Hyperion compact
Non-contacting 3D profilometer system.

► Roughness
► Shape
► Topography
Hyperion compact
Non-contacting 3D profilometer system.

The versatile and precise machine for non-contacting acquisition of profiles and topographies

**Hardware**
- Vibration-cushioned all-granite construction
- High-resolution positioning system
- Backlash-free recirculating precision ball screw
- Superior repeatability
- Integrated OPM motor controller electronics
- Compact design, small footprint

**Features**
- Versatile multi-sensor system
- CCD camera positioning aid and supervision
- Superior measurement speed

**Software**
- OPM Inspector measurement and analysis software
- Automation of measurement tasks
- Extensive visualisation and analysis capabilities
- DIN/ISO parameter evaluation
- Windows® based software

**Technical Data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel range</td>
<td>50 x 50 mm to 200 x 200 mm</td>
</tr>
<tr>
<td>Lateral resolution</td>
<td>0.5 μm</td>
</tr>
<tr>
<td>Maximum speed</td>
<td>30 mm/s</td>
</tr>
<tr>
<td>Maximum sample mass</td>
<td>15 kg</td>
</tr>
<tr>
<td>CCD camera</td>
<td>Optional</td>
</tr>
<tr>
<td>Motorised z axis</td>
<td>Optional</td>
</tr>
<tr>
<td>Vibration dampers</td>
<td>Optional</td>
</tr>
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</table>
The optimum sensor technology for each measurement task.

<table>
<thead>
<tr>
<th></th>
<th>KF3</th>
<th>KF3 Tele</th>
<th>AF16</th>
<th>C1</th>
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</thead>
<tbody>
<tr>
<td>Principle of operation</td>
<td>Confocal sensor</td>
<td>Confocal sensor</td>
<td>Autofocus sensor</td>
<td>White light sensor</td>
</tr>
<tr>
<td>Light source</td>
<td>Solid state laser</td>
<td>Solid state laser</td>
<td>Solid state laser</td>
<td>Halogen lamp</td>
</tr>
<tr>
<td>Laser class (DIN EN 31252)</td>
<td>Laser class 2</td>
<td>Laser class 1</td>
<td>Laser class 1</td>
<td>Not applicable</td>
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<tr>
<td>Measurement spot diameter</td>
<td>&lt;2 μm</td>
<td>2 μm</td>
<td>1.9 μm</td>
<td>5 μm</td>
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<tr>
<td>Measurement range</td>
<td>1000 μm</td>
<td>1000 μm</td>
<td>1500 μm</td>
<td>300 μm</td>
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<tr>
<td>Stand-off</td>
<td>4 mm</td>
<td>13.5 mm</td>
<td>2 mm</td>
<td>4 mm</td>
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<tr>
<td>Resolution</td>
<td>20 nm</td>
<td>20 nm</td>
<td>10 nm</td>
<td>25 nm</td>
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</tbody>
</table>

**Peculiarities**
- Compact size
- Easy operation
- Excellent dynamic range
- General-purpose sensor for a wide range of applications
- Integrated trigger module

**Applications**
- Flatness, altitude or position measurements
- Area, thickness or volume calculations
- Automatic measurement procedures

**Industries**
- Micromechanical engineering
- Electronics industry
- Plastics and paper industry
- IC packaging

**Research, development and manufacturing of**
- Laser and white light based sensors
- Profilometers
- Application specific measurement solutions

**Services**
- Application specific evaluation software, based on OPM Inspector
- Measurement and evaluation of customer's samples
- Maintenance, calibration and updates of UBM measurement systems

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