



## Motion capture and virtual reality platform

This laboratory is equipped with a state of the art multi-camera motion capture system, various devices for virtual reality immersion, and sporting equipment, ideal for testing wearable robots, body sensor networks and life assistance robots.

User studies in a virtual or real environment can be coupled with an EEG measurement system and motion capture in an open space environment.

### Key Features

- High precision and high frequency
- Multimodal sensor data recordings (16 wireless IMU-EMG sensors)
- Oculus VR goggles & Kat VR platform
- EEG cap for brain signal acquisition

### Possible Applications

- Virtual reality
- Robotic movement recording and analysis
- Gait analysis
- Human Motion Analysis



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## Access information

<b>Corresponding infrastructure</b>	Imperial College London The Hamlyn Centre
<b>Location</b>	Bessemer Building, Kensington, London SW7, UK
<b>Unit of access</b>	Working day

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## Technical specifications

<b>10*Vicon Vero 2.2 cameras</b>	2.2MPX@330FPS
<b>1*Vicon Vue camera</b>	720p@120FPS or 1080p@60FPS
<b>Markers</b>	50*14mm, 50*9.5mm
<b>Wireless IMU-EMG</b>	16*10-Channel (1-ch EMG, 9-ch IMU)
<b>g.tec g. Nautilus wet EEG cap</b>	32 channels, 250 Hz, compatible with LSL
<b>g.tec g.Nautilus dry EEG cap</b>	16 channels, 250 Hz, compatible with LSL



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## Additional information

Vicon Vero + Tracker Installation Tutorial:

<https://www.youtube.com/watch?v=2QRI2zzwhRk&feature=youtu.be>