



## **EIZO RadiForce™ G33-N**

3 MP monochrome monitor

The G33-N's greatest trump card is its extremely precise monochrome display capability. An internal 13-bit Look-Up Table (LUT) controls greyscale rendering. Calibration mode selection assures correct tonal value allocation from a palette of 8161 greyscale tones. The 13-bit LUT also controls optimum luminance. After calibration and luminance optimisation have taken place, there is still a capacity of at least 11 bits available for image display purposes. Enough processing power to simultaneously display up to 4096 tones.

- ◆ Palette of 8161 greyscale tones for accurate monochrome display
- ◆ Sensor for constant brightness control
- ◆ Automatic luminance equaliser
- ◆ Prepared for calibration, acceptance and consistency testing to DIN 6868-57 and QS-RL

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# EIZO RadiForce™ G33-N



## Features

### Outstanding image quality

With a resolution of 1536 x 2048 pixels, a contrast ratio of 700:1 and a maximum brightness of 700 cd/m<sup>2</sup>, the G33-N provides first-class image quality. An equally high level of grey-tone contrast is maintained in all areas of the image regardless of whether the user is sitting in front of the monitor or viewing it from the side, and regardless of viewing direction.

### Exact grey-tone display

An internal 13-bit Look-Up Table (LUT) produces a palette of 8161 greyscale tones. This makes highly efficient calibration (e.g. DICOM colour curve) and luminance equalisation possible. Up to 4096 tones can be displayed simultaneously.

### Optimum display parameterisation

The CAL Switch function allows the user to switch between different display modalities for each individual application. Once calibration has taken place, the operator can switch at will between different settings, for example for CR, CT, MR, word processing, either by physically pressing a button or via software selection.

### Automatic luminance equaliser

High image display accuracy requires homogeneous luminance levels in all areas of the screen. A special circuit (Digital Uniformity Equaliser) automatically corrects irregularities within the 13-bit Look-Up Table at an individual pixel level.

### 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 categories A and B.

### Luminance control

A concealed sensor, which is mounted behind the display, permanently registers luminance levels. Defined or calibrated values are reproduced with exact accuracy just a few seconds after switching on and consistently maintained during operation.

### Backlight Saver

The Backlight Saver function reduces the demands placed on the backlighting facility. It can be set to operate automatically and is included in the ScreenManager Pro for Medical utility software. Just like a screen saver, the Backlight Saver switches off the monitor backlight when the screen is not in use.

### Lifetime Expectancy Analyzer

This function permanently records operating hours and backlight usage. RadiCS, EIZO's quality assurance utility, uses this service information to calculate the unit's remaining service life at the recommended brightness levels.

### 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.

### Certification



## Specifications

Diagonal	53 cm (20.8 inch) TFT LCD
Image display	3 MP, monochrome
Display quality	Satisfies DIN 6868-57 norms for application categories A and B
Cabinet colour	Black
Image orientation	Landscape and portrait
Visible image size (W x H)	318 mm x 424 mm (portrait)
Visible diagonal	529 mm
Native resolution	1536 x 2048 pixels
Pixel distance	0.207 mm x 0.207 mm
Max. greyscale tones	8161 / 4096 simultaneous (13 / 12 bit)
Greyscale calibration	Yes
Brightness stabilisation control	Yes
Max. brightness	700 cd/m <sup>2</sup> (typical)
Recommended brightness	450 cd/m <sup>2</sup>
Max. contrast	700:1 (typical)
Max. viewing angle	Horizontal: 170°; vertical: 170°
Features	SlimEdge housing (24 mm frame), 13-bit Look-Up Table, automatic luminance equaliser, automatic brightness stabiliser, calibration of various different display curves, e.g. DICOM with RadiCS, Lifetime Expectancy Analyser, CAL Switch, Backlight Saver, On-Screen Display, built-in power supply
Adjustable settings	Contrast, brightness, image position, resolution
Horizontal frequency	Digital: 31 to 100 kHz
Vertical frequency	Digital: 48 to 71.5 Hz
Video bandwidth	Digital: 165 MHz
Video input	DVI-D
Power Management	DVI-DMPM
Max. power requirement	Max. 100 watts, 3 watts in Off mode, automatic switch-off
Dimensions (W x H x D)	368 mm x 516~598 mm x 209 mm (portrait with stand)
Weight	10 kg (with stand)
Swivel/tilt	35° right/left, 40° backwards
Height adjustment	82 mm
Certification	TÜV GM, CE (EN 60601-1, EN 60601-1-2)
USB ports	1 upstream/2 downstream, Rev. 2.0
Accessories	Manual in German, English and French, ScreenManager Pro for Medical Software on CD-ROM, mains cable, USB cable and signal cable
Warranty	3 years, subject to conditions
Recommended graphics card	Matrox MED3MP-PPP

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

