Ogp®

SmartScope ZIP® Advance 250

- High resolution positioning 0.05 µm scales and dual Xaxis scales provide extremely high-resolution positioning
- Sharpest video image AccuCentric[®] Zoom 70 lens system with high-resolution digital metrology camera and three light sources to provide the sharpest image fidelity
- Advanced sensor capability Optional high resolution sensors for specialized measurements
- State-of-the-art software Choose from a variety of powerful QVI metrology, productivity and offline software applications

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

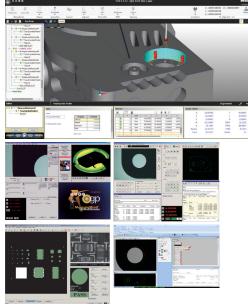
High Performance Dimensional Measuring System with Advanced Sensor Capability



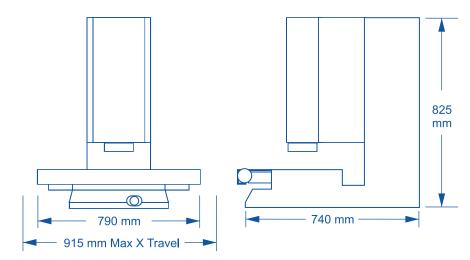








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Choose the QVI metrology software best suited to your manufacturing setting — 3D CAD-based ZONE3®, MeasureMind[®] 3D, Measure-X[®], VMS[™] or Elements[®].

Machine Weight: 120 Kg Crated Weight: 280 Kg

	Standard	Optional	
XYZ travel	300 x 150 x 200 mm		
XYZ scale resolution	0.05 µm, with dual X scales		
Drive system	DC servo drives with 4-axis control (X,Y,Z & zoom); fine pitch Z-axis drive; multifunction handheld controller		
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 25 kg recommended max load		
Maximum stage velocity	X,Y 150 mm/sec; Z 25 mm/sec		
Optics	AccuCentric [®] Zoom 70 auto-calibrating lens system; 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 Vu-Light [™]), 2.5x, 5.0x, 10.0x front replacement lenses; 0.67x, 2.0x adapter tubes; autofocus LED grid projector; laser pointer (included with optional TTL laser)	
FOV size (std optical configuration)	Measured diagonally, 5.4 mm (low mag) to 0.95 mm (high mag)		
Illumination	High-performance LED profile light (monochromatic), TTL surface light (white), low incidence oblique Vu-Light LED ring light (white)	Adjustable 32 mm diameter fiber optic ring light, in lieu of Vu-Light	
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, off-axis DRS™ laser or TeleStar [®] Probe, on-axis TTL laser, off-axis Rainbow Probe™ scanning white light sensor, Feather Probe™, SP25 scanning 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 Productivity software: MeasureFit® Plus, SmartFit® 3D, SmartProfile® Offline software: ZONE3, MeasureMind 3D MultiSensor	
Power requirements	110-120 vac or 200-240 vac, 50/60 Hz, 1 phase, 700 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 = (1.25 + 6L/1000) μm ^{2.3,4}		
Z linear accuracy ¹	E ₁ = (2.5 + 5L/1000) μm ⁴	E_1 = (2.0 + 5L/1000) μm^4 (with optional TTL laser) E_1 = (1.4 + 5L/1000) μm^4 (with optional DRS-300 or -500 laser, or TP20 or TP200 touch probe)	

¹Where L = measuring length in mm. Applies to thermally stable system in rated environment. Optical accuracy specifications at maximum optical magnification and 1:1 digital pixel resolution. ³With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum recommended load may be less than standard accuracy. ³Weasured in the standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. ⁴E, Z axis linear and E₂XY area accuracy standards are described in QVI Publication Number 790762.



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