

EIZO RadiForce™ GS521

5 megapixel black and white monitor



The GS521 monitor promises an accurate (1:1) display of high resolution radiological images. With a 5 megapixel resolution and up to 12bit grey scale colours, the monitor accurately displays even the smallest details, making it a perfect fit for chest images and mammography. Images of other parts of the body are reproduced with the same precision. The 13.5bit integrated Look-Up-Table prevents the creation of artefacts, which could be otherwise caused by calibration. Picture data is displayed without blending gray scale colours together and without any loss.

- u A pallet of 13 771 grey scale colours for the precise display of grey tones.
- u Sensor for maintaining a constant brightness and even backlight automatically
- u Prepared for calibration, drop and brightness constancy control in compliance with DIN V 6868-57 and QS-RL
- u The automatic backlight switch (Backlight Saver) extends the service life
- u Display Port and DVI input connectors
- u 5 year, onsite exchange warranty.
- u A resolution of 5 megapixels and up to 12bit gray scale colour accuracy - GS520 promises an accurate (1:1) display of high resolution radiological images. Fine details are accurately painted, making it a perfect fit for chest images and mammography. Images of other parts of the body are reproduced with the same precision. The 13.5bit integrated Look-Up-Table prevents the creation of artefacts, which could be otherwise caused by calibration. Picture data is displayed without blending gray scale colours together and without any loss, let of 13 771 grey scale colours for the precise display of grey tones.
- u Sensor for maintaining a constant brightness and even backlight automatically

medical imaging



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Main features

Exceptional picture quality First class picture quality is achieved thanks to its high resolution of 2048 x 2560 pixels, 800:1 contrast ratio and maximum brightness of 700 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 grey are well visible.

Precise display of grey scale colours

Grey scale colour reproduction is controlled by the internal 13.5bit LUT (Look-Up-Table), enabling the use of up to 13 771 grey scale colours. Thanks to this, no-loss calibration (e.g. DICOM tone curve) and no-loss brightness distribution regulation is possible. A total of 4096 grey scale colours can be displayed simultaneously.

Automatic brightness distribution regulation DUE 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 13.5bit LUT.

DIN V 6868-57 standard 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. RadiCS uses this brightness stabilization sensor also for calibration.

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	5 megapixels, grey scale colours
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)	338 mm x 422 mm (portrait)
Viewable image size - diagonal	540 mm
Ideal and recommended resolution	2048 x 2560 pixels
Pixel pitch	0.165 mm x 0.165 mm
Max. displayable grey scale colours	13771 / 4096 simultaneously (13.5/12 Bit)
Gray scale calibration	Yes
Brightness stability measuring	Yes
Max. brightness	700 cd/m ² (typical)
Recommended brightness	500 cd/m ²
Max. contrast	800:1 (typical)
Max. Viewing angle	Horizontal: 170°; Vertical: 170°
Main features	SlimEdge design, 13.5bitová Look-Up-Table, automatic constant brightness regulation, automatic brightness distribution regulation, calibration of tone curves (e.g. DICOM) via RadiCS, automatic duration of use analysis, Backlight Saver, On-Screen Display, integrated power source
Adjustment functions	Contrast, brightness, picture position, resolution,
Horizontal frequency	Digital: 31.5 to 135 kHz
Vertical frequency	Digital: 19 to 61 kHz
Video bandwidth	Digital: up to 290 MHz
Viedo inputs	Display Port, DVI-D, Single and Dual Link
Power Management	DVI-DMPM
Max. input power	Max. 100 W, <1 W power save mode, network switch
Dimensions (W x H x D)	388 mm x 513–595 mm x 209 mm (portrait, with stand)
Net weight	10.1 kg (with stand)
Rotation / Tilt	35° right/left, 40° backwards
Height adjustability	82 mm
Standards	TÜV GM, CE (EN 60601-1, EN 60601-1-2)
USB interface	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 a maximum recommended brightness of 500 cd/m². EIZO guarantees this brightness for a period of 5 years or for 30 000 operating hours, which comes first.