

Tracking system for virtual reality

VR system

- Passive one-sided powerwall for stereoscopic display
- 2x beamers in top/bottom arrangement

Tracking unit

- Arttrack 2 System from ART Weilheim
- 2 cameras with IR flash
- Max. tracking distance: 4.5 m
- Focal lengths: $f = 2.6 \text{ mm}$ and $f = 3.5 \text{ mm}$
- Effective measuring field:
 - $88^\circ \times 58^\circ$ ($f = 2.6 \text{ mm}$)
 - $67^\circ \times 45^\circ$ ($f = 3.5 \text{ mm}$)
- Interaction devices:
 - FlyStick
 - Finger tracking
 - Hybrid suit

Fields of use / application

- Stereoscopic visualisation of technical systems
- Layout planning
- Installation studies, collision studies
- Ergonomics analyses, design of ergonomic workplaces

