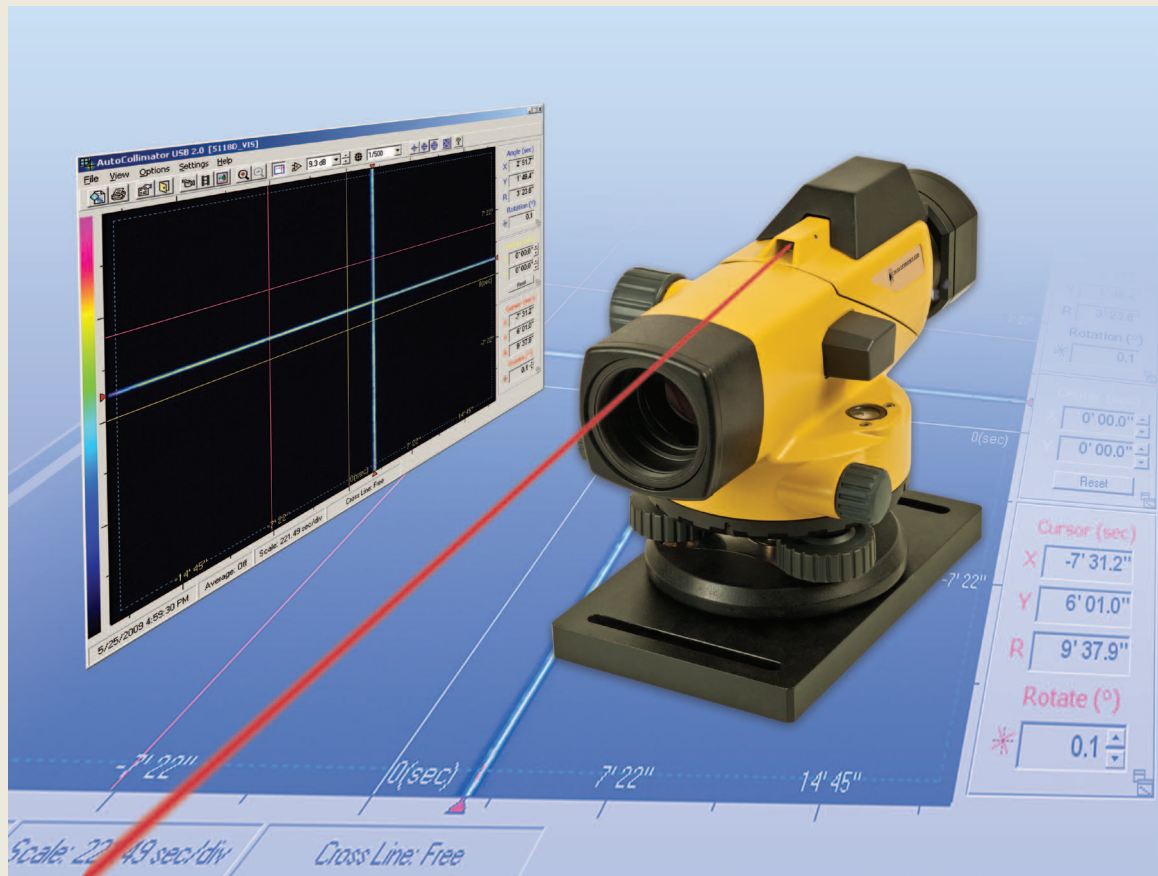


Electronic Autocollimator

A precision USB 2.0 device combining the functionality of autocollimator and alignment telescope

Our Precision Electronic autocollimator has built in adjustment features, such as: coarse alignment laser, leveling bubble, adjustment pan tilt knobs, enabling unprecedented enhancement alignment procedure.



Main Applications

The Autocollimators applications are mainly related to the detection and measurement of small angular displacements. Examples include:

- Measurement of mirror angle
- Straightness measurement of linear stages
- Characterization of rotation stage
- Measurement of wedge, prism and polygon angles
- Measurement of reflecting surface parallelism
- Measurement of surface flatness
- Alignment of optical setups
- Machine alignment
- CD/DVD ROM alignment
- Thermal stability measurements
- Vibration analysis

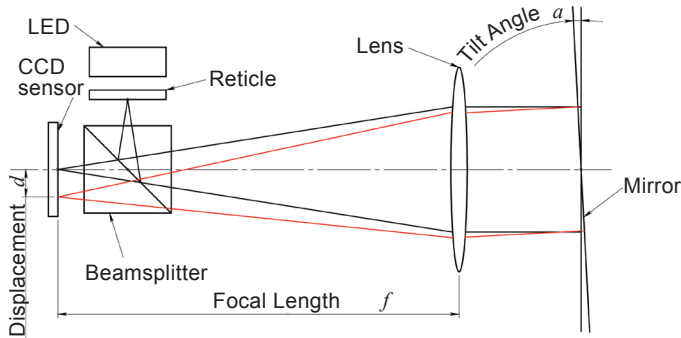


DUMA OPTRONICS LTD.

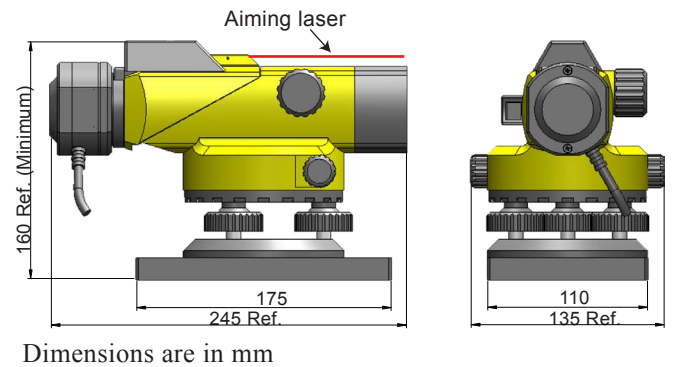
1st Hazait St., P.O.Box 3370 Nesher 20306, Israel Tel:972-4-8200577 Fax: 972-4-8204190
Website:<http://www.duma.co.il> E-mail:sales@duma.co.il

Measurement Specifications

Concept



Mechanical Dimensions



Specifications

Field of view

Autocollimator

42' (H) (2520 sec of arc)

Telescope

84' (H) (5040 sec of arc)

Resolution

0.1 sec

Accuracy

2.5 sec

CCD Camera

1/2" (1/3" Optional)

Light Source

LED

Interface

USB 2.0

Clear aperture

36mm

Built in focusing feature

Focusing range

30cm to infinity

Bore sight retention

±5 sec

Objective aperture

36 mm

Retro-reflector for alignment

Ø64mm, N.W. 280g

Thread Ø16mm, <5"

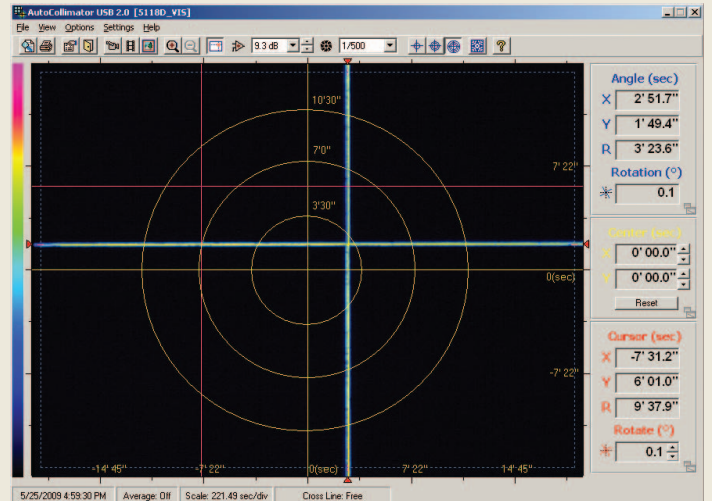
Coarse alignment laser

638nm power <1.0 mW

Class 2 laser product, IEC60825-1

Weight

2.5 kg including cable



Built in pan tilt adjustment

Built in coarse aiming laser

Hardware Requirements

Pentium IV, 2.4GHz , 512MB RAM, 10MB Free HDD, 64 MB 24 bit color VGA card, 1 free High Speed USB2.0 port, CD ROM any type, Win XP/7/8.

Ordering Information

PN: EAC-1012 Complete system including a collimator unit with USB2.0 CCD camera, software on CD disk, retro-reflector for infinity adjustment.

Features

- Automatic angle deviation display
- Relative measurements
- Multiple results display
- Low Light - low reflection capability
- Reticule targets (single or multiple)
- Data logging with detailed statistics
- Software controlled electronic shutter & gain
- Data exporting to another computer via RS232 or TCP/IP
- Video with playback, snapshot files

DUMA OPTRONICS LTD.

1st Hazait St., P.O.Box 3370 Nesher 20306, Israel
Website: <http://www.duma.co.il>

Tel: 972-4-8200577 Fax: 972-4-8204190
E-mail: sales@duma.co.il