



## **EIZO RadiForce™ R22**

2 MP LCD colour monitor

The 21-inch R22 colour LCD monitor offers accurate display of colour and greyscale gradations for MRI, PET, CR images and 3D rendering. Its FineContrast function consists of six user-selectable modes, each with different settings for brightness and gamma including two DICOM mode settings. The R22 can be used for cross-sectional imaging diagnosis (CT, MRI, PET), cardiology, angiography and endoscopy.

- ◆ Colour palette of up to 1 billion colours for superior colour rendition
- ◆ Sensor for constant brightness control
- ◆ Prepared for calibration, acceptance and consistency testing to DIN 6868-57 and QS-RL

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# EIZO RadiForce™ R22

## Features

### SlimEdge, Smart Space-Saving Design

A modern LCD module with extremely narrow bezels allows for an extremely compact case. The bezel itself is only 19mm wide, meaning that the screen never loses its symmetry, whether it is used for landscape or portrait format.

### Precise Colour Management

The colour reproduction is controlled by a 10-bit lookup table (LUT). This makes smoother and more precise gradations of colour data possible than with an 8-bit LUT and allows for gamma settings of between 1.4 and 3.0 in 0.2 stages. Even half-tone images are shown realistically by means of the variable grey-scale correction.

### ToneCurve Tuning Utility – customised colour reproduction

The integrated colour management system allows the user to make specific adjustments to the tonal values. This means that signal values or ranges that are of special interest can be emphasised.

### Exceptional Picture Quality

A dual Domain IPS LCD module with a resolution of 1200 x 1600 pixels, a contrast ratio of 400:1 and a brightness of 250 cd/m<sup>2</sup>, ensure an exceptional picture quality.

### Very Stable Contrast

The unit continues to provide excellent, realistic contrast between a huge range of grey-scale values whether the observer is directly in front of the screen or off to the side, regardless of the picture area viewed and even if the angle of view changes.

### Brightness Control

A sensor (mounted invisibly behind the image plane) constantly monitors the brightness of the backlight. Defined or calibrated values are reproduced exactly just seconds after the monitor is switched on.

### Digital and Analogue Inputs

DVI-I and DSub inputs make it possible to connect up two computers at the same time.

### Screen Administrator

EIZO's "Screen Administrator" program can be accessed via the USB connector. Screen Administrator is an optional software package for asset management and remote control via a network.

### RadiCS

Optional software that manages calibration, acceptance and consistency testing. RadiCS, in conjunction with a purpose-designed sensor, provides extensive testing and automatic adjustment facilities that assure constant and consistent image display quality on all RadiForce monitors.

### Certifications



## Specifications

Diagonal	54 cm (21.3 inch) TFT LCD
Image display	2 MP, colour
Cabinet colour	Black
Image orientation	Landscape and portrait
Visible image size (W x H)	432 mm x 324 mm
Visible diagonals	540 mm
Native resolution	1600 x 1200 pixels
Pixel distance	0.207 mm x 0.207 mm
Max. displayable colours	16.77 million from a palette of 1 billion
Continual Luminosity Monitoring	Yes
Greyscale Calibration	Yes
Max. brightness	250 cd/m <sup>2</sup>
Max. contrast	550:1
Max. viewing angle	Horizontal: 170°; vertical: 170°
Features	SlimEdge case (bezel 19 mm), 10-bit lookup table for precise colour management, automatic picture size and position, on-screen display, PowerManager via VESA DPMS, Plug & Play complies with VESA DDC1/2B, integrated power supply
Adjustable settings	Contrast, brightness, gamma, colour saturation and colour intensity separately for RGB and CMY, clock, phase, picture, position, resolution, colour areas EBU, NTSC, HDTV, SMPTE and sRGB, OSD language (English, French, German, Italian, Spanish)
Horizontal frequency	Analogue: 31 to 94 kHz Digital: 31 to 76 kHz
Vertical frequency	Analogue: 49 to 86 Hz Digital: 59 to 61 Hz
Video bandwidth	Analogue: 162 MHz Digital: 202.5 MHz
Video input	DVI-I and Dsub
Power Management	VESA and DVI-DMPM
Power consumption	Max. 70 watt, less than 8 watts Power Save Mode
Dimensions (W x H x D)	373mm x 504 – 586 x 209mm (with stand)
Weight	10.2 kg (with stand) 7.0kg (without stand)
Swivel/tilt	40° up, 35° right/left
Height adjustment	82 mm
Certification	TÜV/GM, CE Medical Device Directive (IEC60601-1), cTUVus (UL2601-1, CSA C22.2 No.601-0), FCC-B, Canadian ICES-003-B, VCCI-B, EIZO Eco Products 2002
USB ports	1 upstream/2 downstream, Rev. 2.0
Accessories	AC power cord, signal cables (DSub – DSub, DVI-D – DVI-D, DVI-I – DSub), USB cable, EIZO Utility Disk (ScreenManager Pro for LCD, ICC profile), ToneCurve Tuning Utility2, warranty registration card
Warranty	3 years, subject to conditions
Recommended graphics card	MATROX MED-2MP MATROX RAD-PCI

*With current LCD technology, a panel may contain a limited number of missing or flickering pixels*

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