



PrismMaster® Flex

Flexible goniometer for quality control in optics manufacturing







PrismMaster® Flex

The PrismMaster® Flex is a versatile goniometer with a modular product concept. It is particularly suitable for quality control of prisms and plano optical components in optics manufacturing. The system is available in the three configuration levels PrismMaster® Flex, Flex 1D and Flex 2D.



Autocollimator in the swivelling arm for flexible measurement applications and ease of use

In the standard configuration with one electronic autocollimator in a swivel arm the PrismMaster® Flex as a highly flexible comparison goniometer enables the production-related quality testing of prisms and plano optics with measurement times of less than 1 sec per sample.

Besides simple comparison measurements with high speed, advanced configurations are capable of numerous measurement applications. The PrismMaster® Flex 1D captures the position information of the swivel arm. The PrismMaster® Flex 2D additionally captures the position information of the sample table. The numerous measurement possibilities of the PrismMaster® Flex 1D and 2D include angle measurement in absolute values and measurement of spatial angular relationships.

Each of the three configurations (PrismMaster® Flex, Flex 1D, Flex 2D) is upgradable with additional options to cover specific individual measurement tasks. With up to two additional collimators or autocollimators as well as a narrowband lightsource the flexible goniometer is suitable, for example, for measuring of deflection angles in transmission or for determination of the refractive index.

Key features

- Modular goniometer in three configuration levels
- Options for all configuration levels, e.g. for measurement of deflection angles as well as determination of the refractive index
- Measurement in reflection for outer prism angles and in transmission for deflection angles
- Mechanical ball bearing, no compressed air required
- Measurement is traceable to international standards





Configurations

and their applications at a glance

	Flex	Flex 1D	Flex 2D
PrismMaster®	Comparison goniometer	Capturing the position information of the swivel arm	Capturing the position information of swivel arm and sample rotary table
Comparison measurements			
Surface angle (comparison measurement)	•	-	•
Deflection angle	•		•
On two surfaces	•	•	
Measurement applications with absolute values			
Surface angle (absolute measurement)			•
Tilt angle		•	•
Deflection angle/ Transmission angle			•
Parallelism of plane parallel plates		-	•
Refractive index			•
Spatial angular relationships			
Wedge orientation			•
Tilt angle of strongly inclined surfaces			•
Pyramidal angle			•
Beamsplitter cube			

Three configurations of the PrismMaster® Flex enable versatile measurement applications. Further applications are provided with additional options. Each of the three available configurations of the PrismMaster® Flex, Flex 1D and Flex 2D can be upgraded with up to two collimators or autocollimators and a narrowband lightsource for refractive index measurement.

Additional options

The PrismMaster® Flex can be upgraded with up to two additional collimators in order to enable the following measurement applications:

- Parallelism of plane parallel plates
- Deflection angle/transmission angle
- Measurement of beamsplitter cubes

The optional configuration with up to two additional autocollimators extends the measurement functionality. This allows the following applications to be performed:

- Comparison measurements on two surfaces
- Measurement of beamsplitter cubes

Narrowband lightsource

- Refractive index measurement
- Deviation angle



Measurement possibilities depending on the configuration and additional options

