

DT-3 LightGage™ Detector System for 2 Plane Optical Position Sensing and Measurement

Used for manufacturing and laboratory applications – Flatness and straightness, machine tool travel alignments, roller alignment, parallelism and X, Y beam movements.

This is the perfect system for dovetail way and stage alignment in 2 planes, machine and fixture alignments, shaft deflection and run out indications, positioning mating pairs during mold, die and injection operations, laboratory tests and measurements.

- Complete DT-3 LightGage™ Detector System Includes:
- LightGage™ Sensor with Internal Magnets
- LightGage™ Software Suite and 19.5 VDC power supply
- AP1000 Leveling Adapter Plate
- AP94 Mounting Bracket with Hardware
- AP353A Magnetic Mounting Base 5" Long
- 1-14' and 3' Ethernet cables
- 1 – Power Over Ethernet (PoE) Portable Battery Supply with charger and shoulder strap
- 1 - Pelican™ Hard Shell Carrying Case (22"x18"x10" – 35lbs)

**FULL SIZE LAPTOP PROVIDED,
LOADED WITH LATEST TECHNOLOGY!**



HOW IT WORKS

When powered on, the LightGage™ System compensates for ambient light conditions and displays the exact position, center and power of the laser beam striking the electronic detector. Pressing the zero button on the software will set the readouts. Now any movement of the sensor unit or laser beam will be displayed on the laptop. It's that simple!



SPECIFICATIONS: MODEL DT-3, LIGHTGAGE™ DETECTOR SYSTEM

Measurement Distance: 0-100 ft. **Measurement Range:** +/- .250" in X & Y Planes
Resolution: .0001"* **Accuracy:** +/- .001"* **Speed:** 3 Millisec.
Power Requirement: 2 – 110VAC Power adapters for PoE and Computer
Dimension/Weight: Sensor – 7 1/2" (190.5mm)x 1 3/4" (44.45mm), 1Lbs, 3 oz. (539 grams)

- 2 Plane Sensor – See movement in both X and Y planes down to .0001"
- Easy Setup – Laser beam provides a visual plane of reference for sensor and accessory line ups.
- Reads in both Metric and Mils.

* The overall resolution and accuracy of the DT-3 LightGage™ Detector System is dependent upon the application, environment and setup. Atmospheric conditions affect stability and long distance measurements have a greater error percentage.

MODEL L100M MX LASER PRECISION LEVEL™

- 635 nm, Class IIIa Diode Laser
- Collimated Beam: Divergence <.15mrad
- Power Requirement: : 2 – DL123A 3V Lithium Photo Batteries
- Level Vial: 5 minutes of arc., Backlite —Accurate to +/- 1/8" @ 100'
- Dimension: 9 1/2"L x 1 1/8"H x 1"W" (241.3mm) x (28.58mm) x (25.4mm)

MODEL AP1000 LEVELING ADAPTER PLATE

- Horizontal Accuracy: .1° with Vernier and tangent screw
- Vertical Accuracy: .003° with micrometer adjustment
- Horizontal Vial: 30 Minutes of Arc

