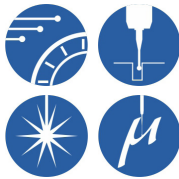


SmartScope® Flash 250

- *Production ready* – Rugged compound stage benchtop machine with a small footprint, can be used almost anywhere
- *Precision optics* – High quality Zoom 12 AccuCentric® zoom lens autocalibrates with every magnification change
- *Superb illumination for the best video measurements* – Substage, TTL, and SmartRing™ light illuminate parts from all angles
- *Multisensor versatility* – Optional touch probe, laser, and micro-probe sensors

Great Value in a Benchtop Video Measurement System



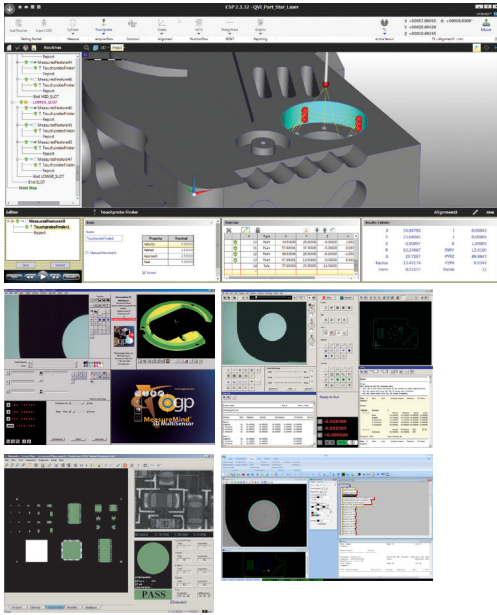
Axis	Travel (mm)
X axis	300
Y axis	150
Z axis	200



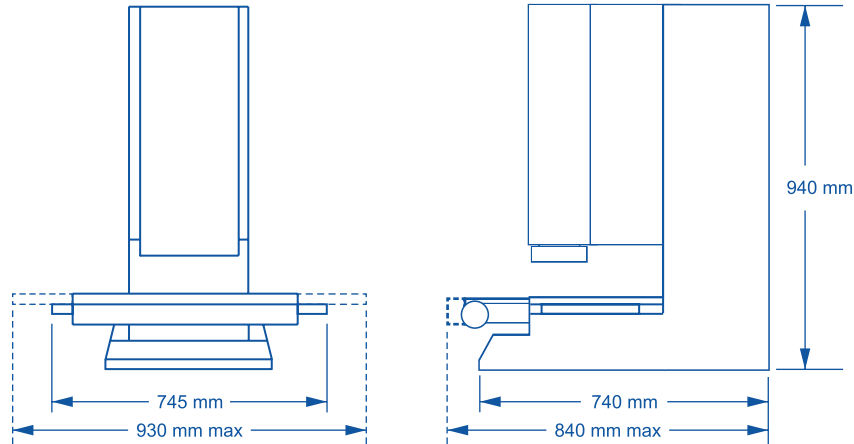
Shown with optional touch probe & DRS™ laser



SmartScope® Flash 250



Choose the QVI metrology software best suited to your manufacturing setting — 3D CAD-based ZONE3®, MeasureMind® 3D, Measure-X®, VMS™ or Elements®.



Machine Weight: 120 Kg
Crated Weight: 275 Kg

	Standard	Optional
XYZ travel	300 x 150 x 200 mm	
XYZ scale resolution	0.5 µm	0.1 µm
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, 25 kg recommended max payload	
Optics	Zoom 12 AccuCentric® auto-calibrating zoom with up to 25 calibrated positions	0.5x, 0.75x, 1.5x, and 2.0x lens attachments; 2.5x and 5.0x laser lenses (for use with or without optional TTL laser), LED grid projector; TTL laser pointer (not available with TTL laser sensor)
FOV size (std optical configuration)	Measured diagonally, 10.1 mm (low mag) to 1.1 mm (high mag)	
Illumination	LED substage (monochromatic), LED coaxial TTL surface, 8 sector/8 ring SmartRing™ LED (white)	<ul style="list-style-type: none"> Flexible SmartRing light for long working distance optical configurations (in lieu of standard SmartRing light) 8 sector/6 ring Vu-Light™ LED ring light, standard working distance (70 mm), or low incidence working distance (36 mm) (in lieu of standard SmartRing light) Red or green SmartRing light (in lieu of standard white SmartRing light)
Camera	High resolution color metrology camera	
Image processing	256 level grayscale processing with 10:1 subpixel resolution	
Sensor options (contact OGP for possible combinations of sensors)		Touch probe and change rack (touch probe not available with optional Vu-Light), on-axis TTL laser, off-axis DRS™ laser, Feather Probe™, Rainbow Probe™ scanning white light sensor
Controller	Windows® based, with up-to-date processor and on board networking/communication ports	
Controller accessory package		24" flat panel LCD monitor, or dual 24" flat panel LCD monitors; keyboard, 3-button mouse (or user supplied)
Software	QVI Portal, including: <ul style="list-style-type: none"> Portal Navigator Independent Calibration Engine (ICE) Multimedia Content Viewer SmartLink™ 	Metrology software: ZONE3® or ZONE3 Pro, MeasureMind® 3D MultiSensor, Measure-X®, VMS™, Elements® Productivity software: MeasureFit® Plus, SmartFit® 3D, SmartProfile® Offline software: ZONE3, MeasureMind 3D MultiSensor, Measure-X, VMS
Power requirements	115/230 vac, 50/60 Hz, 1 phase, 600 W	
Rated environment	Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz	
Operating environment, safe operation	15-30° C	
XY area accuracy¹	$E_z = (2.5 + 5L/1000) \mu\text{m}^{2,3,4}$	
Z linear accuracy¹	$E_z = (3.0 + 5L/1000) \mu\text{m}^4$	$E_z = (2.0 + 5L/1000) \mu\text{m}^4$ (with optional 2.0x replacement lens and grid projector, TTL laser, DRS laser, or TP20 or TP200 touch probe)

¹Where L = measuring length in mm. Applies to thermally stable system in rated environment. All optical accuracy specifications at maximum zoom lens setting.

²With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.

³Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.

⁴E_z Z axis linear and E_z XY area accuracy standards are described in QVI Publication Number 790762.



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