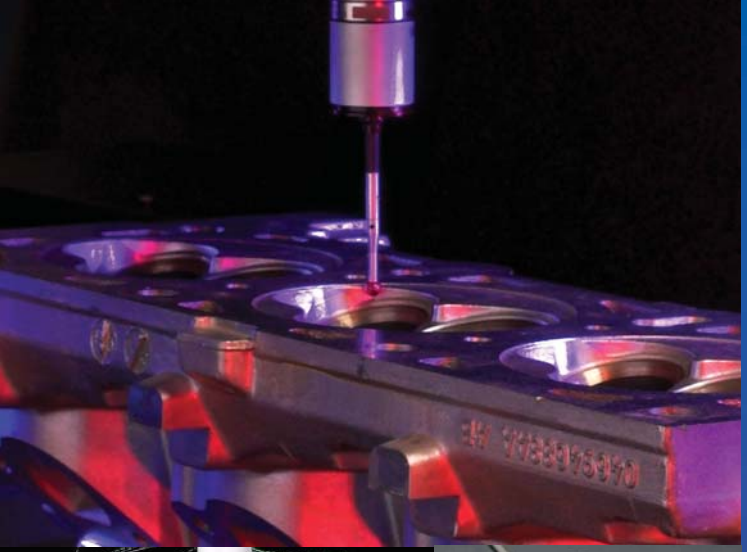

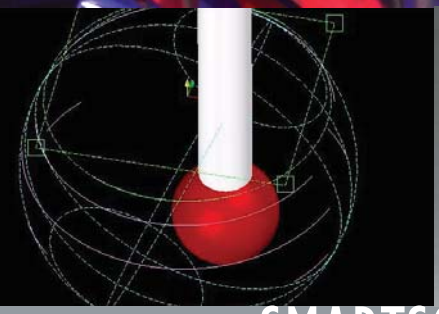

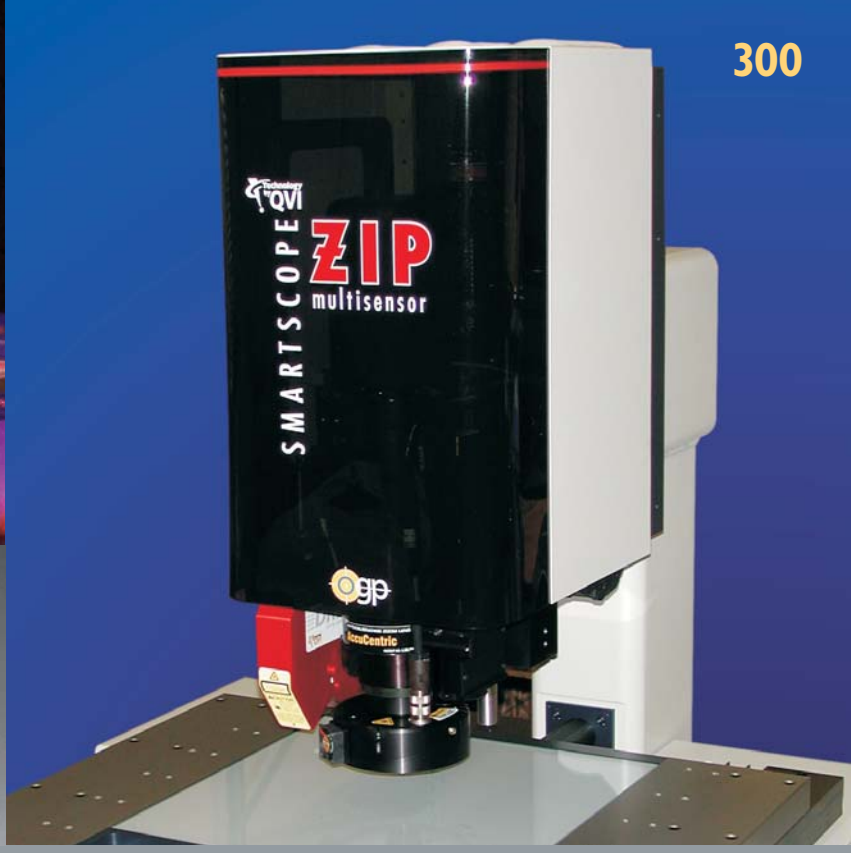

SMARTSCOPE ZIP

Fast, Accurate Video and Multisensor Measurement

	Travel	mm
ZIP 300	X axis Y axis Z axis	300 300 200
Extended Z (option)	Z axis	300

SmartScope ZIP® 300 from OGP® is a proven performer, and continues to be the preferred video measurement system of manufacturers. Its video imaging is enhanced by all-LED illumination. As a multisensor machine, SmartScope ZIP 300 is available with contact and non-contact probes, including the unique switchable TTL laser.

- The innovative ergonomic handheld controller combines joystick stage control and other important operational controls so they are right at hand.
- DC servo motor drives deliver high speed performance, and the cast iron support structure ensures measurement stability and isolation.
- MeasureMind® 3D MultiSensor metrology software is designed to take full advantage of a 3D measurement environment and combines a user-friendly interface with full geometric functionality.
- Video measurement is effortless with fast field-of-view image processing with advanced edge detection algorithms designed for repeatability in real-world applications.
- SmartScope ZIP 300 is ready to supply the benefits of multisensor metrology with an assortment of available touch probes, lasers, and micro-probes to fully characterize parts automatically in a single setup.

Quality. Speed. Accuracy. Who Could Ask for More?

Technical Specifications

■ Standard □ Optional

■	**Stage travel (XYZ):** 300 x 300 x 200 mm
□	**Extended Z axis:** 300 mm
■	**Measuring unit dimensions (approx LWH):** 106 x 100 x 180 cm, 750 kg
■	**XYZ scale resolution:** 0.1 µm
□	0.05 µm
■	**Motor drives:** DC servo
■	**Interactive stage control:** 4 axis (X,Y,Z,zoom) with ergonomic, multi-function hand controller
■	**Stage velocity:** Z axis min 100 mm/sec; X,Y axis 200 mm/sec
■	**Worktable:** Hardened worktable with fixture holes, removable stage glass, and 30 kg load capacity
■	**Zoom lens:** Patented† 5:1, AccuCentric® auto-calibrating, motorized, 10 position
□	**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 backlight (collimated, green), white TTL LED surface illumination, and patented†† SmartRing™ white LED illuminator
□	Vu-Light oblique illuminator, small fiber optic ring light, fiber optic surface light, large fiber optic ring light
□	**Optional accessories:** Autofocus grid projector (LED)
■	**Camera:** ½" format high resolution color CCD with 768 x 494 pixel array
□	High resolution black and white (in lieu of color camera)
■	**Image processing:** 256 level grayscale 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™, SP25 Scanning Probe, laser pointer (not available with TTL laser) (contact OGP for possible combinations of sensors)
■	**Power requirements:** 115/230 vac, 50/60 Hz, 1 ϕ, 700 W
■	**Rated environment:** Temperature between 18 and 22° C, stable to ± 1° C; 30-80% humidity (non-condensing); vibration <0.001g below 15 Hz
■	**Operating environment, safe operation:** 15-30° C
■	**Computer:** Minimum configuration Dual Core processor @ 1.8 GHz, 1.0 GB RAM, 80 GB hard drive, 1.44 MB floppy drive, DVD-RW drive, parallel, serial, and USB 2.0 ports, on board 10/100 LAN
■	**Operating system:** Microsoft® Windows™ XP Professional
□	**Computer accessory package:** 22" flat panel LCD monitor, or dual 22" flat panel LCD monitors, keyboard, three-button mouse (or user supplied)
■	**Metrology software:** OGP MeasureMind® 3D MultiSensor
□	OGP Measure-X® (in lieu of MeasureMind 3D), MeasureMind 3D offline
□	**Software:** For use with Measure-X or MeasureMind 3D; MeasureFit® Plus, MeasureMenu™, SmartReport® powered by QC-Calc™, Scan-X®
□	**Software:** For use with MeasureMind 3D only; SmartFit® 3D, SmartScript®, SmartTree™, SmartProfile™
	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:** $E_2 = (1.5 + 5L/1000)$ µm*
■	**Z linear accuracy:** $E_1 = (3.5 + 5L/1000)$ µm**
□	**Z linear accuracy:** $E_1 = (2.5 + 5L/1000)$ µm** (with optional 2.0x replacement lens/grid projector)
□	**Z linear accuracy:** $E_1 = (2.0 + 5L/1000)$ µm** (with optional TTL laser, or DRS-2000 laser)
□	**Z linear accuracy:** $E_1 = (1.4 + 5L/1000)$ µm** (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

*With evenly distributed 5 kg load in the standard measuring plane. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. XY axis artifact: QVI 25 intersection grid reticle in the standard measuring plane. The standard measuring plane is defined as a plane that is 25 mm above the worktable.

**Z axis artifact: QVI step gage or master gage blocks.

Multisensor Measurements for Manufacturing Professionals

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