

A mobile wireless-workstation for communications between physicians and patients

Telemedicine system VIMED® TELEDOC 5 for medical departments

■ As a mobile system VIMED® TELEDOC 5 enables the co-operation between local medical personnel in hospitals and medical experts /specialists in approved centers or in their home office. The system is used to support the medical diagnostics as well as supplement medical treatment. A high degree of in-built security furnishings empowers the device, when performing consultations with patients in the emergency departments of hospitals. The integrated communication platform, called Medical Communication Suite – VIMED® COMM, allows versatile use, in real time. In addition to the treatment documentation as well as radiology images, further medical data may be exchanged. MEYTEC's Telemedicine system performs bi-directional audio-visual communication.

■ The telemedicine system VIMED® TELEDOC 5 provides a dual audiovisual communication format. It allows evaluating the advantages of the telemedicine technologies through the remote communication between the medical expert and the patient, including tele-medical exploration of patients in emergency situations by remote experts.

The wireless enabled feature allows fast and flexible transport of device between different locations of action.

■ The device design is compact with a high mechanical stability and electronic reliability. The system conforms in its construction and operation to the requirements of the regulation 93/42/EWG (MDD) and it certified acc. to the German norms of the medical devices (MPG).

Battery Capacity Control



■ The latest communication technologies ensure good image and sound quality at the lowest transfer bandwidth. The high resolution and controllability of the camera provides first class quality and a wide range of use. An optical zoom allows the display of the smallest details.

■ The integrated 3D-audio system VIMED® VOICE allows optimum sound and comprehension, independent of the room acoustic, without the need for a headset. VIMED® VOICE incorporates a boundary layer microphone suitable for maximum effect in hospital environments.

■ With an integrated card reader it is possible to transfer patient data from a health insurance card direct to the documentation software. The DVD drive allows the user to quickly burn CD/DVDs with patient or other relevant imported data.

■ The power management tool guarantees up to 8 hours battery operation. Automatic shut-down software function protects the device against unexpected power loss.

■ VIMED® TELEDOC 5 can be deployed in different medical fields, where the audio-visual communication and data transfer across large distances plays the central role.

Technical data

Processor	Intel® Quad Core™, up to 3.30 GHz
Memory	DDR3, 8 GB
Hard disk	2 x 2.5" SATA 6GB/s SSD
Connections	1x USB 2.0
Input devices	101-key medical keyboard with integrated trackball
Software equipment	telemedicine platform VIMED® COMM
Card reader	eGK
Optical drive	reading and writing of CD / DVD / DVD RAM

Video specifications

Bandwidth	H.323: 64 Kb/s – 4 Mb/s
Video standards	H.261, H.263, H.263+/++, H.264 (up to 2 Mb/s)
Live video resolution	4CIF, CIF, Interlaced CIF, SIF, QCIF, QVGA, VGA
Data	H.239 HD Dual Stream™
Network specifications	Coded conferences H.235 (AES)

Camera

Resolution	704 x 576, 30 fps
Lens	18 x optical, 12 x digital
Camera control	Pant&Tilt function

Monitor

Diagonal size	Widescreen LCD-Monitor 53,75 cm (21,5"), format 16:9
Resolution	1920 x 1080 pixels
Display colors	16,7 Million/brightness 250 cd/qm
Display technology	LCD-Monitor with Touch Screen

Audio specifications

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 control	VIMED® VOICE sound system

DICOM (optional)

DICOM Specifications	on requirements
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UPS (integrated)

Input/-Output	230 V, 50 Hz 5A / 24 V DC
Charging current	automatic limitation
Accumulator	24 V / 33 Ah encapsulated Lead Battery

WLAN

Standard	IEEE 802.11 a/b/g/n/ac
Frequency Band	2.4/5 GHz
Data rate	up to 1.300 Mb/s

Workstation

Dimensions (WxHxD)	63 x 199 x 54 cm, height adjustability
Weight	117 kg
Operating temperature	5° C ~ 40° C / Air humidity 10 % ~ 80 % / non-condensing
Power supply	AC 220 - 240 V, 50/60 Hz, max. 600 W, IP 20
Certification	CE / EN 60601-1 / EN 60601-1-2, MDD (93/42/EEC, annex VII)

VIMED® TELEDOK 5 is a telemedicine system of MEYTEC GmbH Informationssysteme from the system family VIMED®

Last update: October 2017. 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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