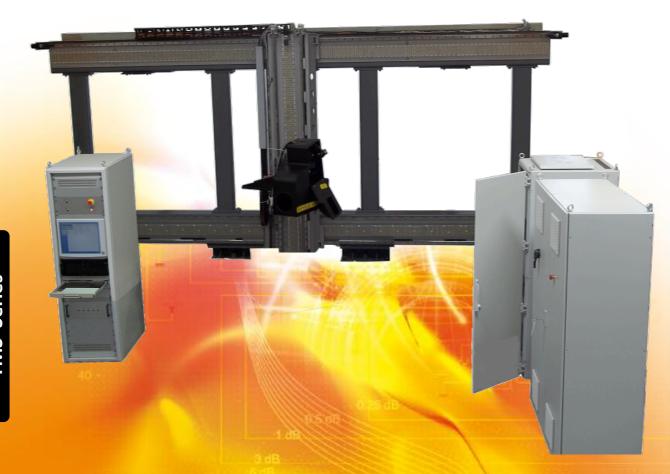
## iXMotion 4-Axis Target Motion Simulators TMS Series 2-Axis X-Y linear Axis 2-Axis Swiveling Platform with embedded collimator



**IXMotion** multi-axis motion simulators **TMS Series** are dedicated to perform evaluation of different electro-optical tracking/surveillance systems. It has been designed to insure coupled motion in direction of customer UUT located in the TMS room.

The IXMotion TMS-040 system is a four axis dynamic Target Motion Simulator with two linear and two rotational axes.

All IXMotion multi-axis motion simulators TMS Series use the unrivalled IXMotion Multi-Axis ProAxe\* Controller and are managed by the user-friendly IXMotion Multi-Axis ProAxe Software.

All ixMotion multi-axis motion simulators **TMS Series** work in local mode, in remote control mode and in real time (Hardware-In-the-Loop HWIL capabilities with servo loop up to 500 µs).













TARGET MOTION SIMULATOR

**COMMAND & CONTROL CABINETS** 

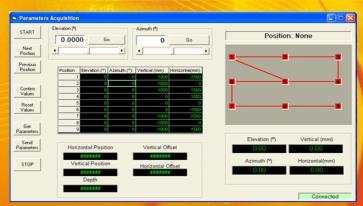
**COMMAND & CONTROL CONSOLE** 

## 4-Axis Target Motion Simulator TMS-40 Series 2-linear Axis X-Y & 2-Axis Swiveling Platform

- Wall available: width of 7.3 m, height of 3.2 m and depth of 1.4 m
- Axis 1 swiveling platform elevation maximum range from
- -6 deg to +8.5 deg
- > Axis 2 swiveling platform maximum range from -34 deg to +27,5 deg
- Axis 3 Y vertical translation of ±1000 mm
- Axis 4 X horizontal translation of ±3000 mm
- Position accuracy X,Y of 1.5 mm
- Position repeatability X,Y of 0.25 mm
- Maximum velocity in X,Y direction of ±1 m/sec
- Minimum velocity in X,Y direction of ±1 mm/sec
- Peak acceleration in X,Y direction of ± 10 m/sec²
- Angular accuracy for swiveling platform < 0.05 deg</p>

## iXMotion embedded collimator

- Collimator with focal length of 1000 mm, diameter of 255 mm and aperture of 230 mm
- ➤ Motorized wheel and iris with its control electronics
- Set of diaphragms from 0.25 to 20 mrad
- Visible source with motorized control of the luminance
- & infrared source with motorized control of temperature
- > Total weight of collimator with sources of 45 kg
- Following settings are managed through ProAxe Software in local and remote modes:
- ✓ Size of the target
- √ Target parameters settings
- ✓ Blackbody temperature
- ✓ Power ON/OFF procedure & maintenance position
- ✓ Detection of visible or IR source
- ✓ Light control of the visible source
- > Real-Time operation / HWIL with servo loop up to 500 μs
- ProAxe\* Multi-Axis Controller and Software
- > Control and command of embedded mounted system through ProAxe\* Multi-Axis Controller and Software
- Target Motion Simulator TMS Series can be used with Flight Motion Simulator FMS Series
- > iXMotion controlled collimators are proposed depending on customer specifications
- > System Integration-Bench is provided as a turnkey solution with validation of both mechanical & optical performances



Adjusting pivot point through iXMotion Multi-Axis ProAxe Software



\* Patent pending

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