



QUICKVIEW²²⁰



Metrology System for Process Control and Quality Assurance

	Travel	mm
QuickView 220	X axis	250
	Y axis	165
	Z axis	100

QuickView™ 220 is a unique, highly flexible measurement system that delivers outstanding repeatability, throughput, and reliable performance. State-of-the-art linear motion control technology provides a fast, reliable, and low maintenance system available for high volume, high capacity operation in production environments ranging from clean rooms to factory floors.

This system's Programmable Ring Light (PRL) uses red, green, blue, or white LED lights for optimal imaging with its dual magnification optical system. QuickView 220 is ideal for production areas where high throughput is needed, but space is at a premium.

QuickView 220 offers:

- 0.1 μm XYZ resolution (0.05 μm optional) linear scales
- High-speed (up to 400 mm/sec) XY linear motor drive system for high throughput
- Dual magnification, dual camera optical system
- Powerful MeasureMind® 3D MultiSensor metrology software for full 3D functionality
- Optional touch probe, through-the-lens (TTL) laser, and Rainbow Probe™ scanning white light sensor, for outstanding multisensor measurement versatility

High Speed Small Footprint Non-Contact Metrology System



■ Standard ■ Optional

<ul style="list-style-type: none"> ■ Stage travel (XYZ): 250 x 165 x 100 mm ■ Measuring unit dimensions (approx LWH): 95 x 80 x 175 cm, 635 kg ■ Crated dimensions/weight: Contact OGP for crated size/weight ■ XYZ scale resolution: 0.1 μm ■ XYZ scale resolution: 0.05 μm ■ Motor drives: Linear motor (XY), DC servo (Z), with joystick control ■ Maximum stage speed: 400 mm/sec (X,Y), 100 mm/sec (Z) ■ Maximum stage acceleration: 1,000 mm/sec² (X,Y), 200 mm/sec² (Z) ■ Worktable: Hardened, with fixture holes and removable stage glass, 25 kg load capacity 																																			
<p>Optics: Fixed lens, dual magnification system, with standard 2.5x lens. All other lenses are optional.</p> <table border="1"> <thead> <tr> <th>Objective Magnification</th> <th>0.8x/3.2x</th> <th>1x/4x</th> <th>2.5x/10x</th> <th>5x/20x</th> <th>10x/40x</th> <th>25x/100x</th> </tr> </thead> <tbody> <tr> <td>Working Distance:</td> <td>110 mm</td> <td>34 mm</td> <td>34 mm</td> <td>33 mm</td> <td>20 mm</td> <td>13 mm</td> </tr> <tr> <td>Field of View Low (mm)</td> <td>7.4 x 5.7</td> <td>6.1 x 4.8</td> <td>2.4 x 1.9</td> <td>1.2 x 0.9</td> <td>0.6 x 0.5</td> <td>0.25 x 0.19</td> </tr> <tr> <td>Low</td> <td>10.1 x 7.9</td> <td>8.4 x 6.6</td> <td>3.4 x 2.6</td> <td>1.7 x 1.3</td> <td>0.8 x 0.7</td> <td>0.34 x 0.26</td> </tr> <tr> <td>High</td> <td>1.84 x 1.43</td> <td>1.53 x 1.2</td> <td>0.61 x 0.48</td> <td>0.31 x 0.24</td> <td>0.15 x 0.12</td> <td>0.06 x 0.05</td> </tr> </tbody> </table>	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 Low (mm)	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
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<ul style="list-style-type: none"> ■ 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 (contact OGP for possible combinations of sensors) 																																			
<ul style="list-style-type: none"> ■ Metrology software: MeasureMind® 3D MultiSensor ■ Software: MeasureFit® Plus, SmartReport® powered by QC-Calc™, SmartFit® 3D, MeasureMenu™, Scan-X®, SmartScript®, SmartTree™, SmartProfile™ ■ Computer: Embedded; minimum configuration Dual Core processor @ 1.8 GHz, 1 GB MB 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: Integrated, adjustable operator workstation arm (to support computer peripherals); single or dual 22" flat panel LCD monitor(s), keyboard, three button mouse (or user supplied) 																																			
<ul style="list-style-type: none"> ■ XY area accuracy: $E_z = (1.0 + 5L/1000) \mu\text{m}^*$ ■ Z linear accuracy: $E_z = (1.5 + 5L/1000) \mu\text{m}^*$ ■ Z linear accuracy: $E_z = (1.0 + 5L/1000) \mu\text{m}^*$ (with optional TTL laser and 5x lens or higher, or TP-200 touch probe) 																																			
<ul style="list-style-type: none"> ■ Power requirements: 115/230 vac, 50/60 Hz, 1 φ, 1000 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 																																			
<ul style="list-style-type: none"> ■ 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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