extracting the essence.

To carve out even the smallest details is essential in medical practice.

Because only people who can obtain a clear picture, and only those who can separate what is important from what is not, get clear results in medicine. Exceptional image quality, a perfectly coordinated network, support software, and excellent customer service are some of the reasons why EIZO RadiForce medical solutions can be found in leading hospitals around the world.

Because just like medical professionals, we always have one goal in mind:

extracting the essence.
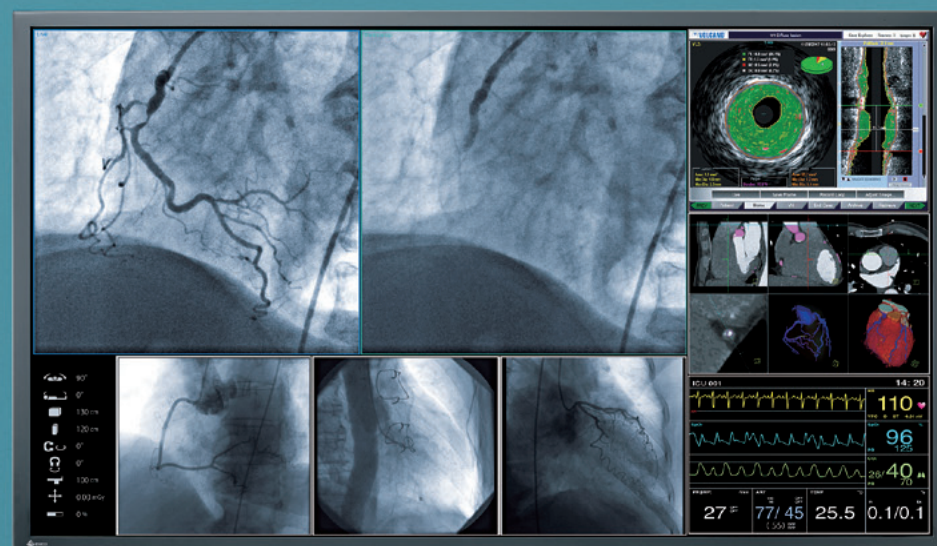
*Pictures courtesy of Siemens AG.*

# Selecting the Optimum Surgical Monitor

## For the Control Room

### Different Models for Reliable Integration

In the control room there is a need for high quality diagnostic monitors with larger screens and intelligent picture management to watch and control all applications and images used in the operating room (OR) from one centralized working place.
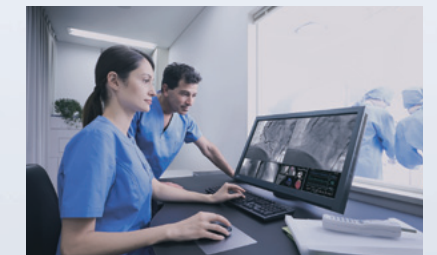
## For the Interventional Room

### High-Quality Images Enhance Surgical Efficiency

During Interventional Radiology (IR), a wide range of medical information and images are required simultaneously, thus cutting-edge display quality makes a difference by bringing out the details needed by the interventional radiologist.

### Focal Point on a Single Monitor

With its size and resolution, EIZO's large-scale monitors for OR can display images from multiple modalities simultaneously. This improves work efficiency while solving common issues encountered in multi-monitor environments like differences in panel color.

## For the Operating Room

### Room with a View

EIZO's surgical monitors reduce the overall equipment footprint in the OR while increasing flexibility and efficiency for procedures. They can be quickly and easily set-up to display many gamma models, including Gamma 2.2 or DICOM Part 14 for optimized presentation of different medical images in the OR.

### Monitors Ideally Suited to the Surgical Environment

EIZO's surgical monitors offer stabilized brightness settings for quick adjustment to the surgical procedure or local lighting conditions. The mechanical design is optimized to save precious space in the OR. The monitors meet the highest demands for frequent cleaning and protection against fluid ingress.

# Surgical Monitor Solutions

With increasing system connectivity, multiple systems and monitors are often used concurrently in surgical rooms. EIZO provides optimal solutions to ensure safe and reliable integration which meets the satisfaction of diverse requirements.

## Interventional Room

Important pictures can be scaled to the desired size and less important information can be moved out from visible area. Different workflow scenarios can be predefined and recalled on demand.

**Large Monitor**

Offering information on a super-high-resolution widescreen is ideal for supporting efficient and smooth surgical operations.
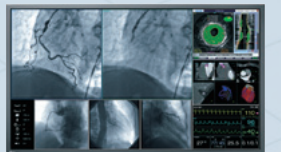
**Touch Panel Console Monitor**

Quick and easy set up and recall of various screen layouts with touch functionality at the side of an operating table.

**Surgical Wall Mount Monitor**

Large screen monitors allow images to be viewed from a distance, saving valuable space around the operating table while allowing flexible display and arrangement of medical images from a variety of sources.
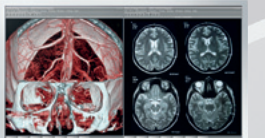
**Surgical Monitor**

Whether used for minimally invasive procedures, open surgery or in a hybrid environment, EIZO surgical monitors offer exceptional image quality and are optimized for maximum flexibility in the operating room environment.

**Large Monitor Manager**

Gathers various video inputs, combines and arranges them in accordance with user preferences, and displays the resulting output on the monitors.

**DVI Transmission Link**

**Wide Monitor**

Displaying all information on only one monitor and controlling applications from one working place saves space, time and energy.

## Control Room

Data gathered from various sources and directed in accordance with the variable viewing configurations.

## Picture Sources

In modern hospitals there is an increasing number of varied image sources which need to be displayed at the same time in different application rooms.
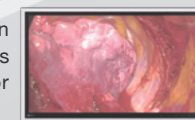
Fluoroscopy

Magnetic Resonance

Computed Tomography

Angiography

Ultrasound

Digital signal

Analog signal

Analog-DVI Converter

PACS

Radiography

Endoscope

Electrocardiogram

## Operating Room

With quick access to multiple image sources and flexible arrangement across different monitors, EIZO's OR portfolio enables a broader range of applications, offering timely image information and improving the overall workflow for the entire operating team.

# RadiForce L&E-Series
## Surgical Monitors

As the variety of different picture sources increases, state-of-the-art operating rooms are increasingly shifting from traditional X-ray film to displaying images on monitors. These images originate from boom and endoscopy cameras to C-arms and Picture Archiving and Communication Systems (PACS). With EIZO's RadiForce surgical monitors, all images can be conveniently provided for clear decision-making and the highest diagnostic precision.

## Common Features

### View Accurate Images in Moments

The EIZO-patented drift correction function quickly stabilizes the brightness level of the monitor upon startup or wakeup from sleep mode, giving you the most accurate images quickly ready for viewing. In addition, a sensor measures the backlight brightness and automatically compensates for brightness fluctuations caused by ambient temperature and aging for a consistently stable display.

Without Brightness Stability Function

With Brightness Stability Function

### Comfortably View from Any Angle

Wide viewing angles allow you to view the screen from the side with minimal color shift, also permitting more than one person to view the monitor comfortably at the same time.
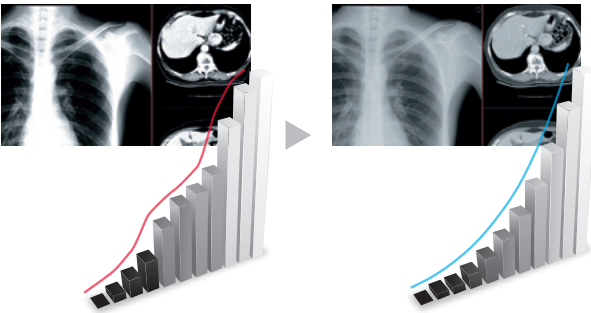
Narrow Viewing Angles

Wide Viewing Angles
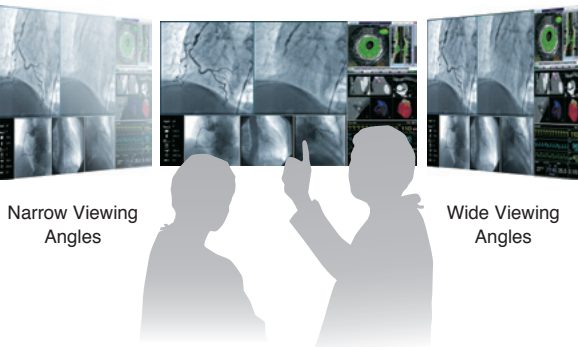
### Make the Precise Diagnosis

EIZO carefully measures and sets each and every grayscale tone to create a monitor compliant with DICOM Part 14. This ensures the most consistent shading possible, allowing you to make the most accurate diagnosis.
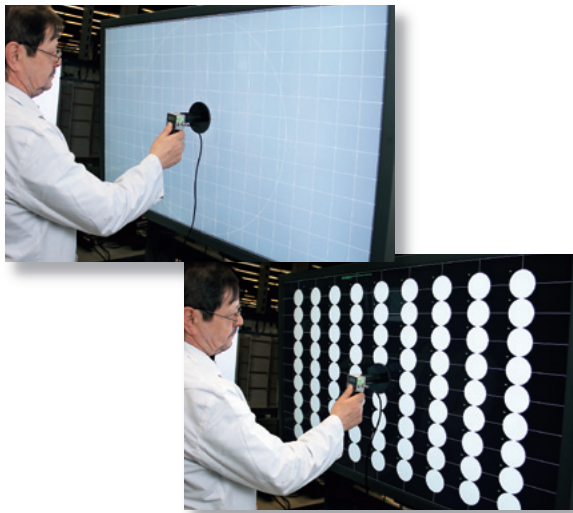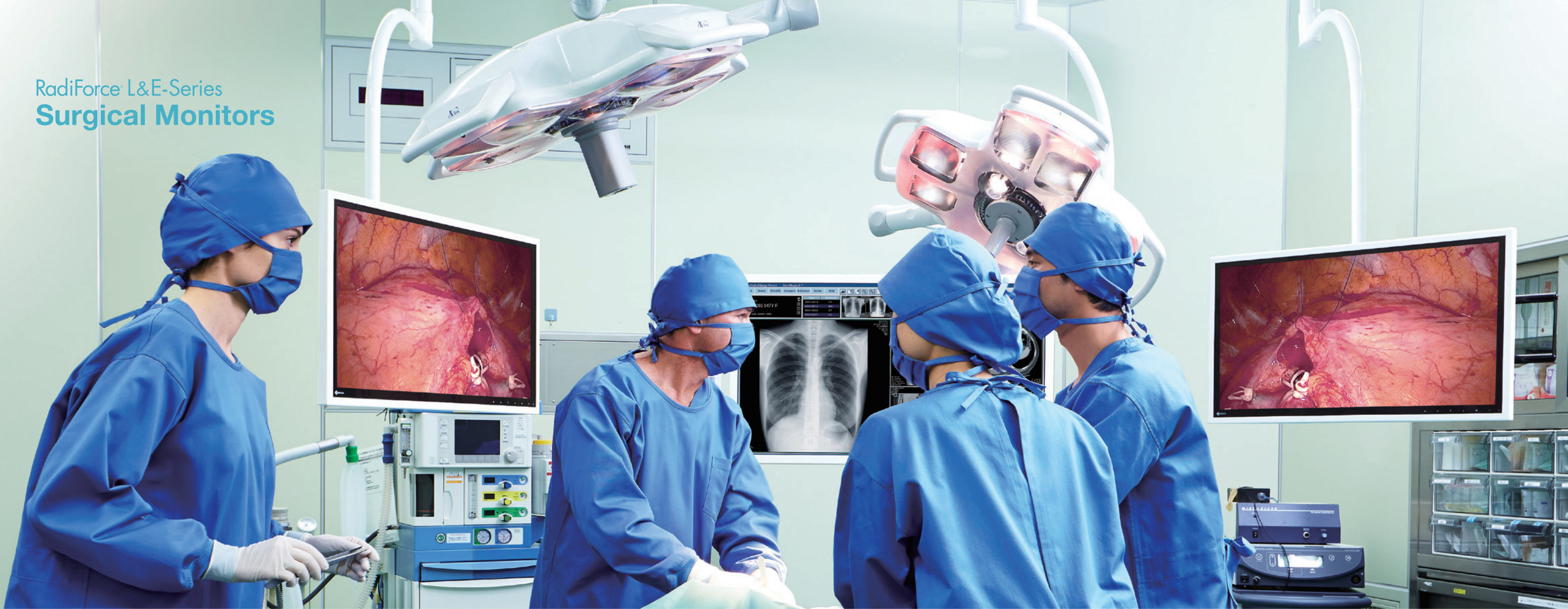
### Maintain the Precision

RadiForce monitors are calibrated to comply with DICOM Part 14 to maintain image accuracy and consistency over time.

Common Features

## Keep Your Monitor Lit Longer

The monitors are equipped with an LED backlight that offers a significantly longer service life over conventional CCFL, which deteriorate more quickly. In addition, you can maintain high brightness while simultaneously lowering power consumption. Since the LED backlight is mercury-free, it will also reduce any potential impact on the environment when it is disposed of.

## Attain Steady Images Across the Screen

The Digital Uniformity Equalizer (DUE) function helps to even out fluctuations in brightness and chroma on different parts of the screen to provide smoother images, a quality typically difficult to attain due to the characteristics of LCD monitors.

*All models except the SCD 19102, EX270W and LX470W.*

Without DUE

With DUE

## Convenient Installation

The monitor supports VESA mounting for conveniently installing in operating rooms.

## Rest Assured with Medical Qualifications

The monitors meet the strictest medical, safety, and EMC emission standards.

# Monitors for Control Rooms

Wide screen monitors are ideal to watch and control all applications and images used in the operating room from the control room desk. High-end and standard models are available to fit your usage requirements.

**31.1" WIDE** RX850
79 cm (31.1") Color LCD Monitor
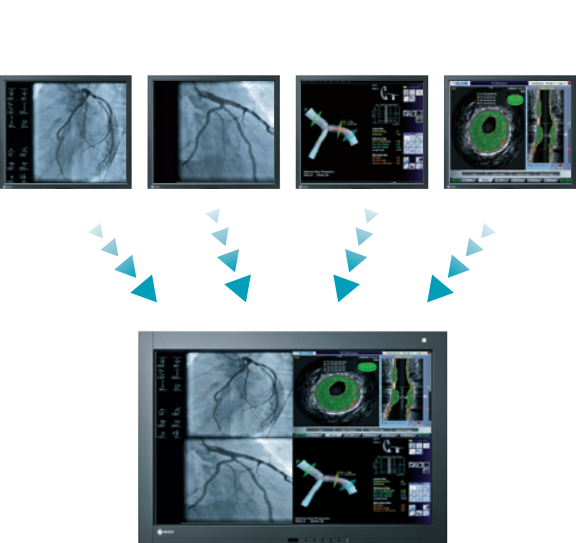
**27" WIDE** MX270W
68 cm (27") Color LCD Monitor

**29.8" WIDE** RX440
76 cm (29.8") Color LCD Monitor

## Features

### Everything on One Screen

The monitors' high resolution is suitable for displaying and viewing large volumes of information on just one screen. This improves workflow efficiency and saves time.

### Ensure a Direct View

Wide format screen size creates more free space for work efficiency in the control room and ensures a direct view into the operating room.

### Conserve Energy While Away

The presence sensor prompts the monitor to switch to power save mode when it detects you are away, and then resumes normal operation when you return. This ensures that the monitor conserves power when it is not in use, uniting convenience with savings.
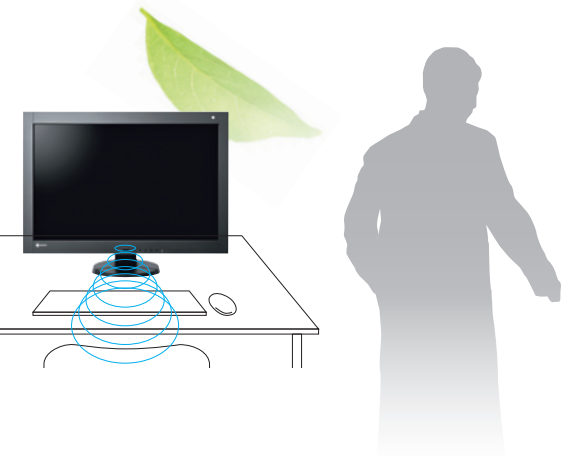
### Improve Operability

EIZO's highly versatile stand offers, tilt, swivel, and a wide height adjustment range, enabling you to use the monitor with greater comfort.

# Monitors for Interventional Rooms

With a selection ranging from space-saving compact screen monitors up to a 60-inch large screen for flexible image layouts, EIZO offers a complete spectrum of monitors for image distribution in the interventional room.



**19"** SCD 19102
48 cm (19") Color LCD Monitor
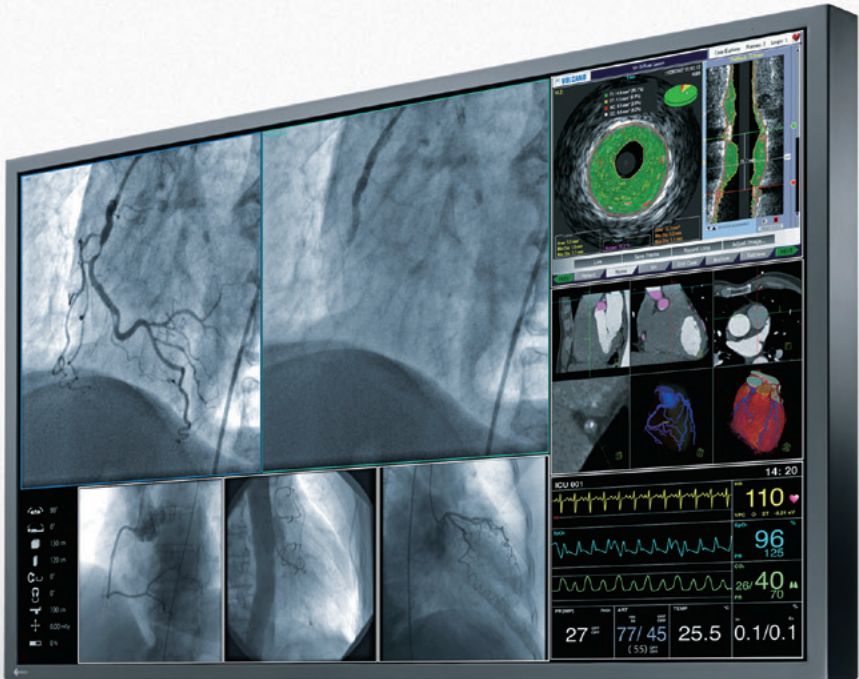
**60" WIDE** LX600W
153 cm (60.1") Color LCD Monitor

**58" WIDE** LS580W
146 cm (57.5") Color LCD Monitor

**29.8" WIDE** LX300W
76 cm (29.8") Color LCD Monitor

## Features

### Operational Reliability

With its redundant components architecture (2 power supplies, 2 backlights, 2 transmission links), EIZO's 8 megapixel large screen monitors ensure a high degree of operational reliability for fail-safe environments. A monitoring function can be configured to notify the X-ray system if e.g. operating conditions become critical or a component fails.



Transmission Link 1   Transmission Link 2
Power Supply
Backlight 1  1
Backlight 2  2
Error Reporting
Monitor
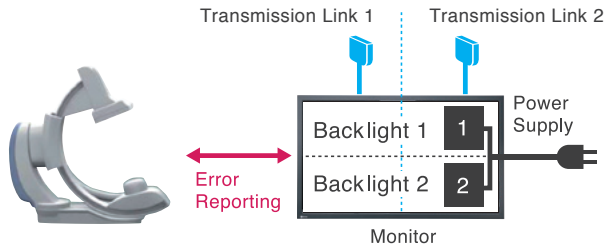
### Support of Complex Timings

Although standard video signals are generally recognized by monitors automatically, many monitors are unable to properly represent the proprietary signal formats used with older medical equipment. With its Force Mode function, the SCD 19102 can be adapted to timings outside of standard range, thus helping to preserve legacy devices and support specialized application requirements in the hospital environment.
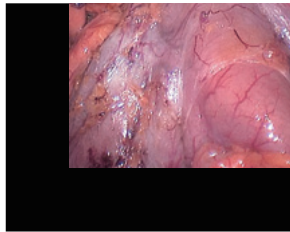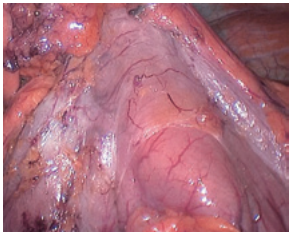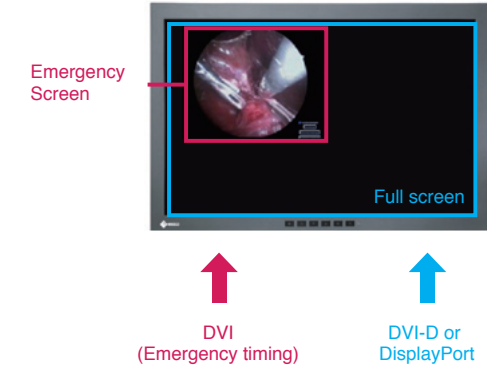


Without Force Mode          With Force Mode

### Fail-Safe Function

The LX300W is equiped with a special fail-safe mode through DVI input for emergency information from the system for a certain timing. As soon as the timing is active, the information will be shown immediately on the upper left screen side.



Emergency Screen
Full screen
DVI (Emergency timing)       DVI-D or DisplayPort

### Controlled Cooling

The LX300W features intelligent cooling concept by measuring and controlling the inside temperature. A mode without fan cooling is selectable so the controlled laminar airflow will be undisturbed within the room as far as possible.



With Fan Mode          Without Fan Mode
Reduce Brightness
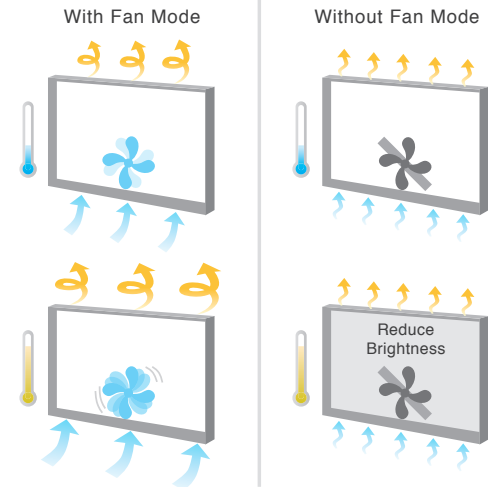
# Monitors for Operating Rooms

The 47-inch large screen surgical wall-mount monitor is ideal for viewing medical images from multiple sources from a distance. The 27-inch modular monitor is especially designed for use near the operating table or on a medical equipment tower. All operating room (OR) monitors may be used in conjunction with EIZO's video management systems or for applications with a direct connection to the image source.

**27" WIDE** EX270W
68.6 cm (27") Color LCD Monitor
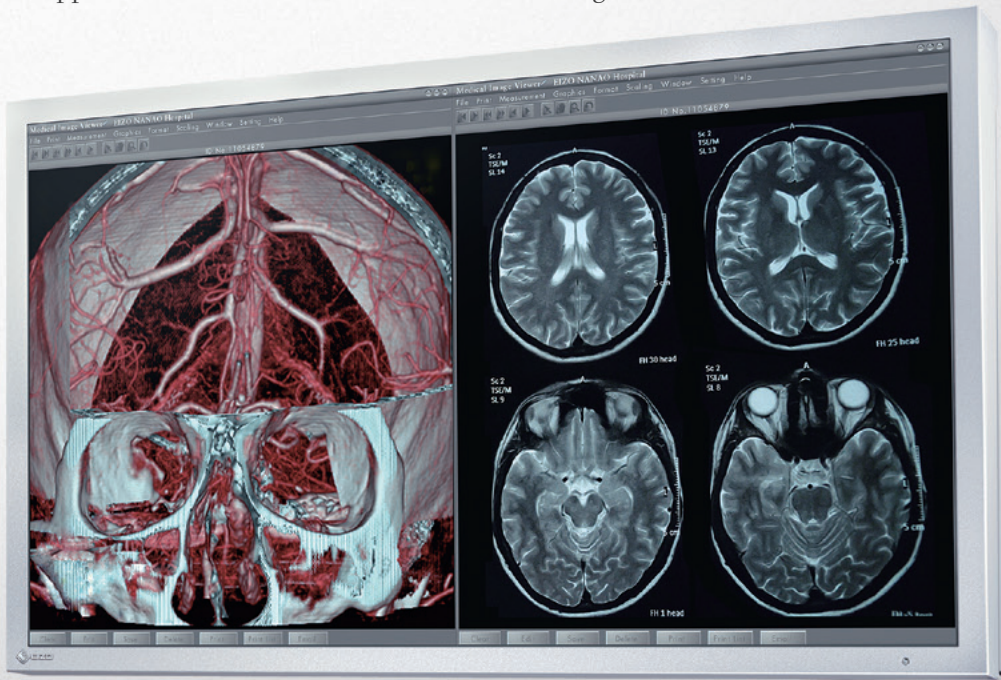
**47" WIDE** LX470W
119 cm (47") Color LCD Monitor

## Features

### Modular Design

As a modular monitor, the EX270W supports targeted connectivity and the ability to evolve to changing technology demands. With a growing range of input modules, the monitor can be tailored to the individual application. This not only optimizes material costs, it reduces cable clutter and the overall physical footprint and simplifies system design.

DVI          TDL          M12

### Sleek and Encapsulated Housing

The EX270W boasts a slim design and low weight, saving precious space in the OR. The encapsulated housing offers unsurpassed fluid resistance, making it ideal for the frequent cleaning demands around the surgical table. Additionally, EIZO OR monitors are engineered to dissipate heat without a fan, generates no distracting noises and does not circulate dust and germs or disturb the controlled laminar airflow within the OR.
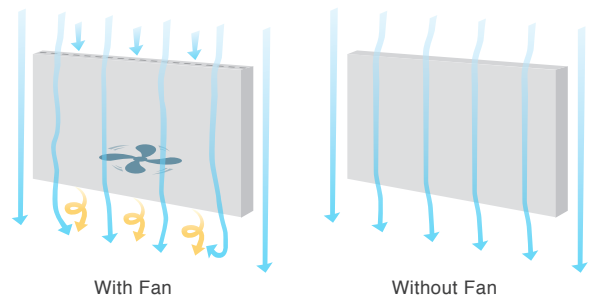
With Fan          Without Fan

### Multi-Source Viewing

The LX470W offers Picture-in-Picture (PiP), Picture-and-Picture (PaP), and Picture-on-Picture (PoP) viewing modes to allow users to view different video sources simultaneously. While focusing on the primary image, users of these functions can switch on other sources to review archived images, vital signs or other critical information needed during an operation. These functions also serve to get an overview of the various available input signals.
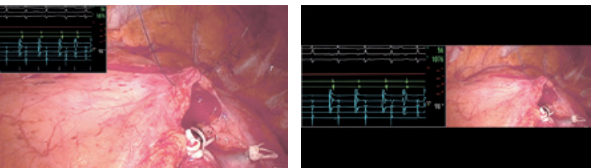
PiP          PaP
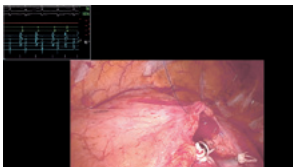
PoP

### Wide Range of Input and Output Support

The LX470W surgical wall-mount monitor offers multiple input signals to allow connections to both legacy and state-of-the-art systems without additional devices or cost. With loop-through support, the monitor is ideally suited for multi-monitor integration or recording in the OR.

# Large Monitor Manager

The Large Monitor Managers gather various video inputs, combine and arrange them in accordance with user preferences, and display the resulting output flexibly on the connected monitors.

## LMM0802
Large Monitor Manager for Control Room or Interventional Radiology Room

## LMM0804
Large Monitor Manager for Operating Room

## LMM0801
Large Monitor Manager for Control Room

## LMM56800
Large Monitor Manager for Interventional Room

## Features

### All Gather In One to Optimize Workflow

The Large Monitor Manager bundles up different signal sources and enables you control them from one location. Individual image placement and window size preferences can be easily arranged and recalled using the Large Monitor Manager.

### Centralized Working Place

Working with LMM0801 and LMM0802, the operator can focus on a single monitor, keyboard and mouse instead of juggling with multiple systems. This speeds up workflow and reduces the potential for handling errors. Two monitors, keyboards, and mice can be alternatively connected to one LMM0802 for separate controlling. Two independent work spaces can be secured when, for example, there is one person responsible for modality information and one person responsible for PACS.
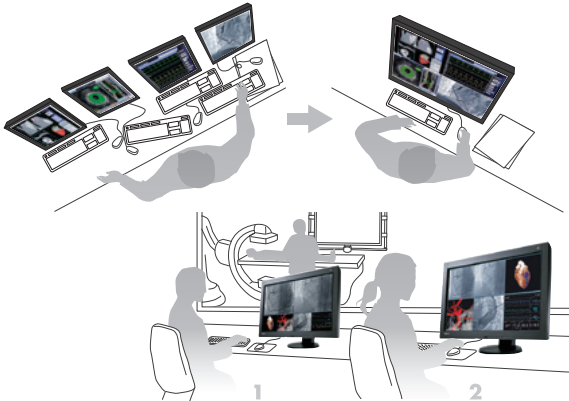
### Various Image Sources

The Large Monitor Managers have up to 27 video connections and can process digital DVI signals up to a resolution of 1920 x 1200. Additionally there are analog connections available.
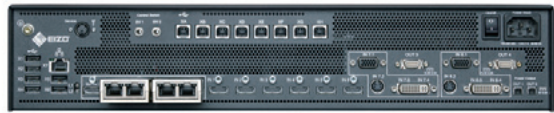
### Layout Differently on Multiple Monitors

With LMM0804, up to 8 signal sources can be displayed simultaneously on a maximum of 5 connected monitors. The necessary source information can be selected and displayed independently. This is useful when the multiple staff in endoscopic surgeries stand in different positions and need different information.
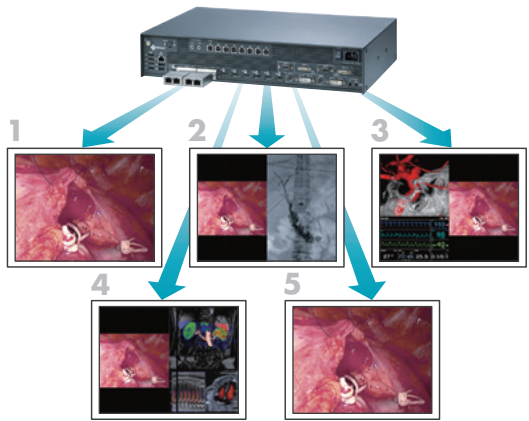
# Signal Routing Device

EIZO also offers flexible and easy-to-install signal routing solutions for use with its monitors and Large Monitor Managers.

## PDS0800-HD
DVI Splitter / Scaler

## PDC0100
Analog-DVI Converter

## CID1000P
Touch Panel Console Monitor

## TDL3600 / TDL2300
DVI Transmission Link

### Analog to Digital Converter

PDC0100 converts analog video to digital DVI format. The integrated Force Mode function supports unique analog input signals. With a range of accessories and high interconnectivity, the converter allows maximum flexibility for integration into existing systems.
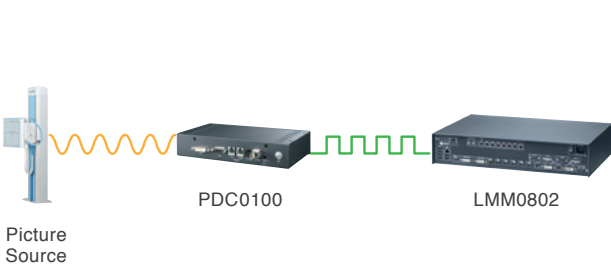
### Signal Splitter

By utilizing PDS0800-HD, signals coming from LMM56800 or LMM0802 are repeated and doubled to connect two 8 megapixel monitors. The HD output generates a downscaled representation of the content displayed on the large screen.
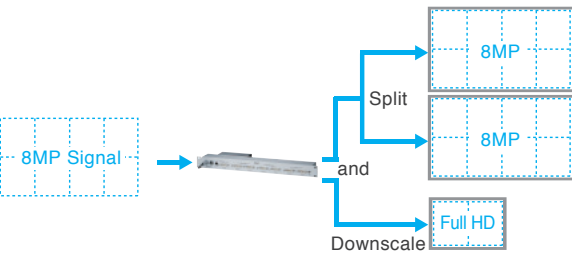
### Signal Transmission for Long Distance

TDL enables transmission of high-quality video data of distance up to 36 meters with no quality loss. Ethernet cable transmission allows robust handling and simple setup which easily runs through small conduits and holes.
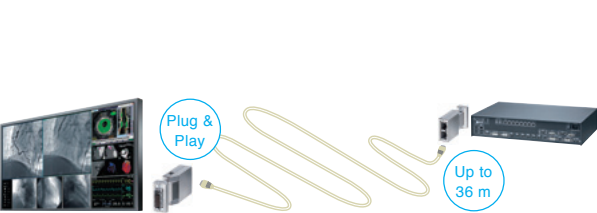
### Local and Remote Control

Layout edition or layout change, either can be done with local keyboard & mouse or remotely by browser interface. Simple user interface for layout change by using CID1000P.

Picture Source → PDC0100 → LMM0802

8MP Signal → Split / and → 8MP, 8MP, Downscale → Full HD

Plug & Play → Up to 36 m

# Specifications



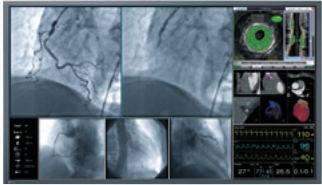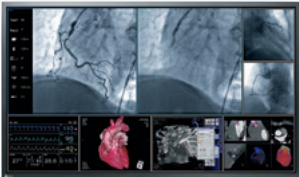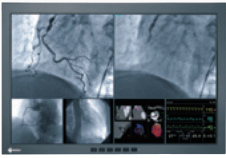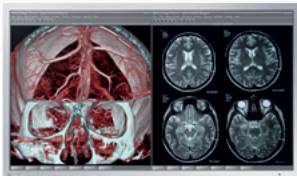| | | RadiForce LX600W (60" WIDE) | RadiForce LS580W (58" WIDE) | RadiForce LX300W (29.8" WIDE) | SCD 19102 (19") | RadiForce RX850 (31.1" WIDE) | RadiForce RX440 (29.8" WIDE) | RadiForce MX270W (27" WIDE) |
|---|---|---|---|---|---|---|---|---|
| Model Variations | | LX600W: Without Panel Protector LX600WP: With Panel Protector | — | LX300W: Without Stand, without Panel Protector LX300W-S: With Stand, without Panel Protector LX300W-P: Without Stand, with Panel Protector | SCD 19102 D: With Stand SCD 19102 C: Without Stand SCD 19102 CP: Without Stand, with Panel Protector | RX850: Anti-Glare coating RX850-AR: Anti-Reflection coating | — | — |
| Cabinet Color | | Black | Black | Black | Black | Black | Black | Black |
| Panel | Type | Color TFT LCD Panel (VA) | Color TFT LCD Panel (VA) | Color TFT LCD Panel (IPS) | Color TFT LCD Panel (IPS) | Color TFT LCD Panel (IPS) | Color TFT LCD Panel (IPS) | Color TFT LCD Panel (IPS) |
| | Backlight | LED | LED | LED | CCFL | LED | LED | LED |
| | Size | 153 cm / 60.1" (1,526 mm diagonal) | 146 cm / 57.5" (1,460 mm diagonal) | 76 cm / 29.8" (756 mm diagonal) | 48 cm / 19" (481 mm diagonal) | 79 cm / 31.1" (789 mm diagonal) | 76 cm / 29.8" (756 mm diagonal) | 68 cm / 27" (684 mm diagonal) |
| | Native Resolution | 3840 x 2160 (16:9 aspect ratio) | 3840 x 2160 (16:9 aspect ratio) | 2560 x 1600 (16:10 aspect ratio) | 1280 x 1024 (5:4 aspect ratio) | 4096 x 2160 (17:9 aspect ratio) | 2560 x 1600 (16:10 aspect ratio) | 2560 x 1440 (16:9 aspect ratio) |
| | Viewable Image Size (H x V) | 1330.0 x 748.0 mm | 1270.0 x 721.0 mm | 641.0 x 401.0 mm | 376.0 x 301.0 mm | 697.9 x 368.0 mm | 641.2 x 400.8 mm | 596.7 x 335.6 mm |
| | Pixel Pitch | 0.3465 x 0.3465 mm | 0.331 x 0.334 mm | 0.2505 x 0.2505 mm | 0.294 x 0.294 mm | 0.1704 x 0.1704 mm | 0.2505 x 0.2505 mm | 0.233 x 0.233 mm |
| | Display Colors | 8-bit colors: 16.77 million colors | 8-bit colors: 16.77 million colors | 10-bit colors (DisplayPort) : 1.07 billion (maximum) colors 8-bit colors: 16.77 million colors | 8-bit colors: 16.77 million colors | 10-bit colors (DisplayPort) : 1.07 billion (maximum) colors 8-bit colors: 16.77 million from a palette of 68 billion colors | 10-bit colors (DisplayPort) : 1.07 billion (maximum) colors 8-bit colors: 16.77 million from a palette of 68 billion colors | 10-bit colors (DisplayPort) : 1.07 billion (maximum) colors 8-bit colors: 16.77 million from a palette of 68 billion colors |
| | Viewing Angles (H / V, typical) | 176° / 176° | 176° / 176° | 170° / 170° | 170° / 170° | 178° / 178° | 176° / 176° | 178° / 178° |
| | Brightness (typical) | 520 cd/m² | 700 cd/m² | 750 cd/m² | 280 cd/m² | 850 cd/m² | 750 cd/m² | 300 cd/m² |
| | Recommended Brightness for Calibration | 300 cd/m² | 350 cd/m² | 400 cd/m² | — | 500 cd/m² | 400 cd/m² | — |
| | Contrast Ratio (typical) | 4000:1 | 4000:1 | 1100:1 | 600:1 | 1450:1 | 1100:1 | 1000:1 |
| | Response Time (typical) | 6 ms (Midtone) | 9.5 ms (Midtone) | 20 ms (On/Off) | 28 ms (On/Off) | 20 ms (On/Off) | 20 ms (On/Off) | 12 ms (On/Off), 8 ms (Midtone) |
| Video Signals | Input Terminals | DVI-D (dual link) x 2 | DVI-D (dual link) x 2 | DVI (dual link / single link) x 1, DVI (single link) x 1, HDMI (DVI-signal) x 1, DisplayPort x 1 | BNC (Composite) x 1, DVI-I x 1, D-Sub mini 15 pin (Separate Sync, Composite Sync, SoG) x 1, S-Video x 1 | DVI-D (dual link) x 2, DisplayPort x 2 (two inputs are required) | DVI-D (dual link) x 1, DVI-D (single link) x 1, DisplayPort x 1 | DVI-D x 1, DisplayPort x 1 |
| | Output Terminals (Loop Through) | — | — | — | — | — | — | — |
| | Digital Scanning Frequency (H / V) | 124 - 131.4 kHz / 59.7 - 60.3 Hz | 131.3 kHz / 59.7 - 60.3 Hz | 31 - 100 kHz / 29.5 - 61 Hz Frame synchronous mode: 59.5 - 60.5 Hz | 31 - 100 kHz / 48 - 85 Hz | 31 - 140 kHz / 59 - 61 Hz Frame synchronous mode: 29.5 - 30.5 Hz, 59 - 61 Hz | 31 - 159 kHz / 29 - 61 Hz Frame synchronous mode: 59 - 61 Hz, 29.5 - 30.5 Hz | 31 - 89 kHz / 29.5 - 61 Hz |
| | Analog Scanning Frequency (H / V) | — | — | — | 24 - 100 kHz / 48 -120 Hz | — | — | — |
| | Sync Formats | — | — | — | — | — | — | — |
| USB | Function | — | — | 1 upstream, 2 downstream | — | 1 upstream, 2 downstream | 1 upstream, 2 downstream | 1 upstream, 2 downstream |
| | Standard | — | — | USB 2.0 | — | USB 2.0 | USB 2.0 | USB 2.0 |
| Power | Power Requirements | AC 100 - 240 V: 50 / 60 Hz | AC 100 - 240 V: 50 / 60 Hz | AC 100 - 240 V: 50 / 60 Hz | AC 100 - 240 V: 50 / 60 Hz | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz |
| | Maximum Power Consumption | 500 W | 400 W | 150 W | 58 W | 227 W | 167 W | 82 W |
| | Typical Power Consumption | — | — | — | — | 111 W | 84 W | 39 W |
| | Power Save Mode | Less than 41 W | Less than 38 W | Less than 20 W | Less than 8 W | Less than 6 W | Less than 0.7 W | Less than 1 W |
| | Power Management | DVI DMPM | DVI DMPM | DVI DMPM, DisplayPort 1.1a | Digital: DVI DMPM, Analog: VESA DPM | DVI DMPM, DisplayPort 1.1a | DVI DMPM, DisplayPort 1.1a | DVI DMPM, DisplayPort 1.1a |
| Sensor | | Backlight Sensor x 2 | Backlight Sensor | Backlight Sensor | Backlight Sensor | Backlight Sensor, Integrated Front Sensor, Presence Sensor, Ambient Light Sensor | Backlight Sensor, Integrated Front Sensor, Presence Sensor, Ambient Light Sensor | Backlight Sensor, Integrated Front Sensor |
| OSD Languages | | — | — | English, German | English, German | English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese | English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese | English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese |
| Physical Specifications | Net Weight | — | — | LX300W-S: 19.5 kg +/- 1 kg | SCD 19102 D: 10.7 kg | 22.4 kg (AC adapter included) | 20.2 kg | 11.1 kg |
| | Net Weight (Without Stand) | LX600W: 55 kg LX600WP: 65 kg | 47 kg | LX300W: 15.5 kg +/- 1 kg LX300W-P: 18.5 kg +/- 1 kg | SCD 19102 C: 6.4 kg SCD 19102 CP: 7.0 kg | 15.8 kg | 16.0 kg | 8.4 kg |
| | Hole Spacing (VESA Standard) | 400 x 400 mm, M8, depth 16 - 20 mm | 400 x 400 mm, M8, depth 16 - 20 mm | 200 x 100 mm and 100 x 100 mm, M4, depth 8 - 11 mm | 100 x 100 mm, M4, depth 7 - 9 mm | 100 x 100 mm | 200 x 100 mm and 100 x 100 mm | 100 x 100 mm |
| Environmental Requirements | | IP20 | IP20 | IP 20 | SCD 19102 D, SCD 19102 C: IP20 SCD 19102 CP: IP22 for front, IP20 | — | — | — |
| Certifications & Standards (Please contact EIZO for the latest information.) | | CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, FCC-A, C-tick, RoHS, China RoHS, WEEE, CCC | CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, FCC-B, RoHS, China RoHS, WEEE, CCC | CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, FCC-B, C-tick, RoHS, China RoHS, WEEE, CCC | CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, FCC-A, C-tick, RoHS, China RoHS, WEEE, CCC | CE (Medical Device Directive), EN60601-1, UL60601-1, CSA C22.2 No. 601-1, IEC60601-1, VCCI-B, FCC-B, Canadian ICES-003-B, C-tick, RoHS, China RoHS, WEEE, CCC, GOST-R | CE (Medical Device Directive), EN60601-1, UL60601-1, CSA C22.2 No. 601-1, IEC60601-1, VCCI-B, FCC-B, Canadian ICES-003-B, C-tick, RoHS, China RoHS, WEEE, CCC, GOST-R | CE (Medical Device Directive), EN60601-1, UL60601-1, CSA C22.2 No. 601-1, IEC60601-1, VCCI-B, FCC-B, Canadian ICES-003-B, C-tick, RoHS, China RoHS, WEEE, CCC, GOST-R |
| FDA 510(k) Clearance | | — | — | — | — | Yes (for Mammography and General Radiography) | Yes (for General Radiography) | Yes (for General Radiography) |
| Supplied Accessories | | AC power cord, dual link signal cable (DVI-D - DVI-D) x 2, Utility Disk (PDF Instructions for Use) | AC power cord, dual link signal cable (DVI-D - DVI-D) x 2, Utility Disk (PDF Instructions for Use) | AC power cord (eu, us, jp, LX300W-S only), dual link signal cable (DVI-D - DVI-D, LX300W-S only), Utility Disk (PDF Instructions for Use) | AC power cord, dual link signal cable (DVI-D - DVI-D, BNC - D-Sub mini 15 pin), Utility Disk (PDF Instructions for Use) | AC power cord, AC adapter, dual link signal cable (DVI-D - DVI-D) x 2, signal cable (DisplayPort - DisplayPort) x 2, USB cable, holder for power cord, Utility Disk (RadiCS LE, ScreenManager Pro for Medical, PDF instructions for use, PDF installation manual), instructions for use | AC power cord, dual link signal cable (DVI-D - DVI-D), signal cable (DisplayPort - DisplayPort), USB cable, Utility Disk (RadiCS LE, ScreenManager Pro for Medical) | AC power cord, signal cables (DVI-D - DVI-D, DisplayPort - DisplayPort), USB cable, Utility Disk (RadiCS LE, ScreenManager Pro for Medical, user's manual) |
| Dimensions (Unit: mm) | |  |  |  |  |  |  |  |
| Connectors | |  |  |  |  |  |  |  |

# Specifications

## RadiForce LX470W (47" WIDE) / RadiForce EX270W (27" WIDE)

| | | LX470W | EX270W |
|---|---|---|---|
| Model Variations | | – | – |
| Cabinet Color | | Black, White | White |
| Panel | Type | Color TFT LCD Panel (IPS) | Color TFT LCD Panel (IPS) |
| | Backlight | CCFL | LED |
| | Size | 119 cm / 47" (1,193 mm diagonal) | 68.6 cm / 27" (686 mm diagonal) |
| | Native Resolution | 1920 x 1080 (16:9 aspect ratio) | 1920 x 1080 (16:9 aspect ratio) |
| | Viewable Image Size (H x V) | 1039.7 x 584.8 mm | 597.8 x 336.3 mm |
| | Pixel Pitch | 0.5415 x 0.5415 mm | 0.3114 x 0.3114 mm |
| | Display Colors | 8-bit colors: 16.77 million colors | 8-bit colors: 16.77 million colors |
| | Viewing Angles (H / V, typical) | 178° / 178° | 178° / 178° |
| | Brightness (typical) | 700 cd/m² | 600 cd/m² |
| | Recommended Brightness for Calibration | – | – |
| | Contrast Ratio (typical) | 1000:1 | 1000:1 |
| | Response Time (typical) | 9 ms (Midtone) | 8 ms (Midtone) |
| Video Signals | Input Terminals | BNC (HD-SDI) x 1, BNC (Composite) x 1, DVI-I x 1, HDMI x 1, D-Sub mini 15 pin (Separate Sync, Composite Sync, SoG*,YPbPr*, RGBS*, RGB/HV*) x 1, S-Video x 1 *Require use of D-Sub mini 15 pin to (up to 5) BNC adapter cable. | DVI-D x 1 |
| | Output Terminals (Loop Through) | BNC (HD-SDI, Composite) x 2, D-Sub mini 15 pin (VGA) x 1, S-Video x 1 | – |
| | Digital Scanning Frequency (H / V) | 15 - 100 kHz / 50 - 85 Hz | V: 50 - 64 Hz (DVI single link) |
| | Analog Scanning Frequency (H / V) | 15 - 100 kHz / 50 - 85 Hz | – |
| | Sync Formats | – | – |
| USB | Function | 1 upstream, 2 downstream | – |
| | Standard | USB 2.0 | – |
| Power | Power Requirements | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | AC 100 - 240 V: 50 / 60 Hz |
| | Maximum Power Consumption | 270 W | 55 W |
| | Typical Power Consumption | – | – |
| | Power Save Mode | Less than 14 W | 5.2 W (lamp off mode), 20.6 W (lamp dimmed mode) |
| | Power Management | Digital: DVI DMPM, Analog: VESA DPM | DVI DMPM |
| Sensor | | Backlight Sensor | Backlight Sensor, Temperature Sensor |
| OSD Languages | | English, German | English |
| Physical Specifications | Net Weight | – | – |
| | Net Weight (Without Stand) | 40 kg | 10 kg |
| | Hole Spacing (VESA Standard) | 400 x 200 mm, M8, depth 10 - 12 mm | 100 x 100 mm, M4, depth 5 - 7 mm |
| Environmental Requirements | | IP54 (Front), IP20 (Rear) | IP65 (Front), IP42 (Rear) |
| Certifications & Standards (Please contact EIZO for the latest information.) | | CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, FCC-A, C-tick, RoHS, China RoHS, WEEE, CCC | CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, UL60601-1, FCC-B, RoHS, WEEE |
| FDA 510(k) Clearance | | | |
| Supplied Accessories | | AC power cord, signal cable (DVI-D - DVI-D), remote control, Utility Disk (PDF Instructions for Use) | AC power supply to medical standards, power cables (en, us, jp), signal cable (DVI-D - DVI-D), forward spacer, positioning rail, mounting screws, Utility Disk (PDF Instructions for Use) |

Dimensions (Unit: mm)

Connectors

Supplied: DVI   Optional: TDL   M12

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## Large Monitor Manager

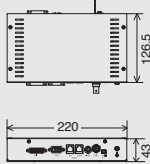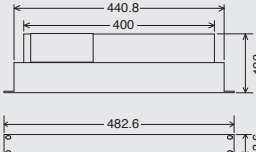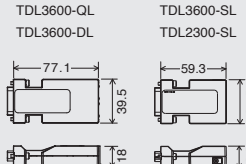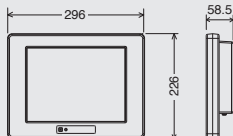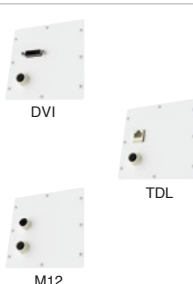| | LMM0801 | LMM0802 | LMM56800 | LMM0804 |
|---|---|---|---|---|
| | Large Monitor Manager for Control Room | Large Monitor Manager for Control Room or Interventional Room | Large Monitor Manager for Interventional Room | Large Monitor Manager for Operating Room |
| LX600W | – | ○ | ○ | – |
| LS580W | – | ○ | ○ | – |
| LX300W | ○ | ○ | – | – |
| RX850 | – | ○ | ○ | – |
| RX440 | ○ | ○ | – | – |
| MX270W | ○ | ○ | – | – |
| LX470W | ○ | ○ | – | ○ |
| EX270W | ○ | ○ | – | ○ |
| SCD 19102 | – | – | – | ○ |
| Model Variations | LMM0801-L: WQXGA output LMM0801-WQHD: WQHD output LMM0801-FHD: FHD output | – | – | – |
| Cabinet Color | Black | Black | Black | Black |
| Input Terminals | Digital: HDMI connectors (DVI signals only) x 6 Digital / Analog: DVI-I x 2 Analog: D-Sub mini 15 pin x 2, mini DIN x 2 8 simultaneous visible inputs | Digital: HDMI connectors (DVI signals only) x 6 Digital / Analog: DVI-I x 2 Analog: D-Sub mini 15 pin x 2, mini DIN x 2 8 simultaneous visible inputs (in 16 windows maximum) | Digital: HDMI connectors (DVI signals only) x 18, DVI-D x 3 Analog: D-Sub mini 15 pin x 6 27 simultaneous visible inputs | Digital: HDMI connectors (DVI signals only) x 6 Digital / Analog: DVI-I x 2 Analog: D-Sub mini 15 pin x 2, mini DIN x 2 8 simultaneous visible inputs |
| Input Performance | Digital: DVI-D (single link), 1920 x 1200 maximum, 60 Hz or 2048 x 1536, 30 Hz (165 MHz pixelclock maximum, horizontal size 2048 maximum) Analog: DVI-I, VGA, S-Video (PAL/NTSC), 1920 x 1200 maximum, 60 Hz (170 MHz pixelclock maximum, horizontal size 1920 maximum), SoG | Digital: DVI-D (single link), 1920 x 1200 maximum, 60 Hz or 2048 x 1536, 30 Hz (165 MHz pixelclock maximum, horizontal size 2048 maximum) Analog: DVI-I, VGA, 1920 x 1200 maximum, 60 Hz (170 MHz pixelclock maximum, horizontal size 1920 maximum), S-Video (PAL/NTSC), SoG | Digital: DVI-D (single link), 1920 x 1200 maximum, 60 Hz (165 MHz pixelclock maximum, horizontal size 2560 maximum) Analog: max. 1600 x 1200, 60 Hz (3 ports), 1280 x 1024 maximum, 75 Hz (3 ports) | Digital: DVI-D (single link), 1920 x 1200 maximum, 60 Hz or 2048 x 1536, 30 Hz (165 MHz pixelclock maximum, horizontal size 2048 maximum) Analog: DVI-I, VGA, 1920 x 1200 maximum, 60 Hz (170 MHz pixelclock maximum, horizontal size 1920 maximum), S-Video (PAL/NTSC), SoG |
| Output Terminals | DVI-D (dual link) x 1 | DVI-D (dual link) x 2, HDMI connector (DVI single link signal only, scaler output) x 1 | DVI-D (dual link via mini DisplayPort to DVI converter) x 1 | DVI-D (single link) x 4, for TDL connection (RJ45 connector), HDMI connector (DVI single link signal only) x 1 |
| Output Performance | LMM0801-L: 1 x 4MP (2560 x 1600) LMM0801-WQHD: 1 x 3.7MP (2560 x 1440) LMM0801-FHD: 1 x FHD (1920 x 1080) | 1 x 8MP (4096 x 2160: 2048 x 2160 x 2 channel), 1 x 8MP (3840 x 2160: 1920 x 2160 x 2 channel), 2 x 4MP (2560 x 1600), 2 x 3.7MP (2560 x 1440), 2 x FHD (1920 x 1080), 2 x 2.3MP (1920 x 1200), 2 x 2MP (1600 x 1200), | 1 x 8MP (4096 x 2160: 2048 x 2160 x 2 channel), 1 x 8MP (3840 x 2160: 1920 x 2160 x 2 channel) | 4 x 2.3MP (1920 x 1200), 4 x FHD (1920 x 1080), 4 x 2MP (1600 x 1200), 4 x 1MP (1280 x 1024), 4 x (1368 x 768) (all connected monitors have to have the same resolution) |
| Communication Connector | Ethernet (RJ45) | Ethernet (RJ45) | Ethernet (RJ45) | Ethernet (RJ45) |
| USB Ports | USB downstream (for e.g. keyboard, mouse, joystick) x 6 USB upstream (for control of video applications on PCs) x 8 | USB downstream (for e.g. keyboard, mouse, joystick) x 6 USB upstream (for control of video applications on PCs) x 8 | – | USB downstream (for e.g. keyboard, mouse, joystick) x 6 USB upstream (for control of video applications on PCs) x 8 |
| Power Requirements | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz Redundancy: 2 independent power supplies, hot swap capable | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz |
| Power Consumption | 65 W | 100 W | 500 W | 100 W |
| Degree of Protection | IP20 | IP20 | IP20 | IP20 |
| Net Weight | 5.3 kg | 5.3 kg | 21.3 kg (incl. converting modules) | 5.5 kg |
| Mechanical Adaption | 19" rack design, 2 U high | 19" rack design, 2 U high | 19" rack design, 4 U high | 19" rack design, 2 U high |
| Controls and Status | Graphical user interface and software control interface for operating, status and diagnosis, LED indicators for hardware status x 2, support of CID1000P | Graphical user interface and software control interface for operating, status and diagnosis, LED indicators for hardware status x 2, support of CID1000P | Software control interface for layout, status and diagnosis, LED Indicators for power supplies | Graphical user interface and software control interface for operating, status and diagnosis, LED indicators for hardware status x 2, support of CID1000P |
| OSD Languages | English, German, French, Japanese | English, German, French, Japanese | | English, German, French, Japanese |
| Certifications and Standards (Please contact EIZO for the latest information.) | CE, IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, EN55022-Class-B, C-tick, RoHS, China RoHS, WEEE, CCC | CE, IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, EN55022-Class-B, C-tick, RoHS, China RoHS, WEEE, CCC | CE, EN60950-1, CAN/CSA C22.2 No.60950, UL60950, EN55022-Class-B, RoHS, China RoHS, WEEE | CE, IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude<2000 m), UL60601-1, EN55022-Class-B, C-tick, RoHS, China RoHS, WEEE, CCC |
| Supplied Accessories | AC power cord (us, eu, cn, jp), adapter cables (HDMI - DVI) x 6, mounting brackets, screws x 4, Utility Disk (PDF Instructions for Use, test patterns) | AC power cord (us, eu, cn, jp), adapter cables (HDMI - DVI) x 6, mounting brackets, screws x 4, Utility Disk (PDF Instructions for Use, test patterns) | AC power cord (us, en), Converter (mini DisplayPort - DVI) x 2, Holder for mini DisplayPort converter x 1, Holder for mini DisplayPort plugs x 1, Y-cables (mounted on DVI-I inputs) x 3, Utility Disk (PDF Instructions for Use) | AC power cord (us, eu, cn), adapter cable (HDMI - DVI) x 6, mounting brackets for rack or wall mount, screws x 4, TDL Transmitter x 2, Utility Disk (PDF Instructions for Use, test patterns) |

Dimensions (Unit:mm)

# Specifications

| | PDC0100 | PDS0800-HD | TDL3600 / TDL2300 | CID1000P |
|---|---|---|---|---|
| | Analog-DVI Converter | DVI Splitter / Scaler | DVI Transmission Link | Touch Panel Console Monitor |
| Model Variations | – | – | TDL3600-QL: quad link, 36m<br>TDL3600-DL: dual link, 36m<br>TDL3600-SL: single link, 36m<br>TDL2300-SL: single link, 23m | – |
| Cabinet Color | Black | Light Gray | Silver | White |
| Panel | – | – | – | Type: TFT Color LCD Panel, Size: 10.4"<br>Brightness: 230 cd/m² (typical)<br>Contrast 500:1, Touch Screen: Resistive analog |
| Input Terminals | DVI-I (digital: DVI, analog: RGB) x 1<br>D-Sub mini 15 pin (Separate, Composite, SoG) x 1<br>BNC (Composite, PAL, NTSC) x 1<br>4 pin mini DIN (S-Video) x 1 | DVI-D (dual link) x 2 | TDL3600-QL: DVI-D (dual link) x 2<br>TDL3600-DL: DVI-D (dual link) x 1<br>TDL3600-SL / TDL2300-SL: DVI-D x 1 | RS232 x 1 |
| Input Performance | Digital: DVI-D (single link), max. 1600 x 1200, 60 Hz<br>Analog: VGA, SVGA, XGA, SXGA, UXGA, PAL, NTSC<br>Scanning Frequency: Analog 30 - 100 kHz, 50 - 100 Hz | 1 x 8MP (4096 x 2160: 2048 x 2160 x 2 channel, 60 Hz)<br>1 x 8MP (UHD, 3840 x 2160: 1920 x 2160 x 2 channel, 60 Hz) | Transmitter module at PC side (DVI-D - RJ45),<br>Ethernet cable (RJ45 - RJ45), Receiver module<br>at monitor side (RJ45 - DVI-D) | 800 x 600 |
| Output Terminals | DVI-D x 1 | DVI-D (dual link) x 4, DVI-D (single link) x 1,<br>mini DIN (YPbPr) x 1 | TDL3600-QL: DVI-D (dual link) x 2<br>TDL3600-DL: DVI-D (dual link) x 1<br>TDL3600-SL / TDL2300-SL: DVI-D x 1 | – |
| Output Performance | 1280 x 1024 (SXGA), 60 Hz | 1 x 8MP (4096 x 2160: 2048 x 2160 x 2 channel, 60 Hz)<br>1 x 8MP (3840 x 2160: 1920 x 2160 x 2 channel, 60 Hz)<br>Downscale-output (UHD input only):<br>1 x FHD (1920 x 1080, 60 Hz)<br>1 x Analog / Composite (1920 x 1080, 60 Hz) | TDL3600-QL: 3840 x 2160<br>TDL3600-DL: 2560 x 1600<br>TDL3600-SL / TDL2300-SL: 1920 x 1200 | – |
| Connector | RJ11 x 2 (Upstream, Downstream),<br>Supported Signal: RS 232-Bus | – | – | Ethernet x 2 |
| USB Ports | – | – | – | USB downstream x 2 |
| Power Requirements | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz | PC side: through DVI interface<br>Monitor side: 5 V support from monitor<br>Optional: 5 V external power supply | AC adapter: AC 100 - 120 V, 200 - 240 V: 50<br>/ 60 Hz<br>Monitor: 12 - 24 VDC |
| Power Consumption | 10 W | 20 W | – | – |
| Degree of Protection | IP20 | IP20 | – | IP65 for front, IP21 |
| Net Weight | 850 g | 1.1 kg | – | 2.2 kg |
| Mechanical Adaption | Injection nut M3 on each side (distance 31.8 mm) x 2 | 19" rack design, 1 U high | – | VESA standard 75 x 75 mm, M4, depth 4 - 7 mm |
| Certifications and Standards<br>(Please contact EIZO for the latest information.) | CE, EN60950, UL60950, CAN/CSA C22.2 No. 950,<br>EN 60601-1-2-B, FCC-A, RoHS, China RoHS,<br>WEEE | CE, EN60950, EN55022 Class B, EN55024, FCC-A,<br>RoHS, China RoHS, WEEE | CE, IEC/EN60601-1 (2nd edition), IEC/EN60601-1<br>(3rd edition), CAN/CSA C22.2 No. 601.1-M90,<br>CAN/CSA C22.2 No. 60601-1-08, UL60601-1,<br>EN60601-1-2 Class B, FCC-A, RoHS, China<br>RoHS, WEEE | CE, cULus, EN60601-1 (3rd edition), FCC-B,<br>EN55011-B, RoHS, China RoHS, WEEE |
| Supplied Accessories | AC adapter, signal cable (VGA - VGA, DVI -<br>DVI), remote key pad with 30 m cable, Utility<br>Disk (PDF Instructions for Use) | Adapter mini DIN to 3 x cinch, AC adapter | TDL3600-QL: Transmitter x 2, Receiver x 2,<br>mounting set for LX600W/LS580W, mounting<br>set for LMM56800/LMM0802, 36 m cable x 4,<br>TDL3600-DL: Transmitter, Receiver, 36 m cable<br>x 2, AC adapter,<br>TDL3600-SL: Transmitter, Receiver, 36 m cable,<br>AC adapter,<br>TDL2300-SL: Transmitter, Receiver, 23 m cable,<br>AC adapter,<br>Utility Disk (PDF Instructions for Use) | AC power cord, AC adapter, Utility Disk<br>(PDF Instructions for Use) |
| Dimensions (Unit:mm) | <br>126.5<br>220<br>43 | 440.8<br>400<br>123<br>482.6<br>43.6 | TDL3600-QL<br>TDL3600-DL<br>77.1<br>39.5<br>18<br>TDL3600-SL<br>TDL2300-SL<br>59.3<br>31.5<br>18.2 | 296<br>58.5<br>228 |

# Accessories

| | | |
|---|---|---|
| **Wall Mounts and Stands** | | **Wall Mount** / FWM6300<br>Compatible with LX600W, LS580W and LX470W. |
| | | **Stand** / FST5600<br>Compatible with LX600W and LS580W. |
| | | **Stand** / FST4700<br>Compatible with LX470W. |
| | | **Holder** / FID1000<br>Compatible with CID1000P. |
| | | **Cable & TDL Holder** / FMM0800<br>Compatible with LMM0801, LMM0802, LMM0804 |
| **Panel Protector** | | **Protection Screen** / FPP5800<br>Compatible with LS580W. |
| | | **Panel Protector** / FP-2702W*<br>Compatible with MX270W.<br>*Integrated Front Sensor is unusable with panel protector. |
| **Cleaner** | | **Monitor Cleaning Kit** / ScreenCleaner<br>Compatible with all monitors. |
| **Signal Cables and Adapters** | | **DVI-D ~ DVI-D Dual Link Signal Cable**<br>2 m, compatible with LX600W, LS580W, LX300W, RX850, RX430 and MX270W. |
| | | **DVI-D ~ DVI-D Single Link Signal Cable**<br>3 m, compatible with LX300W, LX470W, and SCD 19102. |
| | | **DVI-D ~ HDMI Signal Cable**<br>5 m, compatible with LMM56800, LMM0804, LMM0802 and LMM0801. |
| | | **DVI to HDMI Conversion Adapter**<br>Compatible with LMM56800, LMM0804, LMM0802 and LMM0801. |
| | | **BNC to VGA Conversion Adapter**<br>Compatible with LX470W, SCD 19102, and PDC0100. |
| | | **Link Set** / TDL3600-R90<br>36 m cable x 2 with TDL receiver x 2 and power supply x 2, compatible with<br>LMM0804 (two link sets are needed to connect three or four monitors) |
| | | **Link Set** / TDL2300-R90<br>23 m cable x 2 with TDL receiver x 2 and power supply x 2, compatible with<br>LMM0804 (two link sets are needed to connect three or four monitors) |
| | DVI | **Input Module** / TRM0000-DVI<br>DVI connector, compatible with EX270W |
| | TDL | **Input Module** / TRM0000-TDL<br>TDL M12 connector, compatible with EX270W |
| | M12 | **Input Module** / TRM0000-M12<br>TDL RJ45 connector, compatible with EX270W |