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5-megapixel medical monitor

Mammography is increasingly being used in combination with ultrasound for breast cancer screenings on patients with high breast density. More in-depth checks include biopsies as well as breast MRIs and CTs. This range of options requires colour monitors for image reproduction. The RadiForce RX560 is the world's first medical colour monitor that uses an LCD on an LTPS (lowtemperature polysilicon) basis. This is why it fulfills the brightness requirements applicable for mammograms, which are usually only achieved by greyscale monitors. This monitor achieves a brightness of up to 1100 cd/m². It reproduces top-quality images from the various types of diagnostic methods. Its high contrast ratio of 1500:1 is close to that of a monochrome monitor. Moreover, it displays deep black tones without a 'washed-out' effect.

- ✓ Two 5-megapixel colour LCD screens with consistently high and stable brightness for clear mammogram imaging
- ✓ Clear perceptibility of microstructures through high contrast and Sharpness Recovery technology
- ✓ Palette with 543 billion hues for precise colour reproduction (10-bit resolution max.)
- ✓ 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 (Digital Uniformity Equalizer)
- ✓ Set up for calibration, acceptance, and consistency testing in accordance with DIN 6868-157 and QS-RL
- ✓ Effortless quality control and built-in calibration sensor
- ✓ Light sensor to measure ambient light at the diagnostic station
- ✓ Compact dual-screen solution through a shared stand with narrow bezels and ergonomic design

Technical Data

GENERAL		CONNECTIONS	
Item no.	RX560-MD	Signal inputs	DisplayPort (HDCP 1.3), DVI-D (HDCP 1.4)
Case color	Bicolor, black and white	USB specification	USB 2
Areas of application	Healthcare	USB upstream ports	1 x type B
Product line	RadiForce	USB downstream ports	2x type A
Areas of application	Mammography, Nuclear medicine and radiotherapy, Non-destructive-testing	Graphic signal	DisplayPort, DVI Dual Link (TMDS)
EAN	4995047051404	Control port	USB-Protocol
SCREEN		ELECTRICAL DATA	
Screen size [in inches]	21,3	Frequency	Digital: 31-135 kHz/23-61 Hz; Sync Mode: 23,5-25,5 Hz/47-51 Hz
Screen size [in cm]	54,1	Power consumption (typical) [in watts]	43
Format	4:5	Maximum Power Consumption [in watts]	87 (at maximum brightness with all signal inputs and USB ports in use)
Viewable image size (width x height) [in mm]	338 x 422	Max. Power consumption in stand-by mode [in watts]	1
Resolution in MP	5 Megapixels (colour)	Power consumption with power switch off [in watts]	0
Ideal and recommended resolution	2048 x 2560	Power supply	AC 100-120 V / 200-240 V, 50/60 Hz
Pixel pitch [in mm]	0,165 x 0,165	DIMENSIONS & WEIGHT	
Panel technology	IPS	Dimensions (incl. stand) (width x height x depth) [in mm]	709 x 476-566 x 225
Max. viewing angle horizontal	178	Weight (incl. stand) [in kg]	17,3
Max. viewing angle vertical	178	Weight (without stand) [in kg]	5,3
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)	Dimension drawing (PDF)	Dimension drawing (PDF)
Color palette/look-up table	543 billion colour tones / 13 bit	Rotatability of the stand [in °]	70
Max. brightness (typical) [in cd/m ²]	1100	Tiltability forwards/backwards [in °]	5 / 25
Recommended brightness [in cd/m ²]	500	Pivot between portrait / landscape	clockwise
Max. dark room contrast (typical)	1500:1	Height adjustment range [in mm]	90
Backlight	LED	Hole spacing	100 x 100
FEATURES & OPERATION		CERTIFICATION & STANDARDS	
Preset color/greyscale modes	2x manual memory locations, Text, sRGB, DICOM	Certification	CE (Medical Device), FDA 510(k) release for chest-tomosynthesis and mammography, ANSI/AAMI ES60601-1, CSA C22.2 Nr. 601-1, EN60601-1, IEC60601-1, RCM, FCC-B, CAN ICES-3 (B), VCCI-B, RoHS, WEEE, China RoHS, CCC, EAC
DICOM tone curve	✓	SOFTWARE & ACCESSORIES	
Hardware calibration of brightness and light density characteristic curve	✓	Accompanying software and other accessories are available for download	RadiCS LE
Digital Uniformity Equalizer (homogeneity correction)	✓	Other box contents	2x Signal cable DVI-D - DVI-D (dual link), 2x Signal cable DisplayPort - DisplayPort, 1x short signal cable DisplayPort - DisplayPort, USB cable (Type A - Type B), Manual via download, Power cord
Hybrid Gamma PXL	✓	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), RadiNET Pro (EIZO software for network-based quality management in large facilities – with remote functionality for monitors)
Blur reduction	✓	Recommended graphics card	MED-XN83
Sensors	Ambient Light Sensor, Presence sensor		
On-screen menu languages	de, en, fr, es, it, se		
Adjustment options	Pathology tonal value, Brightness, Gamma, Scaling, OSD language		
Integrated power unit	✓		



RadiForce **RX560-MD**

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.

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