

## MR-Compatible Cameras

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### Overview

MRC's video cameras have been developed for the use inside the gantry or anywhere in the intervention room of an MRI scanner. They have been tested in different environments ranging from 0.23 to 9.4 T. We can equip the cameras with various lenses to optimise the field of view, magnification, and working distance for your application.



12M camera



CS camera with variolens

### Typical applications

- Video observation/correlation in functional MR imaging.
- Eyetracking/observation in magnetic resonance imaging systems.
- MRI diagnostic in pediatrics.
- Room monitoring.

The standard module is very small and fits into almost any application. If you prefer having a distance between camera and object, a vario lens is recommended. See the specification examples below for details.

The video cameras can be connected to a TV set, a VCR, or a video / frame grabber card in a PC. The camera module is based on a 1/3" b/w sensor in an MRI-compatible housing. Colour versions are also available.

## Specification

output	EIA 60 Hz / CCIR 50 Hz half frame @ 75 ohm
sensitivity	0.2 Lux for f#1.2
supply	DC 6-9 V, 200 mA

<b>Camera "12M" (standard)</b>	(to be used inside the bore)
focal length	selectable from 2.5 mm to 25 mm
lens connector	M12 x 0.5 mm
module size	28 mm x 18 mm; height ~30 mm
weight	22 g

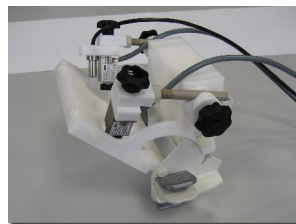
<b>Camera "CS" with vario lens</b>	(for monitoring subjects from a distance)
focal length	6 - 60 mm
lens connector	CS mount
module size	36 mm x 36 mm; height ~125 mm
weight	325 g

NTSC and PAL versions are available.

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## Mounting options

The following pictures show different examples of camera holders for positioning our cameras in the MRI, at the headcoil, or at the wall. We can also realize customized solutions.



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## White/IR light sources

As an additional accessory we offer a flexible light source for MR compatible white or infrared illumination. The product is based on a compact LED that can be used e.g. as an illumination for eye-tracking. The light source can be ideally combined with the "12M" camera. Please check the [manual](#) for more information.



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## Image examples



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## Manuals

- Product information (flyer)
- Manual Camera "12M"
- Manual Camera "CS" with vario lens
- Manual LED light source
- Manual Articulated arm holder
- Manual Balljoint holder
- Manual Tripod adapter

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Work in progress. Subject to change without prior notice.

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