



# EZMOTION

Portable. Flexible. Reconfigurable

Optical measurement solutions for numerous aerospace applications



Static or Dynamic Deformation of Components  
Vibration analyses



Hydraulics control loop  
Component testing



Kinematics System Performance



Motion Control Verification  
Guided Assembly

Load Testing  
Seal Gap





## ★ TECHNOLOGY

- Stereo Vision Technology for high accuracy
- Passive Optical Trackers for 3D Position or 6D Position/Angle measurement
- Unlimited recording time
- Rugged, light weight and solid-state system
- Different Volume/Accuracy/Speed configurations available to meet requirements
- IP68 Option
- Camera Network Option for large volume, high accuracy

## ⊞ APPLICATIONS

- Static or Dynamic Deformation under load
- Vibration Analyses
- Tracking of Multiple Objects simultaneously
- Determine Relative movement
- Hydraulics motion control
- Derive Speed, Settling Time, Acceleration...

## ⊕ FEATURES

- Simple controls
- Multiple input/output options
- Expands the capability with analog in/output and additional sensors such as GPS and slip angle
- Real-time status feedback
- Immediate numerical and graphical report
- Template for testing procedures
- Data export in CSV or other file formats



## 🔑 SPECIFICATIONS

<b>Output</b>	One or Multiple 6D objects XYZ, IJK
<b>Acquisition Speed</b>	Up to 500 Hz
<b>Position Accuracy</b>	0.07 mm (Traceable)
<b>Angular Accuracy</b>	0.013 deg (Function of Special Placement)
<b>Measurement Volume</b>	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
<b>Weight</b>	3 kg
<b>Power</b>	12V, 3A
<b>Camera Dimensions</b>	600 x 120 x 90 mm

## 👤 APPLICATION FRIENDLY

- Easy to install for portable applications
- Integrated illumination for all lighting conditions
- Multiple alignment and referencing procedures
- Optional data processing, merging algorithms to simplify export
- Lens options to adjust system for optimal volume and accuracy
- Lightweight industrial grade Tripod
- Adhesive trackers, available in different sizes and adhesion level

## 👤 SIMULATION

- EZMotion data is collected simultaneously during testing.
- EZMotion can be used as a control system in the development of drive or test program for test benches.
- EZMotion data can be used as feedback into simulation and enhance the understanding of the constraints or the physical effects. Providing a path to develop future simulation models.