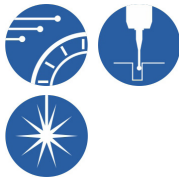


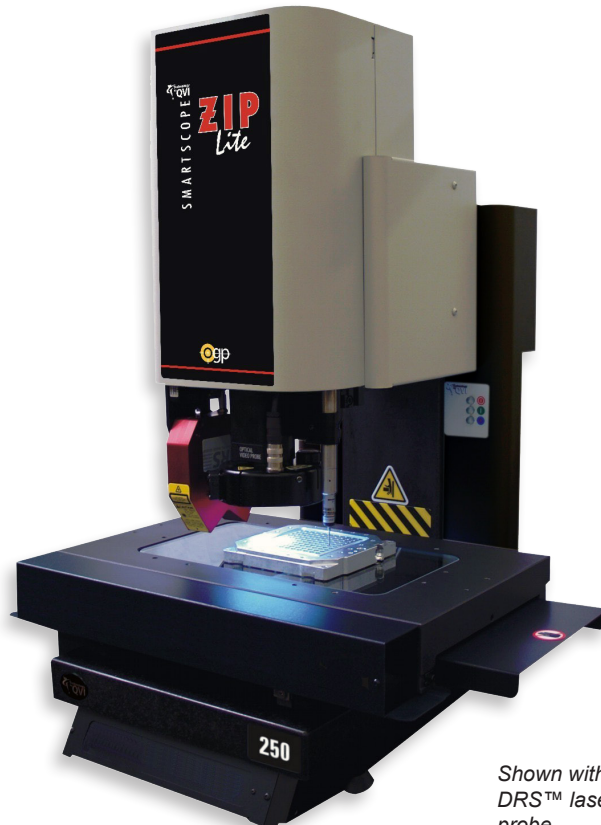
SmartScope ZIP[®] Lite 250

- *Accurate video metrology* – 7:1 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 Compact Benchtop System



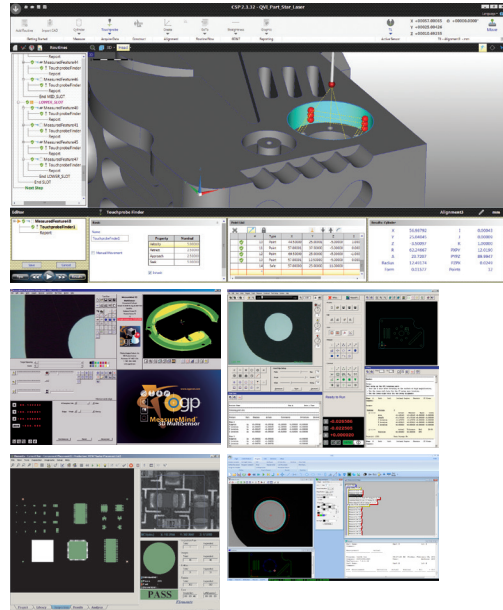
| Axis | Travel (mm) |
|------------------|-------------|
| X axis | 250 |
| Y axis | 150 |
| Z axis | 150 |
| Extended X (opt) | 300 |



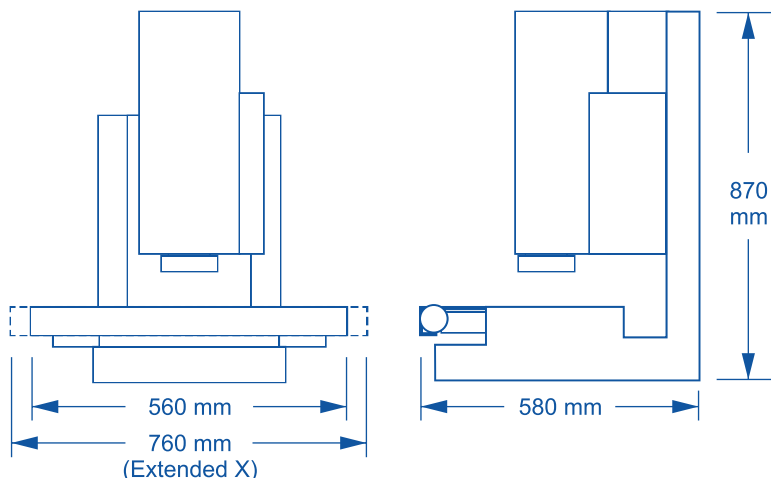
Shown with optional
DRS[™] laser & touch
probe



SmartScope ZIP® Lite 250



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



Machine Weight: 128 Kg
Crated 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 | |
| Optics | 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) |
| 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 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® or ZONE3 Pro, MeasureMind® 3D MultiSensor, Measure-X®, VMS™, Elements® Productivity software: MeasureFit® Plus, SmartFit® 3D, SmartProfile® Offline software: ZONE3, MeasureMind 3D MultiSensor, Measure-X, VMS |
| 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 accuracy¹ | $E_2 = (2.0 + 6L/1000) \mu\text{m}^{2,3,4}$ | $E_2 = (2.0 + 8L/1000) \mu\text{m}^{2,3,4}$ (with optional extended X axis) |
| Z linear accuracy¹ | $E_1 = (3.5 + 6L/1000) \mu\text{m}^4$ | $E_1 = (2.5 + 5L/1000) \mu\text{m}^4$ (with optional DRS-300 or -500 laser, or TP20 or TP200 touch probe) |

¹Where L = measuring length in mm. Applies to thermally stable system in rated environment. 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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