



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

Shape of Comfort

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

1. Eye relief with Comfort Light

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.



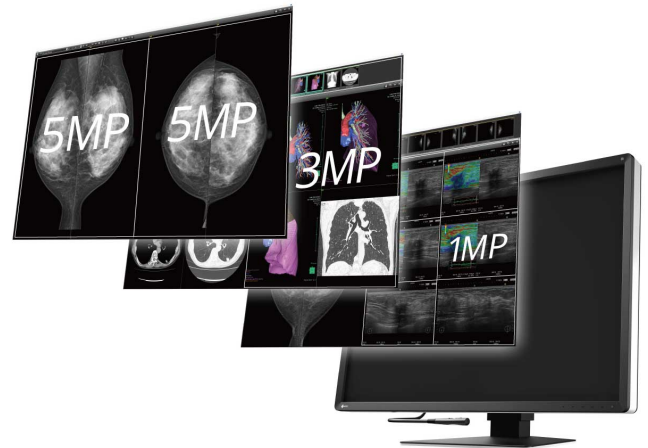
Perfectly designed for diagnostic use

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.



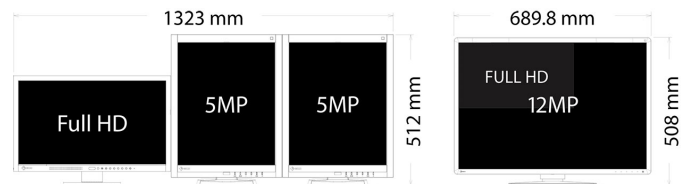
Streamline Your Workflow

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

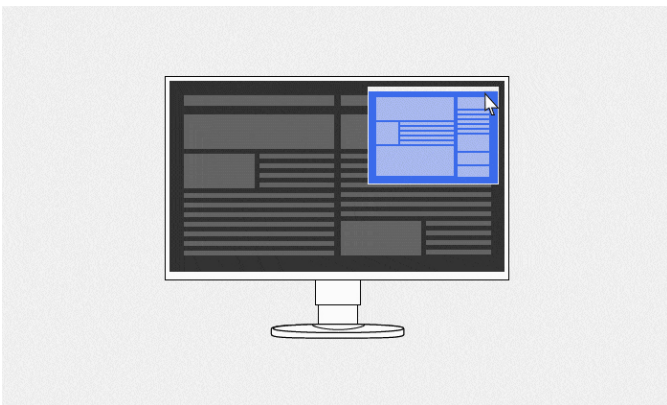
Point-and-Focus: all eyes on the analysis

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.



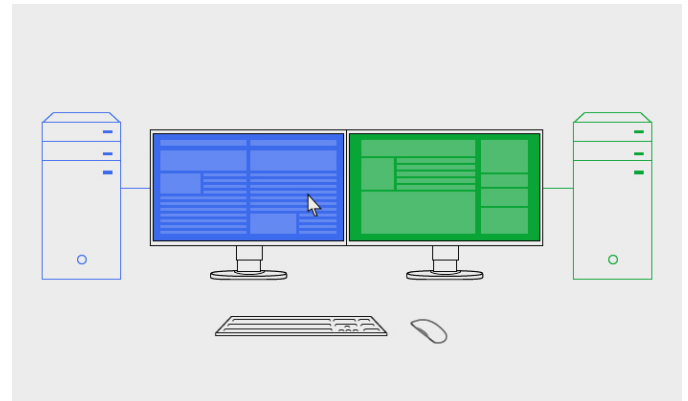
Hide-and-Seek: fast retrieval of information

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

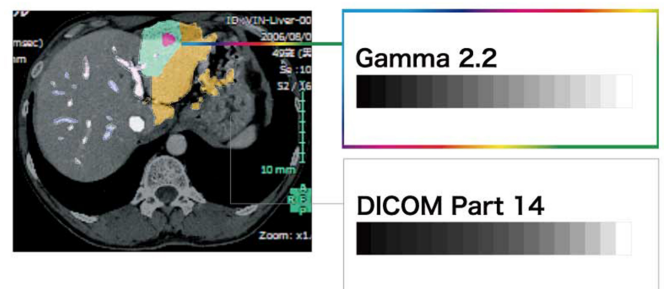
Switch-and-Go makes it possible to work using just one keyboard and mouse at diagnostic imaging stations that make use of two computers. You can switch between the two systems simply by moving your cursor from one screen to the other. This ensures greater work efficiency and allows you to maintain a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



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 reproduces sophisticated monochrome images from breast tomography or mammography as reliably as colour images from breast MRIs or CTs, ultrasound scans and pathology. In practical application, this means a significant increase in efficiency, since images from various imaging methods can be observed on a single monitor.



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

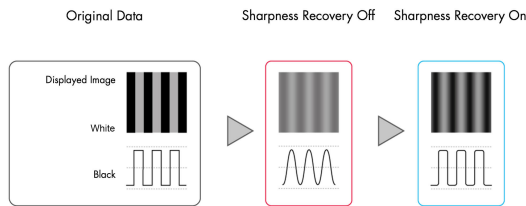
Sharp, High-resolution Images

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.

Features

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.



Stable display using AI

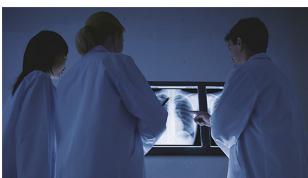
The colour and brightness of an LCD monitor can shift due to changes in ambient temperature and the temperature of the monitor itself. Medical Imaging RadiForce monitors are equipped with a temperature sensor for accurately measuring the temperature inside the monitor, as well as estimating the temperature 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.

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



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 greyscales 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.



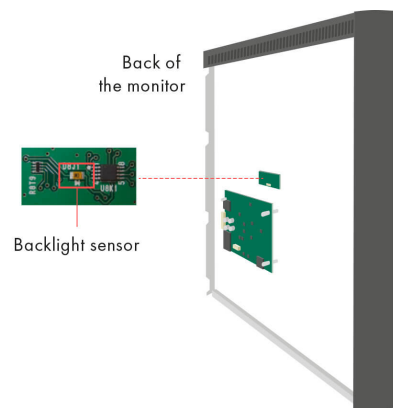
Reliable brightness

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



Constant brightness during operation

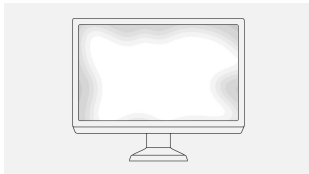
A sensor for the backlight permanently determines the luminance of the monitor. The benefit: The defined and calibrated values are rendered exactly just seconds after the monitor is turned on and remain constant during the entire period of use. The sensor is invisibly integrated in the monitor.



Features

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

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.

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 diagnostics and can control several monitors simultaneously. EIZO offers technical support and a warranty service for all graphics cards. Therefore, we recommend using EIZO graphics cards.

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



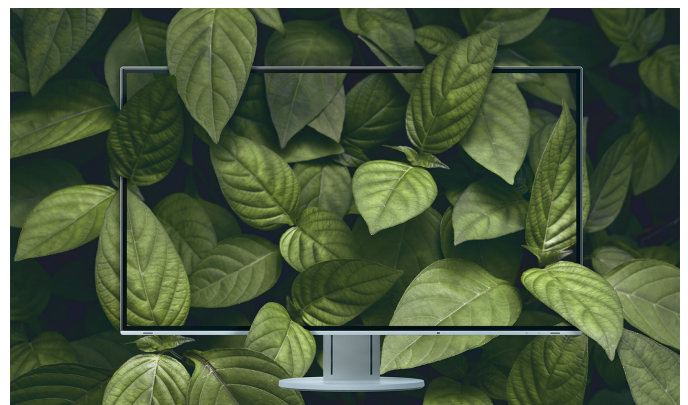
Environmentally and climate friendly

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 five 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.



Features

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 colors	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 (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/m ²]	1200
Recommended brightness warranty	500
Factory-calibrated brightness [in cd/m ²]	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	✓
Hybrid Gamma PXL	✓
Blur reduction	✓
Sensors	Presence sensor, 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

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
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 Directive), 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 (Diagnostic Controller 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.