

# A Mocap camera for MR environment

Electromagnetic radiation from unshielded electrical devices may interfere with the MR scanner, resulting in degraded imaging results. Qualisys' Arqus MRI camera is completely electromagnetically shielded, effectively creating a Faraday cage, and is therefore suitable for use in an MR environment.

## A UNIQUE LABORATORY SETTING

Qualisys dedicated MR-compatible motion capture cameras provide the unique opportunity to capture information about human and object motion within MR environments for applications such as identifying motion artifact, quantifying stimuli and physiological responses during imaging, and ensuring repeatable joint positioning for structural investigations.

Arqus MRI cameras work with Qualisys Track Manager (QTM) software - an intuitive and straightforward tracking software. The system can be used in combination with other dedicated MR-compatible equipment, for measuring eye movements and controlling a force manipulandum.

## KEY FEATURES

- Electromagnetically shielded
- Housing in aluminum and non-magnetic stainless steel fasteners
- MRI shielded cables and connections
- MR-compatible calibration kit
- Optical fiber cable from cameras to computer
- High resolution to capture small markers
- Real-time visualization with <10ms latency
- Direct export into MATLAB and other programs



### Arqus Protected

The MRI camera with protected housing is built to be used in the MR environment.



### MRI Mounting

Motion capture cameras are mounted on MR adapted wall mounts on the wall for safety and protection.



### Configuration

A five-camera setup can capture head, arm and hand movements inside an MRI room.

## REAL-TIME READY



Real-time tracking and preview allowing instant feedback



Real-time automatic identification of markers (AIM) with frame-rate-independent performance



Real-time streaming of 2D, 3D, and 6DOF data into 3rd party software

## TECHNICAL SPECIFICATIONS

Normal mode (full FOV)	Pixels	9 MP
	Resolution	4224 × 2160
	Frame Rate	300 fps
Field of View (FOV)	Standard	67° × 37°
	Narrow	47° × 25°
	Wide	82 × 48°
Size	132 × 143 × 126 mm (5.2 × 5.6 × 5")	
Weight	1.9 kg (4.2 lbs)	
Measurement distance with 4 mm markers	5 m (16 ft)	