SmartScope® Flash™ 200

Compact Elevating Bridge Benchtop Multisensor Metrology System
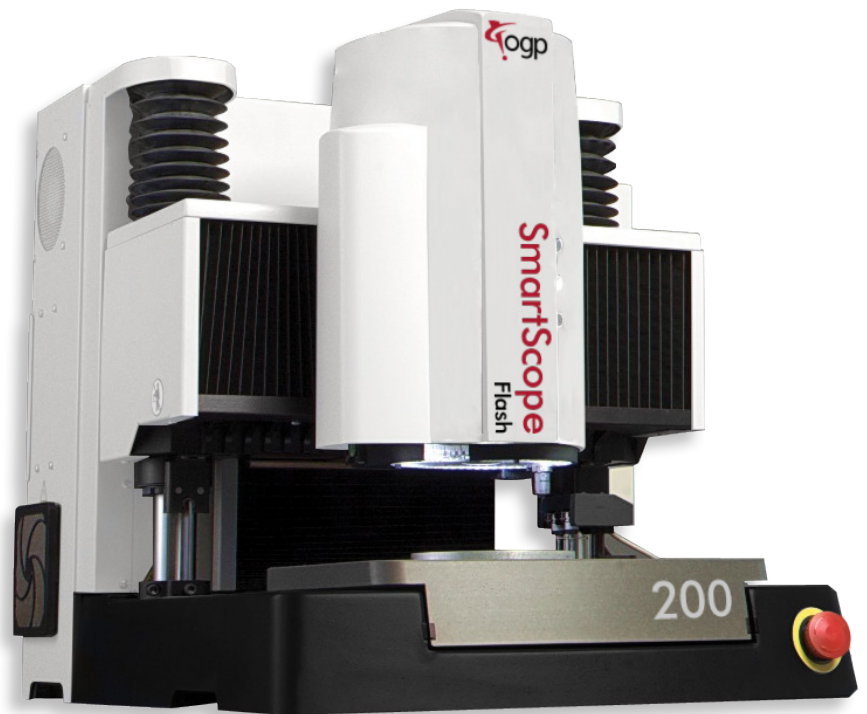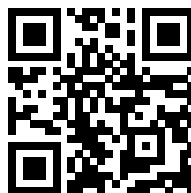
SmartScope Flash 200 – A 3D multisensor dimensional measuring system that fits on a benchtop. The elevating bridge provides a larger working area than similar designs. Flash 200 offers:

- **Precision Optics –** 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.
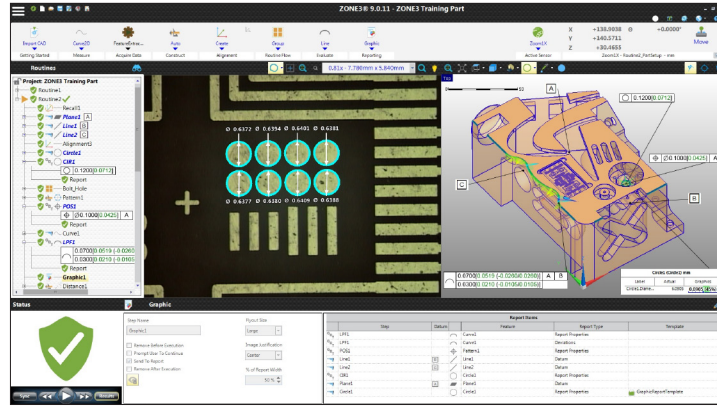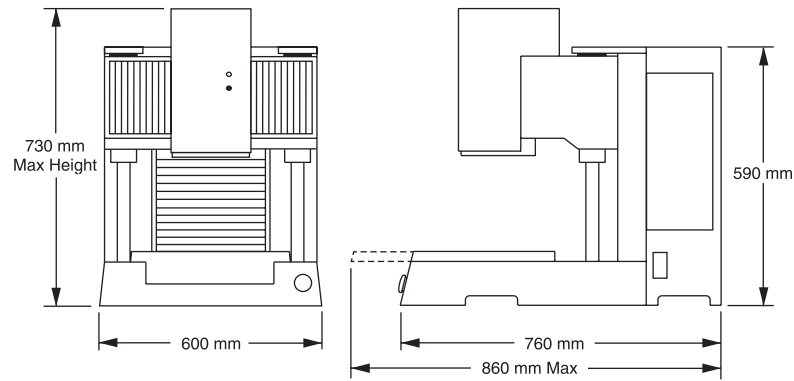

Shown with optional Touch Probe and TTL Laser.

SmartScope® Flash™ 200

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

730 mm Max Height

600 mm

590 mm

760 mm

860 mm Max

System Weight: 100 kg
Shipping Weight: 150 kg

	Standard	Optional
XYZ Travel	200 x 200 x 150 mm	
XYZ Scale Resolution	0.1 µm, including dual Z-axis scales	
Drive System	DC servo with 4-axis control (X, Y, Z, zoom); with multifunction handheld controller	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 16 kg recommended max payload	
Rotary Axis		Miniature Servo Rotary (MSR™)
Optics*	AccuCentric® auto-compensating zoom, motorized; 1.0x lens	**Focus Grid Projector:** LED Source **Laser Adapter:** Allows for field retrofit of TTL Laser. Includes Laser Pointer **Replacement Lenses:** 2.5x, 5.0x **Laser Lenses:** 2.0x (Included with TTL Laser), 5.0x **Lens Attachments for 1.0x Lens:** 0.5x, 0.75x, 1.5x, 2.0x
Illumination	Substage LED profile, coaxial LED surface, SmartRing LED ring light (white)	Red, Green, or Blue SmartRing; Flexible SmartRing for 0.5x lens attachment
Metrology Camera	Color metrology camera	Monochrome metrology camera
Field of View**	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)
Working Distance	64 mm	Up to 97 mm (1.0x lens, 0.5x attachment)
Sensor Options**		**Tactile:** TP20 or TP200 Touch Probe, SP25 Scanning Probe, Feather Probe™ **Non-Contact:** Through-the-Lens (TTL) Laser
Software	• ZONE3 Express or Measure-X metrology software • QVI® Portal	**Metrology software:** ZONE3 Prime, ZONE3 Pro **Productivity software:** Measure-X® Analyze, EVOLVE® Suite (Design, Manufacturing, SmartProfile®, SPC) **Offline software:** ZONE3, Measure-X
System Controller	Windows® based, with up-to-date processor and onboard networking/communication ports	
Controller Options		24" flat panel, or dual 24" flat panel LCD monitors; keyboard, 3-button mouse (or user supplied)
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 900 W	
Safe Operating Environment	15-30 °C, non-condensing	
Rated Environment	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	
XY Area Accuracy	$E_2 = (2.0 + 6L/1000)$ µm	
Z Linear Accuracy	$E_1 = (3.5 + 6L/1000)$ µm	

Accuracy is evaluated with a QVI compensation and 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.

Confidence. When Results Matter.™

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