

SHSOphthalmic autoROC

Metrology system for ophthalmic surfaces

The SHSOphthalmic products address the needs of quality control in the ophthalmic market:

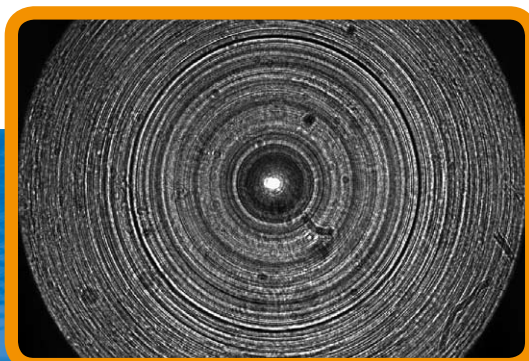
- High speed and accuracy
- Ease of use
- Low inter-operator variability

Ophthalmic Surface Control

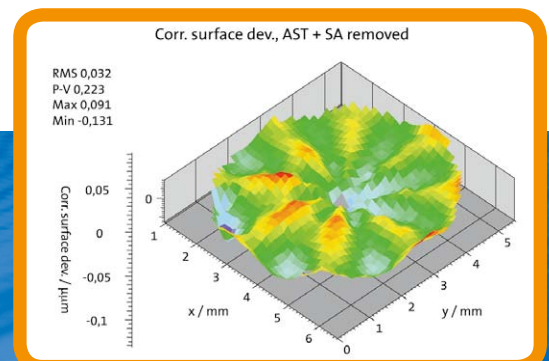
- Sample types** Measurement of semi finished contact lenses, molds, metal tools and finished surfaces:
- Spheric
 - Toric
 - Aspheric
- Measured data**
- Radius of curvature (ROC)
 - Toricity: radius difference and axis
 - Surface shape deviation
- Surface inspection** for surface quality such as
- lathe grooves, scratches, digs and polishing errors
- Powerful Software** provides comprehensive functions for metrology tasks and can flexibly be adapted to the customer's requirements.
- Pass/fail analysis and reporting functions
 - Production and R&D mode
 - Surface Zernike evaluation
 - Data link to custom software or database



Visual inspection of surface



Higher order surface errors



Samples, system and options (see product datasheet for detailed information)

Sample types	Ophthalmic lens molds, metal tools, lens surfaces
Shape	Convex and concave, spheric, toric, aspheres
Surface	Medium to high reflectivity
Measured parameters	Radius of curvature (ROC), axis and toricity for toric samples, surface shape deviation
Visual inspection	Inspection for lathe grooves, scratches, digs, polishing errors
Surface measurement	Sampling points for surface 60x60 Optional enhanced lateral resolution (100x100)
Sample Alignment	Manual or automated xy-alignment
Barcode reader	Handheld barcode reader for input of serial numbers etc.
Calibration objects	Calibration spheres

Contact lens blank with toric base curve



Surface deviation with coma type error

