

GREAT FEATURES, EXCELLENT PERFORMANCE.

- Used to detect and measure small angular deviations.
- 0.1 arc-second resolution.
- Exceptional focusing range: from 30cm to infinity.
- Built-in laser for coarse alignment.
- Fully integrated mount and leveling capability.
- Long lasting LED light source.
- Full-featured software suite allows you to record and document your measurements.
- Connects to your computer via a USB port.
- Robustly designed all-in-one unit.

ADVANCED OPTICAL TECHNOLOGY AND INSTRUMENTS

PLX provides unique optical instruments, technologies and solutions to problems of achieving and maintaining state-of-the-art optical accuracy and stability under severe environmental conditions. Our Monolithic Optical Structure Technology (M.O.S.T.[™]) integrates complex optical elements into compact monolithic structures to achieve these objectives.

You'll find PLX instruments in Military, Space/Aerospace, and Commercial/Industrial applications as well as University Research and Science Labs around the world.



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**Introducing the
PLX ACT-25
ELECTRONIC
AUTOCOLLIMATOR
AND ALIGNMENT
TELESCOPE**

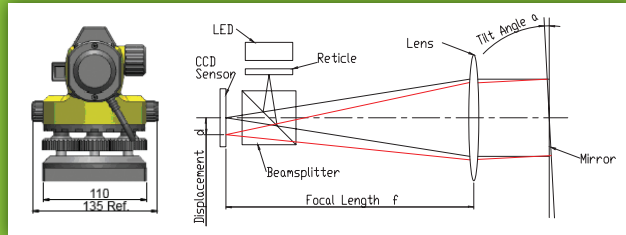
The PLX ACT-25 ELECTRONIC AUTOCOLLIMATOR AND ALIGNMENT TELESCOPE is a robustly designed all in one unit.



The ACT-25 is a high-accuracy measurement instrument capable of resolution down to fractions of an arc-second.

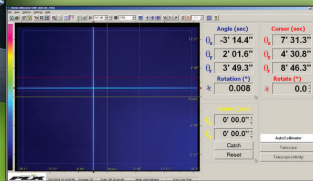
Because of the high-quality and sensitivity of the CCD detector, even very faint back reflections will be captured and displayed.

When the ACT-25 is used as an autocollimator, the unit has a 42-minute horizontal measurement range. In alignment telescope mode, the field of view is 84 minutes horizontally. The PLX ACT-25 autocollimator has a 0.1 arc-second resolution.



A unique feature of the ACT-25 is the ability to focus down to 30cm (12 inches) in the telescope mode. This capability allows the measurement of lateral displacements, as opposed to the autocollimator mode, which measures angular displacements.

The ACT-25 is DESIGNED AS A COMPLETE SYSTEM and is PRACTICALLY READY TO USE right out of the box.



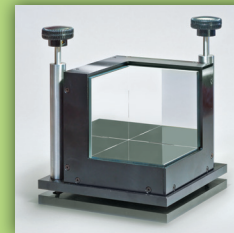
The software suite automatically displays angle deviation and can give the relative position of multiple targets. Besides taking interval measurements, the software supports video recording of the screen image for later playback and analysis. Another analysis tool is the ability to save images and then to tile multiple saved images and view them simultaneously.

Available accessories include Hollow Retroreflectors, Lateral Transfer Hollow Retroreflectors (LTHR™), Lateral Transfer Hollow Periscopes (LTHP™), Tool Cube™ and cooperative target.

A VARIETY OF APPLICATIONS

Machinery alignment: the Autocollimator/Telescope can be used for checking accuracy of machine slides, as well as surface plate flatness.

Optical testing: the PLX ACT-25 can be used for testing various optical components, such as hollow and solid retroreflectors, wedge angles of thin prisms or windows. Some measurements may require the use of supplemental optics.



The Tool Cube™ is used to establish orthogonal optical axis. It has less than 1 arc second deviation between any two of its mirrors.

SPECIFICATIONS for the ACT-25

Specification	Value
Field of View	
Autocollimator	42' (2520 arc-seconds)
Telescope	84' (5040 arc-seconds)
Resolution	0.1 arc-seconds
Accuracy	2.5 second
CCD camera	1/2"
Light Source	LED
Interface	USB 2.0
Clear Aperture	36mm
Focal Length	250mm
Objective Focusing Range	30cm to infinity
Bore sight retention	±5 seconds
Weight	2.5 kg
Built in Laser for coarse alignment	



Boresighting: the aligning of a targeting system or systems with the barrel of a weapon, or the co-alignment of different targeting systems (visible and infrared). Boresighting will typically require some additional set-up and equipment. This could take the form of an accurate translation stage or an LTHR™ or periscope possibly equipped with a beam splitter.