



extracting the essence.

EIZO – řešení pro zobrazování dat ve zdravotnictví

EIZO Europe GmbH

Ing. Miroslav Vondráček

Key account manager

12.3.2018



XIV. mezinárodní kongres informačních technologií ve zdravotnictví „Telemedicína Brno 2018“

EIZO



Celebrating the Past
Visualizing the Future

EIZO = 50 let zkušeností

1968

Black and white televisions (OEM)



CRT Monitors (Own Brand)



LCD Monitors



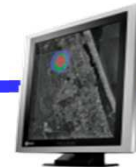
table top video arcade machines



Medical Monitor Solutions



Graphic Arts Monitor



Air Traffic Control Monitors

General-use Monitors



Entertainment Monitors

LCD-TV



Industrial Monitors



Game Software



Amusement Monitors



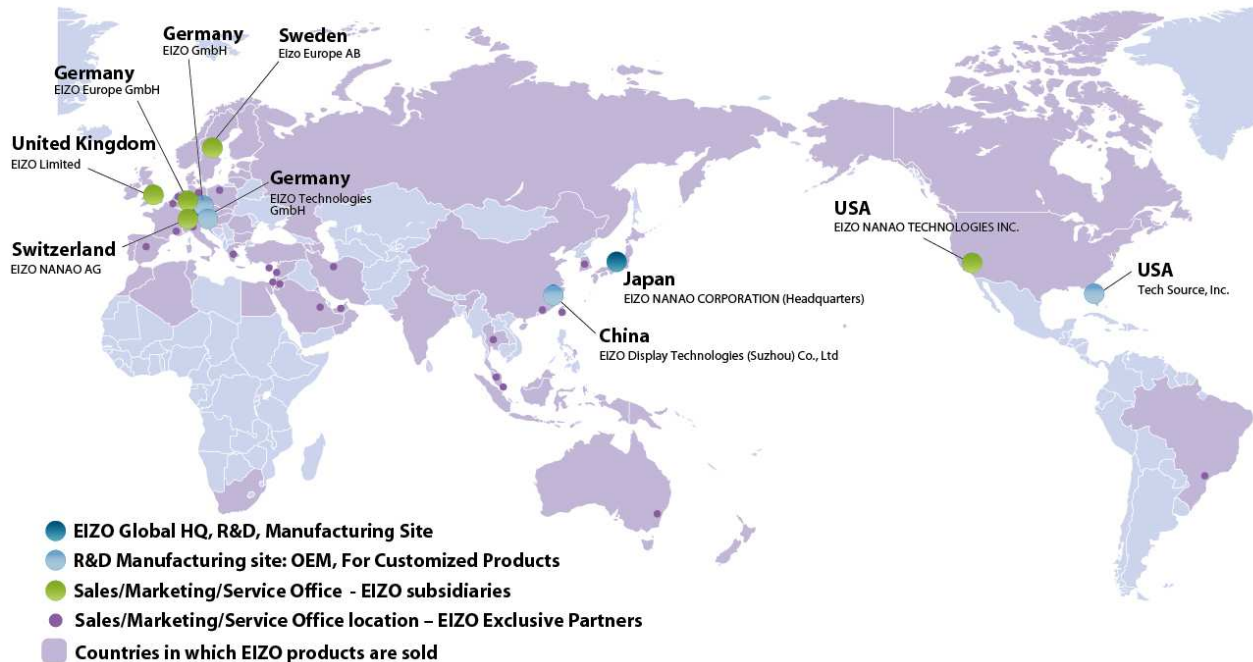
Co znamená EIZO?

映像

EIZO = Jasný obraz

**50 let zkušeností s vývojem a výrobou
profesionálních zobrazovacích zařízení**

EIZO = inovativní japonské technologie do celého světa



Monitory EIZO jsou známé svou spolehlivostí, stálostí parametrů a ostrým obrazem. Jsou navrhovány tak, aby maximálně šetřily zrak svých uživatelů i při dlouhodobé práci na počítači.

Široká škála produktů pro různá odvětví



**EIZO poskytuje
prvotřídní
produkty pro různé
obory lidské
činnosti.**

Monitory do celé nemocnice

	Reception	Waiting Room	Examination Therapy	Doctor's Office	Operation/ICU Hybrid Angiografi Fluoroscopy Ultrasound	Ward	Radiology Physiology Pathology	Laboratories	Data Center	Office Photographer
	CuratOR®	CuratOR®	CuratOR®	CuratOR®	CuratOR®	CuratOR®	CuratOR®	CuratOR®	CuratOR®	CuratOR®
	RadiForce®	RadiForce®	RadiForce®	RadiForce®	RadiForce®	RadiForce®	RadiForce®	RadiForce®	RadiForce®	RadiForce®
	FlexScan	FlexScan	FlexScan	FlexScan	FlexScan	FlexScan	FlexScan	FlexScan	FlexScan	FlexScan
	DuraVision®	DuraVision®	DuraVision®	DuraVision®	DuraVision®	DuraVision®	DuraVision®	DuraVision®	DuraVision®	DuraVision®
	FORIS	FORIS	FORIS	FORIS	FORIS	FORIS	FORIS	FORIS	FORIS	FORIS
	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®	ColorEdge®

EIZO Healthcare Solution

PACS
Diagnostic

G&R-Series

HIS
Clinical Review

MX-Series

Monitor
Quality Control

RadiCS & RadiNET Pro

Surgical
Monitors

Surgical
Accessories

Surgical
Panels

Caliop
Software

RadiForce®

CuratOR™

RadiForce G&R-Series

**PACS
Diagnostic**

HIS
Clinical Review

Monitor
Quality Control

Surgical
Monitors

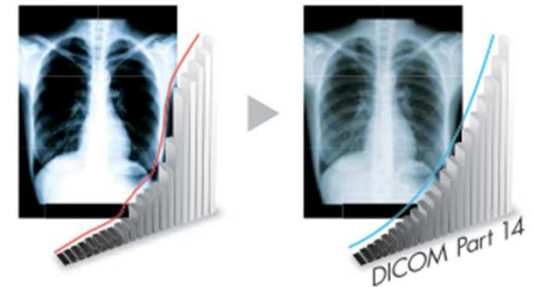
Surgical
Accessories

Surgical
Panels

Caliop
Software

G&R-Series: Diagnostic Monitors

- ✓ DICOM Part 14 Compliant
- ✓ Easy Calibration
- ✓ Comprehensive Lineup



G&R-Series Lineup

2MP

3MP

4MP

5MP

6MP

8MP

Color



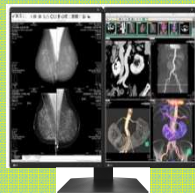
RX250/-AR



RX350/-AR



RX440



RX560 / -AR

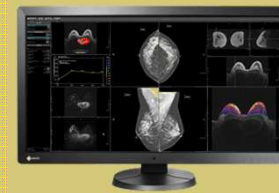


RX650 / -AR



RX660 / -AR

**Multi-Modality
Concept**



RX850 / -AR

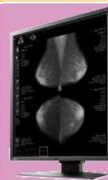
Monochrome



GX240



GX340



GX550/-AR

**Digital
Mammography**

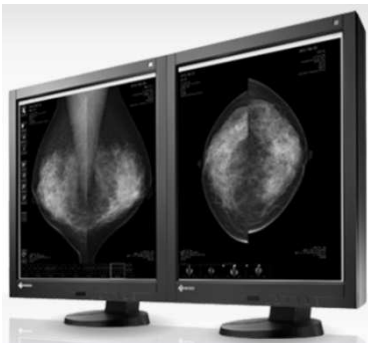
New Appealing Name



RadiForce® RX560 MammoDuo

New Design for Image Reading

GX540



RX560
MammmoDuo



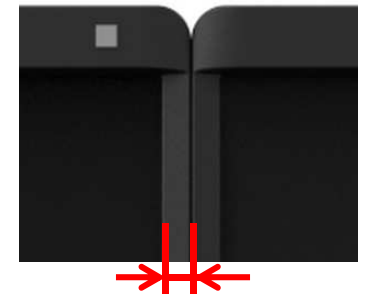
✓ Narrow bezel & Flat surface

Ultra Thin bezel



2.5 mm
(GX550 : 6.8 mm)
(GX540 : 8.8 mm)

Ultra Narrow bezel



7.5 mm
(GX550 : 14.5 mm)
(GX540 : 25.0 mm)

✓ Dual Stand model (Mammo Duo)

- LTPS (Low Temperature Poly Silicon) panel s vysokým kontrastním poměrem 1500:1
- Extrémně krátká doba odezvy 12ms
- Nízká hmotnost 17,3 Kg oba monitory včetně stojanu

RadiForce MX-Series

PACS
Diagnostic

**HIS
Clinical Review**

Monitor
Quality Control

Surgical
Monitors

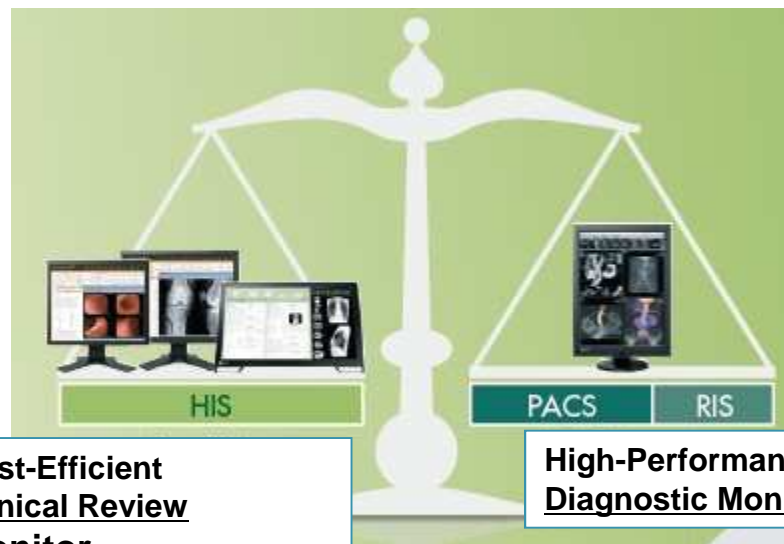
Surgical
Accessories

Surgical
Panels

Caliop
Software

MX-Series: Clinical Review Monitors

- ✓ DICOM Part 14 Compliant
- ✓ Cost-Efficient



**Cost-Efficient
Clinical Review
Monitor**

**High-Performance
Diagnostic Monitor**

MX-Series Lineup

LED LED Backlight

IFS Integrated Front Sensor

1MP	2MP	2.3MP	8MP
<p>LED</p>  <p>MX191 ✓ 19" ✓ 1280x1024</p>	<p>LED IFS</p>  <p>MX215 ✓ 21.3" ✓ 1200x1600</p>	<p>LED</p>  <p>MX242W ✓ 24.1" Wide ✓ 1920x1200</p>	<p>LED IFS</p>  <p>MX315W 31.1" Wide ✓ 4096x2160</p>
<p>Touch Panel Monitor</p>			
	<p>LED</p>  <p>MS236WT ✓ 23" Wide ✓ 1920x1080</p>		

RadiCS & RadiNET Pro

PACS
Diagnostic

HIS
Clinical Review

**Monitor
Quality Control**

Surgical
Monitors

Surgical
Accessories

Surgical
Panels

Caliop
Software

RadiCS & RadiNET Pro: Monitor QC Solutions

- ✓ RadiCS: Monitor QC Software
- ✓ RadiNET Pro: Network QC Management Software



<http://www.eizo.com/global/products/videos/qc/index.html>

New Medical Graphics Boards

Model Name	MED-XN31LP	MED-XN51LP	MED-XN71	MED-XN91
NVIDIA base model	Quadro P400	Quadro P1000	Quadro P2000	Quadro P4000
Bus Interface	PCI-Express x16			
Compatible OS	Windows 7/ 8.1/ 10			
Memory	2GB	4GB	5GB	8GB
Output Terminal	Mini DP x4	Mini DP x4	DP x4	DP x4
Enclosed Adapters	Mini DP to DVI (Passive, SL) x1 Mini DP to DP x2		DP to DVI (Passive, SL) x1	
Maximum Power Consumption	30W	47W	75W	105W
Chassis	Standard/ Low-Profile		Standard	
Dimensions (WxH)	144.9 x 68.9mm	144.9 x 68.9mm	200.7 x 111.8mm	241.3 x 111.8mm



RadiForce / CuratOR L&E-Series

PACS
Diagnostic

HIS
Clinical Review

Monitor
Quality Control

**Surgical
Monitors**

Surgical
Accessories

Surgical
Panels

Caliop
Software

L&E-Series: Surgical Monitor Solutions

- ✓ Monitors for Control Room
- ✓ Monitors for Interventional Radiology
- ✓ Surgical Monitors for OR and Endoscopy

RadiForce / CuratOR Surgical Monitors

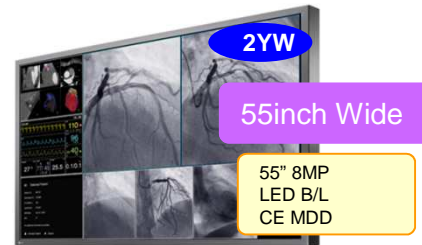
Interventional Radiology Large Screen



RadiForce
LX600W
LX600WP
Model with protective panel:
LX600WP

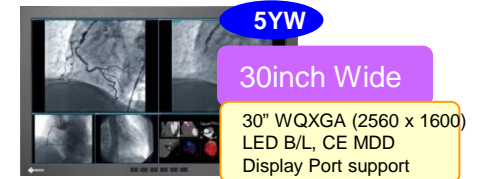


RadiForce
LS580W
Optionally available:
Frontframe with protection
screen: FPP5800



CuratOR
LX550W
Optionally available:
Frontframe with protection
screen: FPP5500

Interventional Radiology / Control Room



RadiForce
LX300W
LX300W-P
LX300W-S
Model with protective panel:
LX300W-P
Model with stand:
LX300W-S

Interventional Radiology Conventional Size



CuratOR
EX190
EX190-S
Model with stand



SCD 19102
SCD 19102 C: w/o stand
SCD 19102 D: with stand

OR Surgical



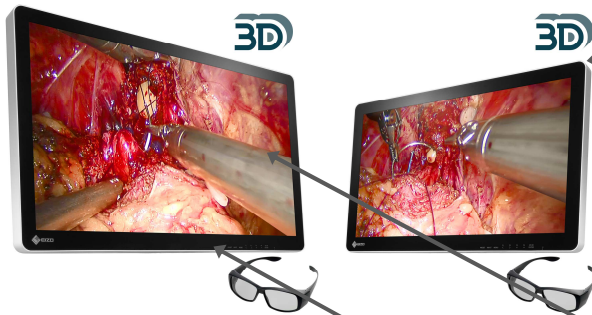
CuratOR
LX490W /
LX491W



RadiForce
EX271W

Endoskopické monitory (exPanasonic)

3D version
(Black)



CuratOR™ EX3220-3D / EX2620-3D

2D version
(White)



■ R-shaped geometry



w/ cable cover

■ Fully-flat glass protection

■ Control keypad on bottom



Safe & Clean

Surgical Accessories

PACS
Diagnostic

HIS
Clinical Review

Monitor
Quality Control

Surgical
Monitors

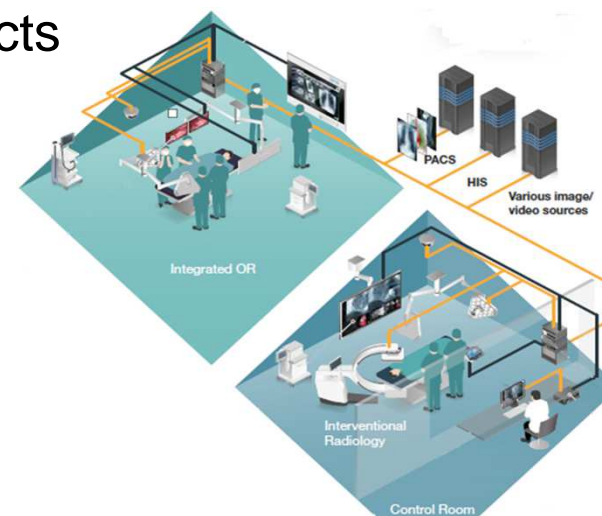
**Surgical
Accessories**

Surgical
Panels




Caliop
Software

Devices & Accessories for complete Surgical Solutions












- ✓ Large Monitor Managers
- ✓ Signal Routing Products
- ✓ Cables & Adapters
- ✓ Mounting Equipment



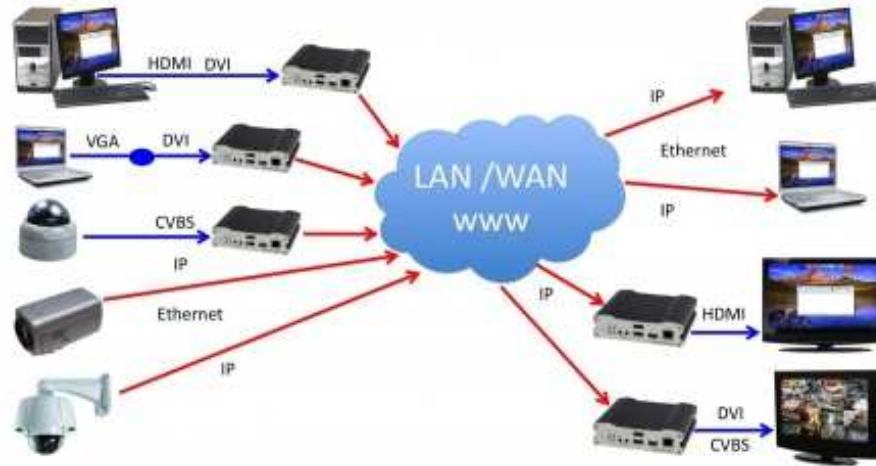
Large Monitor Manager

LMM for Interventional Radiology	LMM for Interventional Radiology and Control Room	LMM for Operating Room
<p data-bbox="285 586 450 615">LMM56800</p>  <div data-bbox="195 872 558 968" style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <p>8MP screen management 27 simultaneous visible Inputs Browser interface</p> </div>	<p data-bbox="904 586 1049 615">LMM0802</p>  <div data-bbox="817 861 1193 982" style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <p>8MP/4MP/2MP screen management 8 simultaneous visible inputs Browser interface and mouse keyboard control</p> </div>	<p data-bbox="1512 586 1657 615">LMM0804</p>  <div data-bbox="1402 872 1779 968" style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <p>OR screen management Easy arranging and combination of OR room typical signal</p> </div>

Signal routing products

Transceiver	Converter	Splitter / Scaler	Transmission Link	Console Monitor
 <p>New Q1/18</p> <p>TIP0210-DVI</p> <p>IP-Transceiver, DVI x 2, up to Full HD, SFP+ 10G LC</p>	 <p>PDC0100</p> <p>Analog-DVI Converter Force Mode adjustment Remote key pad</p>	 <p>PDS0800-HD</p> <p>Splitter for 8MP Multiple inputs HD Scaler</p>	 <p>TDL3600-SL TDL2300-SL</p> <p>DVI Transmission Link Up to 36/23 m Single Link</p>	 <p>CID1201P</p>
<p>Matrix</p>	<p>Splitter / Converter</p>	 <p>PDS0200-2HD</p> <p>DVI-Splitter with 2 outputs (up to WUXGA)</p>	 <p>TDL3600-DL</p> <p>DVI Transmission Link Up to 36 m Dual Link x 1</p>	<p>Operating monitor Touch panel Easy to clean</p>
 <p>Gefen Matrix</p> <p>Input/Output extension for LMM0802 and LMM0804 Incl. additional USB adapter</p> <p>Ordering Code: 6GF6031-0AA0</p>	 <p>TID0102</p> <p>Splitter/Converter for LMM0804 or stand alone</p>	 <p>PDS0200-4HD</p> <p>DVI-Splitter with 4 outputs (up to WUXGA)</p>	 <p>TDL3600-QL</p> <p>DVI Transmission Link Up to 36 m Dual Link x 2</p>	<p>Predecessor CID1000P End of Life as of October 16!</p>

EIZO IP-Solution for Video over IP Infrastructure



Typical Video-over-IP architecture

EIZO CuratOR Alipe IP-Transceiver DVI Version

TIP0210F-DVI version specific features

- Video interface DVI-D: 1x SL DVI in/out and 1x SL DVI out/LoopThrough
- Network interface SFP+ 10GbE
- Input/output resolution up to FHD 1920x1200 @60 Hz
- Update capability via USB
- Power consumption 17W + (optional: 5W for USB); external PSU, 230 AC
- Passive cooling (no cooling fan)
- Dimensions 164 x 166 x 40mm (height of cooling fins: 6mm)
- Weight 1050g




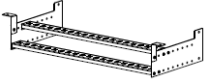
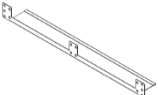


Target Release:
January 2018

First delivery
March/April
2018








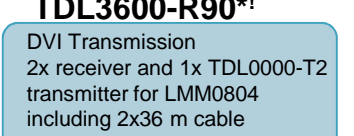










Housing with EIZO brand

Mounting

Wall mount	Stand	Holder	Panel protector
 <p>FWM6300 Compatible with LX600W, LS580W and LX490W</p>	 <p>FST5600 Compatible with LX600W, LS580W, LX550W</p>  <p>FST4700 Compatible with LX490W</p>	 <p>FMM0800 Cable & TDL holder, compatible with LMM0801, LMM0802, LMM0804</p>  <p>Holder for 2x TID0102 Holder for up to two TID0102 devices for 19-inch racks</p>	 <p>FPP5800 Optional front frame with protection screen for LS580W Ordering code: 6GF6200-8AA01-0AA0 (Also compatible with LS560W)</p>  <p>FPP5500 Optional front frame with protection screen for LX550W</p>

Connecting

Cables	Adapters	Link Sets	EX271W Input Modules and Accessories
 <p>DVI-D to DVI-D dual link signal cable, 2 m</p>  <p>DVI-D to DVI D single link signal cable, 3 m</p>  <p>DVI-D to HDMI signal cable, 5 m</p>	 <p>DVI to HDMI conversion adapter</p>  <p>BNC to VGA conversion adapter</p>  <p>RJ45/RJ45 TDL adapter</p>	 <p>TDL3600-R90*! DVI Transmission 2x receiver and 1x TDL0000-T2 transmitter for LMM0804 including 2x36 m cable 2x power supply</p>  <p>TDL2300-R90* DVI Transmission 2x receiver and 1x TDL0000-T2 transmitter for LMM0804 including 2x36 m cable 2x power supply</p> <p>*Two link sets are needed to connect 4 monitors to LMM0804 ! 36m exceeds the recommended maximum length for TRM modules.</p>  <p>TDL0000-T DVI Transmission for use with TDL cables and TRM modules</p>	<p>TRM0000-DVI* DVI-I single link connector, preinstalled in EX271W-DVI</p> <p>TRM0000-TDL* RJ45 DVI-SL connector preinstalled in EX271W-TDL</p> <p>TRM0000-M12*! M12 TDL DVI-SL connector Compatible with EX27xW <small>* TDL use up to 30m ! Requires a TDL cable with M12 connector</small></p> <p>TRM0000-3GS 3G-SDI BNC input/output, preinstalled in EX271W-3GS</p> <p>TRM0000-HDL RJ45 HDL DVI-SL connector preinstalled in EX271W-HDL</p> <p>15m power extension M12 TDL cable (5m) and RJ45 adapter!</p>       

Surgical Panels

- PACS Diagnostic
- HIS Clinical Review
- Monitor Quality Control
- Surgical Monitors
- Surgical Accessories
- Surgical Panels**
- Caliop Software

Wall Consoles for Operating Rooms

- ✓ Standard Models
- ✓ Individually configurable



Caliop Software

PACS
Diagnostic

HIS
Clinical Review

Monitor
Quality Control

Surgical
Monitors

Surgical
Accessories

Surgical
Panels

**Caliop
Software**

EIZO's OR Software

- ✓ Independent Software Elements
- ✓ Control of Image and Video Management
- ✓ Optional Integration of Patient Data



Děkuji za pozornost.

