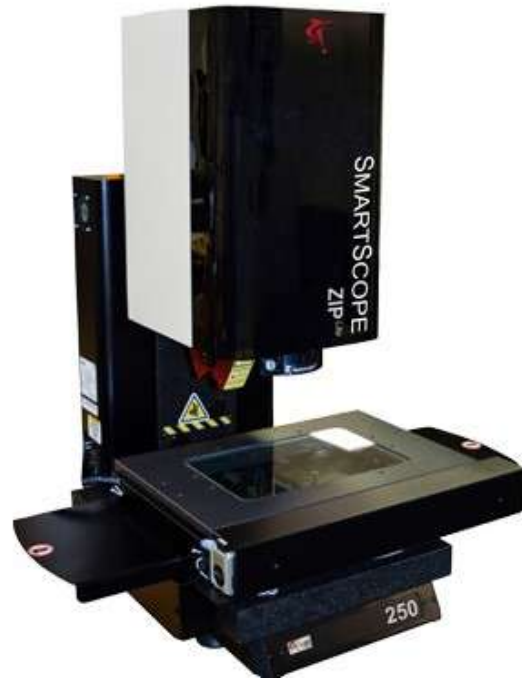


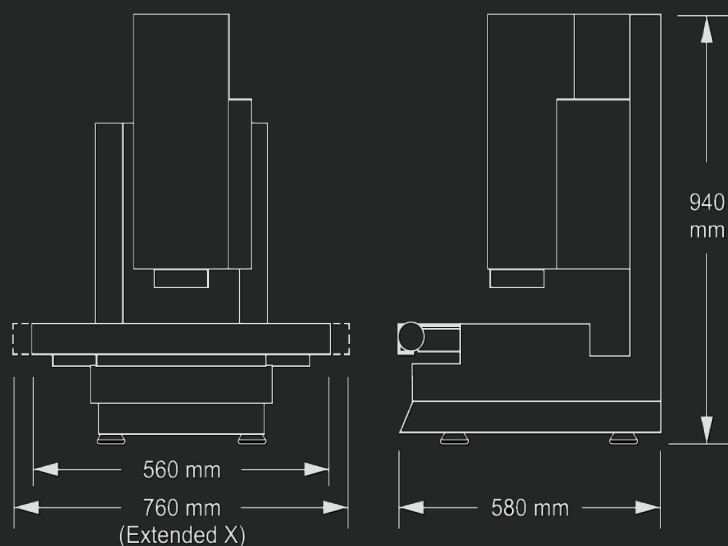
- **Accurate video metrology** –
AccuCentric® motorized zoom lens automatically compensates magnification for each zoom position
- **Shop tough** –
Rugged construction with rigid granite base and column, hard-ened worktable, and heavy duty mechanical slides
- **Multisensor versatility** –
Optional non-contact sensors and touch probes
- **Cost effective and capable**–
SmartScope ZIP Lite is the cost effective way to get the benefits of automatic inspection and measurement



ZIP Lite – SmartScope Performance in a Compact Benchtop System

Axis	Travel (mm)
X axis	250
Y axis	150
Z axis	150
Extend. Y (opt)	300

Machine Weight: 128
KgCrated Weight: 245





Technical data SmartScope ZIP Lite 250

	Standard	Optional
XYZ travel	250 x 150 x 150 mm	Extended X axis, 300 mm
XYZ scale resolution	0.5 μ m	
Drive system	Stepper motors, X & Y; DC servo, Z & Zoom	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 20 kg recommended max payload	
Maximum stage velocity	X,Y 200 mm/sec; Z 50 mm/sec	X,Y 300 mm/sec
Rotary axis		Miniature Servo Rotary (MSR), MicroTheta Rotary (MTR)
Optics	AccuCentric [®] auto-compensating lens system; 1.0x front replacement lens; 1.0x adapter tube;	0.5x, 0.75x, 1.5x, 2.0x lens attachments; 0.67x, 2.0x adapter tubes;
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 TTL (white), SmartRing LED ring light (white)	
Camera	High resolution black & white digital 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, off-axis TM DRS [™]
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 [®] Express, Prime or Pro; MeasureMind [®] 3D Productivity software: MeasureFit [®] Plus, SmartFit [®] 3D, SmartProfile [®] Offline software: ZONE3, MeasureMind 3D
Power requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 300 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	$E_2 = (2.0 + 6L/1000) \mu\text{m}_{1,2,3,4}$	$E_2 = (2.0 + 8L/1000) \mu\text{m}_{1,2,3,4}$ (with optional extended X axis)
Z linear accuracy	$E_1 = (3.5 + 6L/1000) \mu\text{m}_{1,4}$	$E_1 = (1.4 + 5L/1000) \mu\text{m}_{1,4}$ (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. Maximum rate of temperature change: 1 °C/hour. Maximum vertical temperature gradient: 1 °C/meter. 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. 4E1 Z axis linear and E2 XY area accuracy standards are described in QVI Publication Number 790762.