

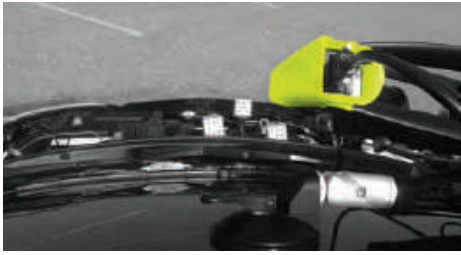


NX EZMOTION

TIRE DYNAMICS

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





★ TECHNOLOGY

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

☐ APPLICATIONS

- Kinematics and Compliance
 - Road Test
 - Test Rigs
- Wheel Packaging
- Engine Packaging
- Closed Loop Drive File Development

+ FEATURES

- Simple touch screen control
- Step-by-step setup
- Realtime status feedback
- Immediate numerical and graphical report
- Template for testing procedures
- Data export in spindle, CSV or other file formats



🔑 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 Special 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 500mm
Weight	3 kg
Power	12V, 3A
Camera Dimensions	600 x 120 x 90 mm

👤 APPLICATION 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
- Optional data processing, merging algorithms to simplify export
- Lens options to adjust system for optimal 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 is collected in real driving situations on track or road under natural load conditions. EZMotion will collect the same information on multi-post test rig and be a crucial part in the development of the drive file. This method is a clean evaluation of the realism of test rig.
- EZMotion real track data can be used in predictive simulation and enhance the understanding of the constraints or the physical effects. Providing a path to develop future simulation models.