2MP | Medical-Display
RadiForce® RX250

Digitally signed by Morozov Maria
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RX250

Your advantages

5 YEARS WARRANTY

RX250 provides high image quality, advantageous for the fields of traditional radiology and tomography, as well as for carrying out 3D image segmentation and for combining images made using different imaging methods. The 2- megapixel resolution means radiological images are displayed in crystal-clear quality. In terms of image sharpness, the RX250 stands out with a new blur-reducing function. This ensures that detailed contours, which are hampered by antireflection technology and image brightness, are readily visible on the screen. As a result, the reproduced image is as clear as possible. Narrow black frontal bezels make this device ideal for use in dark environments. They make it easy to visually concentrate on the display. Meanwhile, a white bezel at the side of the monitor creates a fresh, clean look. The device's design and technology offer ergonomic comfort as well as one-of-a-kind image precision for use in modern radiology.

- 2 megapixel colour display with consistently higher and more stable brightness
- Clearly defined images thanks to blur reduction
- Automatic luminance distribution control (Digital Uniformity Equalizer)
- Set up for calibration, acceptance, and consistency testing in accordance with DIN 6868-157 and QSRL
- Effortless quality control and built-in calibration sensor
- Lower power consumption and heat output
- Light sensor to measure ambient light at the diagnostic station
- Presence sensor means monitor is ready for immediate use whenever the user is in front of it
- Ergonomic design with fresh, clean look
- Compact dimensions and narrow bezels

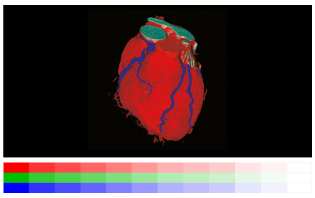
Features

Excellent image quality for the finest details

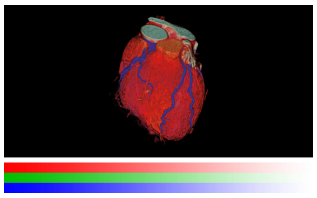
Thanks to the high 2 Megapixels (colour) resolution, a strong contrast ratio of 1400:1 and stable brightness of up to 800 cd /m^2, the monitor offers excellent image quality. Even the differences between the finest details are shown – regardless of your viewing angle. This is a great advantage if multiple physicians are looking at the screen.

One billion colour tones thanks to 13 bit LUT

Colour rendering is controlled by a 13 bit look-up table (LUT), up to 10 bits of which are available in the DisplayPort connection. This produces a resolution with a maximum of 1 billion colour tones. The rendering characteristic and fine structures required for diagnostics can therefore be precisely identified.



Without 13 bit LUT



With 13 bit LUT

Consistently secure image quality

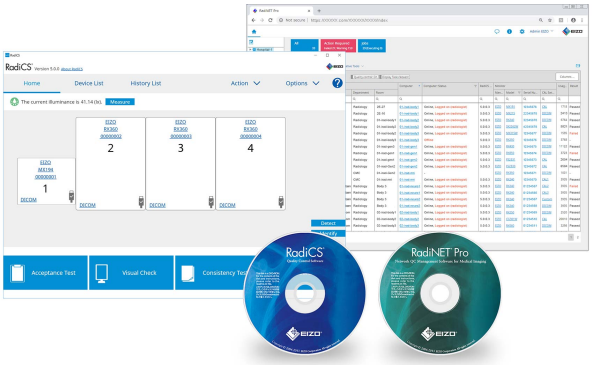
The optional EIZO RadiCS software to secure image quality enables extensive maintenance and testing of monitors and includes calibration, acceptance and constancy testing, and the archiving of all areas. If you are working on multiple stations, the use of the RadiNET Pro is recommended. This can be used to centrally control the calibration of all monitors, including data history. This saves you a significant amount of time and ensures consistently high image quality across the entire setup. The basic version RadiCS LE is already included with the RadiForce GX, RX, and MX/MS models.

Learn more about the RadiCS application classes

Learn more about RadiCS LE software (included in the delivery)

Learn more about RadiCS software (optionally available)

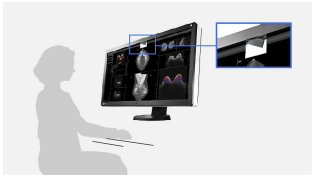
Learn more about RadiNet Pro software (optionally available)



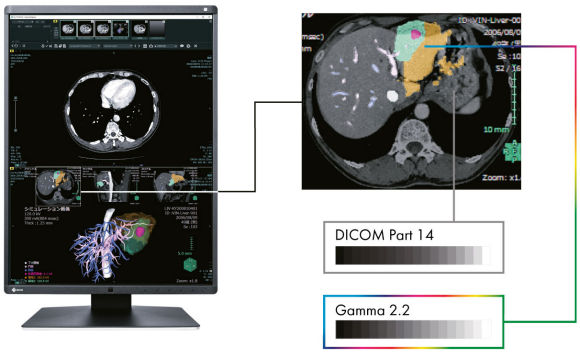
Balanced image quality thanks to an integrated front sensor

The precise calibration of white point and tone value characteristic curve is provided by an integrated front sensor (IFS). This measures the brightness and grayscales and calibrates the monitor autonomously according to the DICOM standard. The sensor works automatically, without restricting the field of vision of the monitor. You can save the costs, time, and effort of maintenance and rely on a consistently balanced image quality.

Without IFS



With IFS



The hybrid gamma PXL functionality automatically differentiates between monochrome and colour images, pixel by pixel.

Features

Point-and-Focus: all eyes on the analysis

The Point-and-Focus function allows you to select and focus on relevant image areas quickly using your mouse or keyboard. By adjusting the brightness and greyscale, the interesting parts of an image are highlighted by dimming the surrounding areas.

Secure image quality thanks to AAPM/Euref/DIN compliance

The display properties, in particular brightness and contrast, are suited to the creation of image rendering systems compliant with DIN 6868-157. The DICOM® GSDF characteristic is already precisely configured in the factory. This means that greyscales are consistent, which is vital for diagnostics.

Overview RadiCS application classes I to VIII

FDA clearance

The monitor holds the FDA-510(k)- clearance for general radiography, but it does not support display of mammography images for diagnosis.

Uniform brightness and high colour purity

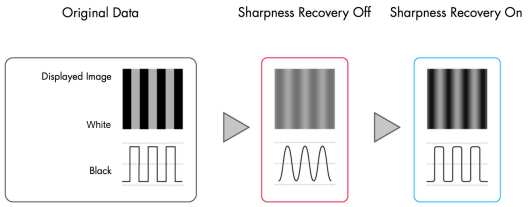
The monitor shines thanks to its high colour purity and uniform illumination. This is down to the Digital Uniformity Equalizer (DUE), which corrects imbalances automatically, pixel by pixel. Grey and colour tones of radiological and other medical images are correctly rendered over the entire display. This is vital for diagnostics.

Without DUE

With DUE

Blur reduction

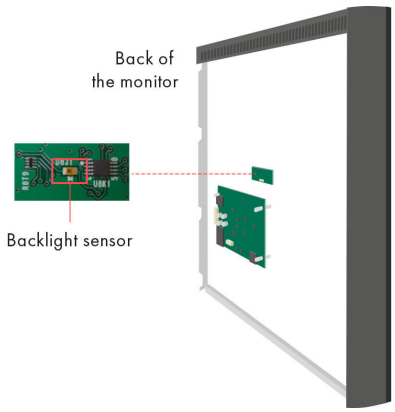
LCD panels with a high brightness level tend to have more blurry image rendering thanks to over-framing than would be possible in comparison with an acquired exposure. Therefore, EIZO offers blur reduction anchored in monitor hardware. It retrieves details lost in the contours on the screen, meaning that the image is rendered as clearly as possible.



Features

Constant brightness during operation

A sensor for the backlight permanently determines the luminance of the monitor. The benefit: The defined and calibrated values are rendered exactly just seconds after the monitor is turned on and remain constant during the entire period of use. The sensor is invisibly integrated in the monitor.



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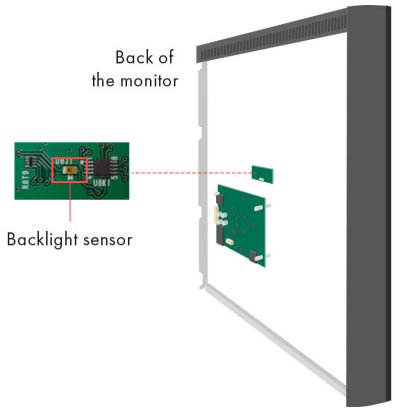
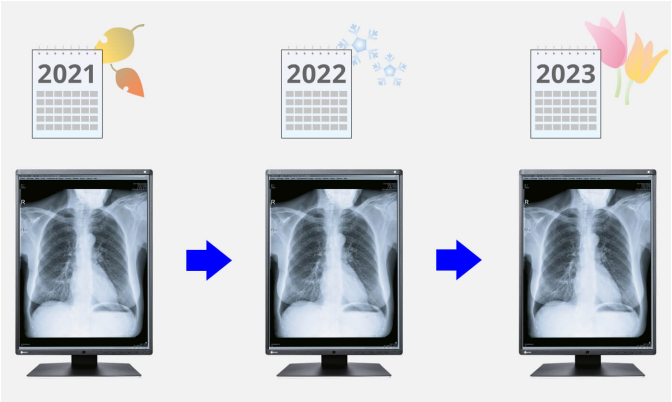


Reliable brightness

EIZO is convinced of the quality of its products. The warranty for the monitors, therefore, also covers the brightness stability.



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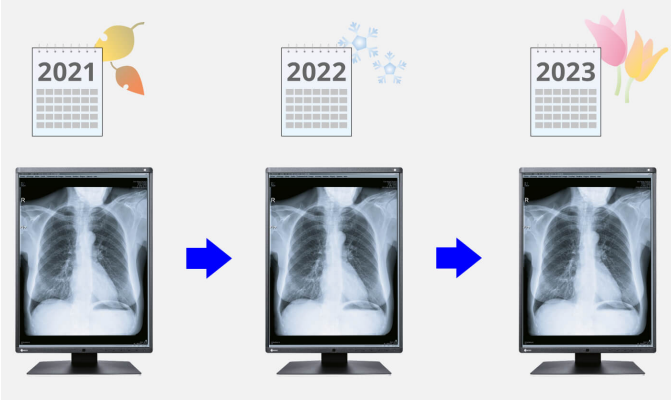
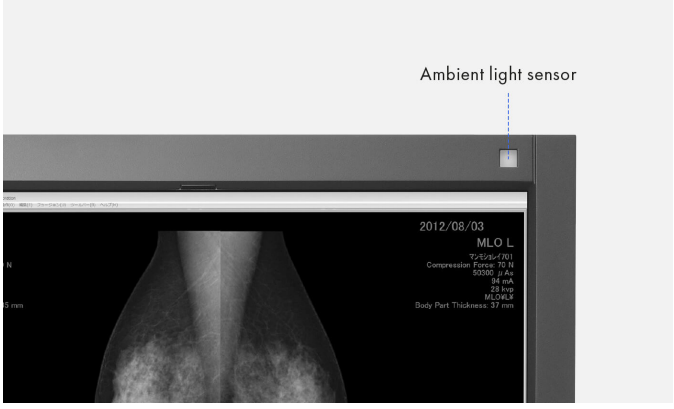


Ambient light sensor supports the constancy test

The sensor integrated in the monitor is used to measure the ambient light and can be used for constancy tests. The prevalent illumination can be determined by the ambient light sensor with the optional RadiCS software.



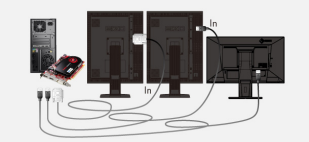
Features

Ideal design for the diagnostic environment

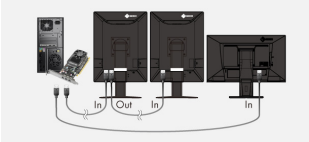
The thin, black front housing frames are ideal for use in dark environments. They make it easier to concentrate on the display, while the white side frame of the monitor presents a fresh, clean aesthetic.

Multi-monitor solutions without problems

Thanks to the signal input and output, you can link several RadiForce monitors through their DisplayPort interface. This means that you can realise multi-monitor solutions with the greatest of ease – without labourious and excessive cabling.



Conventional solution: messy cabling



Daisy-chain compatibility via DisplayPort interface: tidied-up cables

Modern LED backlight

The monitor has a modern LED backlight. This has several advantages over a conventional CCFL tube: the brightness remains uniformly high, electricity consumption is low, and the service life is significantly longer. The LED backlight is also free from mercury, making it environmentally friendly when disposed of.

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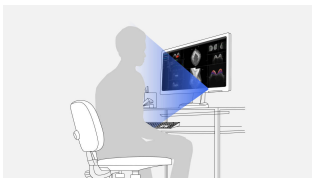
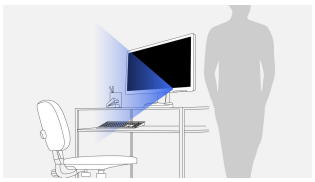
Presence sensor: Save electricity when you are not in front of the monitor

Thanks to the presence sensor, you can save electricity and help protect the environment. The sensor registers whether someone is sitting in front of the screen or not. As soon as the person leaves the workstation, the monitor turns off automatically. When the person comes back, it turns back on – fully automatically, without touching the mouse or keyboard. It is always ready for use without a waiting period.





Extended durations of use thanks to automatic shut down

The monitor has an automatic shut down option for the backlight (backlight saver). This extends the duration of use. Similar to a screen saver, the LEDs turn off when the screen is not being used.

The backlight saver is part of the RadiCS software.

One monitor, many ports

It doesn't get easier than this: You can connect most of your devices, such as PC, laptop or cameras directly to the monitor because the monitor hasa number of different ports. That makes your daily work easier.

Features

FlexStand: ergonomic base

The base allows the monitor to be tilted and turned, as well as operated in landscape or portrait form. The seamless height adjustment starts from the very bottom on the desk. This guarantees optimal ergonomics, regardless of whether you are standing or sitting in front of the screen. Despite its maximum movement possibilities, the FlexStand base always remains completely stable.

Eye-friendly Comfort Light

EIZO offers a brand-new, easy-to-operate comfort light for radiologists who work in dark diagnosis rooms. The soft illuminance in the background of the screen reduces the strain on the eyes that frequently occurs due to constant light-dark changes between bright screens and objects in a dark environment.

learn more about RadiLight

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learn more about RadiLight

Five-year warranty

EIZO grants a five-year warranty.* This is possible thanks to the highly developed production process based on a simple principle of success: sophisticated and innovative monitor technology, made from high-end materials.

* in Belgium: including on-site replacement service

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Specification

General

Item no.	RX250
Case color	Black
Areas of application	Medicine
Product line	RadiForce

Display

Screen size [in inches]	21,3
Screen size [in cm]	54
Format	3:4
Viewable image size (width x height)	324 x 432
Resolution in MP	2 Megapixels (colour)
Ideal and recommended resolution	1200 x 1600
Pixel pitch [mm]	0,27 x 0,27
Panel technology	IPS
Max. viewing angle horizontal	178 °
Max. viewing angle vertical	178 °
Number of colours or greyscale	1.07 billion colours (display port, 10 Bit), 16.7 million colours (display port, 8 Bit), 16.7 million colours (DVI, 8 Bit)
Colour palette/look-up table	543 billion colour tones / 13 Bit
Max. brightness (typical) [in cd/m²]	800
Recommended brightness warranty	400
Factory-calibrated brightness [in cd/m²]	400
Max. dark room contrast (typical)	1400:1
Typical response time [black/white/black alternation]	20 ms
Backlight	LED

Features & control

Hardware calibration of brightness, white point and Gamma/EOTF	✓
Preset colour/greyscale modes	DICOM, CAL1, CAL2, Text
DICOM tone curve	✓
RadiCS application classes	II, III, IV, V, VI, VII, VIII
Hardware calibration of brightness and light density characteristic curve	✓
Digital Uniformity Equalizer	✓
Blur reduction	✓
Sensors	Ambient Light Sensor, Presence sensor, Integrated Front Sensor
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Brightness, Gamma, Colour saturation, Resolution, DICOM tonal value, Blur reduction, OSD language, Interpolation, Off Timer
Button Guide	✓
Integrated power unit	✓

Ports

Signal inputs	1x DisplayPort, 1x DVI-D
Signal outputs/Daisy chain compatibility	1x DisplayPort 1.2
USB specification	USB 2.0
USB upstream ports	1 x type B
USB downstream ports	2 x type A
Video signal	DisplayPort, DVI (TMDS)

Electric data

Power consumption (typical) [in watt]	38
Maximum Power Consumption [in watt]	79
Power Save Mode [in watt]	1
Power consumption off [in watt]	0
Power supply	AC 100-120 V / 200-240 V, 50/60 Hz

Dimensions & weights

Dimensions [mm]	361 x 482-572 x 200
Weight [in kilograms]	8,2
Weight without stand [in kilograms]	5,4
Swivel	70 °
Incline forward/backward	5 ° / 30 °
Pivot	✓ Ja
Height adjustment range [mm]	90
Hole spacing	VESA standard 100 x 100 mm

Certification & standards

Certification	CE (Medical Device), EN 60601-1, ANSI/AAMI ES60601-1, CSA C22.2 Nr. 601-1, IEC60601-1, VCCI-B, FCC-B, CAN ICES-3 (B), RCM, RoHS, China RoHS, WEEE, CCC, EAC

Software & accessories

Accompanying software and other accessories are available for download	RadiCS LE, ScreenManager PRO Medical
Additional supply	Power cord, Signal cable DisplayPort - DisplayPort, Signal cable DVI-D - DVI-D, USB 2.0 cable, EIZO LCD Utility Disk (incl. PDF manual)
Accessories	RadiCS (The RadiCS software provides extensive validations and automatic adjustment to ensure constant and consistent image reproduction on all RadiForce screens.), RadiNET Pro (EIZO software for network-based quality management in large facilities – with remote functionality for monitors), RadiLight (Comfort Light for Reading Rooms - Easily attachable light for RadiForce medical LCD monitors.)
Recommended graphics card	RadiCS, MED-XN51LP

Warranty

Warranty and service	5 years warranty*

Terms

*) The length of the warranty for the product is five years from the date of purchase. In addition, the warranty includes the normal wear and tear of the backlight if it is operated at a recommended brightness of 400 cd/sq m and a white point of 7,500 K. EIZO guarantees this brightness for a term of 5 years from the date of purchase or for 20,000 operating hours, depending on which happens sooner. When operated at a maximum brightness of 300 cd/sq m, the number of operating hours increases to 30,000.

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