



## MX243W

### Your advantages

5  
YEAR WARRANTY

As a 24" widescreen colour monitor, the MX243W is factory calibrated with a DICOM® GSDF luminance characteristic. Its Hybrid Gamma PXL function automatically distinguishes between greyscale and colour images with pixel accuracy and produces a hybrid image reproduction. Each pixel is displayed with the optimal luminance characteristic. This ensures maximum accuracy and reliability when colour and monochrome images are displayed simultaneously. This is advantageous when, for example, video or photo images are displayed simultaneously with X-ray images. In terms of image sharpness, it shines with blur reduction. It enables detailed contours that are otherwise impaired by anti-reflection coating and image brightness. The image is reproduced with maximum clarity. In addition, the screen is equipped with EIZO's Point-and-Focus function. With this function, image areas can be conveniently selected and masked using the mouse and keyboard. The design and technology offer both ergonomic comfort and unparalleled image precision for use with radiology images. Its 1920 x 1200 pixels in 16:10 format characterise the image area of the MX243W. Radiological images and associated findings can be displayed side by side. The viewer sees both at a glance. Dental images in the diagnostic room are displayed in diagnostic quality. With microscopic images in pathology, highly saturated colours can be very well differentiated thanks to its wide gamut display.

- ✓ 2 megapixel colour screen with 220 cd/m<sup>2</sup> factory calibrated brightness and 410 cd/m<sup>2</sup> maximum brightness (typical)
- ✓ 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)
- ✓ Prepared for calibration, acceptance and constancy testing according to DIN 6868-157 and QS-RL

## Features

### Excellent image quality for the finest details

Thanks to the high 2.3 Megapixels (colour) resolution, a strong contrast ratio of 1350:1 and stable brightness of up to 410 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.

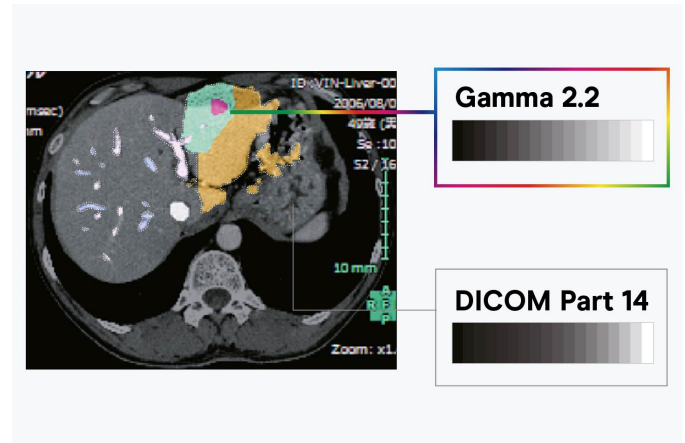
The MX243W has a so-called wide gamut display. Thanks to the wide colour gamut, it can display highly saturated colour tones that are not visible on conventional colour LCDs.



### 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 this way, a high level of precision and reliability is achieved.

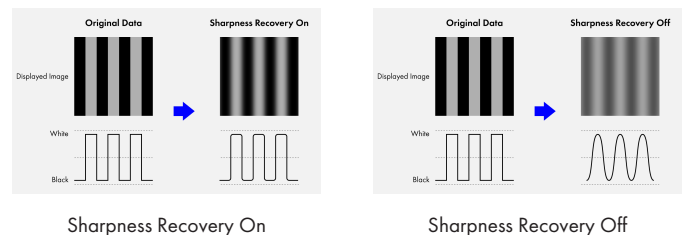
The MX243W faithfully displays complex monochrome images from mammography and tomosynthesis along with colour images from every imaginable modality. The result is a significant increase in efficiency since images produced using different imaging techniques can be viewed on a single monitor.



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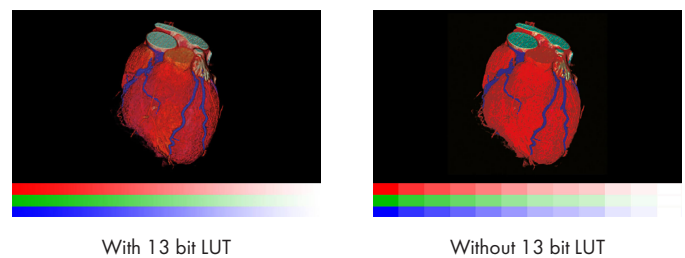
### Blur reduction

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.



### 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.



## Features

### Better viewing thanks to the widescreen format

Thanks to the aspect ratio of 16:10 or 16:9, you can see considerably more from a horizontal perspective than on conventional monitors, for example when performing clinical reviews on two adjacent images.

### 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.



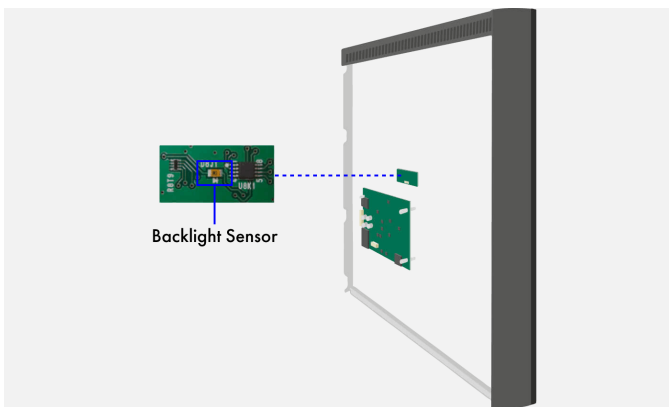
With DUE



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

### Consistently secure image quality

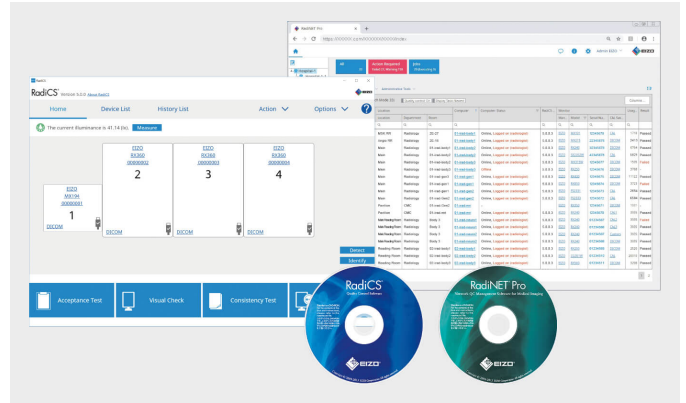
The optional EIZO RadiCS software to secure image quality enables extensive maintenance and testing of monitors and includes calibration, acceptance and constancy testing, and the

archiving of all areas. The basic version RadiCS LE is already included with RadiForce monitors.

[Learn more about the RadiCS application classes](#)

[Learn more about RadiCS LE software \(included in the delivery\)](#)

[Learn more about RadiCS software \(optionally available\)](#)



### RadiCS LE

Brightness and DICOM<sup>®</sup> characteristic curve can be checked using the [RadiCS LE software](#) and automatically calibrated according to the factory default settings. The optionally available [UX2 sensor](#) is used for this purpose. The calibration of other tone value curves, such as CIE, is also possible with RadiCS LE.

### 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 MX243W and RadiCS-LE software solution enable you to benefit from the Work-and-Flow functions.

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

### 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.

## 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.

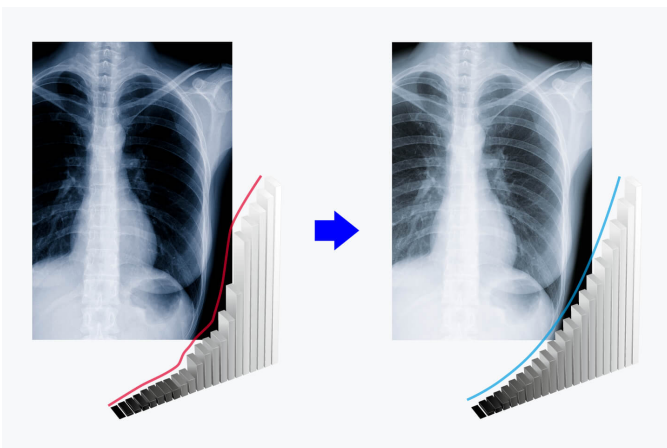


### Ergonomic stand

The monitor stand allows for both rotation and tilting as well as being operational in both portrait and landscape formats. The variable height adjustment starts at the very bottom of the desk, which guarantees optimal ergonomics, regardless of whether the user is standing or sitting in front of the screen. Despite its maximum range of movement, the stand is always completely stable.

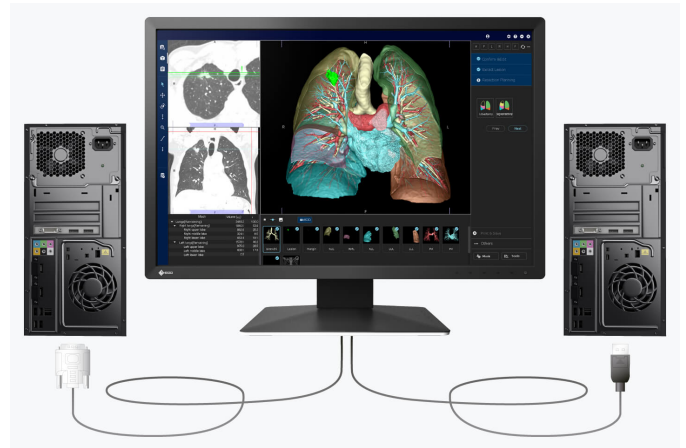
### Display of DICOM® characteristic at the press of a button

EIZO measures and adjusts each tone of grey carefully so that the monitors comply with the DICOM® standard when delivered from the factory. The result is a particularly consistent gradation of grey tones, allowing for optimal radiological clinical reviews.



### Connections for two computers

DisplayPort and DVI-D input enable the connection of two image signals. You can therefore connect two computers simultaneously. You can switch between them automatically or manually, if desired.



### Environmentally friendly use of materials

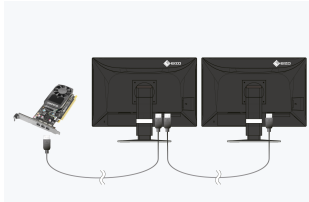
The MX243W consists of approximately 19% recycled plastic. This reduces the amount of plastic waste entering the environment, conserves resources and encourages the reuse of materials - helping to preserve our ecosystems.



## Features

### 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.



Daisy chain method



Conventional solution

### 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](#)



### Environmentally friendly packaging

For the packaging of the MX243W, 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.



Transport padding polystyrene / moulded pulp cellulose

### Socially responsible production

The MX243W 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.](#)



## Features

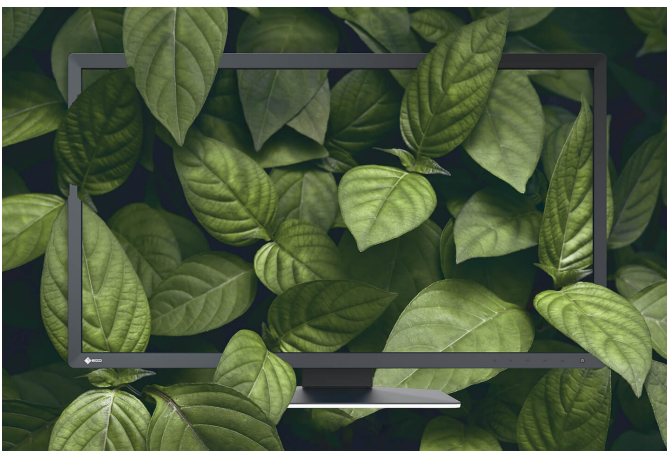
### Environmentally and climate friendly

Each MX243W 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 MX243W 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 MX243W we paid attention to reducing resource consumption by using high-quality components and materials and being meticulous in production.



### For precise diagnoses: EIZO graphics card MED-XN51LP

The EIZO graphics card MED-XN51LP optimally supports the features, functions and settings of the RadiForce MX243W. 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-XN51LP](#)



### 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.	MX243W
Case color	Black
Areas of application	Medicine
Product line	RadiForce

## Display

Screen size [in inches]	24.1
Screen size [in cm]	61
Format	16:10
Viewable image size (width x height)	518.4 x 324
Resolution in MP	2.3 Megapixels (colour)
Ideal and recommended resolution	1920 x 1200
Pixel pitch [mm]	0.27 x 0.27
Resolution supported	1920 x 1200, 1920 x 1080 (Full HD), 1600 x 1200, 1680 x 1050, 1280 x 1024, 1024 x 768, 800 x 600, 720 x 400, 640 x 480
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/m²]	410
Factory-calibrated brightness [in cd/m²]	220
Max. dark room contrast (typical)	1350:1
Backlight	LED

## Features & control

Preset colour/greyscale modes	DICOM, 2x additional memory spaces, Custom, sRGB, Text
DICOM tone curve	✓
RadiCS application classes	IV, V, VI, VIII
Hardware calibration of brightness and light density characteristic curve	✓
Digital Uniformity Equalizer (homogeneity correction)	✓
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Brightness, Contrast, Colour saturation, Colour temperature /White point, Resolution, OSD language, DICOM tonal value, Blur reduction, Automatic signal input recognition, Monitor reset, Scaling, Hybrid Pixel Gamma
Integrated power unit	✓

## Ports

Signal inputs	1x DisplayPort, 1x DVI-D
Signal outputs/Daisy chain compatibility	DisplayPort
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

Frequency	Digital: 31-76 kHz/59-61 Hz
Power consumption (typical) [in watt]	25
Maximum Power Consumption [in watt]	56
Power Save Mode [in watt]	0.6
Power consumption off [in watt]	0
Power supply	AC 100-240V, 50/60Hz
Power management	✓

## Dimensions & weights

Dimensions [mm]	552 x 431-521 x 200
Weight [in kilograms]	7.8
Weight without stand [in kilograms]	4.9
Housing dimension details	<a href="#">Dimension drawing (PDF)</a>
Swivel	70 °
Incline forward/backward	5 ° / 30 °
Pivot	✓
Height adjustment range [mm]	90
Hole spacing	VESA standard 100 x 100 mm

## Certification & standards

Certification	CE (Medical Device), UKCA, 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
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## Software & accessories

Accompanying software and other accessories are available for download	RadiCS LE
Additional supply	Power cord, Signal cable DisplayPort - DisplayPort, 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.), RadiLight (Comfort Light for Reading Rooms - Easily attachable light for RadiForce medical LCD monitors.), MED-XN51LP (MED-XN51LP, optimal speed for 2D radiology)
Recommended graphics card	MED-XN51LP

## Warranty

Warranty and service	5 years warranty
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