

BEREICH SPORTWISSENSCHAFT

Laboratories

Our two laboratories are located on the campus Zschokkestraße 32 in Magdeburg. We have various devices and software for our research questions regarding anticipation skills and virtual reality in sports. For the creation of virtual worlds we use:

- ▶ HTC VIVE
- ▶ HTC VIVEPro Eye
- ▶ Pimax Vision 5K Super
- ▶ 2 Meta Quest 3
- ▶ 4 VIVE Trackers 3.0
- ▶ 3 VIVE ULTIMATE Tracker
- ▶ 4 base stations 2.0, 2 base stations 1.0
- ▶ Pimax Eye Tracking Module
- ▶ PC 1: Intel Core i7 CPU, 16 GB RAM, 512 GB SSD, Nvidia GTX 1080 8 GB
- ▶ PC 2: Intel Core i7 CPU, 32 GB RAM, 1 TB SSD, 1 TB HDD, Nvidia RTX 4080 16 GB
- ▶ Unity (Unity Technologies)

We use the following motion capture system and software to capture the movements we use to animate our virtual athletes:

- ▶ Vicon Nexus (Oxford, UK) with 13 infrared cameras (120 Hz).
- ▶ Vicon Shogun 1.3 (Vicon, Oxford, UK)
- ▶ Vicon Pegasus 1.2 (Vicon, Oxford, UK)
- ▶ Vicon Tracker
- ▶ PC components: Intel i7 CPU, 32 GB memory, 512 GB SSD, K2200 Quadro 4 GB



