VIRTUAL & AUGMENTED REALITY APPLICATIONS

FLANDERS MAKE
DRIVING INNOVATION IN MANUFACTURING

OPTRITRACK MOTION CAPTURING

Location: FlandersMake@UHasselt

DESCRIPTION

A precise and professional motion tracking system from Optitrack, consisting of more than 10 cameras and specialised software to perform flexible human movement analysis.

In the Expertise Centre for Digtal Media, this setup is used to:

1. perform research into how humans interact with machines and robots on various scales
2. implement and test low-latency and wide-area Virtual and Augmented Reality applications

In addition, our infrastructure is equiped with depth cameras (various Kinects) and room-scale HTC Vive Pro Steam VR 2.0 tracking equipment.

TECHNICAL SPECIFICATIONS

OptiTrack Flex 13 tracking system:

- Resolution: 1280x1024
- Frame rate: 120FPS
- Input/output: USB 2.0

HTC Vive Pro with Steam VR 2.0 tracking system:

- Resolution: 2160x1200
- Refresh rate: 90Hz
- Headset with 110° field of view
- 32 sensors for precise tracking
- 2 wireless controllers with HD haptic feedback, dual-stage triggers and multi-function trackpads
- Each controller features 24 sensors for 360° one-to-one tracking

OUR OFFER

Our Expertise Centre for Digital Media offers this motion capturing infrastructure as a tailored service through consultancy.

INTERESTED?

Contact contact_EDM@flandersmake.be for more information.