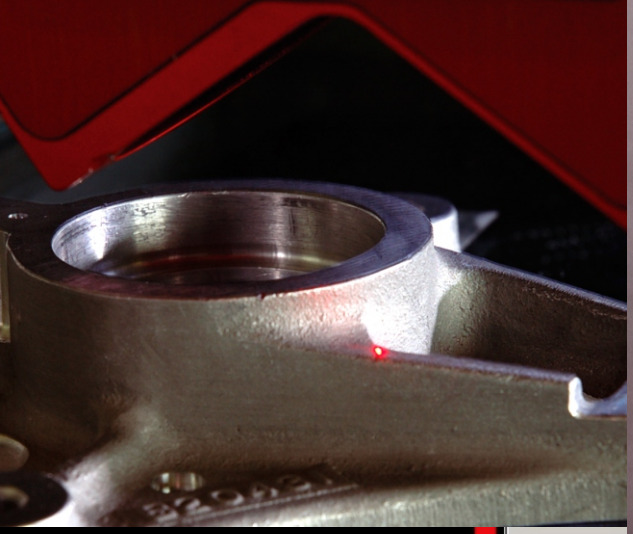

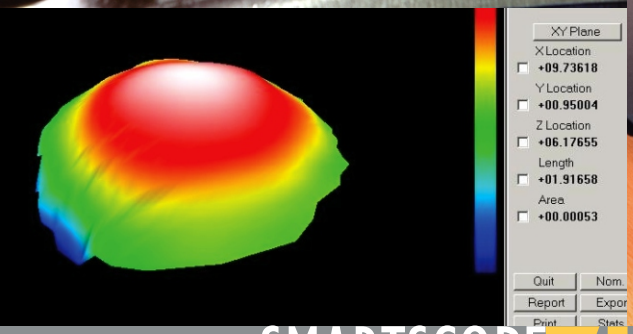

SMARTSCOPE ZIP

The Standard for Benchtop Video Metrology

	Travel	mm
ZIP 250	X axis Y axis Z axis	250 150 200
Extended X (Option)	X axis	300

SmartScope ZIP® 250 is the preferred video measurement system of manufacturers around the world. Video measurement capabilities are enhanced by a high-resolution color video camera, and full spectrum LED illumination provides enhanced imaging, improving video signal processing. As a multisensor machine, SmartScope ZIP 250 is available with contact and non-contact probes, including the unique switchable TTL (through-the-lens) laser.

- The innovative ergonomic controller combines joystick stage control and other important operational controls.
- SmartScope ZIP 250 is reliably constructed with a cast metal base, steel column, hardened worktable, and heavy duty mechanical slides.
- SmartScope ZIP 250 features OGP® MeasureMind® 3D MultiSensor metrology software, designed to take full advantage of a 3D measurement environment. It combines a user-friendly interface with high-powered algorithms, yielding dependable and reliable performance.
- SmartScope ZIP 250 is highly capable. Its video performance and optional non-contact point sensors and touch probes allow ZIP 250 to verify the most complex dimensions.

The Updated Industry Standard

Technical Specifications

■ Standard □ Optional

■	**Stage travel (XYZ):** 250 x 150 x 200 mm
□	**Extended X axis:** 300 mm
■	**Measuring unit dimensions (LWH):** 74 x 54 x 80 cm, 120 kg
■	**Computer dimensions (LWH):** 76 x 45 x 56 cm, 23 kg
■	**Scale resolution:** 0.1 µm
■	**Motor drives:** DC servo
■	**Manual stage control:** 4 axis (X,Y,Z,zoom) with ergonomic, multi-function handheld controller
■	**Stage velocity:** X&Y axes: 150 mm/sec max. Z axis: 100 mm/sec max.
■	**Worktable:** Hardened worktable with fixture holes, removable stage glass, and 25 kg load capacity
■	**Optics:** Patented† AccuCentric® auto-calibrating, 7:1 motorized zoom lens system
□	**Lens attachments:** 0.5x, 0.75x, 1.5x, 2.0x
■	**Front replacement lenses:** 1.0x
□	2.0x, 2.5x, 5.0x, 10.0x
■	**Adapter tubes:** 1.0x
□	0.67x, 2.0x
■	**Illumination:** Substage LED profile light (green), coaxial LED surface light (white), and patented†† SmartRing™ LED ring light (white)
□	Vu-Light™ oblique illuminator, small fiber optic ring light, fiber optic surface light, large fiber optic ring light
□	**Accessories:** Autofocus grid projector (LED)
■	**Camera:** High resolution color metrology camera
□	High resolution black and white metrology camera (in lieu of color)
■	**Image processing:** 256 gray level processing with 10:1 sub-pixel resolution
□	**Multisensor options:** Touch probe and change rack, DRS™ laser, TTL laser, Rainbow Probe™ scanning white light sensor, Feather Probe™, laser pointer (not available with TTL laser) (contact OGP for possible combinations of sensors)
■	**Power requirements:** 115/230 vac (± 5%), 50/60 Hz, 1 ϕ, 700 W
■	**Rated environment:** Temperature between 18 and 22° C, stable to ± 1° C; 30-80% humidity; vibration <0.001g below 15 Hz
■	**Operating environment, safe operation:** 15-30° C
■	**Metrology software:** MeasureMind® 3D MultiSensor
□	Measure-X® (in lieu of MeasureMind 3D), MeasureMind 3D offline
■	**Computer:** Minimum configuration Quad Core processor @ 2.5 GHz, 4.0 GB RAM, 160 GB hard drive, DVD-RW drive, parallel, serial, and USB 2.0 ports, on board 10/100/1000 LAN
■	**Operating system:** Microsoft® Windows™
□	**Computer accessory package:** 24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, three-button mouse (or user supplied)
□	**Software:** For use with Measure-X or MeasureMind 3D; MeasureFit® Plus, SmartReport® powered by QC-Calc™, Scan-X®, SmartFit® 3D, SmartProfile®
□	**Software:** For use with MeasureMind 3D only; SmartScript®, SmartTree™

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

■	**XY area accuracy:** $E_2 = (1.8 + 6L/1000)$ µm[1,2]
■	**Z linear accuracy:** $E_1 = (3.0 + 5L/1000)$ µm[3]
□	**Z linear accuracy:** $E_1 = (2.5 + 5L/1000)$ µm[3] (with optional 2.0x replacement lens/grid projector)
□	**Z linear accuracy:** $E_1 = (2.0 + 5L/1000)$ µm[3] (with optional TTL laser, or DRS-2000 laser)
□	**Z linear accuracy:** $E_1 = (1.4 + 5L/1000)$ µm[3] (with optional DRS-300 or -500 laser, or TP-20 or -200 touch probe)
■	**Warranty:** One year
□	**Accessories:** Calibration artifacts, rotary indexers

†Patent Number 5,389,774 ††Patent Number 5,690,417

1) With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.
2) XY axis artifact: QVI 25 intersection grid reticle in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.
3) Z axis artifact: QVI step gage or master gage blocks.

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