



EIZO RadiForce™ RX220

2 megapixel colour LCD monitor

Colour and monochromatic images on a single display - that is RadiForce RX220. An intense brightness reaching 900 cd/m^2 enables performing class A diagnosis for limbs, backbones, stomachs and the urinary tract at a quality only black and white screens could achieve before. The maximum contrast reaches 1000:1. Colour reproduction management is so precise, the calibration of the DICOM tone curve can be executed exactly. The result is the perfect differentiability between grey scale and colour tones.

Diagnostics imaging and 3D segmentation divisions can also benefit from this feature. RadiForce RX220: a colour monitor for the highest demands in the radiology field.

- ◆ Exceptionally high brightness, reaching 900 cd/m^2
- ◆ Display Port input enabling up to 10bit colour accuracy
- ◆ Colour palette of 68 million shades for precise colour reproduction
- ◆ Automatic brightness distribution regulation (Digital Uniformity Equalizer)
- ◆ Prepared for calibration, drop and brightness constancy control in compliance with DIN V 6868-57 and QS-RL
- ◆ The automatic backlight switch (Backlight Saver) extends the service life
- ◆ 5 year warranty.

medical imaging



EIZO
high-end-monitors

EIZO RadiForce™ RX220



Main features

Exceptional picture quality First class picture quality is achieved thanks to its high resolution of 1600 x 1200 pixels, 1000:1 contrast ratio and maximum brightness of 900 cd/m². It doesn't matter whether you are sitting directly in front of the monitor or to the side, or which part of the monitor you are looking at – even if you change your viewing angle, all shades of gray are well visible.

Precise colour control Colour reproduction is controlled by the internal 12bit LUT (Look-Up-Table). This helps achieving a much more accurate grading of colour information than with an 8bit LUT. Individual calibration of the white pixel and tone curve conducted using the optional RadiCS software developed by EIZO.

CalSwitch This function offers a total of four picture modes with various preset values of brightness, colour temperature and tone curve. With a push of a single button or by changing Windows settings, you can immediately achieve the ideal setup for the given purpose of use (DICOM, Custom, CAL and Text modes). The monitor can automatically switch to calibration mode (CAL), if monitoring software is used. The DICOM tone curve, corresponding to clean film, is preset.

Automatic brightness distribution regulation It is necessary to maintain a homogeneous distribution of brightness throughout the entire display area in order to achieve precise picture reproduction. The Digital Uniformity Equalizer, a special circuit, automatically corrects brightness non-uniformity for each pixel via the 12bit LUT.

DIN V 6868-57 Display features, particularly brightness and contrast, enable the classification of picture observation into categories A and B in compliance with DIN V 6868-57.

Brightness stabilization A sensor, invisibly placed behind the monitor, constantly measures the brightness. The defined or calibrated values are achieved within seconds of turning on the monitor and are maintained constant during operation.

Backlight Saver The Backlight Saver function limits the wearing of the monitor backlight. This function can work automatically and is part of the ScreenManager Pro Medical software. Similar to a screen saver, the Backlight Saver function turns off the backlight lamp, when the monitor is not in use.

Automatic duration of use analysis This function (Lifetime Expectancy Analyzer) constantly measures the duration of use and wearing of backlight lamps. This service information is used by the software in order to ensure the quality of RadiCS as a foundation for calculating the remaining service life at recommended brightness.

RadiCS Optional software for calibration and testing the drop and stability of brightness. With the respective sensor, RadiCS offers a large amount of tests and automatic adjustments for securing the constant and consistent reproduction for all RadiForce monitors.

Standards



Technical specifications

Panel size	54 cm (15 inches) TFT LCD
Picture reproduction	2 megapixels, colour picture
Display quality	Recommended for displaying situations in compliance with DIN V 6868-57 categories A and B
Device colour	Black
Picture orientation	Landscape and portrait
Viewable image size (W x H)	324 mm x 432 mm (portrait)
Viewable image size - diagonal	540 mm
Ideal and recommended resolution	1 200 x 1 600 pixels
Pixel pitch	0.270 mm x 0.270 mm
Max. Display colours	1 billion (30 bit) Display Port 16.7 million (24 bit) DVI
Colour management (palette)	12bit 3D Look-Up-Table approx. 68 billion colour shades
Gray scale calibration	Yes
Brightness stability measuring	Yes
Max. brightness	900 cd/m ² (typical)
Recommended brightness	300 cd/m ² at 6500 K
Max. contrast	1000:1 (typical)
Max. Viewing angle	Horizontal: 170°; Vertical: 170°
Main features	SlimEdge design, 12bitová Look-Up-Table, automatic constant brightness regulation, calibration of various tone curves (e.g. DICOM) via RadiCS, automatic brightness distribution regulation, automatic duration of use analysis, CAL-Switch, Backlight Saver, On-Screen Display, integrated power source
Adjustment functions	brightness, Gamma correction, colour saturation, resolution, DICOM tone curve, OSD language (German, English, French, Swedish, Spanish, Italian), interpolations, Off timer
Horizontal frequency	Analogue: 31 to 100 kHz Digital: 31 to 100 kHz
Vertical frequency	Analogue: 49 to 86 Hz Digital: 59 to 61 Hz
Video bandwidth	170 MHz (Digital: 164.5 MHz)
Video inputs	Display Port and 2 DVI-I inputs
Power Management	VESA DPMS and DVI-DMPPM
Max. input power	Max. 120 W, 0.9 W power save mode
Dimensions (W x H x D)	376 mm x 523~605 mm x 209 mm (portrait, with stand)
Net weight	10.4 kg (with stand)
Rotation / Tilt	35° right/left, 40° backwards
Height adjustability	82 mm
Standards	TUV GM, CE (EN 60601-1, EN 60601-1-2)
USB-Hub	1 Up-Stream/2 Down Stream, Rev. 2.0
Accessories	Manual (German, English and French), ScreenManager Pro for Medical Software on CDROM, power cable, USB cable, signal cable
Warranty*	5 year warranty

* The warranty on this product is 5 years from the date of purchase. The warranty applies to common wearing of the backlight, which is operated at the recommended maximum brightness 300 cd/m², with the white pixel value of 6 500 K. EIZO guarantees this brightness 5 years after purchasing or 20 000 hours of operation, whichever ever comes first.