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2-megapixel medical monitor

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/m² factory calibrated brightness and 410 cd/m² 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
- ✓ 5-year warranty for highest investment security

Technical Data

GENERAL

Item no.	MX243W
Case color	Black
Areas of application	Healthcare
Product line	RadiForce
Areas of application	Computed tomography/MR imagine, Pathology, (when using EIZO monitors for pathology, it is recommended to evaluate the entire system including the scanner), Dentist, Dental diagnostic room, Nuclear medicine and radiotherapy, Non-destructive-testing

SCREEN

Screen size [in inches]	24,1
Screen size [in cm]	61
Format	16:10
Viewable image size (width x height) [in mm]	518,4 x 324
Resolution in MP	2.3 Megapixels (colour)
Ideal and recommended resolution	1920 x 1200
Pixel pitch [in mm]	0,27 x 0,27
Supported resolutions	1920 x 1200, 1920 x 1080 (Full HD), 1680 x 1050, 1600 x 1200, 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 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]	410
Factory calibrated brightness [in cd/m ²]	220
Max. dark room contrast (typical)	1350:1
Max. refresh rate [in Hz]	60
Backlight	LED

FEATURES & OPERATION

Preset color/greyscale modes	2x manual memory locations, Text, sRGB, DICOM
DICOM tone curve	✓
Hardware calibration of brightness and light density characteristic curve	✓
Digital Uniformity Equalizer (homogeneity correction)	✓
Sensors	Backlight Sensor
On-screen menu languages	de, en, fr, es, it, se
Adjustment options	DICOM tonal value, Brightness, Contrast, Color temperature/White point, Gamma, Color saturation, Resolution, Scaling, Monitor reset, OSD language, Signal input, Blur reduction
Integrated power unit	✓

CONNECTIONS

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

ELECTRICAL DATA

Frequency	Digital: 31-76 kHz/59-61 Hz
Power consumption (typical) [in watts]	25
Maximum Power Consumption [in watts]	56 (at maximum brightness with all signal inputs and USB ports in use)
Max. Power consumption in stand-by mode [in watts]	0.6
Power consumption with power switch off [in watts]	0
Power supply	AC 100-240V, 50/60Hz
Power management	✓

DIMENSIONS & WEIGHT

Dimensions (incl. stand) (width x height x depth) [in mm]	552 x 431-521 x 200
Weight (incl. stand) [in kg]	7.8
Weight (without stand) [in kg]	4.9
Dimension drawing (PDF)	Dimension drawing (PDF)
Rotatability of the stand [in °]	70
Tiltability forwards/backwards [in °]	5 / 30
Pivot between portrait / landscape	anti-clockwise
Height adjustment range [in mm]	90
Hole spacing	100 x 100

CERTIFICATION & STANDARDS

Certification	CE (Medical Device), UKCA (Medical Device), ANSI/AAMI ES60601-1, CSA C22.2 Nr. 601-1, IEC60601-1, RCM, FCC-B, CAN ICES-3 (B), VCCI-B, RoHS, WEEE, China RoHS, CCC, EAC
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SOFTWARE & ACCESSORIES

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

WARRANTY

Warranty periode	5 years
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RadiForce **MX243W**

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