

VEGA

Solutions for documentation, telemedicine, workflow support and automation in clinics



MEDICAL VISUAL SYSTEMS Ltd.

Our mission

To create innovative solutions that help to preserve, share and enrich the art of surgery





IN-HOUSE
MANUFACTURING
in St. Petersburg



THE RUSSIAN MARKET
LEADER
Smart operating rooms



IN-HOUSE
DEVELOPMENT
own software



EXPERIENCEIN MEDICINE
more than 10 years



OUR TEAM more than 130 employees



DEALER NETWORK

in the Russian Federation, the Republic of Kazakhstan and the Republic of Belarus 170+ 40 20 operating rooms hospitals cities



MVS solutions













Everything is extremely functional, everything is logical, everything

is well thought out. Functionality that is used 100%. Ergonomics is

amazing, too. I believe this should be promoted as the standard for

Honored Doctor of the Russian Federation, MD, Professor

the entire country. I am absolutely thrilled!





It took us quite a while to choose a solution to have the operating rooms in our clinic integrated, and in the end we opted for a product by a domestic manufacturer, the MVS Company, and we have never regretted it!



This is a European-level solution, all our wishes have been taken into account. I am impressed with the high quality of the work done. Everyone will feel comfortable working here: medical staff, surgeons, support personnel, engineers, medical technicians.



Nikolay Grekhovodov

Chief Maintenance Manager, Federal Center for Cardiovascular Surgery (Khabarovsk)

Integrated operating room

- Ergonomic solution for the comfort of surgeons and surgical teams
- Enhancing the OR efficiency
- Safety and security for doctors and patients



Tracking of surgeries on the smart online board and **notifying** the medical personnel when the OR and the patient are ready.

Broadcasting video streams to the monitors in the corridor and to any computer within the hospital.

- 2 4 Customizing the OR environment (lights, temperature, humidity) and creating presets to save time.
- 4-7 9 Access and visualization of the PACS, MIS, LIS and other required information on the monitors inside the operating room to provide better comprehension of the case.
- Start documenting the surgery from different integrated information sources by pressing a single button.
- The option to quickly start an urgent surgery or select a scheduled one.

- 4-7 9 Routing video sources (endoscope, microscope, ultrasound, C-arm, etc.) across monitors.
 - Possibility to **rewind** video and review the captured frames while recording in progress.
 - Teleconsultations with peers using two-way videoconferencing.
 - Resident physicians can watch the surgery on a monitor away from the operating table.
 - 4 Videoconferencing with the possibility to broadcast all the available sources to the hospital conference room or to an external location.

- Taking snapshots and short video clips to quickly export the key events of the surgery.
- Timers and stopwatches with the start and stop time captured in
- Text markers to quickly find marked events in the recorded
- 2 4 Control of the connected equipment from any touch screen and alarm notifications.
 - Synchronous recording of all video sources with subsequent archiving.

- Completion of documentation and automatic uploading of data to the central video archive of the clinic.
- Sending data about performed surgery to HIS.

 Safe and simple disinfection of integrated OR components thanks to design solutions.
 - Access to the surgery archive to analyze challenging cases as well as for advanced and corrective training.

Video editing and export of selected segments.

Generating surgical reports.

Ability to use the video archive to **protect** the medical staff and the patient in controversial cases.

Streamline surgical workflow basing on the collected data.

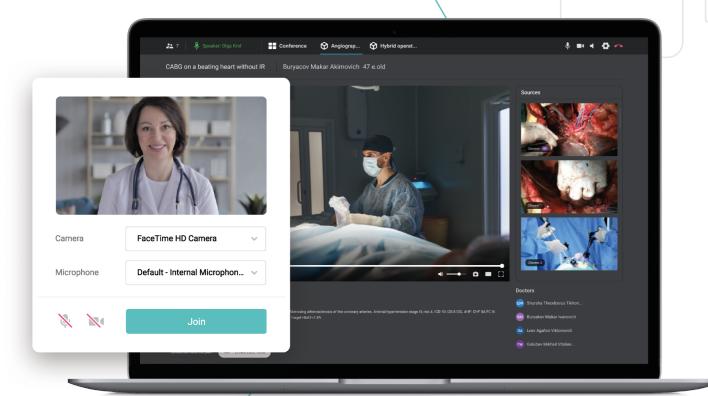
Complete data capture and documentation Head-mounted camera Built-in surgical light camera Surgical microscope Endoscope Recording of all the data available during the surgery



Central surgical video archive

Data from the terminals is uploaded and stored in the central archive of the clinic





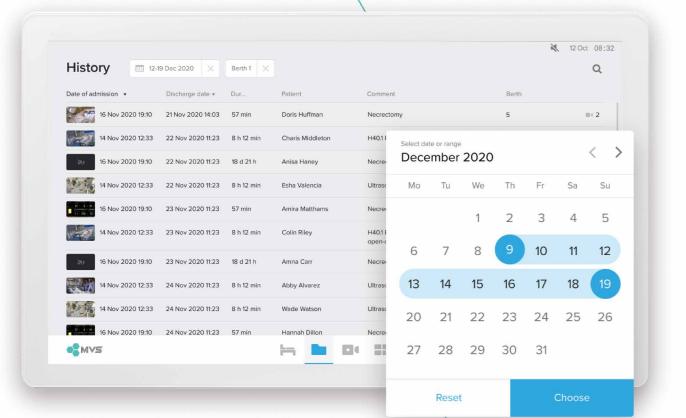
OR telemedicine

- Two-way video communication with the OR from anywhere in the world
- Streaming from all active sources is available to the conference participants
- Invitations via secure external links
- Recording of the conferences along with the surgery

Centralized devices control

- Intuitive customization of the operating room workspace
- Control of utilities and medical equipment
- Customized presets
- Alarms and events documentation







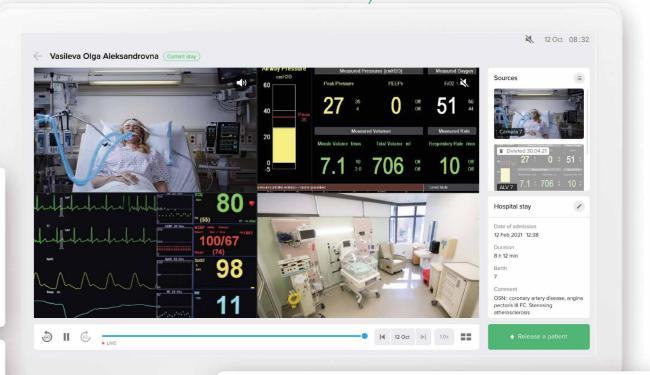
Patient history

Quick access to archive data via browser or touchscreen



Intuitive player

Synchronous playback of multiple video sources in a user-friendly interface





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4.0x

2.0x

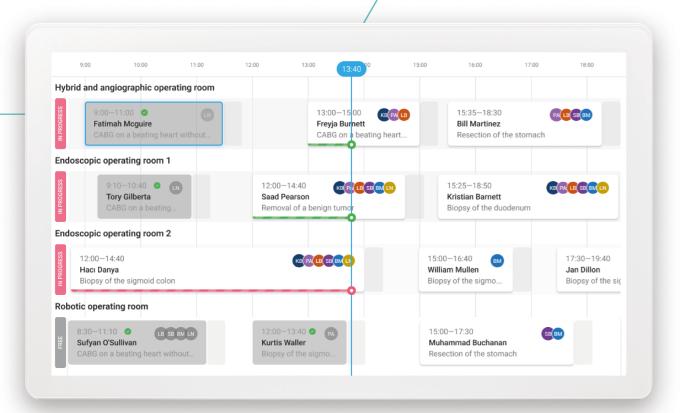
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1.0x











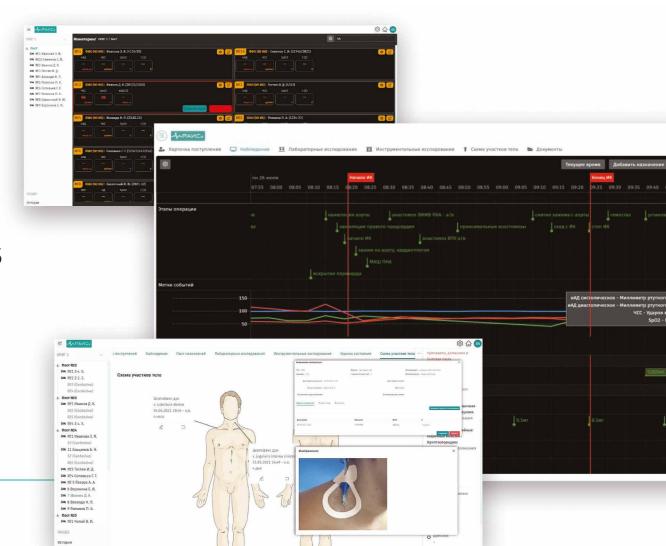
Surgeries progress monitoring

- Clean visual overview of all planned and ongoing surgeries
- Real-time coordination
- Easy scheduling and rescheduling of surgeries



Integration with information systems

Data exchange with HIS, PACS and other information systems using the HL7, DICOM, and FHIR protocols





Smart intensive care unit

- Continuous data recording 24/7
- Interactive nurse's station
- Quick access to patient's history
- Two-way video conferencing
- Integration with hospital information systems

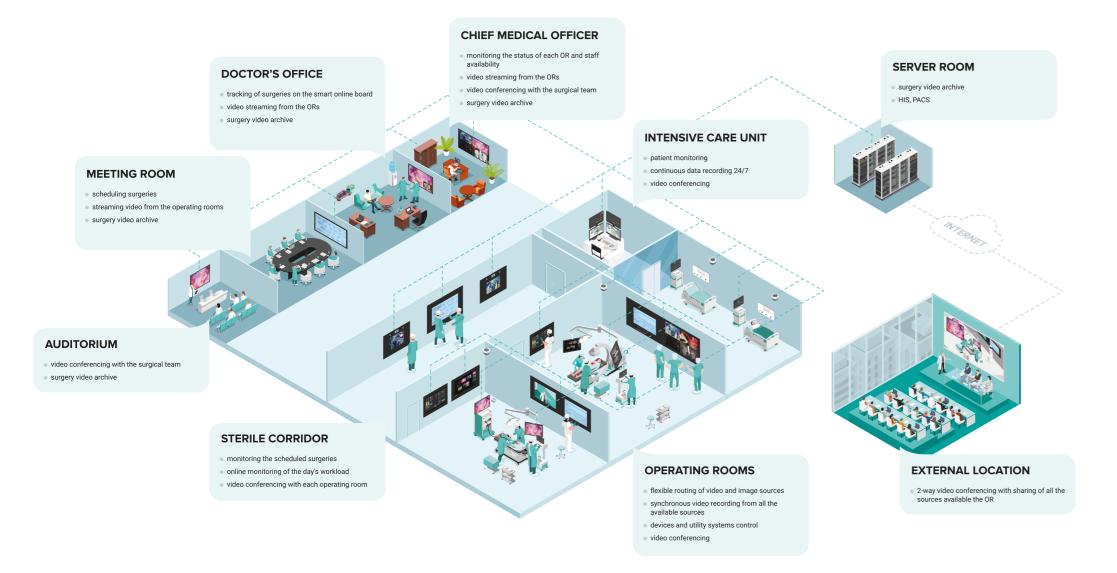




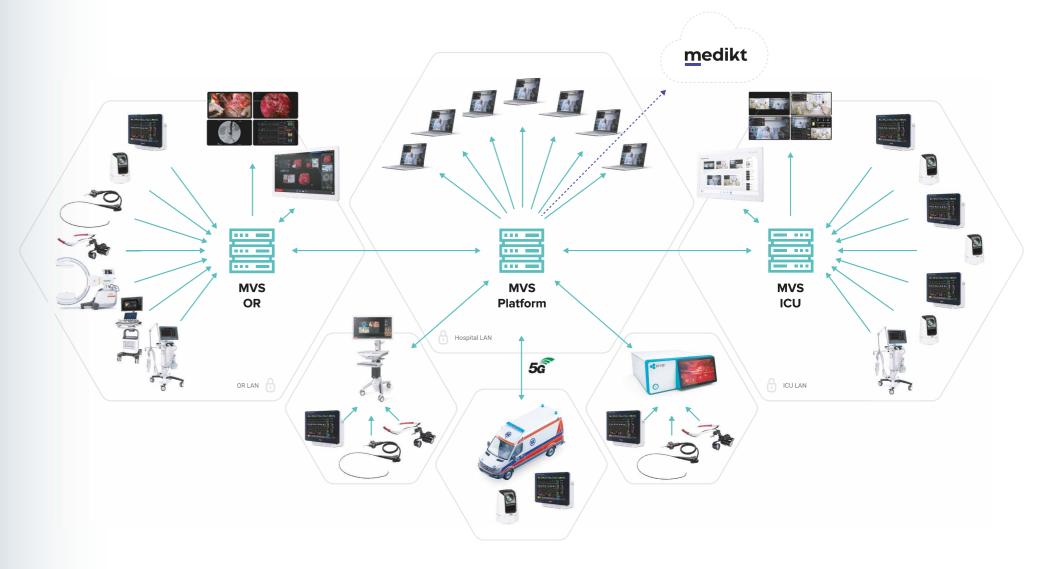
Telemedicine cart

- Simultaneous recording and streaming of up to 4 video sources
- Two-way video teleconsultations
- Synchronization of recordings with central archive of the clinic

Clinical information environment



System interaction



Showrooms

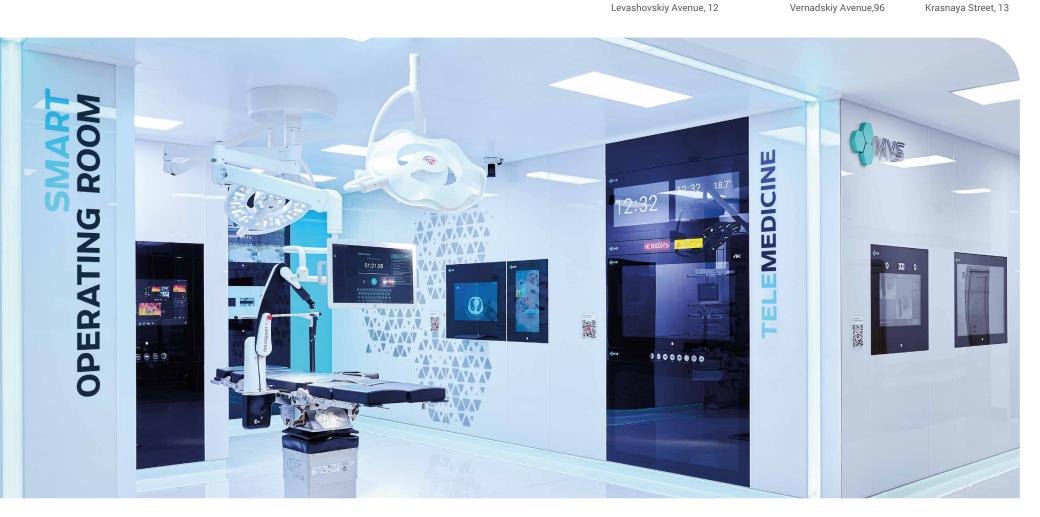
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FUNDS AND GRANTS



















