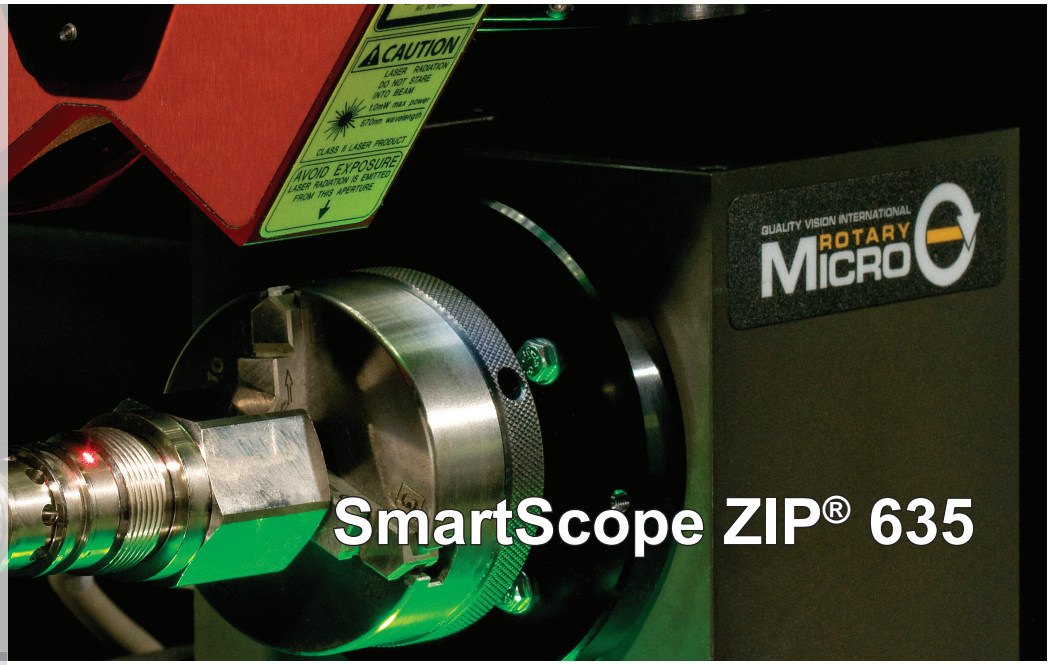


SmartScope ZIP® 635

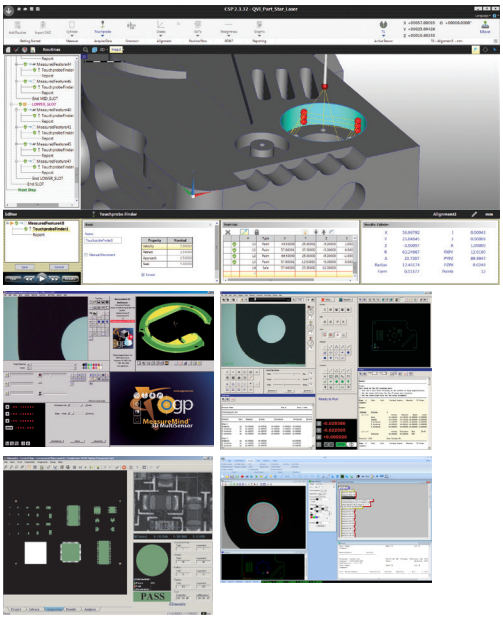
High Speed Multisensor Measuring System for Large Parts

- *Accurate video metrology* – AccuCentric® motorized zoom lens auto-compensates with every magnification change
- *Built-in measurement stability* – A granite base and extruded aluminum bridge provide a rigid, orthogonal structure for measurement stability
- *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

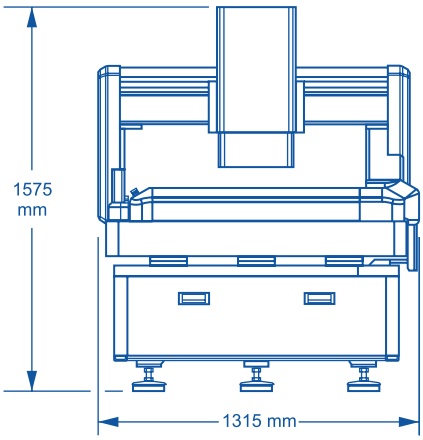
Axis	Travel (mm)
X axis	635
Y axis	635
Z axis	200
Extended Y (Opt)	850

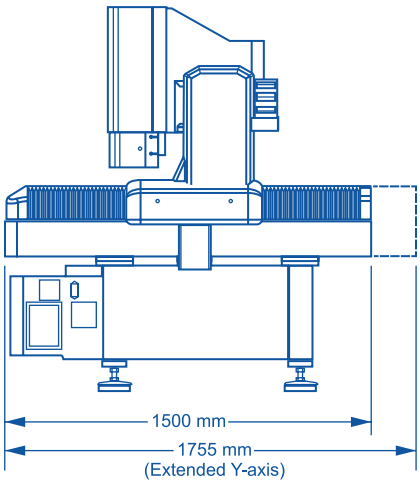
Shown with optional touch probe & change rack

SmartScope ZIP® 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	0.1 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	AccuCentric® auto-compensating zoom, motorized; 1.0x front replacement lens; 1.0x adapter tube; 2.0x lens attachment	0.5x, 0.75x, 1.5x lens attachments; 1.0x LWD (not for use with SmartRing™ light), 2.5x, 5.0x, 10.0x front replacement lenses; autofocus LED grid projector; laser adapter (includes laser pointer)
FOV size (std optical configuration)	Measured diagonally, 5.0 mm (low mag) to 0.9 mm (high mag)	
Illumination	Substage LED profile (monochromatic), coaxial LED surface (white), SmartRing LED ring light (white)	VuLight™ LED oblique illuminator, small fiber optic ring light, fiber optic surface light, large fiber optic ring light
Camera	High resolution color metrology camera	High resolution black & white digital 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 = (2.5 + 5L/1000) µm[2,3]	
Z linear accuracy[1]	E_1 = (2.0 + 5L/1000) µm^3 (with 2.0x lens attachment)	E_1 = (1.8 + 5L/1000) µm^3 (with optional TTL laser, or DRS-2000 laser) E_1 = (1.3 + 5L/1000) µm^3 (with optional DRS-300 or -500 laser, or TP20 or TP200 touch probe)

[1]Where L = measuring length in mm. Applies to thermally stable system in rated environment. Maximum rate of temperature change: 1° C/hour. Maximum vertical temperature gradient: 1° C/meter. 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.

Phone: (585) 544-0400 • (800) 647-4243
Fax: (585) 544-8092
info@ogpnet.com
www.ogpnet.com