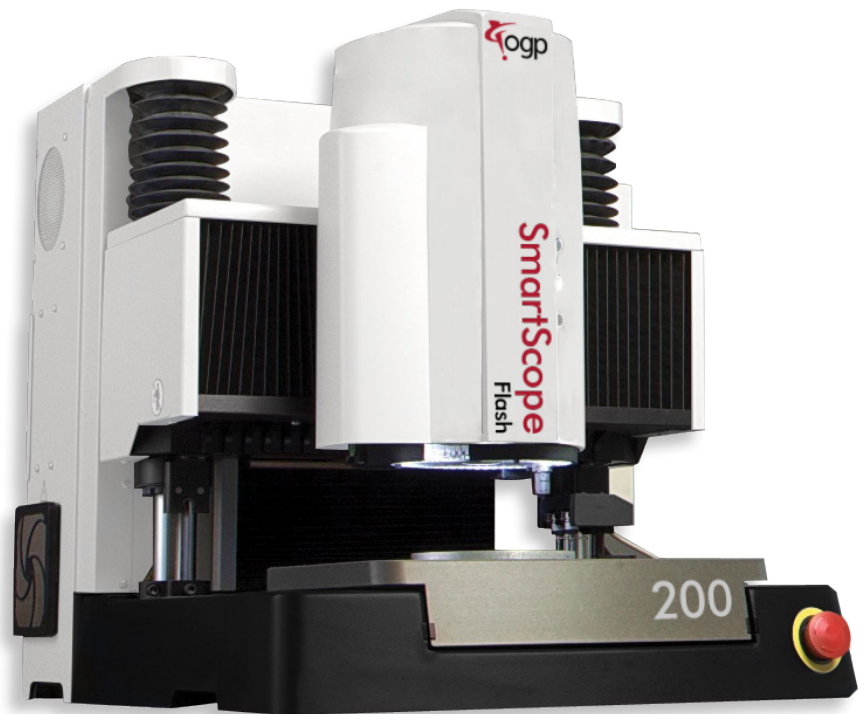


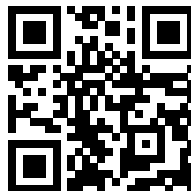
**SmartScope Flash 200** – One of the most popular 3D multisensor dimensional measurement systems on the market. The elevating bridge provides a larger working area than similar designs. Flash 200 offers:

- **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, feather probe, TTL laser, and rotary indexers.

## Compact Benchtop Multisensor Measuring System which Performs like a Floor Model



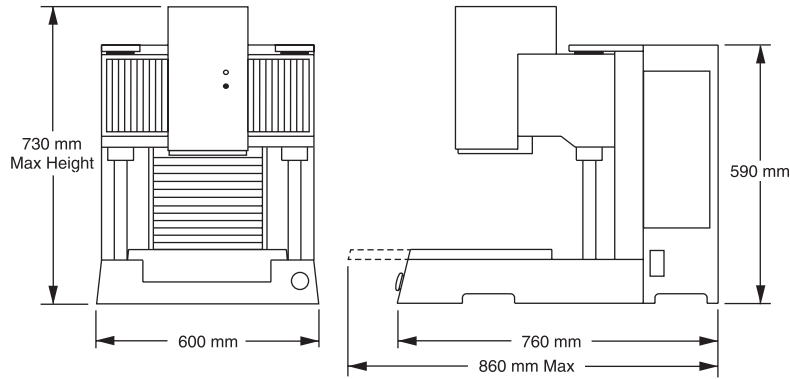
Shown with optional Touch Probe and TTL Laser.



# SmartScope® Flash™ 200



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



System Weight: 100 kg  
Shipping Weight: 150 kg

	Standard	Optional
<b>XYZ Travel</b>	200 x 200 x 150 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, 16 kg recommended max payload	
<b>Rotary Axis</b>		Miniature Servo Rotary (MSR™)
<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 0.19 mm 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> Measure-X® Analyze, 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>Controller Options</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, 900 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 0.5 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
<b>XY Area Accuracy</b>	$E_2 = (2.0 + 6L/1000) \mu\text{m}$	
<b>Z Linear Accuracy</b>	$E_1 = (3.5 + 6L/1000) \mu\text{m}$	$E_1 = (2.5 + 6L/1000) \mu\text{m}$ (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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