



[→ 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/m² 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/m² 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

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/m², 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.

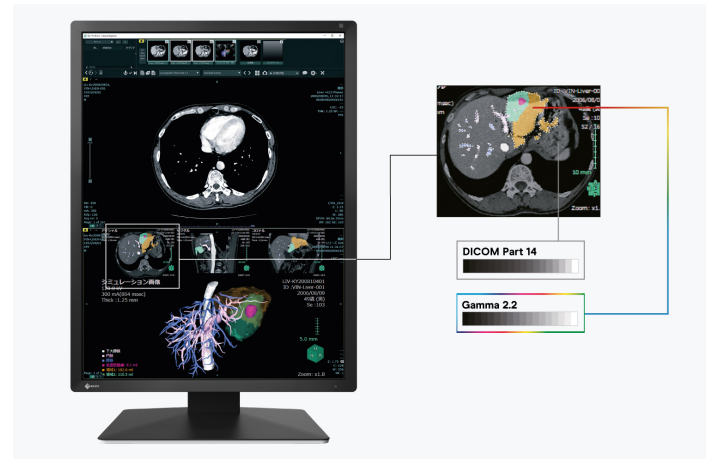


Observe monochrome and color images on a single monitor

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

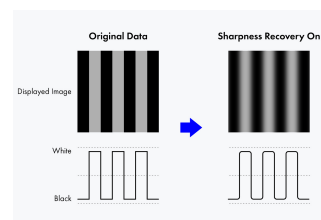
pixel is displayed with the ideal tone value. In this way, a high level of precision and reliability is achieved.

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.

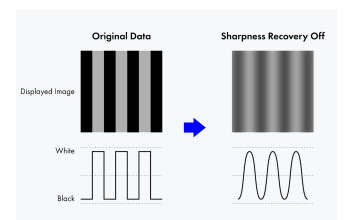


Blur reduction

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.

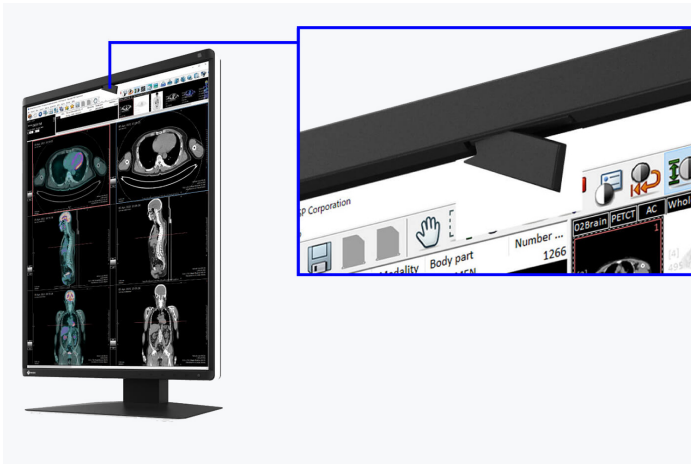
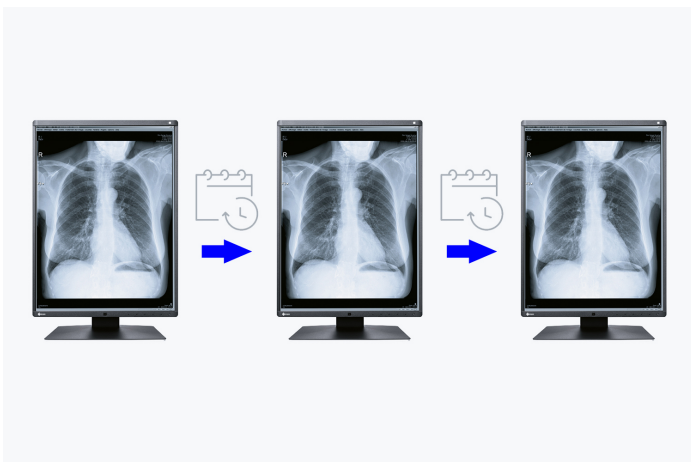


Illustration exemplary

Reliable brightness

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

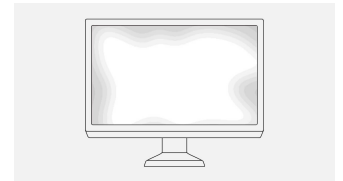


Uniform brightness and high color purity

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.



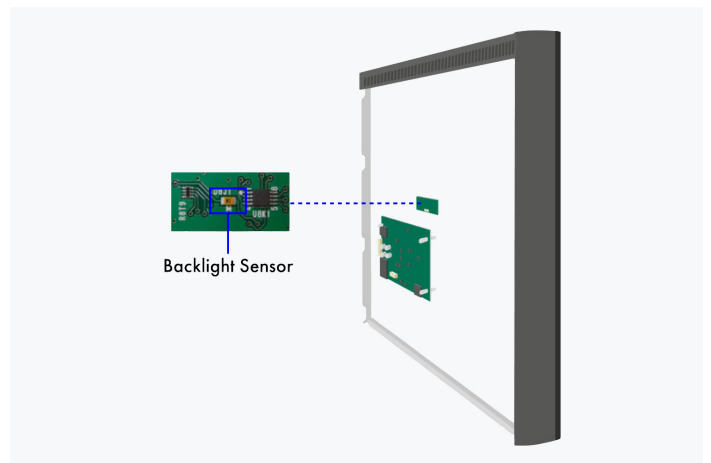
With DUE



Without DUE

Constant brightness during operation

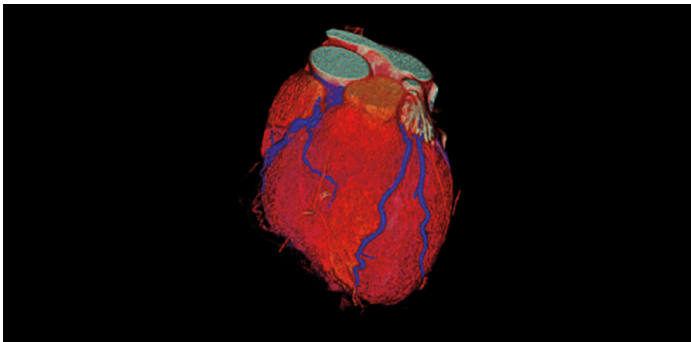
A sensor for the backlight permanently determines the luminance of the monitor. The benefit: The defined and calibrated values are rendered exactly just seconds after the monitor is turned on and remain constant during the entire period of use. The sensor is invisibly integrated in the monitor.



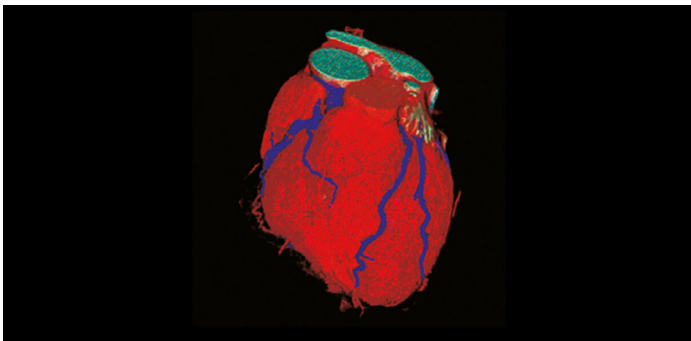
Back of the monitor

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



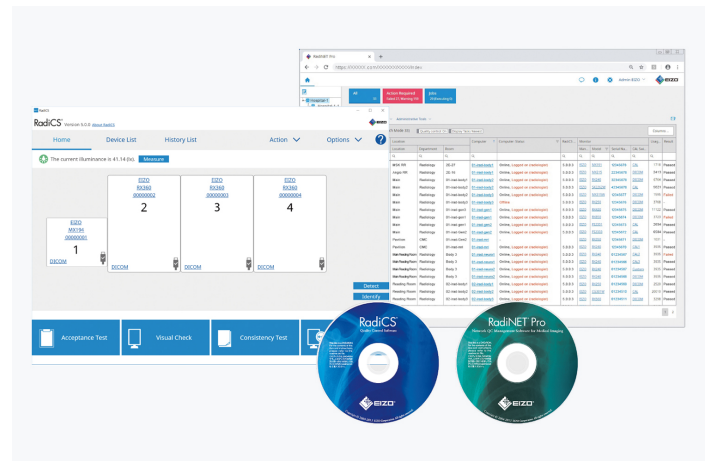
Without 13 bit LUT

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 is already included with 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

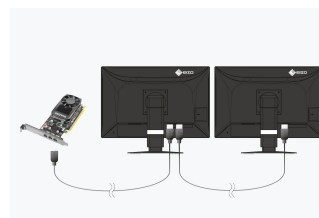
Narrow black frontal bezels make this device ideal for use in dark environments. They make it easy to visually concentrate on the display. Meanwhile, a white bezel at the sides of the monitors creates a fresh, clean look.



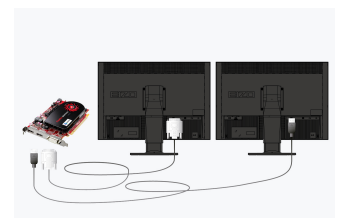
DAISY CHAIN METHOD

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

Environmentally friendly packaging

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.



Left: conventional packaging / Right: environmentally friendly materials

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 management system in accordance with ISO 14001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behaviour among employees. We publicly report on these measures on an annual basis.



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.



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

Item no.	RX270
Case color	Bicolor, black and white
Areas of application	Healthcare
Product line	RadiForce
Areas of application	Projection radiography, Computed tomography/ MR imagine, Orthopedics, Nuclear medicine and radiotherapy, Non-destructive-testing
EAN	4995047063766

SCREEN

Screen size [in inches]	21,3
Screen size [in cm]	54
Format	3:4
Viewable image size (width x height) [in mm]	324 x 432
Resolution in MP	2 Megapixels (colour)
Ideal and recommended resolution	1200 x 1600
Pixel pitch [in mm]	0,27 x 0,27
Panel technology	IPS
Max. viewing angle horizontal	178
Max. viewing angle vertical	178
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)
Color palette/look-up table	543 billion colour tones / 13 bit
Max. brightness (typical) [in cd/m ²]	1000
Recommended brightness [in cd/m ²]	500
Max. dark room contrast (typical)	1800:1
Response time black/white/black change (typical)	20
Backlight	LED

FEATURES & OPERATION

Preset color/greyscale modes	2x manual memory locations, Text, sRGB, DICOM, additional memory spaces through calibration
DICOM tone curve	✓
Hardware calibration of brightness and light density characteristic curve	✓
Digital Uniformity Equalizer (homogeneity correction)	✓
Hybrid Gamma PXL	✓
Blur reduction	✓
Sensors	Ambient Light Sensor, Integrated luminance sensor
On-screen menu languages	de, en, fr, es, it, se
Adjustment options	DICOM tonal value, Brightness, Gamma, Color saturation, Resolution, Scaling, OSD language, Blur reduction
Button Guide	✓
Integrated power unit	✓

CONNECTIONS

Signal inputs	2x DisplayPort (HDCP 1.3), DVI-D (HDCP 1.4)
USB specification	USB 2
USB upstream ports	2 x type B
USB downstream ports	1 x type C (DisplayPort Alt Mode, 15 W max.), 2x type A
Graphic signal	DVI Single Link (TMDS), DisplayPort

ELECTRICAL DATA

Frequency	Digital: 31-100 kHz/59-61 Hz; Bildsynchrone Modus: 59-61 Hz
Power consumption (typical) [in watts]	33
Maximum Power Consumption [in watts]	98 (at maximum brightness with all signal inputs and USB ports in use)
Max. Power consumption in stand-by mode [in watts]	1
Power consumption with power switch off [in watts]	0
Power supply	AC 100-240V, 50/60Hz

DIMENSIONS & WEIGHT

Dimensions (incl. stand) (width x height x depth) [in mm]	356,5 x 482-572 x 200
Weight (incl. stand) [in kg]	7.7
Weight (without stand) [in kg]	4.9
Dimension drawing (PDF)	Dimension drawing (PDF)
Rotatability of the stand	70
Tiltability	5 / 30
Pivot between portrait / landscape	90° (anti-clockwise)
Height adjustment range [in mm]	90
Hole spacing	100 x 100

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
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SOFTWARE & ACCESSORIES

Accompanying software and other accessories are available for download	RadiCS LE
Other box contents	2x Signal cable DisplayPort - DisplayPort, 2x USB cable (Type A - Type B), Power cord
Accessories	RadiNET Pro, RadiCS, RadiLight, MED-XN43
Recommended graphics card	MED-XN43



RadiForce **RX270**

WARRANTY

Warranty periode	5 years
Included warranty	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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