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

WAVEFRONT TECHNOLOGY UNLEASHED
### Samples, system and options (see product datasheet for detailed information)

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