



## RX1270

### Your advantages

A resolution of 12 megapixels allows the RX1270 to effectively replace conventional dual-monitor solutions at diagnostic stations with one single device. Because it facilitates virtually any hanging protocol, users enjoy the utmost ergonomics during diagnostics. As a universal device for greyscale and colour images, its fine dot pitch of 0.155 mm offers a detailed view of radiological images, such as mammograms and microstructures. It clearly and simultaneously depicts a wide variety of images on its 78.4 cm screen diagonal – thus streamlining and optimising work processes in radiological diagnostics. The large monitor requires far less desk space than several individual devices. Fewer head movements means an increase in comfort when viewing the display. The individually controllable, comfort lighting at the back of the monitor and the spotlight at the front ensure greater ergonomics in an otherwise dark reading room.

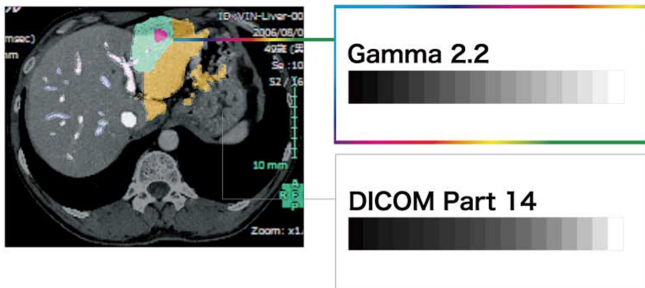
- ✓ Compact and convenient all-rounder in radiological diagnostics with 12 megapixels
- ✓ High contrast levels and Sharpness Recovery technology enable imaging of microstructures with clarity
- ✓ Palette with 543 billion hues for precise colour reproduction (max. 10-bit)
- ✓ Hybrid Gamma PXL functionality for precise display, down to the pixel, of greyscale and colour images with the required luminance characteristic curve
- ✓ Homogenous display surface with automatic luminance distribution control (DUE)
- ✓ Set up for calibration, acceptance, and consistency testing in accordance with DIN 6868-157 and QS-RL
- ✓ Flexible hanging protocols for maximum convenience during diagnostics
- ✓ Effortless quality control and built-in calibration sensor
- ✓ Convenient background light and spotlight for ideal illumination during diagnostics

## Features

### Observe monochrome and colour 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 turn, this achieves a greater degree of precision and reliability than for conventional planar detection methods.

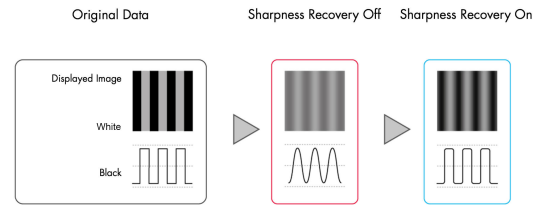
The RX1270 faithfully displays complex monochrome images from mammography and tomosynthesis along with colour images from every imaginable modality. The result is a significant increase in efficiency since images produced using different imaging techniques can be viewed on a single monitor. The RX1270 is the perfect choice for diagnostic workstations in applications such as mammograms and ultra-high resolution diagnostic CT scans where a large screen size and very high spatial resolution are required.



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

### 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.



### Sharp, High-resolution Images

The monitor has a pixel width of 0,1554 mm and thereby reproduces even, high-resolution, sharp, and high-depth images without any kind of granularity.

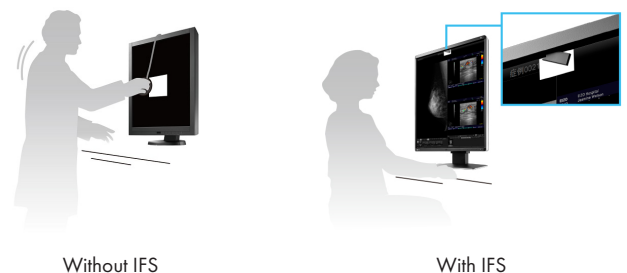
### Stable display using AI

The colour and brightness of an LCD monitor can shift due to changes in ambient temperature and the temperature of the monitor itself. Medical Imaging RadiForce monitors are equipped with a temperature sensor for accurately measuring the temperature inside the monitor, as well as estimating the temperature of the surrounding environment. With this technology, the monitor adjusts in real-time so gradations, colour, brightness, and other characteristics continue to display accurately.

Furthermore, EIZO uses AI (artificial intelligence) in the estimation algorithm of the RX1270 so it can distinguish between changing temperature patterns to calculate an even more accurate correction.

### Balanced image quality thanks to an integrated front sensor

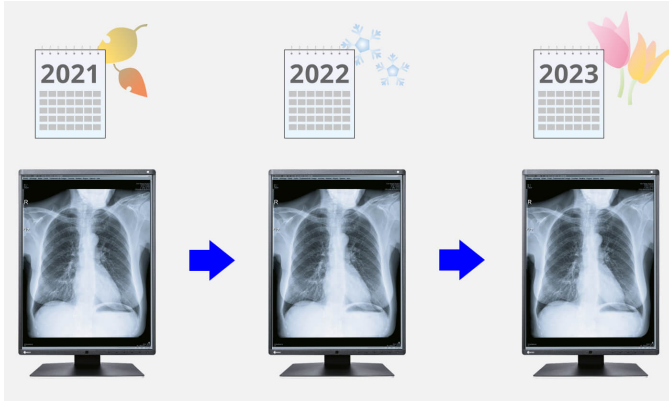
The precise calibration of white point and tone value characteristic curve is provided by an integrated front sensor (IFS). This measures the brightness and grayscales and calibrates the monitor autonomously according to the DICOM® standard. The sensor works automatically, without restricting the field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



## Features

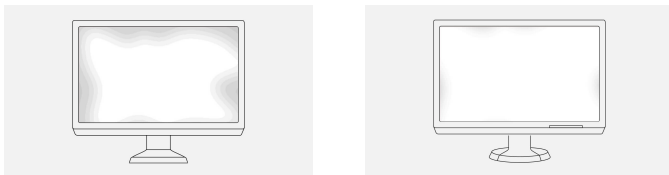
### Reliable brightness

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



### Uniform brightness over the entire screen

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

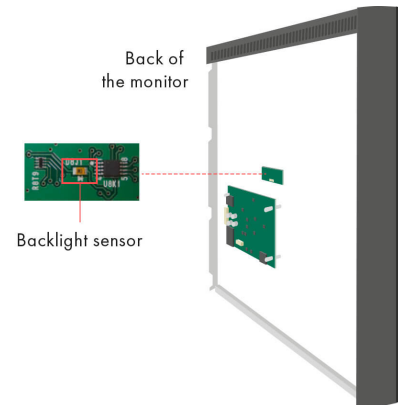


Without DUE

With 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.



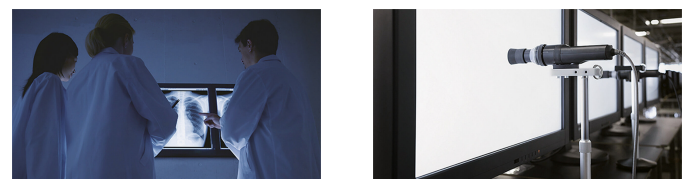
### One Billion Hues, Thanks to the 13-bit Look-up-table

Precise colour reproduction is controlled via a 13-bit look-up table (LUT). A maximum of 10-bit resolution, or up to one billion hues, is available via DisplayPort. This ensures flawless colour reproduction of MRI, ultrasound, and pathology images. As such, the recording curve and microstructures required for diagnosis can be precisely detected.

### 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 breast tomosynthesis, mammography and general radiography.

## Features

### Shape of Comfort

Compact 12 megapixel monitor packed full of features to improve comfort and work efficiency.

#### 1. Eye relief with Comfort Light

The indirect lighting produced by the comfort light on the monitor's back panel allows for glare-free work in low-light reading rooms. The light source does not shine directly in the radiologist's eyes while the images on the monitor remain visible. In addition, minor adjustments made to the brightness of the monitor to align it to ambient light levels reduce eye strain.

#### 2. Easily navigate your workspace

It is also equipped with a spotlight which allows you to see printed documents or your keyboard. The position can be easily adjusted in order to achieve the ideal lighting.



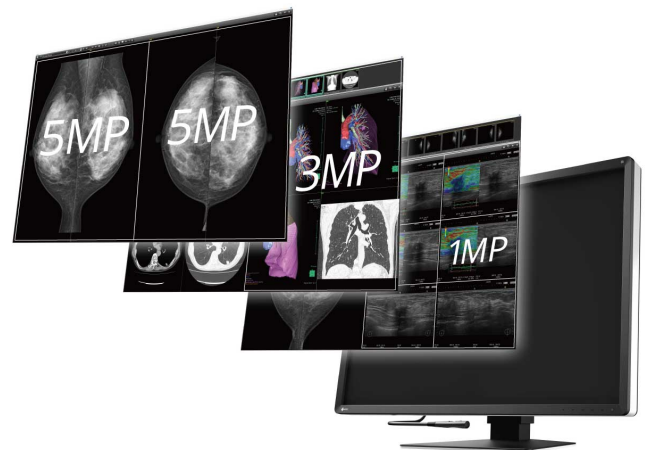
### Perfectly designed for diagnostic use

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.



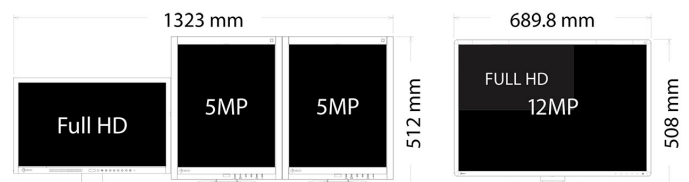
### Streamline Your Workflow

The RX1270 provides streamlined visibility compared with multi-monitor environments, leading to greater efficiency.



### Compact and feature-packed

The monitor realizes the ultra-high resolution of 12 megapixels on a 30.9-inch screen. The new design is more compact compared to two conventional 5 megapixel monitors used side by side. This all while including a built-in comfort light and internal power supply that do not impose on the workspace.



Conventional diagnostic station vs. RX1270

## Features

### Consistently secure image quality

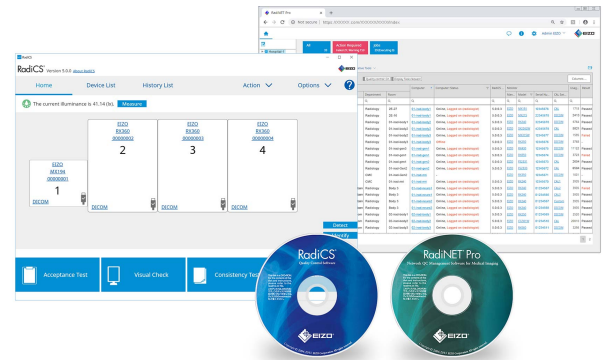
The optional EIZO RadiCS software to secure image quality enables extensive maintenance and testing of monitors and includes calibration, acceptance and constancy testing, and the archiving of all areas. If you are working on multiple stations, the use of the RadiNET Pro is recommended. This can be used 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 \(optionally available\)](#)



### Environmentally and socially conscious production

EIZO uses the RX1270 to showcase how image and product quality go hand in hand with responsible planning, material procurement and production. This intrinsic value enables you to make a safe investment in a modern and reliable monitor.

## Features

### Evolve your image reading: 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 RX1270 and RadiCS-LE software solution enable you to benefit from the Work-and-Flow functions.

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

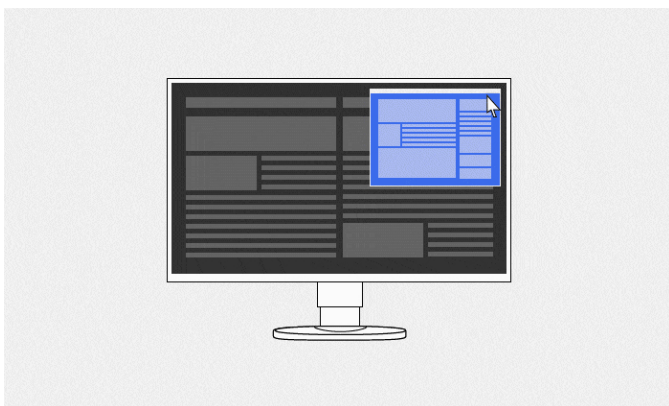
### Point-and-Focus: all eyes on the analysis

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.



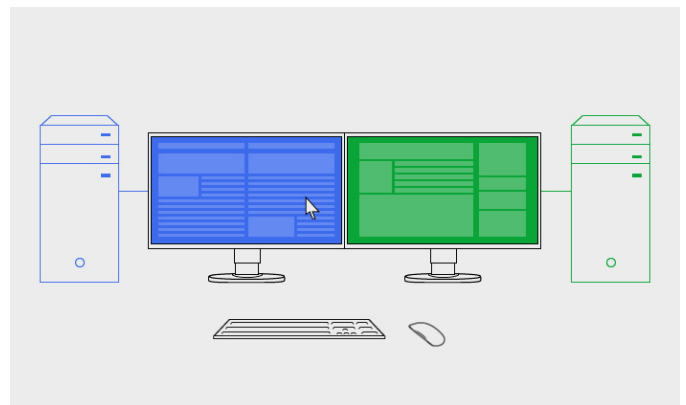
### Hide-and-Seek: fast retrieval of information

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.



### Switch-and-Go: just one keyboard and mouse for two systems

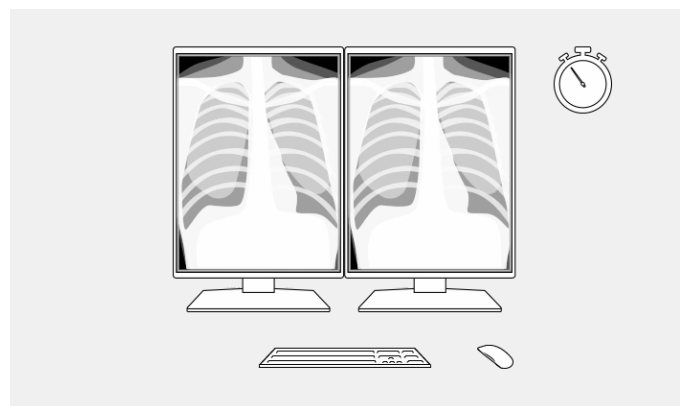
Switch-and-Go makes it possible to work using just one keyboard and mouse at diagnostic imaging stations that make use of two computers. You can switch between the two systems simply by moving your cursor from one screen to the other. This ensures greater work efficiency and allows you to maintain a clear overview of your workstation.



### 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.



## Features

### Socially responsible production

The RX1270 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.

[Learn more about responsible corporate behaviour at EIZO here.](#)



### Environmentally and climate friendly

Each RX1270 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 as a main component of our CSR report.



### Sustainable and durable

The RX1270 is designed for a long service life that takes into account the entire lifecycle and impact on the environment. It is generally well above the five-year guarantee. Spare parts are available up to seven years after the end of production. The monitor's long service life and the ability to repair it save resources and the climate. When designing the RX1270 we paid attention to reducing resource consumption by using high-quality components and materials and being meticulous in production.



### For precise diagnoses: EIZO MED-XN92 graphics card

The EIZO MED-XN92 graphics card supports the properties, functions, and settings of the RadiForce RX1270 optimally. It enables precise diagnosis and can control several monitors simultaneously. EIZO offers technical support and warranty service for the graphics card.

[Display the specifications of the MED-XN92](#)



## Features

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### 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.





# Specification

## General

Item no.	RX1270
Case color	Bicolor, black and white
Areas of application	Medicine
Product line	RadiForce

## Display

Screen size [in inches]	30,9
Screen size [in cm]	78,4
Format	3:2
Viewable image size (width x height)	652,7 x 435,1
Resolution in MP	12 Megapixels (colour)
Ideal and recommended resolution	4200 x 2800
Pixel pitch [mm]	0,1554 x 0,1554
Resolution supported	4200 x 2800
Panel technology	IPS
Max. viewing angle horizontal	178 °
Max. viewing angle vertical	178 °
Number of colours or greyscale	1.07 billion colours (DisplayPort, 10 Bit), 16.7 million colours (DisplayPort, 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/m <sup>2</sup> ]	1200
Recommended brightness warranty	500
Factory-calibrated brightness [in cd/m <sup>2</sup> ]	500
Max. dark room contrast (typical)	1500:1
Backlight	LED

## Features & control

Preset colour/greyscale modes	DICOM, CAL1, CAL2, Text, Custom, sRGB
DICOM tone curve	✓
RadiCS application classes	I, II, III, IV, V, VI, VII, VIII
Hardware calibration of brightness and light density characteristic curve	✓
Digital Uniformity Equalizer (homogeneity correction)	✓
Hybrid Gamma PXL	✓
Blur reduction	✓
Sensors	Ambient Light Sensor, Integrated front sensor
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Brightness, Gamma, DICOM tonal value, OSD language
Integrated power unit	✓

## Ports

Signal inputs	2x DisplayPort, HDMI
USB specification	USB 2.0
USB upstream ports	2 x type B
USB downstream ports	3 x type A
Video signal	DisplayPort
Control port	USB-Protocol

## Electric data

Power consumption (typical) [in watt]	77
Maximum Power Consumption [in watt]	188
Power Save Mode [in watt]	2
Power consumption off [in watt]	0
Power supply	AC 100-240V, 50/60Hz

## Warranty

Warranty and service	5 years warranty*
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## Dimensions & weights

Dimensions [mm]	689,8 x 508-608 x 225
Weight [in kilograms]	15,6
Weight without stand [in kilograms]	11,5
Housing dimension details	<a href="#">Dimension drawing (PDF)</a>
Swivel	70 °
Incline forward/backward	5 ° / 25 °
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, FDA 510(k) release for chest-tomosynthesis and mammography
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## Software & accessories

Accompanying software and other accessories are available for download	RadiCS LE
Additional supply	Power cord, 2x signal cable DisplayPort - DisplayPort, Short HDMI signal cable - HDMI, EIZO LCD Utility Disk (incl. PDF manual), EIZO ScreenCleaner
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), MED-XN92 (MED-XN92, acceleration of complex 3D data sets - optimal for 3D segmentation)
Recommended graphics card	MED-XN92

## 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 500 cd/sq m and a white point of 8,000 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.