

Multifunctional workstation for experts in telemedicine centres

VIMED® DOC is a pc-based professional workstation for telemedicine and other electronic applications in hospitals.

■ The ergonomic design of VIMED® DOC provides a dedicated solution that can significantly reduce fatigue throughout extensive periods of interaction during the clinical workflow. Furthermore, VIMED® DOC supports the clinical staff at medical centres in the processing of digitalized medical data.

■ The user friendly design of the input interface by VIMED® DOC allows simultaneous registration and processing of the medical data. It makes the workflow of telemedicine experts more effective.

■ Developed in close cooperation with medical doctors VIMED® DOC is especially designed for the deployment in telemedicine centres to network medical experts with peripheral hospitals.



- Hospital workstation for telemedicine experts
- High-quality interdisciplinary cooperation in telemedicine
- Simultaneous visualization and processing of medical data in real time

■ VIMED® DOC specifically enables the medical expert in teleradiology, teleneurology, telecardiology and teleoncology.

■ VIMED® DOC can also be deployed in other medical fields, which can benefit from professional telemedicine cooperation.

■ Additionally VIMED® DOC operates effectively between peripheral or rural hospitals and other local medical institutions, as well as, across large distances when part of a national and international framework.

New telemedicine solution for comfortable operating in medicine

■ VIMED® DOC incorporates a number of innovative solutions, including the electromotive adjustability of the table height, closed rear wall for better acoustic, an automatic adaptation for indirect illumination, dependent on monitor brightness, as well as, an electric emergency switch return, which creates high occupational health safety levels in the medical environment.

■ Additionally to the integrated security mechanisms the other basis elements of the VIMED® DOC are professional solutions for medical video communication, as well as, efficient monitors. At least one of the video monitors allows reading and processing of the x-ray images (acc. to the national law

regarding medical product-MPG) for diagnostic, therapeutic or scientific needs, e.g. in radiology or oncology. Other video monitors ensure audiovisual communication with one or more remote medical facilities, as well as, providing an input interface for medical case documentation in only few steps.

■ Medical record of teleconsultation can be stored on the server of the user locally or central by transfer of the findings to telemedicine partner via secured data channel (subject to local hospital's data security policy).

■ VIMED® DOC has an integrated high resolution PTZ video camera and high-end audio system.

Optional:
DICOM Modules on request

Equipment of the telemedicine workstation

- Electromotive adjustability
- Closed rear panel
- Intelligent illumination control
- Audiovisual communication
- Emergency switch



VIMED® DOC is designed for a wide range of application in the medicine environment

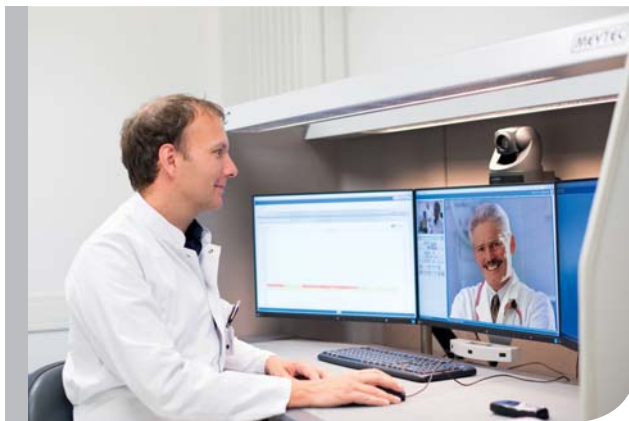
Highlights

- Reliable and resilient industrial PC system
- 3D Visualization
- Integrated modern ICT-technologies
- Integrated QM control system
- 4.0 Technologies
- Multilingual interface

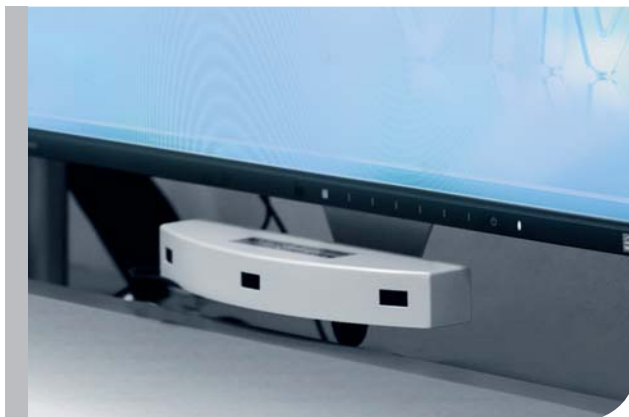
■ VIMED® DOC is a key component through the creation and organization of the health care supply chains, e.g. if there is a need to provide diagnostic and results of the diagnostic via spatial distances.

Therefore VIMED® DOC is predestined for the performing of teleconsultations for the purpose of the second opinion.

Photo: Gesundheit Nordhessen



Pronounced reliability of telemedicine systems such VIMED® DOC is reflected in the long-term using in different medical fields, e.g. teleradiology, teleneurology or telecardiology.



Technical data

Processor	Intel® Quad Core Processor, up to 3.30 GHz
Hard Disc	128 GB SSD
RAM	4GB
Input devices	Universal keyboard and optical mouse
Network	1 PCIe x 16, 1 PCIe x 4 Slots
USB	4 USB 3.0, 2 USB 2.0, 2 Internal USB 2.0
Optical drive	DVD+/RW Recorder
System features	Robust industrial PC system, 3D visualization, integrated QM control system, 4.0 technologies, multilingual interface

Video specifications

Bandwidth	H.323: 64 Kbp/s – 4 Mbp/s
Video standards	H.261, H.263, H.263+/+++, H.264 High Profile / SVC (P2P calls)
Live video resolution	HD 1080p/60fps, 4CIF, CIF, SIF, QCIF, QVGA, VGA
Data	Dual video H.239, Full HD 60 fps
Network specification	Coded conferences H.235 (AES)
Camera	
Resolution	HD 1080p, 60 f/s
Zoom	AF, 40x Zoom (10 x optical)
Camera control	Fully automated, Pan & Tilt & Zoom (PTZ)
Monitor	
3x LCD-displays	
Size	58 cm (23")
Active display size (WxH)	510 x 287 mm
Ideal and recommended resolution	1920 x 1080 pixel
Display colours / brightness	16,7 Million / 300 cd/cm ²
Luminance / constancy tests	3000:1 with contrast enhancer
Medical features	DICOM presets
Quality marks	CE, TÜV, GS, TÜV-Ergonomie, ISO 9241-307

Audio specifications

Audio standards	G.711, G.722, G.722.1, G.723.1, G.728, G.729, AAC-LD
Audio in-/ output	VIMED® VOICE audio system
Audio features	Echo cancellation, Automatic noise suppression (ANS), Voice Activity Detection

DICOM specifications (optionally)

DICOM specifications	On request
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General specifications

Electromotive height adjustability	76-126 cm, for working in sitting and standing
Work safety	Build-in squeezing and clamping protection for all motorized parts, emergency power-off switch
Illumination	Sensor controlled automatic adaptation with manual mode
Operation temperature	from +5° C to +40° C /from -10° C to + 60° C
Humidity	from 10% to 80%, non-condensing
Power supply	AC 110-240 V, 50/60 Hz, max. 300W, acc. to DIN EN 60601-1-2
Dimensions (BxHxT)	178 x 135-192 (incl. rear wall) x 103 cm
Weight	~200 kg (depending on the design)

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

Last update: August 2016. 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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