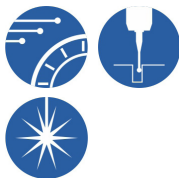


## SmartScope ZIP<sup>®</sup> Lite 300

- *Accurate video metrology* – 7:1 AccuCentric<sup>®</sup> 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



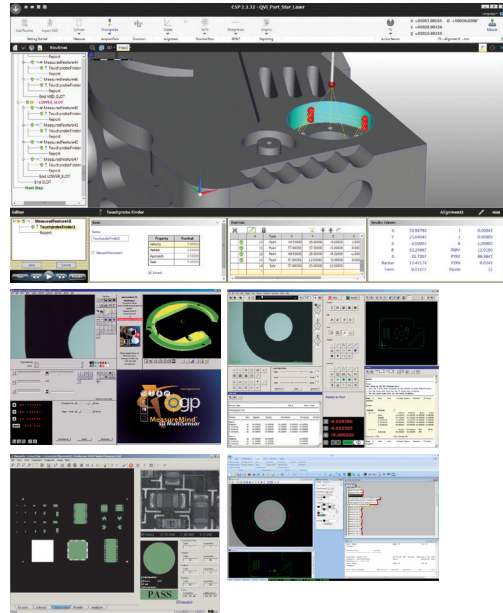
Axis	Travel (mm)
X axis	300
Y axis	300
Z axis	150



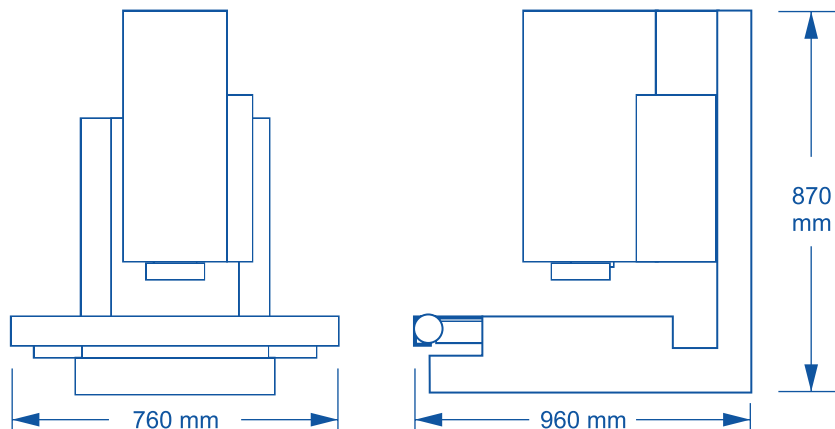
Shown with optional DRS<sup>™</sup> laser, touch probe & change rack



# SmartScope ZIP® Lite 300



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



Machine Weight: 175 Kg  
Crated Weight: 300 Kg

	Standard	Optional
<b>XYZ travel</b>	300 x 300 x 150 mm	
<b>XYZ scale resolution</b>	0.5 µm	
<b>Drive system</b>	Stepper motors, X & Y; DC servo, Z & Zoom	
<b>Worktable</b>	Hardcoat anodized, with fixture holes, removable stage glass, 25 kg recommended max payload	
<b>Optics</b>	7:1 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; 2.0x front objective lens (cannot be combined with lens attachments)
<b>FOV size (std optical configuration)</b>	Measured diagonally, 5.0 mm (low mag) to 0.9 mm (high mag)	
<b>Illumination</b>	Substage LED profile (monochromatic), coaxial LED surface TTL (white), SmartRing LED ring light (white)	
<b>Camera</b>	High resolution color metrology camera	High resolution black & white digital metrology camera
<b>Image processing</b>	256 level grayscale processing with 10:1 subpixel resolution	
<b>Sensor options (contact OGP for possible combinations of sensors)</b>		Touch probe and change rack, off-axis DRS™ laser
<b>Controller</b>	Windows® based, with up-to-date processor and on board networking/communication ports	
<b>Controller accessory package</b>		24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)
<b>Software</b>	<b>QVI Portal, including:</b> <ul style="list-style-type: none"> <li>• Portal Navigator</li> <li>• Independent Calibration Engine (ICE)</li> <li>• Multimedia Content Viewer</li> <li>• SmartLink™</li> </ul>	<b>Metrology software:</b> ZONE3® or ZONE3 Pro, MeasureMind® 3D MultiSensor, Measure-X®, VMS™, Elements® <b>Productivity software:</b> MeasureFit® Plus, SmartFit® 3D, SmartProfile® <b>Offline software:</b> ZONE3, MeasureMind 3D MultiSensor, Measure-X, VMS
<b>Power requirements</b>	115/230 vac, 50/60 Hz, 1 phase, 300 W	
<b>Rated environment</b>	Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz	
<b>Operating environment, safe operation</b>	15-30° C	
<b>XY area accuracy<sup>1</sup></b>	$E_2 = (2.5 + 8L/1000) \mu\text{m}^{2,3,4}$	
<b>Z linear accuracy<sup>1</sup></b>	$E_1 = (3.5 + 6L/1000) \mu\text{m}^4$	$E_1 = (2.5 + 5L/1000) \mu\text{m}^4$ (with optional DRS-300 or -500 laser, or TP20 or TP200 touch probe)

<sup>1</sup>Where L = measuring length in mm. Applies to thermally stable system in rated environment. All optical accuracy specifications at maximum zoom lens setting.

<sup>2</sup>With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.

<sup>3</sup>Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.

<sup>4</sup>E<sub>1</sub> Z axis linear and E<sub>2</sub> XY area accuracy standards are described in QVI Publication Number 790762.



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