Experience the Future of Operating Room Technology
The name EIZO has been synonymous with high quality monitor solutions in an extensive range of fields for almost 50 years. High-end EIZO monitors are found all around the globe in back offices, flight control centers, design studios, as well as in industry.

In the year 2002 EIZO stepped into the sensitive field of medical technology. Physicians, IT specialists, and medical technicians worldwide have relied on the quality and functionality of EIZO products ever since. EIZO has been a manufacturer for leading medical technology corporations for many years.

With the brand CuratOR, EIZO has entered the OR — to be more precise, the OR of the future. EIZO's modular concept allows individual extensions and modifications that are trend-setting for the OR interior.

Large Monitor Manager, monitors, video transmission technology, video converters, and even circuit boards are made in-house at EIZO's production facilities.

With almost 1700 employees and 14 branches all over the world, EIZO is the reliable high-performance partner for the OR of the future.

EIZO offers solutions for many users: the surgeon, the surgical team, and the patients. Following extensive consultation and comprehensive discussions, ORs are tailored to your needs. CuratOR is flexible, adaptable, intelligent, and delivers surgical solutions which consist of more than just the supplied technology.

You will find in EIZO a competent partner who designs your OR with you. How is EIZO technology integrated with the OR of the future? What do the interfaces to the outside and to other systems look like? What are the requirements for OR staff? What is there to consider if the OR has to set standards for the future?

CuratOR technology takes into account every perspective such as hygiene, safety, usability, ergonomics, and sustainability. Individual OR equipment, comprehensive medical image viewing, integrated video management, intelligent OR documentation, software and video streaming — EIZO is the specialist for your OR.

Many years of experience combined with maximum enthusiasm.

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The passion and joy EIZO has put into developing CuratOR ensures that we can provide solutions that support and facilitate a positive change to your work in the OR.

CuratOR stands for sustainable and safe OR solutions that are in action around the clock and all around the world.

With in-house production, not only do you keep quality and costs controlled, but you receive a precisely tailored product that matches your exact requirements.

An Optimally Designed Workplace for Doctors and Other Personnel for the Best Possible Treatment of Patients:

This is our mission.

EIZO is a provider of complete solutions in the field of ORs and hybrid ORs. With reliable technology out of the box, EIZO’s many years of experience and proven technology provide the optimal workflow while considering hygiene, ergonomics and safety.

Reliable, Flexible, Responsive, and Full of Energy:
The New Team at EIZO.

The new OR solutions team at EIZO is young and motivated, full of energy, and has extensive experience in all areas that are important for the development of OR equipment in the field of image management. Flexible structures and eye level displays provide an effective, solution-oriented working environment. A pancontinental network rich in know-how and innovative thinking ensures state-of-the-art quality.
Routing, Streaming, Splitting, Saving, Management.

During operations, a variety of imaging modalities are available which can be cross-linked, routed, streamed, and documented with the help of CuratOR solutions.

Detailed information on the products may be found on page 11 and pages 26 and 27.

CuratOR —
Routing, Streaming, Splitting, Saving, Management.

Here, the EIZO Large Monitor Manager is placed along with other self-produced video components. EIZO offers a wide range of customized solutions from a single source.

EIZO delivers customized solutions for the specific requirements of the integration of conventional radiology and cardiology.

EIZO brings digital image and video viewing directly to the operating table in a completely fanless and sanitizable monitor housing.

Live broadcast of an operation can be sent to a lecture hall or for direct consultation with a team of experts outside of the OR — with EIZO nothing is impossible.

EIZO OR solutions are directly aligned with the needs of medical fields. There are no limits to the development of applications for the extensive range of EIZO products.

The heart of an installation is usually the Surgical Panel. Equipped with numerous expansion and connectivity options you can, among many other things, manage your patient data, control external devices, or configure the transmission of video and audio signals — and it is all intuitive, easy, and safe.

CuratOR is changing day to day work in the OR — more is becoming possible and easier — all for the benefit of the surgical team and the patient.
EIZO will develop your OR Equipment with our proven product range. The range is powerful, secure, and makes the best possible use of today’s technology. You have ultimate freedom with regards to adaptability and flexibility. Made directly at EIZO, the devices are customized according to your requirements and will be combined intelligently and optimally.
The EIZO Surgical Panel for the Benefit of the Patient and OR Teams

**Material & Color**

The housing material can be rendered in steel, stainless steel, glass, or a combination of these materials. We colorize the devices according to your choice. The color selection is usually from the RAL range but other options are also available.

**Accessories**

Alongside digital watches a number of other accessories can be integrated. Speakers, cameras, on-air lights, barcode readers, as well as docking stations for peripheral devices such as audio players, and data storage devices.

**Input Devices**

Input options are available via hygienic silicone or membrane keyboards and a silicone mouse. The keyboard mounts are variable and allow flexible tilt adjustment and are also available with a mouse tray.

**Monitors**

Each Surgical Panel can be configured individually with regard to the number and size of the integrated monitors.

The freedom in the configuration of components and customization of display sizes and accessories offers many options to match your exact requirements.

Depending on the set-up, the Surgical Panel can cover a wide range of applications — from the nurse workstation with the ability to access the hospital information system through simple image viewing monitors to centralized control and documentation workplaces.

IP protection — EIZO’s Surgical Panels are completely sealed within the OR. With intelligent heat distribution over the entire front, they do not even require a ventilation system.

The trunk principle allows the device to be opened without complicated disassembly. This makes the maintenance of installed components easy and efficient.

EIZO’s modular concept allows customized extensions and modifications that are trend-setting for the OR interior. With in-house production, not only do you keep quality and costs controlled, but you receive a precisely tailored product that matches your exact requirements.

EIZO’s modular concept allows customized extensions and modifications that are trend-setting for the OR interior. With in-house production, not only do you keep quality and costs controlled, but you receive a precisely tailored product that matches your exact requirements.
SOFTWARE —
Improved Conditions and a New Level of Safety and Quality for Patients

All hardware is controlled centrally with the software, a centerpiece of CuratOR solutions, ensuring the processes in the OR are more simplified. By combining a variety of functions in an easy-to-use interface, sources of error are minimized in the nurse workstation. The software is tied to the particular IT infrastructure of the hospital, for example, via DICOM, HL7, GDT, or Broker and allows OR communication via streaming or videoconferencing. It is also possible to incorporate components from other suppliers. In addition to image, video, text, sound, etc., PACS images can also be viewed or WHO security checklists completed.

CuratOR —
Components

Video recording, conversion, transmission, display information — we combine hardware in a customized solution which supports the mastering of all your tasks.

The workflow in an OR requires precise, accurate, and fast operations as well as the seamless interaction of all technical components. EIZO technology precisely meets those requirements. Software developed specifically for the control and intuitive operation of all devices is deployed.

Components

CuratOR — Video recording, conversion, transmission, display information — we combine hardware in a customized solution which supports the mastering of all your tasks.

Monitor Management & Splitter

With the Large Monitor Managers (LMM) digital and analog images from different signal sources can be fed flexibly to multiple monitors. The LMM is intended for use in ORs, where a particularly flexible image presentation is required during surgery.

For controlling 2-megapixel monitors, up to 5 monitors can be connected in parallel and up to 8 signal sources can be displayed simultaneously so images can be combined for optimum flexibility. Thanks to low latency the images are displayed almost in real time.

Furthermore, a DVI splitter and scaler can be installed which distribute the signals to monitors and make them scalable.

Monitor Controlling

EIZO console monitors offer a reliable platform with flexible mounting options. They have been specially developed for use with the LMM as a control monitor with touch functions and allow you to define and switch between layouts.
CASE STUDY — LUNGENCLINIC GROSSHANSDORF
Conception, Creation, Integration
An insight into the work of EIZO OR Solutions: the extensive range of the LungenClinic Grosshansdorf project.

EIZO’s customers are accompanied at all stages of the project — from planning to installation. The services offered by EIZO go well beyond project completion.

Client
The LungenClinic Grosshansdorf is an internationally recognized specialist clinic for all diseases of the lungs and airways. Annually more than 12,000 inpatients and outpatients are treated with the focus being on pulmonology, oncology, thoracic surgery, and anesthesia.

As one of the few lung specialist clinics in Germany, counseling, treatment and follow-up care are offered by a single source is offered. The clinic is also an academic teaching hospital. With the construction of the new Outpatient Center, Central Patient Enrollment, two new ORs, an Anesthetic Recovery Room, as well as the Central Sterilization Unit, several new facilities were united under one roof.

Scope
The bidding procedure specified the instrumentation / furnishing of the ORs with centralized medical audio, image viewing, and a video and data management system that integrates PACS and HIS and supports the work in the OR. Workflow-oriented, digital and analog signals should be transmitted from the OR workplace in near real time, stored, and retrieved as well controlled via touch screen or a non-contact interface.

In addition, the possibility to transfer from the ORs to an inhouse network was required.

Support
- Planning the video cabling between equipment room, operating room, and video sources.
- Solution-oriented project meetings with planners and architects.
- Detailed planning of cable plans and recommendations for usable types of optical fiber.

CASE STUDY — INTERVIEW
Everything in Sight: Lung clinic improves workflow in the OR with solutions by EIZO

From CT scans to endoscopy videos and electronic patient files, the conventional light box is no longer adequate when a doctor wants full access to all available information about a case. Many clinics still manage with PCs on mobile technology carts with the corresponding space and logistical difficulties, alongside hygiene issues. The LungenClinic Grosshansdorf (Lung Center Grosshansdorf) emphasizes great importance to sourcing an efficient and future-proof solution for their new thoracic surgery rooms and so installed special Surgical Panels by EIZO.

The EIZO system includes several high-resolution displays, some mounted on the walls and others suspended from the ceiling so that the movement of the OR team is not hindered. Integrated video management allows the surgeon flexible yet centralized control between any picture signal, both live recording or saved images, which can be easily switched between any of the displays according to need. This allows the surgeon to concentrate fully on the patient’s care. In the near future, streaming technology will allow live transmission directly from the OR for educational purposes.

Annually about 12,000 patients are treated at the LungenClinic Grosshansdorf, 7,000 of which are in-patients. Every year 1,000 to 1,100 lung surgeries are performed at the specialist clinic.

“It was our goal to create state-of-the-art ORs with modern communication technology fully meeting all current demands with regard to medical care and hygiene whilst also embedding a high level of future compatibility, thus making a sound investment” explains Wolfgang Gerckens, Commercial Director at the clinic.

The requirements regarding the technology, especially the image management aspects, were very high and included live transmission in HD-qualitiy, an integrated audio system, the ability to shift between different screens, touch screen operation on one of the displays, and several different data inputs on another. “An important factor was also reliability. Large quantities of data are now collected for every patient and the physician treating the patient has to have access to that data at all times and that is why fallback routines were really important to ensure constant and reliable availability”, says Medical Technician Malte Sommer together with the Head of Medical Technology Mr. Puchert, who helped to draw up the system specifications.

Video Workstations for Different Requirement Profiles

The choice was made to invest in the concept offered by EIZO who provide a complete range of the latest state-of-the-art displays, video management, and data transfer technology which when combined with their Surgical Panels provides a comprehensive and flexible solution. Both ORs were equipped with several different displays and control systems for different purposes. The workstation for nurses was updated with a 23” display with an integrated PC, a lockable storage space, and a pivoting antimicrobial membrane keyboard to facilitate access to the hospital information system (KIS). A connected barcode scanner simplifies the tracking of consumable supplies. The main control unit is a panel with an integrated PC, a 47” monitor for high-resolution images and a 23” touch screen which allows access to the picture signal distribution and medical documentation software such as PACS. This station is also equipped with a pivoting and height-adjustable...
keyboard, which can adapt ergonomically to the user’s preferred working posture to ensure the highest possible comfort and efficiency. In addition, the keyboard features embedded pressure keys which can be used to switch the video signal in case of a breakdown of the internal PC system. The viewing options are complemented by a 47” grand display featuring different signal input options at the front.

All monitors utilize their highest potential with HD resolution, brightness of up to 700 cd/m², and a contrast ratio of 3000:1 at 23” and 1000:1 at 47” screen diagonal. The display of grayscale is accurately aligned with the DICOM/CIE standard and guarantees reliable imaging and a high degree of interoperability. The packaged unit consisting of a display and PC with a depth of only 10.5 cm and is implemented into the wall to conserve space. The outer surface is a flat case made from powder-coated sheet steel and anti-reflective single-pane safety glass which can be easily cleaned with all disinfectants officially approved by the Robert Koch Institute. Contamination is eliminated since there is no air exchange within the OR.

Two ceiling mounted monitors with two supply units were installed which enable the surgeon to view all images while working on the patient. The monitors above the operating table can be viewed all images while working on the patient. The system is specifically designed to be modality independent so it is compatible with different systems from various manufacturers and it can process digital and analog signals of all known formats. Thanks to this “surgical cockpit” the doctor has access to all images exactly where he or she needs them. “From an ergonomic point of view this system is a quantum leap”, states Dr. Med. Christian Kugler, Chief Physician in the Department of Thoracic Surgery in Grosshansdorf. “Previously the viewing direction, the body, and operating axis didn’t line up. The surgeon had to crick his neck or walk directly in front of the monitor in order to view the screen. The new displays are much more comfortable and the viewing of the pictures is improved which in the end enhances the patient’s well-being.”

In addition the operating tables are also designed to meet the highest ergonomic standards. The surgeons at the Lung Center use the monitors primarily to display radiology diagnostics, endoscopic recordings, especially bronchoscopes as well as thoracoscopies which is a non-invasive method of exploration of the thoracic cavity. The surgeon may determine the image source and the image distribution on the displays. In case other images are needed later, the assisting nurse or the anesthesiologist can easily modify the settings. “Right now we mainly use the cinema setting which shows the images passing through in sequence”, says Dr. Kugler. Surgeons can also activate video sequences via a foot control with freely configurable functions.

Multi-Secured and Future-Oriented Technology

The significant criteria for the concept of image management to meet the high quality requirements in the OR was signal processing. Diagnostically relevant images cannot tolerate the compression loss of regular extenders. EIZO uses a special extender, originally developed for radiology purposes, which guarantees lossless transmission within 36 meters. All picture signals can be output in real-time and in Full HD quality (1080p60 or 3G-SDI). The processing of all connected image sources occurs internally and progressively to ensure the highest display quality using optical fiber cables. “This offers the advantage that even greater quantities of data, for example 4K or Ultra HD images, can be handled effortlessly”, notes Matthias Lubkowitz, Medical Technician Malte Sommer.

Future Plans: Teaching Via Video Stream

Since September 2014, EIZO’s Surgical Panels and video management technology has been in use at the LungClinic Grosshansdorf. The technology has proven itself in the OR to make everyday work easier. However, the extensive systems could also be used in the future for another purpose. An HD streaming module integrated in the consoles allows the transfer of recordings from the OR via TCP/IP over the Internet, which could thus be incorporated in a course for medical students. “Even now we can display images from a camera installed in the operating lamp on the big screen, for example, so that students can watch,” said Dr. Kugler. “The streaming of live images would be a feasible next step.”

The fact that the appropriate technology could be seamlessly integrated into the overall system was one of the reasons for the purchase of the EIZO system for the Lübeck University teaching hospital, as the commercial manager confirms. “The importance of such teaching methods will grow. With the new system, we are prepared for it.”
A collaboration with EIZO begins with the planning of your OR. Whether a new construction or a modernization, your ideal OR will be designed according to your standards of hygiene, usability, and sustainability using everything that is technically possible — an OR which also satisfies the needs of the future.

You will find that EIZO is a partner who will guide you through the entire project — from the first discussion through all stages of implementation to commissioning and maintenance. This results in complete confidence.

It begins with the analysis of your exact needs. You get an inside view of the actual possibilities and a sustainable approach for your OR.

CASE STUDY — CONCEPTION

Intensive and Sustainable Planning Until the Solution Is Achieved.

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“The ideas of our customers are what drive our innovation.”

Matthias Lubkowitz - Vice President EIZO GmbH (OR Solutions)
The employees developing EIZO OR Solutions have many years of experience. I myself have been working for over 20 years at EIZO and have observed as well as taken an active part in the development of the surgical business and the entry of digital ORs as a production manager.

Stephan Reuss — Production Manager EIZO GmbH (OR Solutions)

The image-related technical equipment of your OR is designed based on intensive planning. Monitor and video solutions, advanced image display techniques, and, if necessary, the integration of diagnostic techniques into one hybrid OR — everything is cross-linked with intelligent software, intuitive to use, and customizable to enable you to exploit all the possibilities offered by today’s technology.

EIZO hardware will be adjusted and optimized according to your requirements by the EIZO subsidiary in Plauen, Germany. Specially developed software is skillfully modified to the interfaces and surfaces of the technology which is going to be installed to produce a holistic system — and all from a single source.

CASE STUDY — CREATION

Hardware and Software According to Your Wishes

CuratOR stands for affinity with technology and enthusiasm for the possibilities it offers: this is how solutions from which people benefit are developed.

Our own image manager, medical monitors, video transmission technology, and video converters are used as well as the PCBs from our own in-house production line.
Innovative and future oriented solutions for the surgical area:
This is our mission.

In close collaboration with engineers and IT specialists, EIZO implements the sophisticated systems in your OR until they are ready. That is how complications can be avoided and operations can be optimized.

After the installation, your staff will be fully trained to use the system. In addition, an internal service wiki will be offered to you to address the most common problems by which most service issues can be solved internally.

Quick help through our 24 hour, 7 days a week service hotline is, of course, also provided.

EIZO is there, of course, when the developed solutions are being installed. You will have the same contact person and project manager throughout the process.

CASE STUDY — INTEGRATION

Installation, Setup, and Training
As a matter of course, after the technical acceptance of the OR, the EIZO team remains your point of contact at any time. The work in the operating room cannot wait.

The choice for a system solution stands or falls significantly with the services offered by the provider. EIZO has developed service tools that are tailored to the circumstances of the sensitive OR environment. This means in particular 24/7 support and transparency about the current service process. Because for you and your patients one thing is especially important — that the systems in the OR function properly.

You may access the EIZO service system via various routes. You can use the EIZO 24/7 Service Desk to report a problem or if you require immediate service, simply use the EIZO online platform. When you report known problems the EIZO service wiki will suggest a possible solution when you submit your ticket.

Always Your Partner When You Need Us

SERVICE AND MAINTENANCE —

EIZO 24/7 Service Desk
EIZO offers its customers an online service center. It is able to transfer Service Tickets at any time directly via the web to the Service Desk. It is thus possible to make requests for technicians directly and enables technicians to monitor the process live 24 hours a day, 7 days a week.

Service Contracts
Service contracts are a fair and transparent way to ensure full service and maintenance. We are more than happy to give you advice about possible options and periods of validity.

EIZO Partner Network
EIZO has an extensive network of partners, which are fast and efficient in the case on-site service is needed. All partners are, of course, trained and authorized by EIZO.

Modular Components
The modular components used by EIZO facilitate very easy maintenance. Wall fixtures can be easily opened and components can be replaced by simply loosening a few screws and connectors. All components are state-of-the-art, so the long-term availability of spare parts is guaranteed. This saves time and money.

Could it be any better? Yes, of course! EIZO offers comprehensive maintenance and service contracts. Just contact us!

Using the EIZO service wiki provides information about the components and methods for troubleshooting

You know the technician or sales person who took care of you? You can always call him directly. Through our ticket system we provide transparency regarding your case at all times and you can always see your position at any point in time.
EIZO creates customized OR solutions internationally. The satisfaction and gratitude of our customers confirms the quality of our work.

Global Use, Worldwide Satisfaction

EIZO technology is already embedded in several thousands of installations for large OEM customers worldwide. EIZO has just begun to offer solutions for the OR and is, after only a short time, in use and represented internationally.
## Color LCD Monitors

<table>
<thead>
<tr>
<th>Monitor Size</th>
<th>Resolution</th>
<th>Brightness (typ.)</th>
<th>Inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>LX600W</td>
<td>60.1” (152.5 cm diagonal)</td>
<td>3840 x 2160</td>
<td>520 cd/m²</td>
</tr>
<tr>
<td>LSS80W</td>
<td>57.3” (146 cm Diagonale)</td>
<td>3840 x 2160</td>
<td>700 cd/m²</td>
</tr>
<tr>
<td>LX470W</td>
<td>47” (119.3 cm Diagonale)</td>
<td>1920 x 1080</td>
<td>700 cd/m²</td>
</tr>
<tr>
<td>LX300W</td>
<td>29.8” (79.6 cm Diagonale)</td>
<td>2560 x 1600</td>
<td>750 cd/m²</td>
</tr>
<tr>
<td>EX270W</td>
<td>2” (68.6 cm Diagonale)</td>
<td>1920 x 1080</td>
<td>&gt;800 cd/m²</td>
</tr>
</tbody>
</table>

## Large Monitor Manager

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>Monitors</th>
<th>USB Plugins</th>
</tr>
</thead>
<tbody>
<tr>
<td>digital: 6 x HDMI (DVI-D Single Link)</td>
<td>2 x DVI-D (Dual Link), 1 x HDMI (DVI-D Single Link, Signal, Scaler Output)</td>
<td>alternative: 1 x 2MP, 1-2 x 4MP, 1-2 x FHD, 1-2 x 2MP</td>
<td>6 x USB downstream (for e.g. keyboard, mouse, joystick)</td>
</tr>
<tr>
<td>digital / analog: 2 x DVI-I</td>
<td>4 x FL45 (DVI-D Single Link Signal), 1 x HDMI (DVI Single Link Signal); Link Set needed</td>
<td>max. 5 Monitors (all connected monitors have to have the same resolution): 1MP, 2MP, FHD</td>
<td>8 x USB upstream (for control of video applications on PCs)</td>
</tr>
</tbody>
</table>

## Touch Panel Console Monitor

<table>
<thead>
<tr>
<th>Monitor Size</th>
<th>Brightness</th>
<th>Inputs</th>
<th>USB Plugins</th>
</tr>
</thead>
<tbody>
<tr>
<td>CID1000P</td>
<td>10.4”</td>
<td>230 cd/m²</td>
<td>1 x RS232</td>
</tr>
</tbody>
</table>

## Analog-DVI Converter

<table>
<thead>
<tr>
<th>Plugins Inputs</th>
<th>Input Signals</th>
<th>Outputs</th>
<th>Output Signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x DVI-I (digital: DVI, analog: RGB) x 1, 1 x D-Sub Mini 15 pin (Separate, Composite, Sync), 1 x BNC (Composite, PAL, NTSC), 1 x 4 pin Mini DIN (S-Video)</td>
<td>digital: DVI-D (Single Link), max: 1920 x 1200, 60 Hz analog: VDGA, SDGA, XGA, SXGA, UXGA, UXGA, PAL, NTSC</td>
<td>DVI-D x 1</td>
<td>1080 x 1024 (SXGA, 60 Hz)</td>
</tr>
</tbody>
</table>

## DVI Splitter / Scaler

<table>
<thead>
<tr>
<th>Plugins Inputs</th>
<th>Input Signals</th>
<th>Outputs</th>
<th>Output Signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDC0100</td>
<td>digital: DVI-D (Single Link)</td>
<td>DVI-D x 1</td>
<td>1080 x 1024 (SXGA, 60 Hz)</td>
</tr>
</tbody>
</table>

## DVI Transmission Link

<table>
<thead>
<tr>
<th>Plugins Inputs</th>
<th>Input Signals</th>
<th>Outputs</th>
<th>Output Signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDL3600-DL: 1 x DVI-D (Dual Link)</td>
<td>TDL3600-DL: 1 x DVI-D (Single Link)</td>
<td>TDL3600-DL: 1 x DVI-D (Dual Link)</td>
<td>TDL3600-DL: 1 x DVI-D (Single Link)</td>
</tr>
</tbody>
</table>

Transmitter module at PC side (DVI-D – FL45), ethernet cable (FL45 – FL45), receiver module at monitor side (FL45 – DVI-D)