

- **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

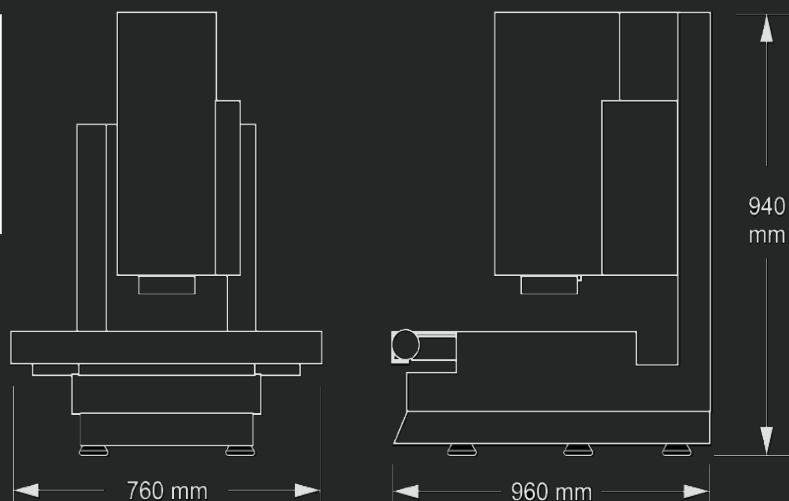
- **Cost effective and capable**—SmartScope ZIP Lite is the cost effective way to get the benefits of automatic inspection and measurement



Shown with optional touch probe

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

Machine Weight: 175 Kg
Crated Weight: 300 Kg



Technical data SmartScope ZIP Lite 300

	Standard	Optional
XYZ travel	300 x 300 x 150 mm	
XYZ scale resolution	0.05 μm	
Drive system	Stepper motors, X & Y; DC servo, Z & Zoom	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 25 kg recommended max load	
Rotary axis		Miniature Servo Rotary (MSR), MicroTheta Rotary (MTR),
Optics	AccuCentric [®] auto-compensating zoom, motorized; 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 color 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 DRS [™] laser
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	110-120 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	$E_2 = (2.5 + 8L/1000) \mu\text{m}_{1,2,3,4}$	
Z linear accuracy	$E_1 = (3.5 + 6L/1000) \mu\text{m}_{1,4}$	$E_1 = (2.5 + 5L/1000) \mu\text{m}_{1,4}$ (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.

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