LIMESS
MESSTECHNIK & SOFTWARE

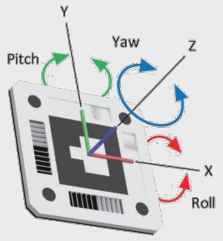
6 DOF marker powered by
Photron

LIMtrack-6D | 3D motion tracking with a single camera

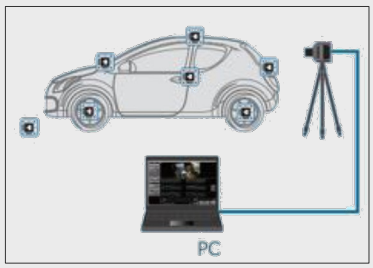
Technique | *innovative*

One camera and the LIMtrack-6D software measure 3D coordinates and 3D angles of **coded markers**.

- ✓ 6 degrees of freedom (DOF)
- ✓ 32 different IDs (coded marker)
- ✓ Accurate angle measurements



6 DOF marker

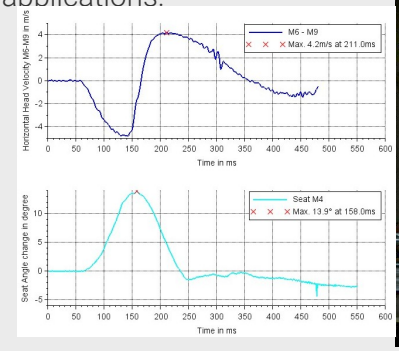


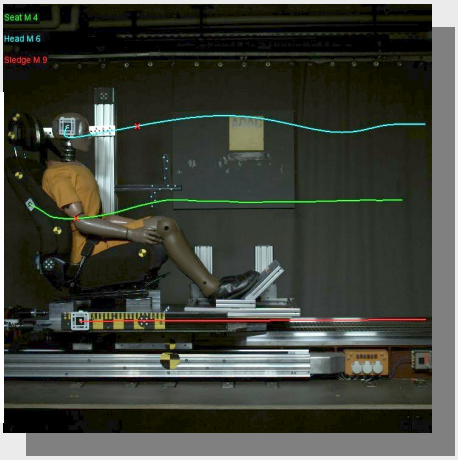
3D Setup with a single camera

Applications | *flexible*

3D motion analysis for static and dynamic applications:

- Automotive safety testing
- Vehicle impact testing
- Biomechanics
- Robotics
- Deformation measurement
- Mechanical & structural testing
- Aerospace and Defense
- Weapons testing



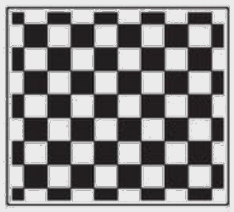


Wiplash test measurement

Software | *efficient*

LIMtrack-6D is easiest to use and accurate. It measures coordinates, displacements, velocities, accelerations, angles, etc. and generates meaningful visualizations as diagrams and videos.
The application specific analysis modules perform automatically calculations and visualizations and are based on a integrated powerful scripting. Complex analysis processes can be done quickly and reproducable. The application modules can be self scripted by the user or by LIMESS support.
The LIMtrack-6D software provides

- ✓ Quick and fully automatic camera calibration process
- ✓ Automatic marker tracking
- ✓ Automatic post processing, calculations, visualization
- ✓ Analysis modules for application specific measurements
- ✓ Data export e.g. ASCII, ISO standard, etc.
- ✓ The integrated scripting kernel allows customized analysis


Board for 3D camera calibration

Hardware & software & service

We provide

- ✓ LIMtrack-6D software and 6D marker
- ✓ Application specific post processing modules and development
- ✓ Coded markers in sizes from: 20x20mm to 200x200mm
- ✓ Calibration plates for areas of 20x20mm to 5x5m
- ✓ Cameras, lenses
- ✓ Turnkey imaging and realtime measurement systems
- ✓ Service measurements

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