

CROSSDETECT

Flexible and highly accurate image processing software for Autocollimators

CROSSDETECT is an image processing software, which was specially developed for use in connection with autocollimators. **CROSSDETECT** is suited perfectly for all applications, where autocollimators can be used, like:

- Measurement of small angles
- Ultra precision angular adjustment and calibration
- Wedge- and prism angle measurement
- Angle position monitoring

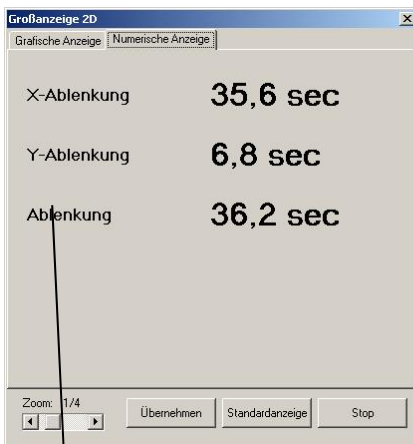
As light source are used LED. Beside green, red, blue and white there is also NIR 1064nm available. The standard setup of autocollimator is adjusted to

USB cameras with different resolutions and frame rates can be mounted direct on the autocollimation head.

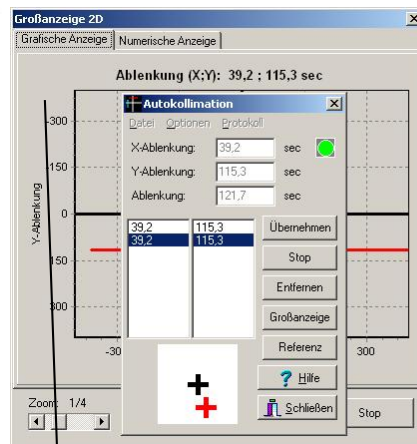
Objective pipes with focal length range from 90mm to 500mm are available and can be mounted onto the autocollimation head.



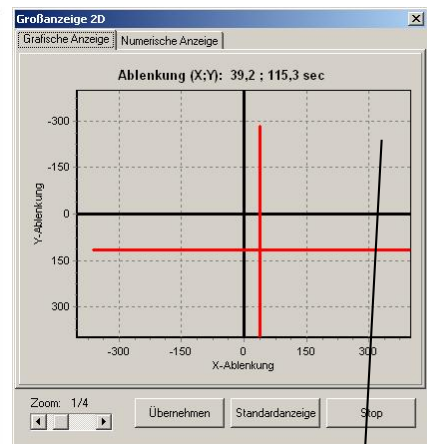
Display on the computer monitor



Live display of the current crosshair position in arcsec in relation to the reference point (reference point is freely definable)

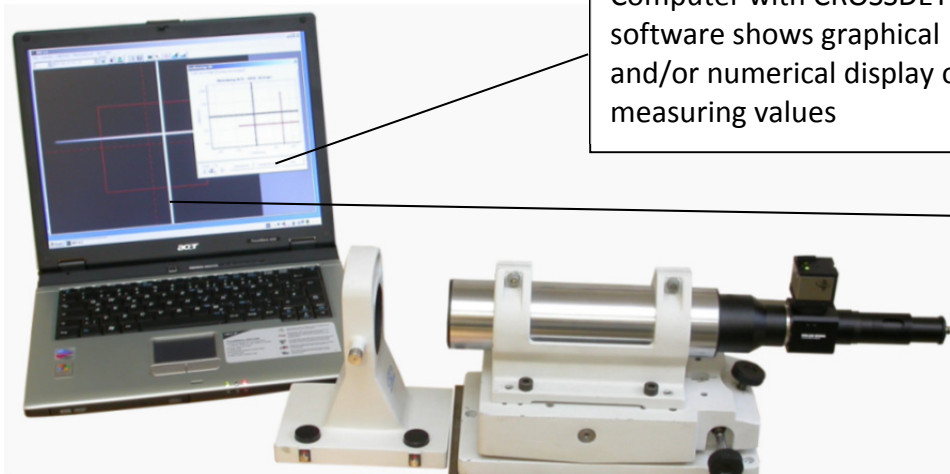


Simultaneously display of crosshair position in arcsec and graphical display together with the reference point



Large display of current crosshair position (red) and reference point (black)

Complete setup



Computer with CROSSDETECT software shows graphical and/or numerical display of measuring values

Live video image of the measuring signal (crosshair). Parasitic reflexes can be observed and excluded by setting areas of interest.

CROSSDETECT has, beside the general functions of crosshair detection, also numerous additional measuring functions like

- wedge angle measurement in reflection and transmission
- centering error measurement
- wedge angle by double cross
- measurement of deflection
- manual and automatic distance measurements
- multiple crosshair detection
- detection of the signal from 2 cameras in one and the same computer at the same time

Since **CROSSDETECT** is a computer based solution, an adaption of the software to special measuring- or other demands is possible with reasonable input.

Technical Data

Objective pipe Focal length / diameter	Measuring range arcsec	Accuracy arcsec
90/40	6100x4800	± 3
140/40	3900x3100	± 2
200/40	2800x2200	± 1,5
300/40	1800x1400	± 1,0*
500/40	1100x800	± 1,0*
300/65	1800x1400	± 1,0*
500/65	1100x800	± 1,0*

*This is the accuracy, which can be certified by OEG GmbH. The real accuracy is below that value and can be certified by external companies