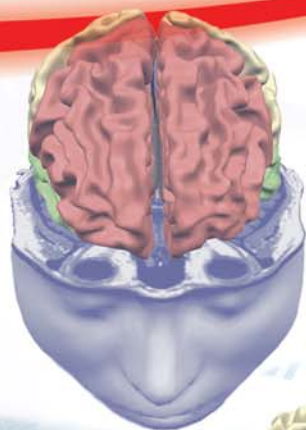




CAMBRIDGE RESEARCH SYSTEMS



**MRI-Live!**

**faster**  
tracking

**wider**  
vision

**higher**  
resolution

# MRI-Live!

MRI-Live! is an integrated video display and eye tracker for fMRI made by Cambridge Research Systems. Its novel design incorporates a unique combination of technologies to provide the ultimate tool for human brain mapping:



## 90 degree field of view, stereoscopic display

- Two high resolution 1280x1024 pixel, high contrast, full colour digital displays combined with a novel zoom optic projection arrangement create a truly immersive environment in the scanner.
- Double the field-of-view and spatial resolution compared to other solutions.
- Independent displays for each eye support the full range of binocular, binocular and stereoscopic stimulus presentations.
- Dual DVI inputs for complete compatibility with standard graphics cards on any platform.
- No proprietary graphics hardware or software required. Use Presentation, ePrime, Psychtoolbox or any custom stimulus software system.

## Fully integrated, high performance video eye tracking

- Proven CRS technology provides robust, high speed, drift free, video eye tracking synchronous with the stimulus.
- 250Hz in one eye, better than 0.1 degree resolution and 0.25 degree accuracy.
- Comprehensive Toolbox for MATLAB provided to support integration with experimental software.
- Supports automatic synchronization with the scanner triggers and third-party equipment.
- Also available in a stand-alone head-fixed configuration for use in regular laboratory studies.

## MRI compatible

- Remote electronics, screened non ferromagnetic enclosure and fibre optic I/O interface to the stimulation and control computers guarantee compatibility with the scanner.
- Tested for use in 1.5T and 3T systems.

## No susceptibility artefacts

- Passive MRI-compatible components at the head coil ensure high quality scans.
- Designed for use with the High Resolution Head Array coils in GE, Siemens and Philips whole body scanners.

## Rapid deployment and setup

- A large image, close to the eyes with drop in ophthalmic lenses and a simple, quick eyetracker calibration procedure mean a better experience for the subject and a more productive time in the scanner. We realise that scan time costs money!

## Above all, a scientific tool

- Originally developed by Cambridge Research Systems for Decisions in Motion: a Cognitive Systems Specific Targeted Research Project (STREP) of the 6th EU Framework Programme for Research and Technological Development.
- Installed first at the University of Regensburg in Germany, with reference sites coming soon in the UK, USA and Japan.

Display	Two independent digital displays, DVI inputs
	1280x1024 pixels in each display 3 x 8 bit colour from independent RGB LEDs 60Hz native mode, with fixed 1 frame latency 400:1 contrast ratio
Field of view	±25° to ±45° horizontal, ±20° to ±36° vertical
	Zoom optics with drop-in ophthalmic lenses for cylinder correction Built-in IPD adjustment
Eye tracking	Up to 250Hz video eye tracking in one eye
	Accuracy 0.25°, resolution 0.1° Other sampling rates from 60Hz upwards can be configured Trigger input from scanner, visual stimulator or other devices for synchronisation
Mechanical compatibility	Designed for use with 8 channel head coil
	All optical components fit on top of the head coil, so subject head size does not limit compatibility with the equipment Initially supplied for use with Siemens, Philips and GE high resolution head array coil (1.5T & 3T) Requires whole body scanner

Visit [www.mri-live.com](http://www.mri-live.com) to learn more about the new technology and see how you can take advantage of its benefits in your fMRI study.

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