



EIZO RadiForce™ RX320

3 Megapixel LCD colour monitor

EIZO's RX320 is ideal for monochrome images, thanks to its high brightness. It shows correct representation of greyscale and colour tones, which means it is ideally suited for high resolution X-Ray images, as well as colourful 3D segmentations of image slices. The RX320 obtained a class A approval for showing fine structures and thorax images that up to now were only reserved for monochrome images. The advantage : flexible use in various applications that allow the visualization of colour and monochrome images on one system.

- ◆ Very high brightness at maximum 900 cd/m² and a contrast up to 1.000:1
- ◆ Palette of 68 billion colour tones for precise colour tones up to 10 Bit
- ◆ Automatic equalizing of brightness (Digital Uniformity Equalizer)
- ◆ Ready for calibration, acceptance and constancy testing according to DIN V 6868-57 and QS-RL
- ◆ Automatic shut down of backlights (Backlight Saver) to prolong life cycle
- ◆ 5 years warranty

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Features

Exemplary image quality With its 1536 x 2048 resolution, a contrast of 1000:1 and a brightness up to 900 cd/m², this monitor offers first class image quality. Whether you're in front of the monitor or aside, no matter the kind of image you're watching, all greyscale and colour tones remain visible without noticeable loss of quality.

Precise colour steering The colour representation is controlled over a 12 Bit LookUpTable (LUT). This allows much more precise colour tones than on standard 8Bit LUTs. For the visualization the monitor is capable of offering 10 Bit. This means a resolution up to 1 billion colour or monochrome tones. An individual calibration of whitepoint and colour tones is obtained through Eizo's own optional RadiCS software.

CalSwitch This function offers four separate video modes with various presets for brightness, colour temperature and tone value. By pressing just one button or by configuring Windows, you will obtain the ideal viewing conditions for all applications (DICOM, Custom, CAL and Text). In this way the monitor can switch automatically between to the calibrated mode (CAL), when the viewing software is being used. A colour tone value according DICOM, which emulates clear film, is already preset.

Automatic steering of brightness uniformity For a precise image representation a homogeneous light spreading over the entire screen is important. The special DUE circuitry (Digital Uniformity Equalizer) takes care of this. It automatically corrects point per point through the 12 Bit LookUpTable.

DIN V 6868-57 compliant The viewing characteristics, especially brightness and contrast, are in accordance with the DIN V 6868-57 regulations for categories A and B.

Brightness steering A sensor, installed behind the panel, constantly monitors the brightness. Defined or calibrated values are precisely shown seconds after starting up, and maintained at their constant level during the use of the monitor.

Backlight Saver The intensive use of the backlights can be reduced with the backlight saver function. On request it can operate automatically or as a part of the ScreenManager Pro Medical software. Like a screensaver, it electrically switches off the backlights when the monitor is not being used.

Automatic Lifetime Expectancy analyzer This function constantly measures the time of use and the intensity of the backlights. These service data are used by RadiCS the quality control software to calculate the remaining lifetime, based on the recommended brightness.

RadiCS Optional software for calibration, acceptance and constancy testing. RadiCS with its sensor offers various tests and automatic adaptations in order to guarantee a constant image quality on all RadiForce monitors.

Certifications



Specifications

Diagonal	54 cm (21,2 inch) TFT LCD
Image	3 Megapixel, colour
Image quality	Conform DIN V 6868-57 viewing stations class A and B
Housing colour	Black
Image direction	Landscape and portrait
Viewable size (W x H)	324 mm x 432 mm (portrait mode)
Viewable diagonal	540 mm
Ideal&recommended resolution	1536 x 2048 pixels
Pixel size	0,21 mm x 0,21 mm
Max. viewable colours	1 billion out of 4.096 ³ colours (10 Bit of 12 Bit per RGB)
Greyscale calibration	Yes
Constant brightness measuring	Yes
Max. brightness	900 cd/m ² (typical)
Recommended brightness	300 cd/m ² at 6500 Kelvin
Max. contrast	1000:1 (typical)
Max. viewing angle	Horizontal: 170°; Vertical: 170°
Features	SlimEdge housing, 12 Bit LookUpTable, automatic steering of constant brightness, calibration of various viewing curves e.g. DICOM with RadiCS, automatic steering of brightness uniformity, automatic lifetime analysis, CAL-Switch, Backlight Saver, On-Screen Display, integrated power supply
Settings	Brightness, Gamma, colour saturation and intensity, resolution, DICOM tone value, OSD language (German, English, French, Spanish, Italian), interpolation, Off Timer
Horizontal frequency	Digital: 31 to 127 kHz
Vertical frequency	Digital: 29 to 61 Hz
Video bandwidth	Digital: 215 MHz
Video input	DVI-D (dual link)
Power Management	DVI-DMPM
Max. Power consumption	Max. 110 Watt, 3 Watt in Off mode
Dimensions (W x H x D)	376 mm x 523~605 mm x 209 mm (portrait with stand)
Weight	10,4 kg (with stand)
Tilt/Swivel	35° right/left, 40° backwards
Height adjustable	82 mm
Certifications	TÜV GM, CE (EN 60601-1, EN 60601-1-2)
USB Hub	1 Up -Stream/2 Down Stream, Rev. 2.0
Accessories	Manual in German, English and French, ScreenManager Pro for Medical Software on CDROM, power cable + USB and videocable
Warranty*	5 years warranty

* The product has a five year warranty as of purchase date. This warranty covers the normal use of the backlights, when used at the recommended brightness of 300 cd/m² maximum and a whitepoint of 6500 K. EIZO guarantees this brightness for a period of 5 years from purchase date or 20.000 hours of use, whichever comes first.

