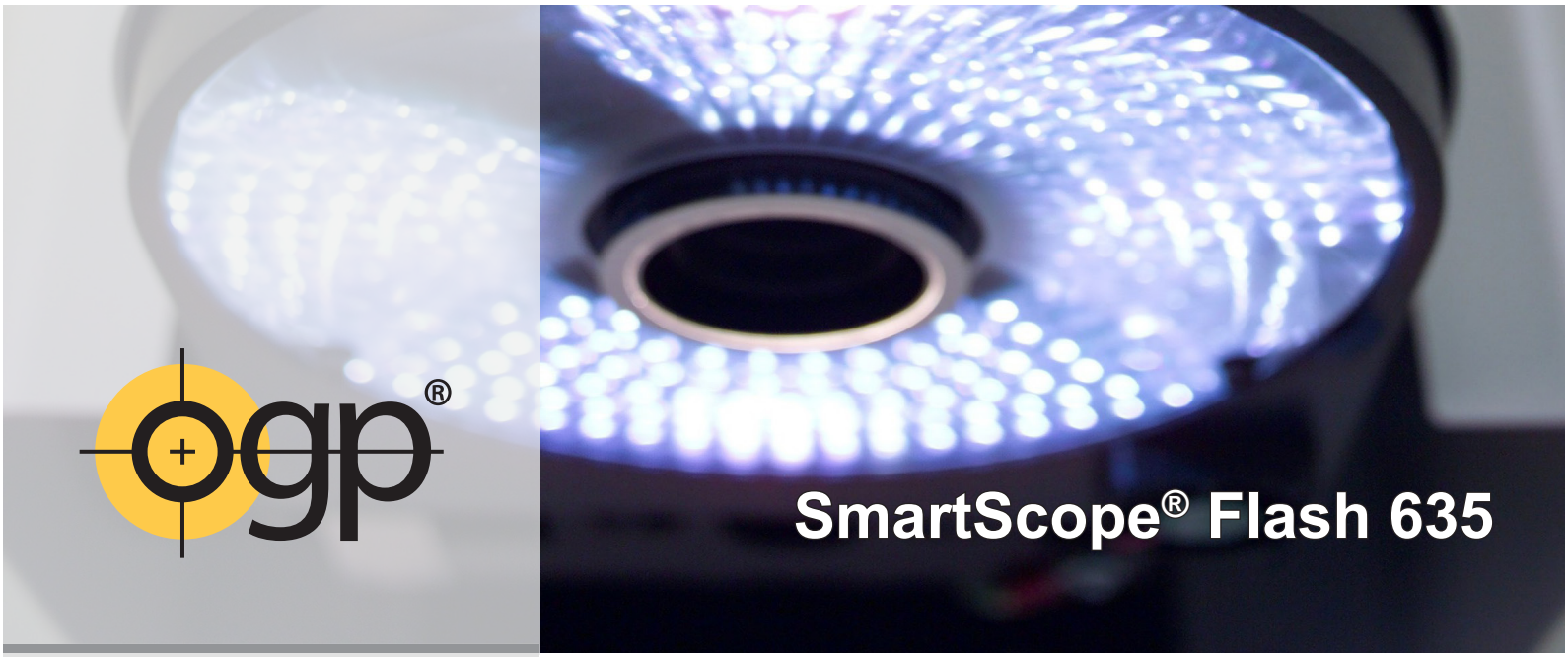


SmartScope® Flash 635

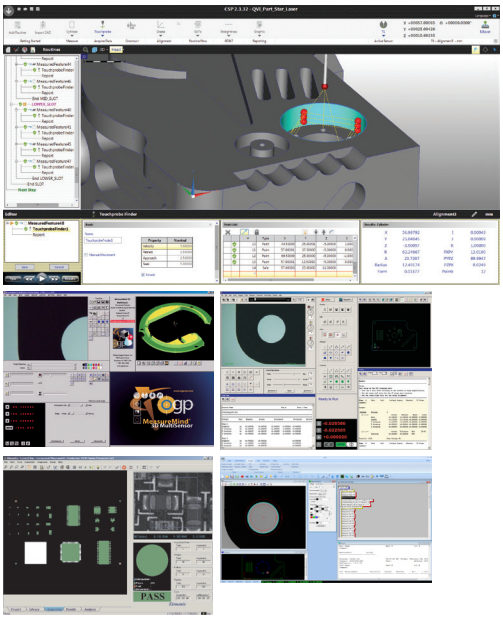
High Speed Multisensor Measuring System for Large Parts

- *Built-in measurement stability* – A granite base and extruded aluminum bridge provide a rigid, orthogonal structure for measurement stability
- *Precision optics* – High quality Zoom 12 AccuCentric® zoom lens auto-compensates with every magnification change
- *High speed enhances productivity* – High acceleration and velocity in all three measurement axes
- *High reliability transport* – Rigid drive system contributes to long-term reliability
- *Multisensor versatility* – Optional non-contact sensors and touch probes

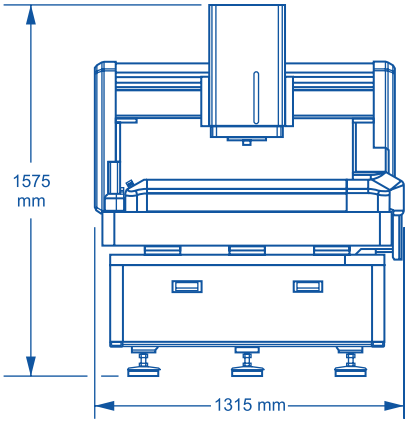
Axis	Travel (mm)
X axis	635
Y axis	635
Z axis	200
Extended Y (Opt)	850

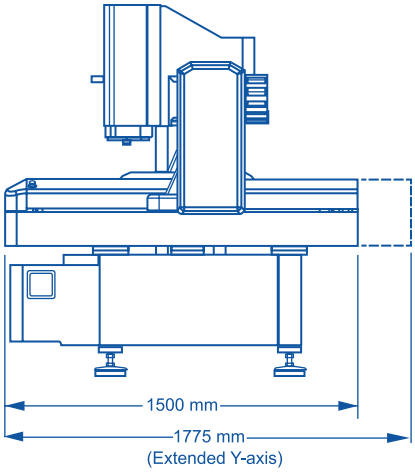
Shown with optional touch probe

SmartScope® Flash 635



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





Machine Weight: 1310 Kg

	Standard	Optional
XYZ travel	635 x 635 x 200 mm	635 x 850 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	
Transport velocity/acceleration	Velocity: X,Y = 500 mm/sec, Z = 100 mm/sec; Acceleration: X,Y = 1000 mm/sec^2, Z = 300 mm/sec^2	
Worktable	Nickel plated steel, with fixture holes, removable stage glass, 50 kg recommended max payload	
Optics	Zoom 12 AccuCentric® auto-compensating lens system with up to 25 zoom 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, laser adapter (includes laser pointer)
FOV size (std optical configuration)	Measured diagonally, 10.1 mm (low mag) to 1.1 mm (high mag)	
Illumination	Substage LED profile (monochromatic), LED coaxial TTL surface, 8 sector/8 ring SmartRing™ LED (white)	• 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, on-axis TTL laser, off-axis DRS™ laser, Rainbow Probe™ scanning white light sensor; Feather Probe™
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:** • 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	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1000 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 accuracy[1]	$E_2 = (3.0 + 5L/1000)$ µm[2,3]	
Z linear accuracy[1]	$E_1 = (3.0 + 5L/1000)$ µm[3]	

[1]Where L = measuring length in mm. Applies to thermally stable system in rated environment. All optical accuracy specifications at maximum zoom lens setting.
[2]Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.
[3]E_1 Z axis linear, and E_2 XY area accuracy standards are described in QVI Publication Number 790762.

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