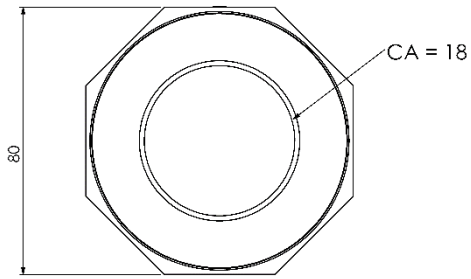
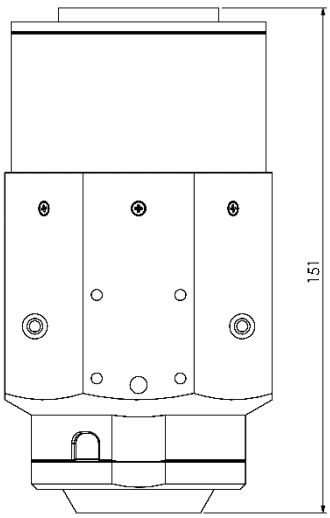
AngleMeter LA

Large Aperture – 25 mm focal length

AngleMeter LA measures laser beam deviations with respect to housing (in mRad), by monitoring the beam angle in two orthogonal directions. The new instrument meets customer's requirements for a variety of optical testing, both for laboratory and production floor. Equipped with a large input aperture lens and a high-accuracy detection capability (provided by PSD type detectors), the system measures minute deviations in a relatively large field of view.





Main Features:

- Monitoring laser beam deviations with respect to the housing in two orthogonal directions
- Relatively large input aperture (about 18 mm)
- Real-time display of angle & power
- Direct data logging to Excel files

Main Applications:

- Monitors beam angles, such as produced by MEMS' mirrors
- Wobble measurements
- Measurement of pointing stability of Gimbal heads
- General alignment of optical & mechanical systems

Main Specifications:

Spectral Range	350 – 750 nm (Si version), 750 – 1100 nm (IR version)
Measuring Range	+/- 10 degrees (both axes)
Accuracy	Better than 50 millidegree
Resolution	Better than 5 millidegree
Interface	USB 2.0 & Analog
Lens	25 mm

DUMA OPTRONICS LTD.

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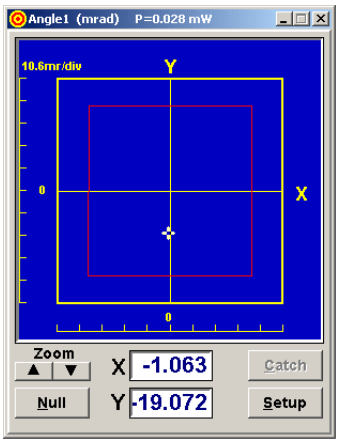
November 2017

AngleMeter LA

Large Aperture

Typical Screen Presentation:

Angle

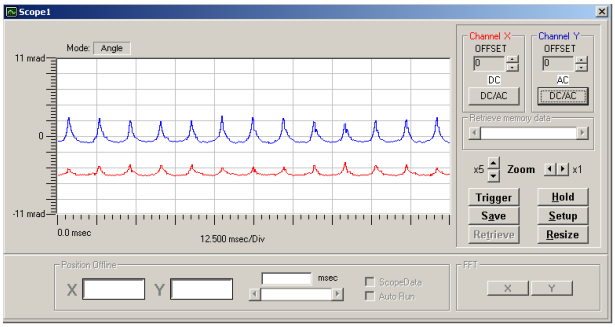


Real Time display of X,Y beam angle.

Features:

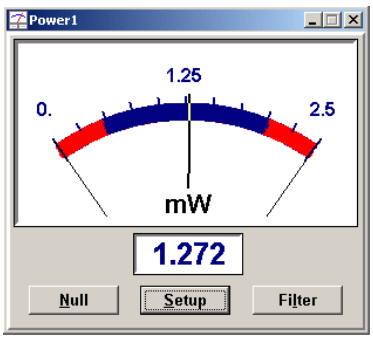
- Set relative center
- Perform zooming
- Alarm settings
- Average

Scope



A simultaneous, real-tome oscilloscope type display of beam angle deviations as a function of time. Up to 4K points can be saved at a time to memory, with zoom, hold, offset, DC/AC and triggering mode operations.

Power

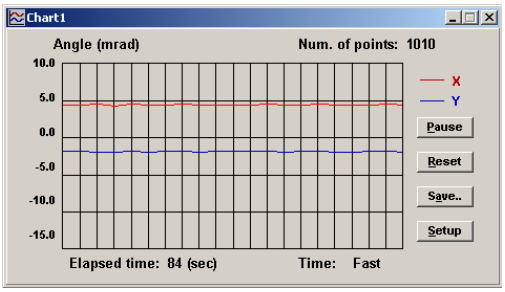


Display power with analog and digital displays.

More Features:

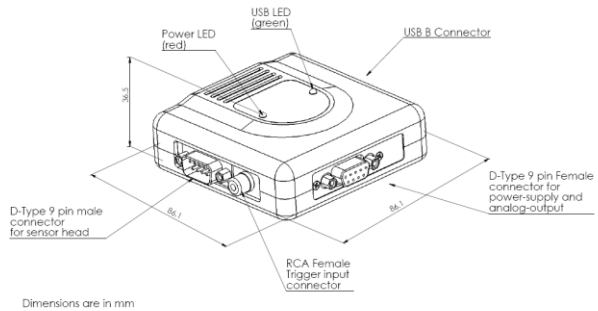
- Change measuring units
- Load a filter file
- Perform ambient light suppression

Chart



Display changes in the X,Y angle (or in Power) versus time, with autoscaling

Manifold Box Schematics



Ordering Information:

PSD-USB-25 f1.4: The system consists of a sensor head with attached cable & ND-2 Filter (Optical Standard M46), an electronic box, a stabilized power supply, a software on a CD and a carrying case.

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