



**Optical
Gaging
Products**



A Division of Quality
Vision International



SmartScope® ZIP Lite 300

- *Accurate video metrology* – 5:1 AccuCentric® motorized zoom lens autocalibrates with every magnification change
- *Shop tough* – Rugged construction with rigid granite base and column, hardened 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

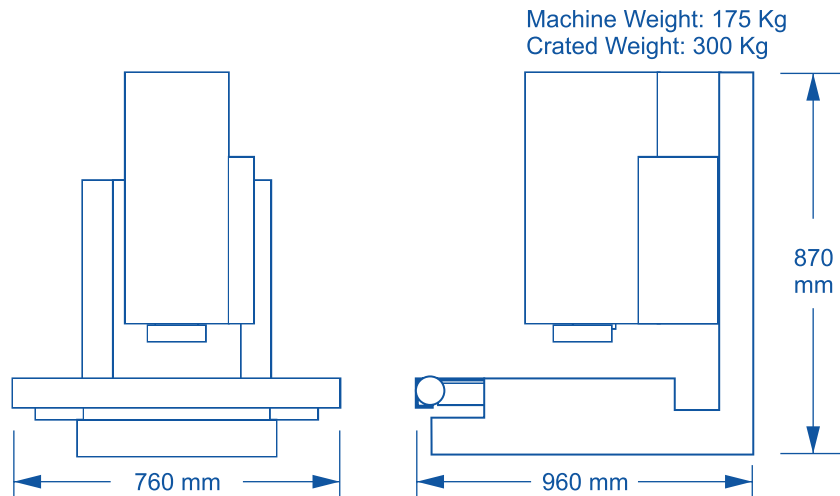
ZIP Lite – SmartScope Performance in a Benchtop Video Measurement System



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



SmartScope® ZIP Lite 300



	Standard	Optional
XYZ travel	300 x 300 x 150 mm	
XYZ scale resolution	0.5 µm	
Drive system	Stepper motors, X & Y; DC servo, Z & Zoom, joystick control	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 25 kg recommended max payload	
Optics	5:1 AccuCentric® auto-calibrating 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 (green), coaxial LED surface TTL (white), patented ¹ SmartRing LED ring light (white)	
Camera	High resolution, color	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)
Metrology software	MeasureMind® 3D MultiSensor	Measure-X®, MeasureMind 3D Offline
Productivity software		MeasureFit® Plus, SmartReport® powered by QC-Calc, SmartFit® 3D, SmartProfile®, Scan-X®, TrueMap™, SmartScript®, SmartTree™
Power requirements	115/230 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 ¹	$E_2 = (2.5 + 8L/1000) \mu\text{m}^{2,3,4}$	
Z linear accuracy ¹	$E_1 = (3.5 + 6L/1000) \mu\text{m}^4$	$E_1 = (2.5 + 5L/1000) \mu\text{m}^4$ (with optional DRS-300 or -500 laser, or TP20 or 200 touch probe)

¹Patent Number 5,690,417

²Where L = measuring length in mm. Applies to thermally stable system in rated environment. All optical accuracy specifications at maximum zoom lens setting.

³With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.

⁴Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.

⁵E₁, Z axis linear and E₂, XY area accuracy standards are described in QVI Publication Number 790762.



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