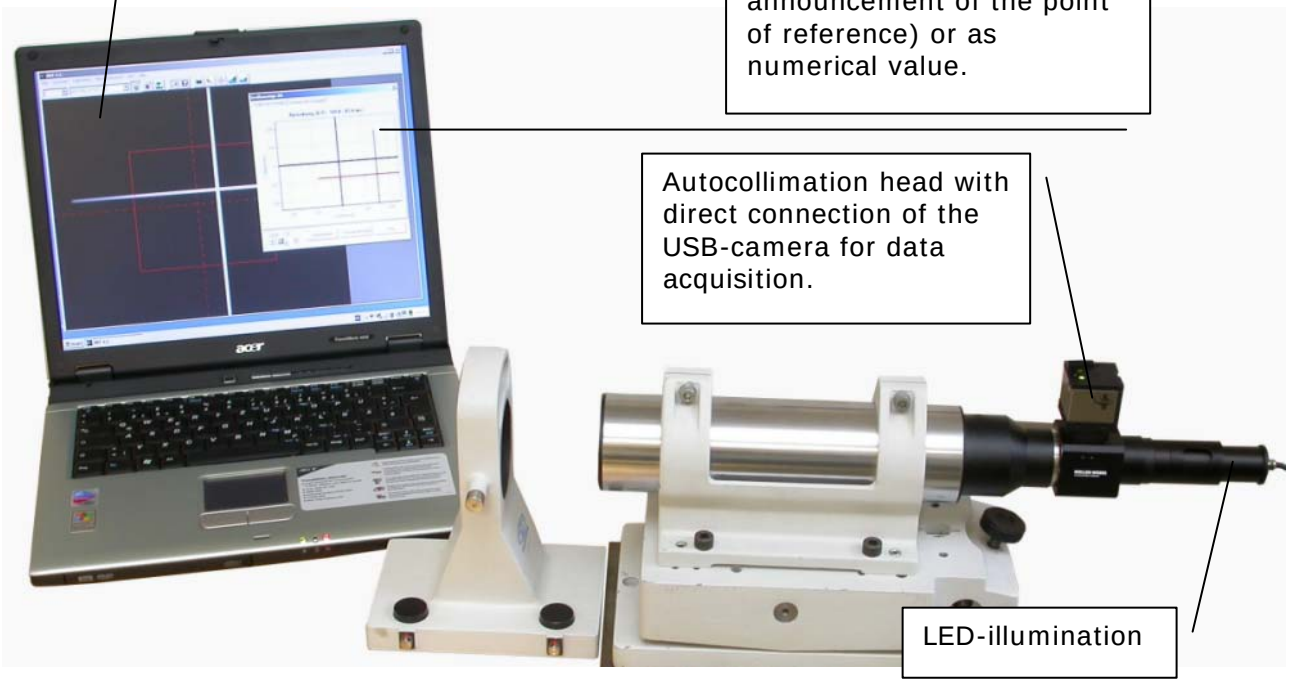
OEG
Optik
Elektronik
Gerätetechnik

COMEF-ANGLE

Electronic image evaluation for autocollimators



Application

COMEF-ANGLE is an image processing system, which was developed in particular for the use in connection with autocollimators. It serves for the increase of accuracy and automation of angle measurements and offers numerous additional measuring and service functions.
COMEF-ANGLE can be adapted to each visual autocollimator by use of an eyepiece adapter. Using this software, the accuracy of a visual autocollimator can be increased at least by factor 10 compared with visual measurement.

Features

- data acquistion with digital USB 2.0-camera or with analogue video camera
- 1,3 megapixel resolution (standard, other resolutions on inquiry)
- Resolution of angle measurement <0.1 arcsec (depending from the focal length and free aperture)
- focal length range 90mm to 1100mm
- free aperture 28mm or 50mm
- Representation of the measuring signal as live video on the laptop monitor
- additional representation of graphic hair crosses (e.g. point of reference and current hair cross position)

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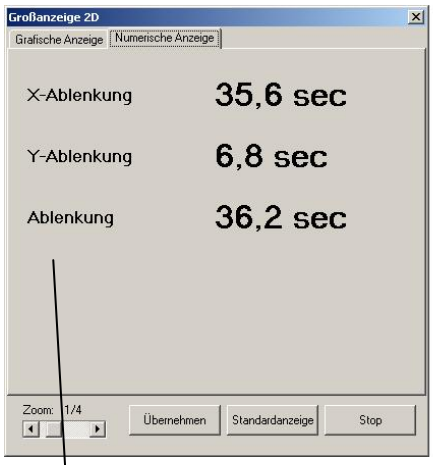
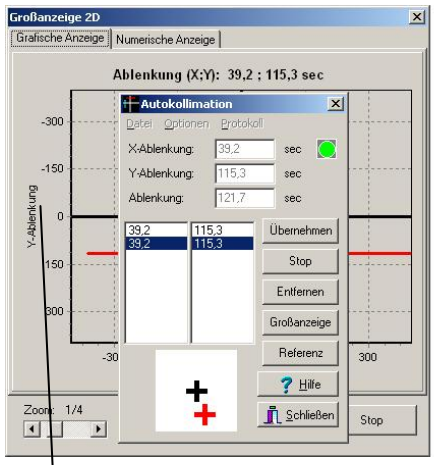
- Representation of the measuring signal as angle value in different units
- Zoom function
- Measured value tables
- Production and print out of freely configurable metrology records
- Expenditure of the measured values over RS232 and numerous software interfaces
- Announcement of tolerance fields
- extensive accessories (mounting plates, basis mirror, stands, laser resolution for fast rough adjustment)

Graphic operators interface

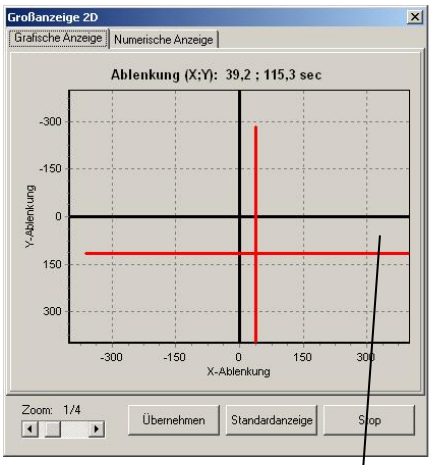
The graphic user surface possesses many advantages in relation to visual autocollimators. It makes fatigue-free working possible and offers different representation possibilities.



Real time display of the current hair cross position in relation to the reference position as numerical value (reference position freely selectable)



Simultaneous real time display of hair cross position, reference position and numerical values.



Real time representation of the current hair cross position in relation to the reference position (reference position can set on any point)

At the autocollimation head both digital USB cameras of most diverse resolutions and standard video cameras can be attached.

The software offers numerous functions for the use in optical applications (cementing, deflection angle, wedge angle in the transmitted light/reflection). For the measurement of straightness and flatness the software offers a direct interface via clipboard to the proven software ELCOLEVEL.

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