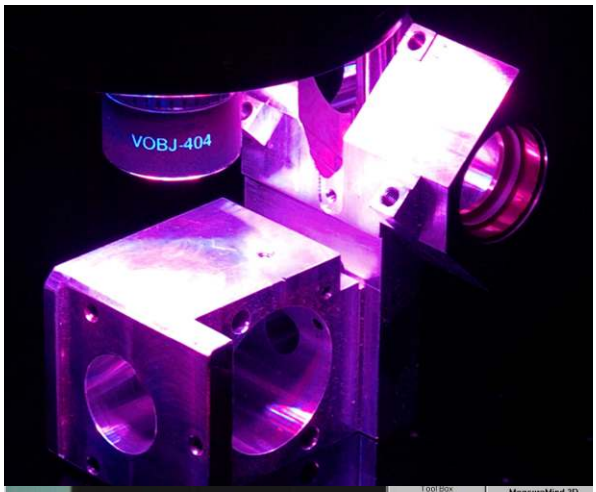

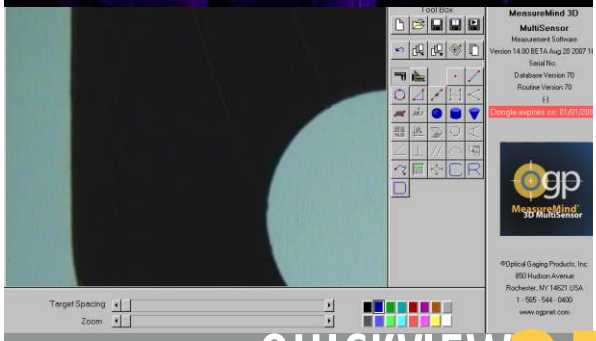

QUICKVIEW 250

Metrology System for Process Control and Quality Assurance

	Travel	mm
QuickView 250	X axis	300
	Y axis	150
	Z axis	150

QuickView™ 250 is a unique measurement system that fits on a benchtop, yet delivers outstanding repeatability, throughput, and reliable performance. Its Programmable Ring Light (PRL) uses red, green, blue, or white LED lights for optimal imaging with the system's instantaneous-switching, dual magnification optical system.

Like all QuickView systems, QuickView 250 is a fast, reliable, and low maintenance system for high volume, high capacity operation in production environments ranging from clean rooms to factory floors. QuickView 250 is ideal for production areas where space is at a premium.

High Performance Benchtop Non-Contact Metrology System

QuickView 250 offers:

- 0.1 µm XYZ resolution linear scales
- Dual magnification, dual camera optical system
- MeasureMind®3D MultiSensor metrology software for full 3D functionality
- Optional touch probe, through-the-lens (TTL) laser probe, and Rainbow Probe scanning white light sensor, for full multisensor capability

QUICKVIEW 250

Technical Specifications

■ Standard □ Optional

■ **Stage travel (XYZ):** 300 x 150 x 150 mm
■ **Measuring unit dimensions (approx LWH):** 77 x 72 x 87 cm, 155 kg
■ **Crated dimensions/weight:** Contact OGP for crated size/weight
■ **XYZ scale resolution:** 0.1 µm
■ **Motor drives:** DC servo (XYZ) with joystick control
■ **XY stage drive velocity:** 150 mm/sec, maximum
■ **Z stage drive velocity:** 50 mm/sec, maximum
■ **Worktable:** Hardened, with fixture holes and removable stage glass, 25 kg load capacity

Optics: Fixed lens, dual magnification system, with standard 1.0x lens. All other lenses are optional.

Objective Magnification	0.8x/3.2x	1x/4x	2.5x/10x	5x/20x	10x/40x	25x/100x
	□	■	□	□	□	□
Working Distance:	110 mm	34 mm	34 mm	33 mm	20 mm	13 mm
Field of View (mm) Low ■	7.4 x 5.7	6.1 x 4.8	2.4 x 1.9	1.2 x 0.9	0.6 x 0.5	0.25 x 0.19
Low □	10.1 x 7.9	8.4 x 6.6	3.4 x 2.6	1.7 x 1.3	0.8 x 0.7	0.34 x 0.26
High ■	1.84 x 1.43	1.53 x 1.2	0.61 x 0.48	0.31 x 0.24	0.15 x 0.12	0.06 x 0.05

□ **Optical accessory:** Grid projector

■ **Cameras:** Dual high resolution B&W CCD with 765 x 576 pixel arrays; 4:1 ratio
□ **Cameras:** Dual high resolution B&W CCD with 765 x 576 pixel arrays; 6:1 ratio
■ **Illumination:** LED substage, LED coaxial TTL surface, multi-color (red, blue, green, and composed white) LED Programmable Ring Light (PRL)
□ VectorLight™ LED ring light (in lieu of LED Programmable Ring Light)
■ **Image processing:** 256 level grayscale processing with 10:1 to 50:1 sub-pixeling
□ **Multisensor options:** Touch probe and change rack, on-axis TTL laser, Rainbow Probe™ scanning white light sensor

■ **Metrology software:** MeasureMind® 3D MultiSensor
□ **Software:** MeasureFit® Plus, SmartReport® powered by QC-Calc™, SmartFit® 3D, MeasureMenu™, Scan-X®, SmartScript®, SmartTree™, SmartProfile™
■ **Computer:** Minimum configuration Dual Core processor @ 1.8 GHz, 1 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 accessories:** Single or dual 22" flat panel LCD monitor(s), keyboard, three button mouse (or user supplied)

■ **XY area accuracy:** $E_2=(2.0 + 5L/1000)$ µm*
■ **Z linear accuracy:** $E_1=(3.0 + 5L/1000)$ µm*
□ **Z linear accuracy:** $E_1=(1.0 + 5L/1000)$ µm* (with optional TTL laser and 5x lens or higher, or TP200 touch probe)

■ **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:** 15-30° C

■ **Warranty:** One year
□ **Accessories:** Fixtures and calibration artifacts, rotary indexers

*Where L=measuring length in mm. Applies to thermally stable system in rated environment, high magnification with 2.5x lens unless otherwise noted, and evenly distributed 5 kg load. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. XY axis artifact: QVI grid reticle at standard measuring plane. Z axis artifact: QVI step gage or master gage blocks.

Multisensor Measurements for Manufacturing Professionals

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