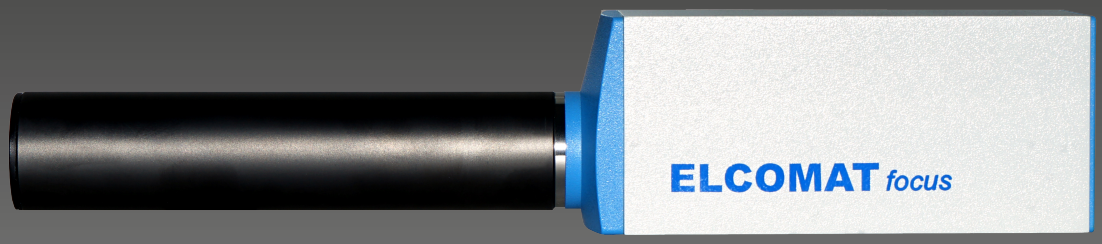

ELCOMAT® focus

Electronic Autocollimator

MÖLLER-WEDEL OPTICAL

ELCOMAT® focus 200/40

Electronic Autocollimator

The new ELCOMAT® focus 200/40 combines the proven properties of the ELCOMAT® direct N 200 /40 electronic autocollimator with those of an optical micrometer. As a result, it can be used to determine the smallest changes in angle and to adjust a wide range of elements and complex systems. The new hardware makes it possible to determine the focal position of optical systems and the distances between elements of an optical system. The measuring head itself achieves an accuracy of less than one micrometer. The combination of a high -precision angle and focal position measuring device is currently unique.

Features of the measuring device

- Quick and easy measurement of small angles with high accuracy in autocollimation mode
- Innovative new design allows precise determination of the focus position, even with long focal length systems
- Special hardware to reduce sensitivity to ambient light
- Intuitive usability
- Software-supported evaluation with ELCOfocus
- Connection to the PC / laptop via a USB 3.0 interface

Typical measurement tasks

- Determination of the focus position of optical systems
- Checking the alignment of lenses
- Non-contact measurement of distances as an optical micrometer* (e.g. of air gaps between plane parallel plates)
- Determination of the optical centre thickness of plane parallel plates or individual lenses*
- Adjustment of afocal systems
- Testing the zoom curves of lenses
- Small angle measurement
- Ultra-precision angle adjustment and calibration

*only in combination with a stand and lenght measuring system

Technical data

Description	ELCOMAT® focus 200/40
Art.-No.	229 843
Repeatability	± 0,2 arcsek
Measurement uncertainty	± 1,5 arcsek
Resolution (µm)	± 0,25
Focal lenght	200 mm
LED Wavelength	520 nm
Minimum diameter of the reflector	ø 1 / mirror coated (R=85%) / ø 1,6 / uncoated (R=4%)
Clear aperture	ø 28 mm
Computer interface	USB 3.0
Dimensions	360x70x70 mm
Tube diameter	ø 40 f7
Scope of delivery	ELCOMAT® focus 200/40, connection cable, software ELCOfocus

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