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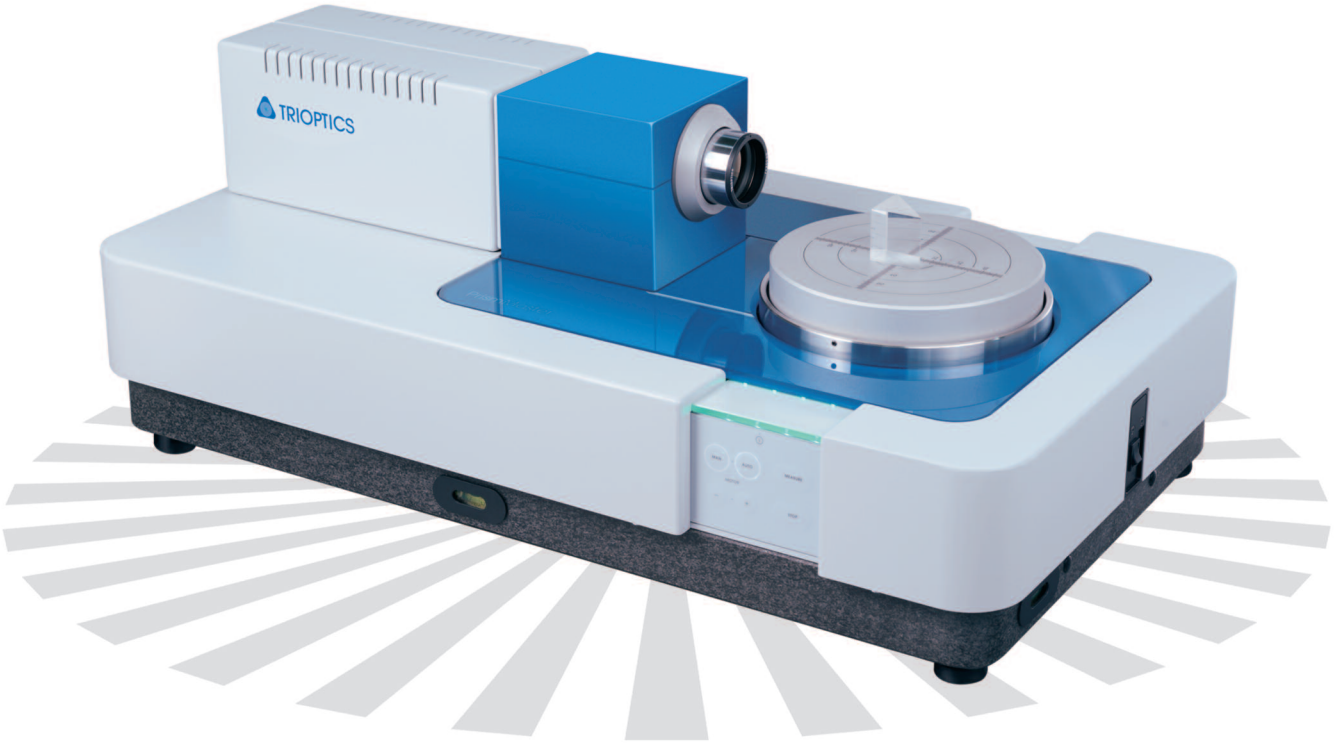
# PrismMaster® 150

## Compact Goniometer for laboratories and production




Since 1998 TRIOPTICS PrismMaster series sets the standards for high precision goniometers. The new PrismMaster® 150 rounds off the PrismMaster series and is ideal for optical workshops as well as receiving and final inspection in production environment. It is available as a fully automated or as a manual goniometer.

The new PrismMaster series boosts a numbrer of new features including a user-friendly new software. The overall concept follows a simple philosophy: Providing an instrument with high accuracy which also is easy to use.

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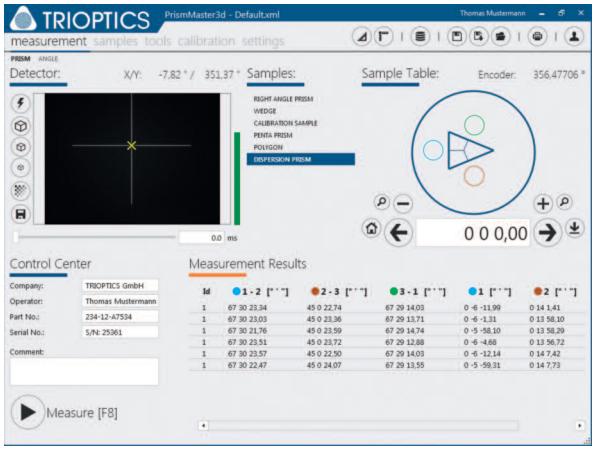
## Measuring Process

There is no easier way of achieving immediate and ultra-accurate angle value of plano optic components. The new software provides fully automated measurement of standard prisms and polygons for PrismMaster® 150 HR:

1. SELECT a standard measurement program
2. PLACE the sample on the measurement table
3. Press MEASURE and the fully automatic measurement process begins. Without any operator intervention the PrismMaster will deliver the precise angle values of the sample.




## Software PrismMaster 3D

- Prism Configurator for the easy definition of non-standard and compound prisms
- Three different user levels incl. workshop mode for simple routine measurements
- Input window and import/export function for sample design files
- Automated ray tracing, for:
  - reconstruction of the sample geometry
  - classification and selection of the de tected images, incl automatic detection of internal reflections, e.g. in 90° prisms
  - refractive index calculation
  - virtual transmission measurement of deflection angles
- Input of tolerance ranges and pass/fail classifications
- Evaluation, display and recording of the measurement results according to ISO

## Specifications

| | | |
|---|---|---|
| Single measurement | ± 1.0 arcsec (PrismMaster 150 HR) | ±1.2 arcsec (PrismMaster 150 MAN) |
| Pyramidal angle measurement* | ± 3.0 arcsec / ± 5.0 arcsec | |
| Resolution of the electronic autocollimator | 0.1 arcsec | |
| Measuring aperture of the autocollimator | 30 mm | |
| Autocollimator field of view | 4000 x 3200 arcsec | |
| Diameter of sample table | 100mm | |
| Maximum sample size | dia. 120 mm | |
| Minimum sample size | 1.0 $mm^2$ | |
| Maximum payload | 3 kg | |
| Dimensions | 550 x 330 x 198 mm (PM 150 HR) | 410 x 240 x 181mm (PM 150 MAN) |

*according to DIN 10110

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TRIOPTICS GmbH · Optische Instrumente · Hafenstrasse 35-39 · 22880 Wedel / Germany
Phone: +49-4103-18006-0 . Fax: +49-4103-18006-20 · E-mail: info@trioptics.com · http://www.trioptics.com