



SmartScope ZIP® Lite 250

- **Shop tough –**
Rugged construction with rigid granite base and column, hardened worktable, and heavy duty mechanical slides
- **Accurate video metrology –**
AccuCentric® motorized zoom lens automatically compensates magnification for each zoom position
- **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

Trusted SmartScope ZIP Performance in a Compact Benchtop System

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

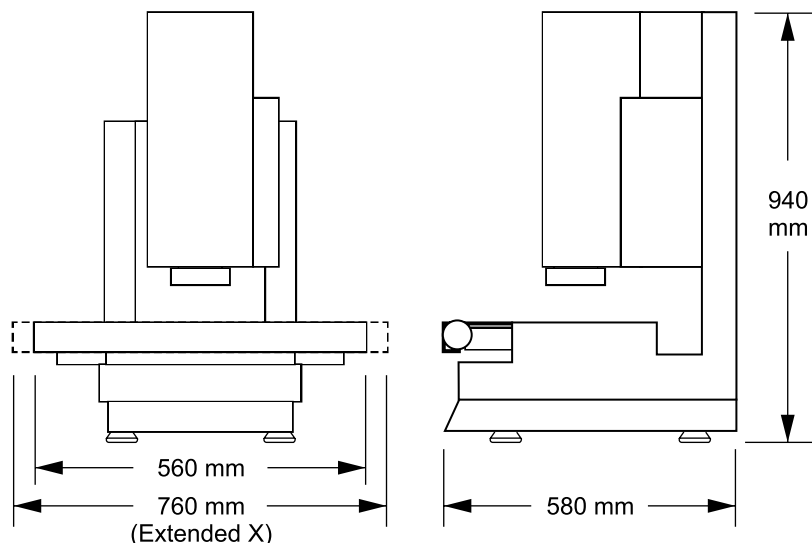


Shown with optional DRS™ laser

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Choose the metrology software best suited to your manufacturing setting — ZONE3®, MeasureMind® 3D or Measure-X®.



System Weight: 128 kg
Shipping Weight: 245 kg

	Standard	Optional
XYZ Travel	250 x 150 x 150 mm	Extended X axis, 300 mm
XYZ Scale Resolution	0.5 µm	
Drive System	Stepper motors, X & Y; DC servo, Z & Zoom	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 20 kg recommended max payload	
Rotary Axis		Miniature Servo Rotary (MSR), MicroTheta Rotary (MTR)
Optics*	AccuCentric® auto-compensating zoom, motorized; 1.0x lens; 1.0x adapter tube	Replacement Lens: 2.0x Lens Attachments for 1.0x Lens: 0.5x, 0.75x, 1.5x, 2.0x Factory Installed Adapter Tubes: 0.67x, 2.0x
FOV Range	6.6 mm x 5.0 mm (low zoom) to 1.2 mm x 0.9 mm (high zoom)	15.0 mm x 11.3 mm (0.67x tube, 1.0x lens, 0.5x attachment) to 0.33 mm x 0.25 mm (2.0x tube, 2.0x lens)
Working Distance	63 mm	Up to 85 mm (1.0x lens, 0.5x attachment)
Illumination	Substage LED profile (green), coaxial LED surface TTL (white), SmartRing™ LED ring light (white)	
Camera	Color digital metrology camera	Black & white digital metrology camera
Sensor Options		Tactile: TP20 or TP200 Touch Probe Non-contact: 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	<ul style="list-style-type: none"> Choice of ZONE3 Express, Measure-X or MeasureMind 3D metrology software QVI Portal 	Metrology software: ZONE3 Prime, ZONE3 Pro Productivity software: MeasureFit® Plus, SmartFit® 3D, SmartProfile®, E-SPC Offline software: ZONE3, MeasureMind 3D, Measure-X
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 500 W	
Operating Environment, Safe Operation	15-30 °C	
Rated Environment	Temperature 18-22 °C, stable to ±1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
XY Area Accuracy	$E_z = (2.0 + 6L/1000) \mu\text{m}$	
Z Linear Accuracy	$E_1 = (3.5 + 6L/1000) \mu\text{m}$	$E_1 = (2.5 + 5L/1000) \mu\text{m}$ (requires optional DRS, TP20 or TP200)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Depending on load distribution, accuracy at maximum payload may be less than standard.

*Lenses and lens attachments can be manually interchanged to change magnification and working distance. Adapter tubes can be manually changed to change magnification without impacting work distance, but unlike lens changes, adapter tube changes require optical system realignment and recompensation.



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