



BOLDscreen 32 UHD

MRI in-room LCD display, safe for all MRI environments

We have engineered our BOLDscreen displays from the ground up for MRI compatibility.

- Easy, flexible installation and integration
- For fMRI, patient entertainment, and MRI-guided therapies
- No interference with the scanner no matter how close to the bore
- No ongoing maintenance requirements

Designed
for MRI
by CRS

BOLDscreen 32 UHD

Innovation from beginning to end

Featuring an Ultra High Definition 32" LCD display with wide colour gamut LED backlight and high-bandwidth HDMI, DisplayPort and USB C interfaces, the new BOLDscreen 32 UHD design is both easy to install in all MRI environments and compatible with any video source you want to use. For fMRI, patient entertainment, and MRI-guided therapies.

We have been creating MRI-compatible displays and other accessories in-house for more than 20 years; bringing the latest technologies and manufacturing advancements to deliver innovation at every level. The BOLDscreen 32 UHD system is much more than a stunning in-room UHD display; it features a slim, unibody construction that is easy to mount, dual patient monitoring cameras, robust bi-directional fibre optic interface and an integrated wireless hub that supports an entirely new range of synchronised MRI accessories.

→ Introducing the new AVI Hub

In a busy MRI centre everyone needs something different to appear on the display.



We have engineered a compact audio-visual hub that makes it simple to connect multiple sources, switch between them at the touch of a button, and controls the two way data streams flowing through the BOLDscreen 32 UHD display.

→ Support for wireless accessories

The BOLDscreen 32 UHD in-room display has an integrated wireless hub which supports a new range of synchronised wireless MRI accessories made exclusively by Cambridge Research Systems.

The hub makes it easier than ever to give your participants devices to interact with inside the bore.

The optional ergonomic, four button response box emulates a USB 2 button mouse with scroll wheel.

Just like your TV remote control, the response box is very low power and does not need frequent recharging.



→ No RF noise

What matters most? No RF noise and no reduction in SNR. BOLDscreen 32 UHD produces no observed effect on functional and structural MRI scans, even when located at directly at the exit of scanner bore, and there's no interference effect on its stunning displayed image whilst scanning, no matter the sequence you want to run.

→ Easy to install & integrate

BOLDscreen 32 UHD is designed to provide maximum field of view when sited at the rear of the bore.

It is easy to wall or ceiling mount or can be supplied with a trolley, according to your needs.

The fibre optic video cable passes through the waveguide, to the interface unit in the control room, and DC power is supplied via the filter panel.

BOLDscreen 32 UHD can be used in conjunction with equipment from various other manufacturers, including MRI-guided radiotherapy systems.

→ Display characteristics

- 32" 3840 x 2160 wide colour gamut 4K UHD LCD with 60Hz panel drive.
- Native 10-bit colour resolution.
- Light output is synchronous to the input video signal.
- Digital video input delivers high fidelity noise-free displays.
- Peak white up to 500cd.m⁻²
- Static contrast ratio of 3000:1 (measured with the backlight on; [1 1 1]:[0 0 0] RGB contrast ratio)
- Automatic compensation of brightness for temperature and ageing.
- Image can be flipped to correct for viewing via a mirror.

Cambridge Research Systems

Tel: +44 1634 720707

USA/Canada Toll Free: 1 866 846 2929

Email: enquiries@crsltd.com

www.crsltd.com

For more details:

www.crsltd.com/boldscreen32UHD



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