

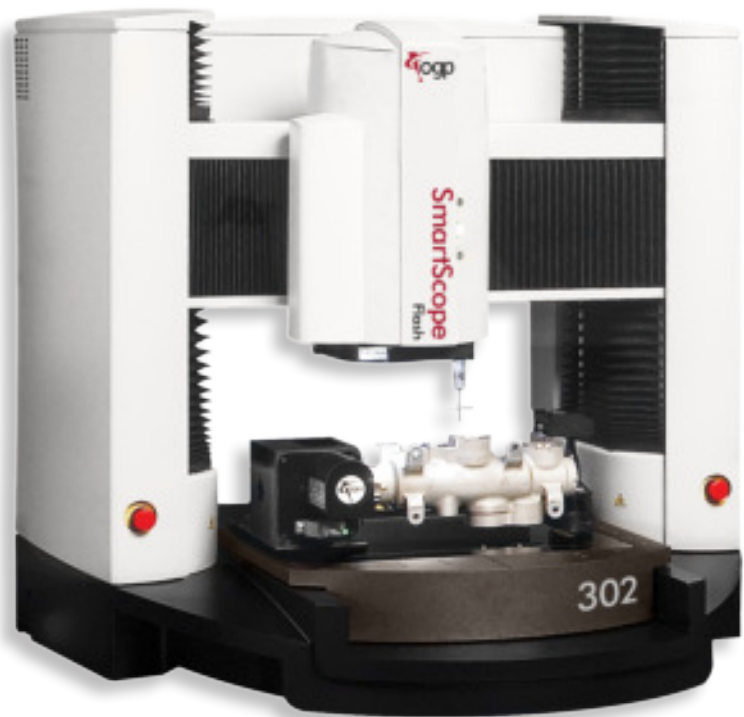


SmartScope® Flash™ 302

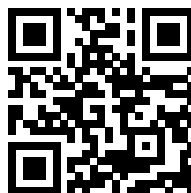
**SmartScope Flash 302** is a unique high capacity benchtop multisensor measurement system and one of the most versatile benchtop systems OGP® offers. Flash 302 offers:

- **Precision Optics –**  
High quality AccuCentric® zoom lens automatically compensates magnification for each zoom position.
- **Flexible Illumination –**  
Standard profile light, coaxial surface light, and SmartRing™ light illuminate parts from all angles.
- **Multisensor Versatility –**  
Optional touch probe, scanning probe, feather probe, TTL laser, and rotary indexers.

## Benchtop Multisensor Measuring System with Floor Model Capacity



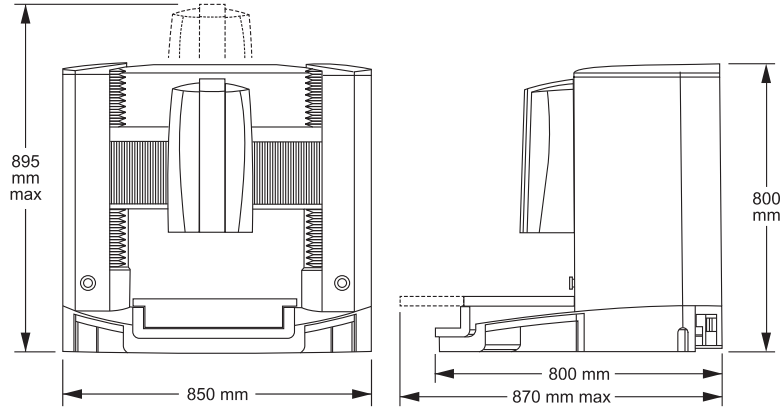
Shown with optional touch probe, MicroTheta™ Rotary Indexer and TTL Laser.



# SmartScope® Flash™ 302



ZONE3® Metrology Software represents a totally new way of working with multisensor measurement systems, providing faster, easier, and more productive measurements.



System Weight: 160 kg  
Shipping Weight: 340 kg

	Standard	Optional
<b>XYZ Travel</b>	300 x 300 x 250 mm	
<b>XYZ Scale Resolution</b>	0.1 µm, including dual Z-axis scales	
<b>Drive System</b>	DC servo with 4-axis control (X, Y, Z zoom); with multifunction handheld controller	
<b>Worktable</b>	Hardcoat anodized, with fixture holes, removable stage glass, 30 kg recommended max payload	
<b>Rotary Axis</b>		Miniature Servo Rotary (MSR™), MicroTheta Rotary (MTR™)
<b>Optics*</b>	AccuCentric® auto-compensating zoom, motorized; 1.0x lens	<b>Focus Grid Projector:</b> LED Source <b>Laser Adapter:</b> Allows for field retrofit of TTL Laser. Includes Laser Pointer <b>Replacement Lenses:</b> 2.5x, 5.0x <b>Laser Lenses:</b> 2.0x (Included with TTL Laser), 5.0x <b>Lens Attachments for 1.0x Lens:</b> 0.5x, 0.75x, 1.5x, 2.0x
<b>Illumination</b>	Substage LED profile, coaxial LED surface, SmartRing LED ring light (white)	Red, Green, or Blue SmartRing; Flexible SmartRing for 0.5x lens attachment
<b>Metrology Camera</b>	Color metrology camera	Monochrome metrology camera
<b>Field of View**</b>	8.0 mm x 6.0 mm (low zoom) to 0.90 mm x 0.68 mm (high zoom)	14.6 mm x 10.9 mm (1.0x lens, 0.5x attachment) to 0.19mm x 0.14 mm (5.0x lens)
<b>Working Distance</b>	64 mm	Up to 97 mm (1.0x lens, 0.5x attachment)
<b>Sensor Options***</b>		<b>Tactile:</b> TP20 or TP200 Touch Probe, SP25 Scanning Probe, Feather Probe™ <b>Non-Contact:</b> Through-the-Lens (TTL) Laser
<b>Software</b>	<ul style="list-style-type: none"> <li>• ZONE3 Express or Measure-X metrology software</li> <li>• QVI® Portal</li> </ul>	<b>Metrology software:</b> ZONE3 Prime, ZONE3 Pro <b>Productivity software:</b> MeasureFit® Plus, SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) <b>Offline software:</b> ZONE3, Measure-X
<b>System Controller</b>	Windows® based, with up-to-date processor and onboard networking/communication ports	
<b>Accessories</b>		24" flat panel, or dual 24" flat panel LCD monitors; keyboard, 3-button mouse (or user supplied)
<b>Power Requirements</b>	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 800 W	
<b>Safe Operating Environment</b>	15-30 °C, non-condensing	
<b>Rated Environment</b>	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
<b>XYZ volumetric accuracy</b>		$E_3 = (3.8 + 5L/1000) \mu\text{m}$ (requires ZONE3)
<b>XY Area Accuracy</b>	$E_2 = (1.8 + 5L/1000) \mu\text{m}$	
<b>Z Linear Accuracy</b>	$E_1 = (3.4 + 5L/1000) \mu\text{m}$	$E_1 = (2.4 + 5L/1000) \mu\text{m}$ (requires optional TTL Laser or Touch Probe)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Depending on load distribution, accuracy at maximum payload may be less than standard.

\*Lenses and lens attachments can be manually interchanged to change magnification and working distance. \*\*FOV sizes with optional monochrome camera are 15% smaller in Measure-X. \*\*\*SP25 and Feather Probe only supported in ZONE3.



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World Headquarters: Rochester, NY, USA • 585.544.0400 • [www.ogpnet.com](http://www.ogpnet.com)

OGP Shanghai Co, Ltd: Shanghai, China

86.21.5045.8383/8989 • [www.smartscope.com.cn](http://www.smartscope.com.cn)

OGP Messtechnik GmbH: Hofheim-Wallau, Germany

49.6122.9968.0 • [www.ogpmesstechnik.de](http://www.ogpmesstechnik.de)

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