



[→ Product Website](#)

## 2-megapixel medical monitor

The RX270 meets the highest demands for radiological image reproduction on 2-megapixel screens. It reliably displays monochrome images using DICOM®-GSDF luminance characteristics. Such images typically require a high level of brightness and contrast to clearly see fine details. The RX270 offers a high maximum brightness of 1000 cd/m<sup>2</sup> and has a contrast ratio of 1800:1. It therefore outperforms even typical monochrome monitors with the same resolution and enables the precise display of even very deep grey tones. It also reproduces colour images with optimal luminance thanks to its Hybrid Gamma PXL function. Using the recommended brightness of 500 cd/m<sup>2</sup> for daily operation ensures a long life of the monitor. At the same time, the built-in calibration sensor maintains the display characteristics and keeps them consistent. This makes the monitor ideal for displaying colour images from endoscopy, ultrasound and nuclear medicine, as well as monochrome images from CT, MRI and Xray.

- ✔ Comfortable 2-megapixel colour screen for radiological diagnostics
- ✔ Clear recognition of structures through high contrast and blur reduction
- ✔ Palette with 543 billion shades for precise colour reproduction with up to 10 bit
- ✔ Hybrid Gamma PXL function for pixel-precise display of greyscale and colour images with the required luminance characteristic curve
- ✔ Homogeneous display surface due to automatic control of luminance distribution (DUE)
- ✔ Effortless quality assurance and built-in calibration sensor
- ✔ Light sensor for measuring the ambient light at the diagnostic station
- ✔ Ergonomic design with fresh, clean aesthetics
- ✔ Compact dimensions and narrow housing frame
- ✔ 5-year warranty for highest investment security

## Image quality

### Precise, high-contrast, bright and crisp screen

#### Excellent image quality for the finest details

Thanks to the high 2 Megapixels (colour) resolution, a strong contrast ratio of 1800:1 and stable brightness of up to 1000 cd/m<sup>2</sup>, 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.

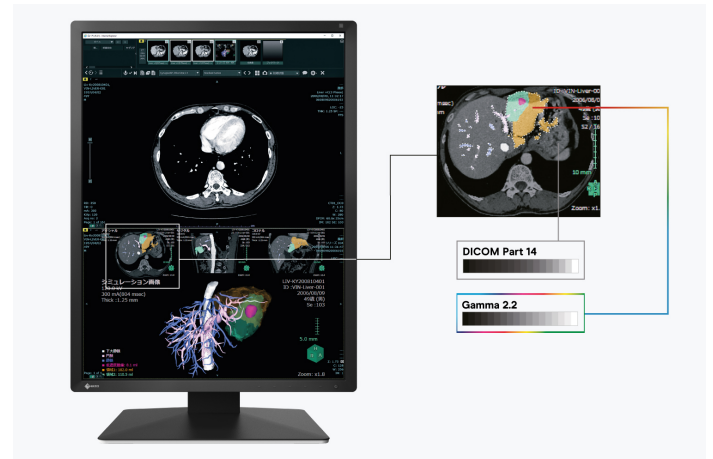


#### Observe monochrome and color images on a single monitor

The hybrid gamma PXL functionality automatically differentiates between monochrome and colour images, pixel by pixel. This creates a hybrid display on which each

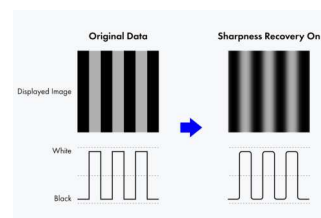
pixel is displayed with the ideal tone value. In this way, a high level of precision and reliability is achieved.

The RX270 displays sophisticated monochrome images just as reliably as color images from various modalities. In practice, this means a significant increase in efficiency, as images from different imaging procedures can be displayed on just one monitor.

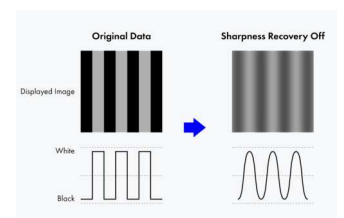


#### Blur reduction

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.



Sharpness recovery on



Sharpness recovery off

## Consistent image quality thanks to integrated luminance sensor

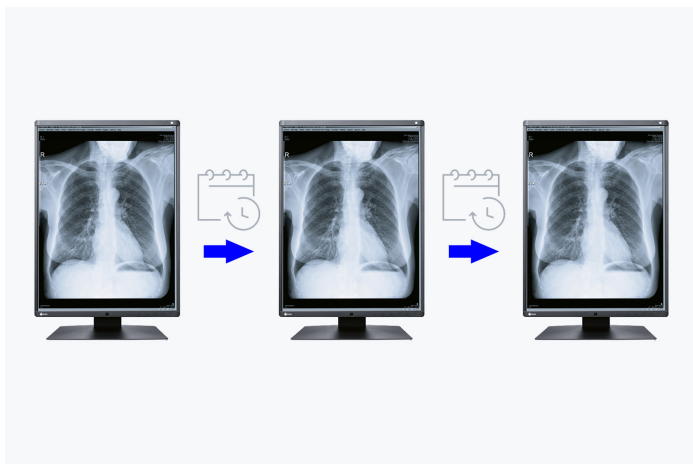
The precise calibration of white point and tone value characteristic curve is provided by an integrated luminance sensor. This measures the brightness and grayscales and calibrates the monitor autonomously according to the DICOM® standard. The sensor works automatically, without restricting the field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



Illustration exemplary

## Reliable brightness

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



## Uniform brightness and high color purity

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



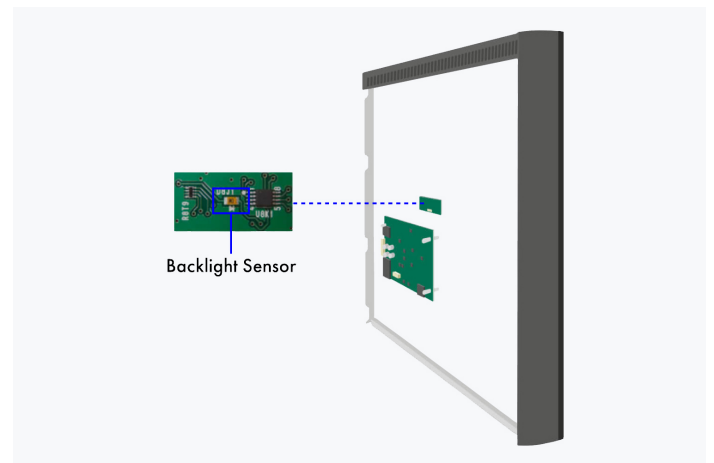
With DUE



Without DUE

## Constant brightness during operation

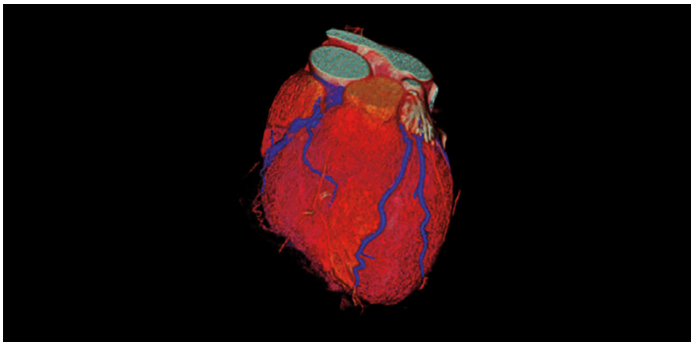
A sensor for the backlight permanently determines the luminance of the monitor. The benefit: The defined and calibrated values are rendered exactly just seconds after the monitor is turned on and remain constant during the entire period of use. The sensor is invisibly integrated in the monitor.



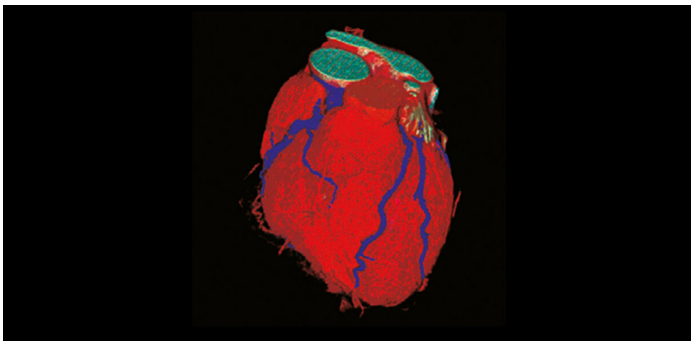
Back of the monitor

## One billion color tones thanks to 13 bit LUT

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



With 13 bit LUT



Without 13 bit LUT

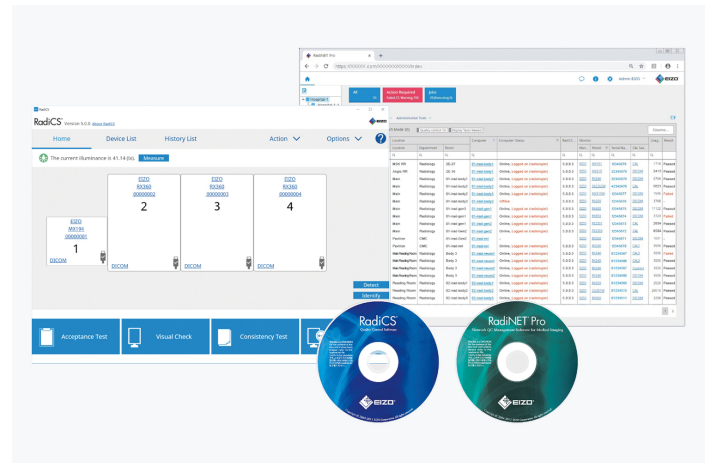
## Software and ease of use Features for greater comfort

### 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 - without acceptance and constancy testing - is already included with the RadiForce monitors.

- [Learn more about RadiCS LE software \(included in the delivery\)](#)
- [Learn more about RadiCS software \(optionally available\)](#)
- [Learn more about RadiNet Pro software \(optionally available\)](#)



## The Work-and-Flow technology

With the increasing digitisation of modalities, radiologists are confronted with a growing amount of information on their screens. EIZO's unique work-and-flow technology, with new features designed to meet the needs of radiologists, effectively counters the complexity of data. The RadiForce RX270 and RadiCS-LE software solution enable you to benefit from the Work-and-Flow functions.

[More information about the Work-and-Flow functions](#)

## 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.

## Hide-and-Seek: fast retrieval of information

Hide-and-Seek adds the benefit of making it possible to access reports, patient files and other information on the display quickly and efficiently without needing an additional monitor. When you move your cursor towards or away from the edge of the screen, a PinP window hides and displays information.

## Instant-Backlight-Booster: Higher brightness for better differentiability

The Instant Backlight Booster feature temporarily increases the brightness of the monitor for faster recognition of detailed medical images. With a single hotkey, users can activate the function for multiple monitors simultaneously, allowing them to easily view multiple screens under the same high brightness conditions. The brightness automatically returns to the original setting after a short time so the screen can continue to be used under typical diagnostic conditions.

DICOM® Part 14 is not supported while Instant Backlight Booster is on.

## Improved comfort Efficiency in diagnostics

### Perfectly designed for diagnostic use

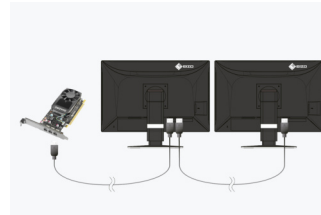
Narrow black frontal bezels make this device ideal for use in dark environments. They make it easy to visually concentrate on the display. Meanwhile, a white bezel at the sides of the monitors creates a fresh, clean look.



### DAISY CHAIN METHOD

## Efficient multi-display solution

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.



Daisy chain method



Conventional solution

## RadiLight: 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.





## **Sustainability**

# **Environmentally and socially conscious production**

### **Sustainable and durable**

The RX270 is designed to have a long service life and normally outlasts the warranty period by some distance. Replacement parts are available many years after production has ceased. The entire lifecycle takes into account the impact on the environment as the longevity of the product and the fact it can be repaired saves resources and protects the environment. When designing the RX270, we took a minimalistic approach to our resources by using high-quality components and materials, as well as a careful production process.

### **Cushioning environmental impact**

For the packaging of the RX270, EIZO uses a padding made of moulded pulp cellulose. The material is made from recycled cardboard and paper and has a much lower environmental impact when disposed of than traditional polystyrene or plastic. All cables are stored in a cardboard compartment instead of being individually packed in plastic bags.



### **Socially responsible production**

The RX270 is produced in a socially responsible way. It is free of child labour and forced labour. Suppliers along the supply chain have been carefully selected and they have also committed themselves to produce in a socially responsible way. This applies in particular to conflict minerals. We present a detailed report about our social responsibility annually and voluntarily.

### **Environmentally and climate friendly**

Each RX270 is manufactured in our own factory, which implements an environmental and energy management system in accordance with ISO 14001 und ISO 50001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behavior among employees. We publicly report on these measures on an annual basis.



Left: conventional packaging / Right: environmentally friendly materials

## Warranty

### Highest investment security

#### 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 technology, made from high-end materials.



## Graphics board recommendation

### For precise diagnostics

#### EIZO Graphics card MED-XN43

The EIZO graphics card supports the properties, functions, and settings of the RadiForce RX270 optimally. It enables precise diagnosis and can control several monitors simultaneously. EIZO offers technical support and warranty service for the graphics card.

[To the graphics card overview](#)

## Technical Data

GENERAL		FEATURES & OPERATION	
Item no.	RX270	Preset color/greyscale modes	2x manual memory locations, Text, sRGB, DICOM, additional memory spaces through calibration
Case color	Bicolor, black and white	DICOM tone curve	✓
Areas of application	Healthcare	Hardware calibration of brightness and light density characteristic curve	✓
Product line	RadiForce	Digital Uniformity Equalizer (homogeneity correction)	✓
Areas of application	Projection radiography, Computed tomography/MR imagine, Orthopedics, Nuclear medicine and radiotherapy, Non-destructive-testing	Hybrid Gamma PXL	✓
EAN	4995047063766	Blur reduction	✓
SCREEN		Sensors	Ambient Light Sensor, Integrated luminance sensor, Backlight Sensor
Screen size [in inches]	21,3	On-screen menu languages	de, en, fr, es, it, se
Screen size [in cm]	54	Adjustment options	Pathology tonal value, Brightness, Gamma, Color saturation, Resolution, Scaling, OSD language, Blur reduction
Format	3:4	Button Guide	✓
Viewable image size (width x height) [in mm]	324 x 432	Integrated power unit	✓
Resolution in MP	2 Megapixels (colour)	ELECTRICAL DATA	
Ideal and recommended resolution	1200 x 1600	Frequency	Digital: 31-100 kHz/59-61 Hz; Bildsynchroner Modus: 59-61 Hz
Pixel pitch [in mm]	0,27 x 0,27	Power consumption (typical) [in watts]	33
Panel technology	IPS	Maximum Power Consumption [in watts]	98 (at maximum brightness with all signal inputs and USB ports in use)
Max. viewing angle horizontal	178	Max. Power consumption in stand-by mode [in watts]	1
Max. viewing angle vertical	178	Power consumption with power switch off [in watts]	0
Number of colors or greyscale	1.07 billion colors (DisplayPort, 10 Bit), 16.7 million colors (DVI, 8 Bit), 16.7 million colors (DisplayPort, 8 Bit)	Power supply	AC 100-240V, 50/60Hz
Color palette/look-up table	543 billion colour tones / 13 bit	DIMENSIONS & WEIGHT	
Max. brightness (typical) [in cd/m <sup>2</sup> ]	1000	Dimensions (incl. stand) (width x height x depth) [in mm]	356,5 x 482-572 x 200
Recommended brightness [in cd/m <sup>2</sup> ]	500	Weight (incl. stand) [in kg]	7.7
Max. dark room contrast (typical)	1800:1	Weight (without stand) [in kg]	4.9
Response time black/white/black change (typical)	20	Dimension drawing (PDF)	<a href="#">Dimension drawing (PDF)</a>
Backlight	LED	Rotatability of the stand [in °]	70
CONNECTIONS		Tiltability forwards/backwards [in °]	5 / 30
Signal inputs	2x DisplayPort (HDCP 1.3), DVI-D (HDCP 1.4)	Pivot between portrait / landscape	anti-clockwise
USB specification	USB 2	Height adjustment range [in mm]	90
USB upstream ports	2 x type B	Hole spacing	100 x 100
USB downstream ports	1 x type C (DisplayPort Alt Mode, 15 W max.), 2x type A		
Graphic signal	DVI Single Link (TMDS), DisplayPort		
CERTIFICATION & STANDARDS			
Certification	CE (Medical Device), ANSI/AAMI ES60601-1, CSA C22.2 Nr. 601-1, IEC60601-1, UKCA, CB, RCM, FCC-B, CAN ICES-3 (B), VCCI-B, RoHS, WEEE, China RoHS, CCC		



## SOFTWARE & ACCESSORIES

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<b>Accompanying software and other accessories are available for download</b>	RadiCS LE
<b>Other box contents</b>	2x Signal cable DisplayPort - DisplayPort, 2x USB cable (Type A - Type B), Power cord
<b>Accessories</b>	RadiCS (UX2-Kit) (The EIZO software is capable of complete quality management – from calibration through asset management to acceptance and constancy testing.), RadiLight (Comfort Light for Reading Rooms), MED-XN43 (MED-XN43, optimal speed for 2D radiology), RadiNET Pro (EIZO software for network-based quality management in large facilities – with remote functionality for monitors)
<b>Recommended graphics card</b>	MED-XN43

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## WARRANTY

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<b>Warranty periode</b>	5 years
<b>Included warranty</b>	The warranty additionally covers normal wear and tear of the backlight when operated at a recommended maximum brightness of 500 cd/sqm and a white point of 7,500 K. EIZO guarantees this brightness for a period of 5 years from the date of purchase or for 20,000 hours of operation, whichever comes first. With a maximum brightness of 400 cd/sqm, the number of operating hours increases to 30,000.

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