



EIZO RadiForce™ R12

1.3 MP LCD colour monitor

The R12 features versatile image control and landscape/ portrait mode support, making this 1MP colour LCD monitor ideal for a wide variety of tasks, from viewing of ultrasound, endoscope, CT and MRI images to using as an HIS/RIS terminal. Its ToneCurve Tuning Utility uses the monitor's 10-bit look-up tables (LUT) for adjustment of greyscale and colour tones to the desired values. Even tones in high and low brightness areas of the screen, typically problematic for LCD monitors to display, can be adjusted easily and accurately.

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

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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.

Satisfies DIN 6868-57

The device's display characteristics, particularly its brightness and contrast performance, make it capable of satisfying DIN 6868-57 display requirements for application category B.

Exceptional Picture Quality

A dual Domain IPS LCD module with a resolution of 1280 x 1024 pixels, a contrast ratio of 450:1 and a brightness of 270 cd/m², which gives a really exceptional picture.

Brightness Control

A sensor (mounted invisibly behind the image panel) constantly monitors the luminosity. Defined values are reproduced exactly just seconds after the monitor is switched on.

Digital and Analogue Inputs

Two DVI-I 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 over the 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	48 cm (19 inch) TFT LCD
Image display	1.3 MP, colour
Display quality	Satisfies DIN 6868-57 norms for application category B
Cabinet colour	Black
Image orientation	Landscape and portrait
Visible image size (W x H)	301 mm x 376 mm (portrait)
Visible diagonals	481 mm
Native resolution	1280 x 1024 pixels
Pixel distance	0.294 mm x 0.294 mm
Max. displayable colours	Approx. 16.7 million out of 1 billion
Greyscale calibration	Yes
Brightness stabilisation control	Yes
Max. brightness	270 cd/m ² (typical)
Recommended brightness	160 cd/m ² at 7500 Kelvin
Max. contrast	450:1 (typical)
Max. viewing angle	Horizontal: 170°; vertical: 170°
Features	SlimEdge bezel, 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), interpolation
Horizontal frequency	Analogue: 30 to 82 kHz Digital: 30 to 65 kHz
Vertical frequency	Analogue: 49 to 86 Hz Digital: 59 to 61 Hz
Video bandwidth	Analogue: 135 MHz Digital: 108 MHz
Video input	DVI-D (2x)
Power Management	VESA DVI-DMPM
Power consumption	Max. 60 watt, 8 watts in Save mode
Dimensions (W x H x D)	414 mm x 410-510 mm x 203 mm (with stand)
Weight	8.1 kg (with stand)
Swivel/tilt	35° right/left, 40° backwards
Height adjustment	100 mm
Certification	TÜV GM, CE (EN 60601-1, EN 60601-1-2)
USB ports	1 upstream/2 downstream, Rev. 2.0
Accessories	Manual in English, French and German, Screen Manager Pro and ToneCurve utility disk, power cable, signal cables (DVI-D – DVI-D, DVI-I -DSub), USB cable and ICC colour profile
Warranty	3 years, subject to conditions
Recommended graphics card	MATROX MED-2MP (8 bits per RGB) MATROX RAD-PCI (8 bits per RGB)

Liability for errors excluded; With current LCD technology, a panel may contain a limited number of missing or flickering pixels

see what's next



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