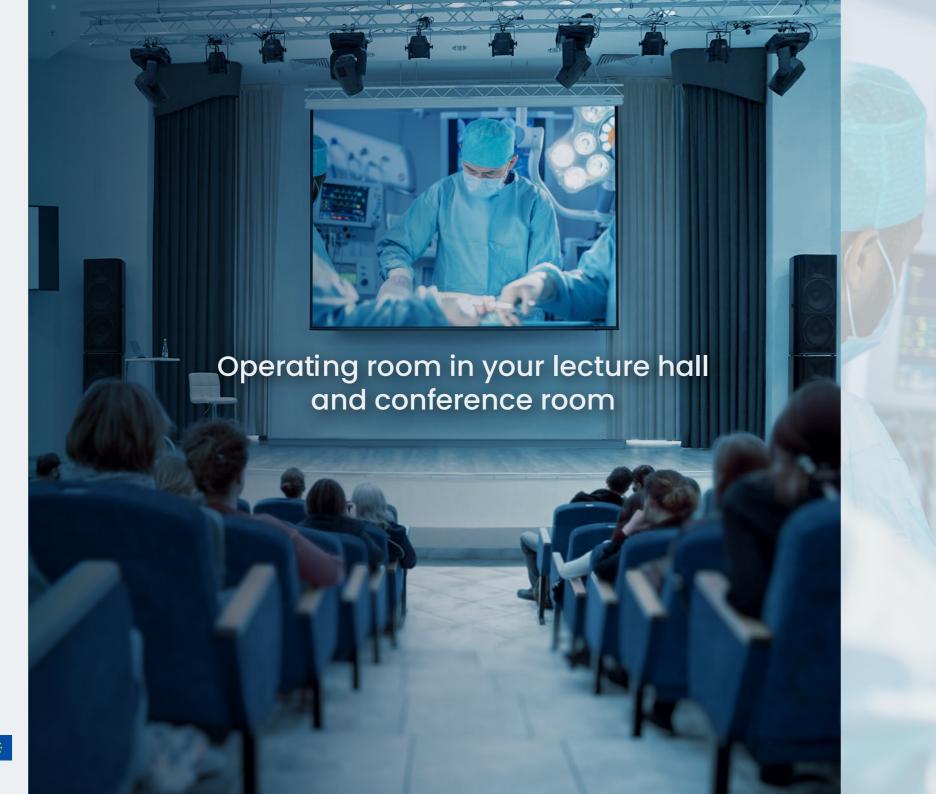




Contact:

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Interactive audio-video from the OR







Telemedicine for OR integration











IDEA © medVC



TELEMEDICINE

videoconferencing sessions with the operating rooms



3D

broadcast from the ORs also in 3D



ΑI

Al support for various telemedicine applications integrated into the medVC system



WebRTC

interactive connection to the OR, from anywhere and any device

Integrated AI modules into the medVC system

medVC utilizes dedicated AI modules for a variety of medical cases:



Al-powered RRP Extent Quantification

(Buchwald et al., in press)



Segmentation with TotalSegmentator - for non-contrast chest CT scans, returns radiomics features per organ

Anomaly detection in aerodigestive tract -

(Doctoral dissertation of J. Nowak, MSc)

TECHNOLOGY

OAL

new opportunities of eractive collaboration & edical education for ofessors, doctors

nedical communication nge of experiences



FUNCTIONALITY

medVC SYSTEM

Developed for:

- Medical University
- Hospital
- School of Surgery
- Emergency Department
- Medical Association
- Medical Conference

 Live audio-video telepresence from operating rooms, doctors' offices and conference rooms

 Live streaming to the Internet for laptops, PCs, tablets and smartphones - available for up to thousands of viewers at the same time

Pesonalization of deployment (logo, room naming, Internet domain) & dedicated support

High standards of security and encryption

- Possibility to send multiple high resolution medical video streams from the operating room at the same time
- Pausing the video stream and telestration (drawing on the video) - each participant of the telemedicine session can make markings visible for all other sides
- Simple and user-friendly touch screen control
 - **Recording** of telemedicine sessions for students, doctors and documentation
 - Marking of important moments of surgeries with timestamps
 - Support for numerous video sources to connect all video devices in the OR
 - Integration & compatibility with any medical device providing a video signal
 - Integrated on a medical cart for easy use across ORs

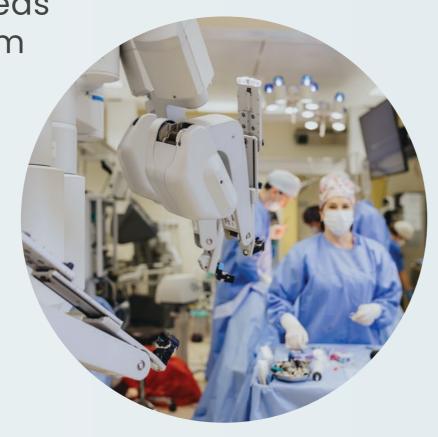
medVC is designed specifically for medicine

Fully customizable to the needs

of a specific operating room

medVC is compatible with:

- medical cameras,
- · microscopes,
- endoscopes,
- C-arms, surgical robots,
- other medical video devices, both in 2D and 3D



	medVC	OTHER SYSTEMS
	Ultra-high medical video quality	Lower video quality
	Multiple videos from the OR	1 video from 1 participant
	Live video pausing	No pausing
	Telestration - drawing on any video	Drawing on screensharing only, not on medical video
	Dedicated secure solution for medicine	Cloud-based consumer market solution
3	Personalization of deployment: logo, name, domain	No personalization or limited personalization
	Functionality customization upon request	Off the shelf product – no customization
	Integrated recording with automatic upload to secure storage	Recording with access using public cloud
	Integrated streaming for events	No integrated streaming
	Dedicated support	Consumer market support level

medVC system

I. Operating rooms









medVC OR Pro

- Main unit (10x 12G-SDI/DVI/HDMI video inputs for medical devices), supporting 4K signals up to 2160p60
- Overall FullHD PTZ camera
- Medical touch-screen monitor
- Integrated audio-video devices
- SDI/DVI/HDMI video output for additional display
- Wireless headset microphone
- Loudspeaker
- Additional equipment according to needs

medVC OR Smart terminal

- All-in-One computer (4x 3G-SDI video inputs for medical devices)
- Can transmit up to 2 video images simultaneously in FHD quality
- Medical touch-screen monitor
- Built-in webcam
- Wireless headset microphone
- Loudspeaker
- Additional equipment according to needs

Software-only version for Operating Room Integrators

- No separate system seamless integration with the OR system
- Video from integrated medical video devices
- Display on OR-integrated monitors
- Deployment on-premise or in the cloud, according to customer requirements
- Lower costs of a deployment
- Help from medVC with the hardware specification for each deployment

medVC system

II. Conference system





medVC terminals

designed for installation in conference rooms and in offices:

- Main unit (2 video inputs)
- FullHD PTZ camera
- Touch-screen monitor
- Conference microphone/ speaker
- Loudspeaker

medVC system

III. Recording, archiving, management & dynamic search



medVC Recorder

The medVC Recorder is a response to the growing need of hospitals and healthcare centres concerning secure recording and storing of medical videos

- Main unit (number of video inputs on request)
- Medical touch-screen monitor
- Recording of different inputs in parallel in full quality
- Automatic upload to portal or server
- Integration with PACS



medVC Video Manager

The medVC Video Manager is an Internet platform allowing for storage and management of recorded surgical sessions and live streams

- Integrated with medVC terminals and the medVC Recorder, so live broadcasts and recordings are initiated with a single tap on the medVC interface
- Recording available in the portal a few minutes after the operation
- Cloud or on-premise installation
- Management of all recorded videos
- Dynamic search
- Support for in-recording markers to easily navigate to important moments
- Video preview
- Video trimming
- Video download
- Access to thematic live and VOD channels

© medVC USERS & CLIENTS

Selected Clients - Europe:

- Centre Hospitalier Régional Universitaire de référence en Lorraine, Nancy (France)
- École de Chirurgie Nancy-Lorraine, Nancy (France)
- Hôpital Robert Schuman, Metz (France)
- Medical University of Sofia, Sofia (Bulgaria)
- San Martino IST, Genoa (Italy)
- Assistance Publique Hopitaux de Marseille (France)
- Universitätsklinikum Essen (Germany)
- CHL Luxembourg (Luxembourg)
- Hospital de la Santa Creu i Sant Pau, Barcelona (Spain)
- Hospital Clinic, Universitat Autònoma de Barcelona (Spain)
- Leids Universitair Medisch Centrum, Leiden (The Netherlands)
- Universitätsklinikum Gießen und Marburg GmbH, Giessen (Germany)
- Facoltà di Medicina e Chirurgia dell'Università degli Studi di Cagliari (Italy)
- Krankenhaus Märkisch-Oderland, Strausberg (Germany)
- Hôpital Henri-Mondor AP-HP, Paris (France)
- Krankenhaus Waldfriede, Berlin (Germany)
- Guy's & St Thomas' Hospital London (UK)
- Vilniaus universiteto ligoninės Santaros klinikos, Vilnius (Lithuania)
- Various hospitals in Poland: Kraków, Warszawa, Lublin, Poznań, Toruń, Bydgoszcz, Gorzów Wielkopolski

Selected deployments worldwide:

- India
- Nigeria
- Pakistan
- Panama
- Peru
- The Philippines











Interactive mobile cooperation of doctors – second opinion & consultations



Medical support across multinational operations



Cooperation between hospitals



Examples of practical application of medVC



Medical conferences & remote medical education



Recording, archiving, Video Manager & dynamic search



3D transmissions on request

