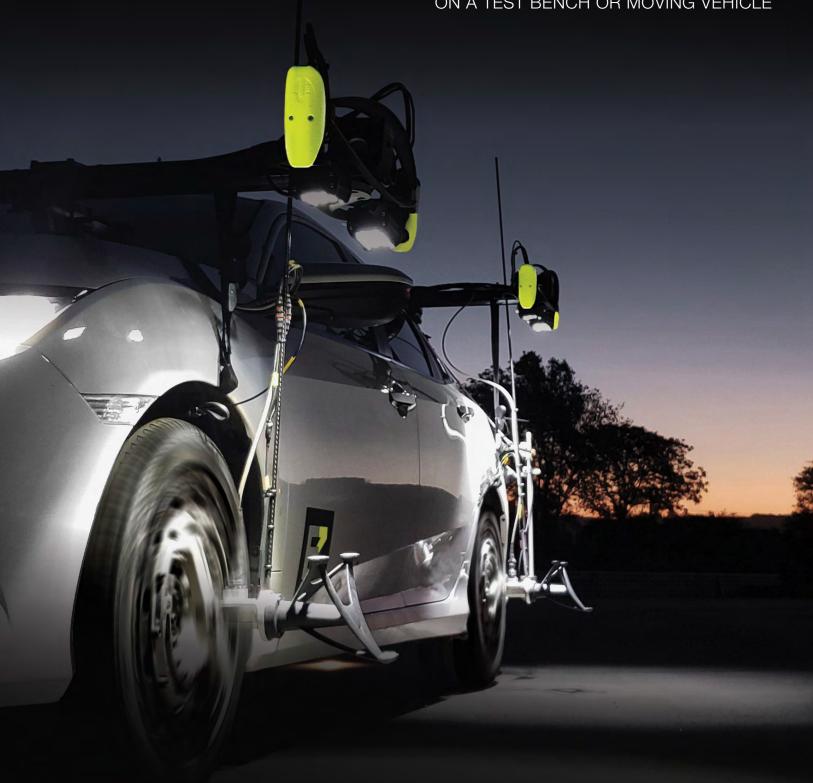


HIGH-PERFORMANCE KINEMATICS AND COMPLIANCE
MEASUREMENT SYSTEM BASED ON HIGH-SPEED STEREO
VISION TECHNOLOGY FOR ACCURATE MOTION CAPTURE
ON A TEST BENCH OR MOVING VEHICLE













- Position and angle measurement
- Unlimited recording time
- Rugged, lightweight solid-state system
- Drive-ready and shock-resistant
- Multiple input/output options
- Expands the capability with analog input/output and additional sensors such as GPS and slip angle

APPLICATIONS

- Kinematics and Compliance
 - Road Tests
 - Test Rigs
- Wheel Packaging
- Engine Packaging
- Drivability and Handling Dataset Development

FEATURES

- Simple touch screen control
- Step-by-step setup
- Real-time status feedback
- Immediate numerical and graphical reporting
- Template for testing procedures
- Data export in CSV file format



SPECIFICATIONS

| Output | One or Multiple 6D objects XYZ, IJK |
|--------------------|-------------------------------------------|
| Acquisition Speed | Up to 500 Hz |
| Position Accuracy | 0.07 mm (Traceable) |
| Angular Accuracy | 0.013 deg (Function of Spatial Placement) |
| Measurement Volume | 8 mm Lens, 900 x 900 x 500 mm |
| | 12 mm Lens, 800 x 600 x 500 mm |
| | 26 mm Lens, 400 x 200 x 500 mm |
| Weight | 3 kg |
| Power | 12V, 3A |
| Camera Dimensions | 600 x 120 x 90 mm |

PAPPLICATION FRIENDLY

- Small overhang mounted close to the chassis for stability and drivability
- Up to 4 units per controller
- Integrated illumination for all weather and lighting conditions
- Wobble compensation
- Multiple alignment and referencing procedures
- Optimal data processing with merged algorithms to simplify export
- Lens options to adjust system for optimal image volume and accuracy
- Lightweight wheel probe for optimal accuracy and minimal reactive
 mass.
- Lightweight engine probes
- Includes universal mounting kit
- Suction cup or bolted mounting options

SIMULATION

- EZMotion data collected from track and road driving conditions with natural loads can also be collected with multi-post test rigs, allowing a direct comparison of test-rig results to real-world driving conditions, demonstrating a crucial role for EZMotion in the development of drivability and handling.
- EZMotion track data can be used in predictive simulations and enhance the understanding of physical constraints, providing a path to develop future simulation models.

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