Qualisys MRI-compatible motion capture system

Electromagnetic radiation from any electrical device interferes with MR signals resulting in bad data. Our MRI camera is completely electromagnetically shielded, effectively creating a Faraday cage, and is therefore suitable for use in an MR environment.

In combination with other dedicated MR compatible equipment for measuring arm movements, eye movements and controlling a force manipulandum, Qualisys MR-compatible motion capture equipment form a unique laboratory setting for functional imaging of action.

FEATURES

- Electromagnetically shielded
- MRI shielded cables and connections
- MRI compatible calibration kit
- Sensor resolution: 4, 12MP
- No hub or workstation needed
- Single cable from cameras to computer
- Customized mounting solutions
- High frame rates at full resolution
- Real-time visualization with <10ms latency
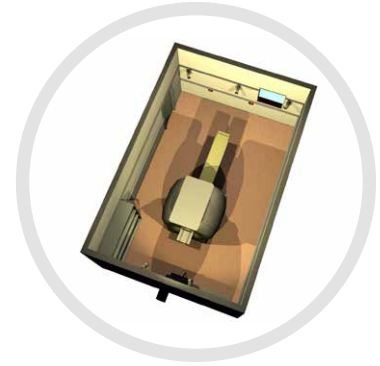- Direct export into MATLAB and other programs

Video and MRI
The MRI camera can be used in synchronization with video to visualize the 3D data.

MRI mounting
Cameras mounted on customized rail heights on the wall for safety protection.

MRI environment
A five camera setup to capture both head, arm and hand movements in an MRI room.

EASE OF USE

The MRI camera and software package is versatile and easy to use. The cameras have a large, high-contrast OLED display showing information such as the number of markers in view and their intensity. The software, QTM (Qualisys Track Manager) is intuitive and straightforward – designed with the end-user in mind. With the AIM (Automatic Identification of Markers) function in QTM your identified file is just a few clicks away.

REAL-TIME READY

- Real-time tracking and preview allowing instant feedback
- Real-time AIM (Automatic Identification of Markers) with frame-rate independent performance
- Real-time streaming of 2D/3D/6DOF data into 3rd party software

MRI MODELS[1]

		5-SERIES	7-SERIES	COLOR VIDEO
Normal Mode (Full FOV)	Pixels	4 MP	12MP	2MP
	Resolution	2048 x 2048	4096 x 3072	1920 X 1080
	Frame	180fps	300 fps	337 fps
High Speed Mode (Full FOV)	Pixels	1MP	3 MP	0.5 MP
	Resolution	1024 x 1024	2048 x 1536	960 X 540
	Frame	360 fps	1100 fps	665 fps

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