non condensed
Power supply	AC 220 - 240 V, 50/60 Hz, max. 600 W, IP 20 CE / EN 60601-1 / EN 60601-2

VIMED® TELEDOC HD++ is a telemedicine system of MEYTEC GmbH Informationssysteme from the system family VIMED® 2000

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Competence for telemedicine and eHealth

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