



BOLDscreen 23

MR Safe LCD display for Patient Entertainment and 3T fMRI

BOLDscreen monitors are the ideal choice for new sites or those upgrading rear projection installations. They offer outstanding image quality for scientific applications and can also be used for patient entertainment during clinical scanning sessions.

BOLDscreen 23 is our most cost effective solution, yet still delivers a high quality full HD image. It's easier to set up than a projector, and requires no on-going maintenance. The monitor integrates with our audio system, eye tracker and the other *Made for fMRI* devices from our range.

Designed
for fMRI
by CRS

BOLDscreen 23

→ Practically perfect in every way

BOLDscreen 23 has a digital DVI input and can be driven just like the LCD monitor on your desk, with standard software tools.

However, unlike other “MRI compatible” monitors, BOLDscreen 23’s custom electronics deliver your stimulus direct to the screen - output is lag free and synchronous to the input video signal.

→ Easy to install & integrate

The 23” full HD display is designed to provide maximum field of view when sited at the rear of a 60cm bore and viewed via headcoil mounted mirrors.

An adjustable tripod is supplied as standard, and other stands and mounting options are available to suit your needs.

The power supply is MR Conditional, and can be installed within the scanner room. The fibre optic DVI video cable passes through the waveguide, to your computer in the control room.

BOLDscreen 23 can be used in conjunction with equipment from various other manufacturers, and integrates neatly with the eye tracker, audio system, response boxes and our other *Made for fMRI* accessories.

Display characteristics

23” 1920 x 1080 RGB LCD with fixed 60Hz frame rate.

8-bit resolution, up to 16.7 million colour display.

Light output is synchronous to the input video signal.

Digital DVI video input delivers high fidelity noise-free displays.

Edge Luminated WLED backlight, peak white up to 250cd.m⁻²

Typical contrast ratio 800:1

Typical grey-to-grey response time 5ms.

Normal switching frequency of the backlight is 66kHz.

Image can be flipped to correct for viewing via a mirror.

→ No interference with scan

BOLDscreen 23 has no observed effect on functional and structural MRI scans at 3T, even when located directly at the exit of the scanner bore, and no effect on the displayed image whilst scanning.

→ Other BOLDscreen models

- **BOLDscreen 24**
calibrated 24” display for fMRI up to 3T
- **BOLDscreen 32**
premium 32” 120Hz display for fMRI up to 7T
- **Display++**
32” desktop LCD display with equivalent characteristics to BOLDscreen 32, suitable for subject training in mock scanners (not MR-Safe)

Why choose BOLDscreen?

Visit our website to learn more about the attention to detail that sets BOLDscreen apart:

- Frequently Asked Questions
- Installed sites & customer testimonials
- Full specification & explanation of unique features
- Safety and emissions standards
- RF spike test & EPI test data
- Installation details & mounting options
- Integration with other equipment

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