



## Markerless Motion Tracker

### General description

The Continental Engineering Services (CES) markerless Motion Tracker combines experienced Automotive Driver Assistance System (ADAS) technologies with medical use cases. Its key feature is the tracking of the human body without any markers, specific environments or specialized cameras. And all of that just with only using two or three standard cameras. With the extraction of 3D Coordinates of the human joints, you can use the system in various situations. For example, measuring the angles in the joints enables you to extract metrics from the data, providing a great use for diagnosis. The best part is that only a couple of minutes are required to setup the system in a new environment. The intuitive design of the user interface (UI) makes it easy to understand and use. Markerless, adaptable, lightweight, portable and ambulant, this is our Motion Tracker.

### Customer Benefits

- › Markerless motion tracking of the human body
- › 3D Coordinates of the human keypoints with front- and sideview
- › Analysis of angles in the joints, frontal and sagittal
- › Extremely fast setup
- › Easy to use (no professional required)
- › Lightweight transportable system
- › No special studio needed

### Technical Information

- › Nvidia Jetson AGX Xavier
- › CPU: 8x Core ARM-v8.2-64-Bit
- › GPU: 11 TFLOPS (FP16)
- › 2xDLA: 5 TFLOPS (FP16)
- › Wifi and Bluetooth support
- › GUI over Wifi capable
- › Supports up to 3 Cameras
- › Performance: Online ~20fps (Offline: unlimited)

### Realtime Simulation

