



VIEW Summit® 600

The VIEW Summit 600 from QVI® delivers high accuracy and high measuring speeds for near-line process monitoring and quality assurance applications. XY stage velocities of 200 mm/sec (standard model) and 400 mm/sec (with optional linear motor drive) ensure very high productivity on the factory floor.

VIEW Summit is ideally suited for measuring large footprint parts such as stencils, flat panel displays, etching sheets, and mask patterns, as well as nested groups of smaller parts.

- High-precision fixed lens optical system
- Advanced image processing for high speed, accuracy and precision
- Choice of powerful metrology software and data analysis tools

	X	Y	Z
Travel (mm)	450	600	150

A large travel, high accuracy dimensional metrology system



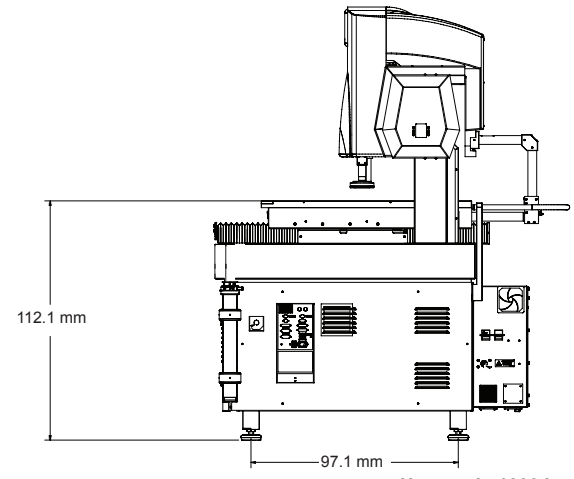
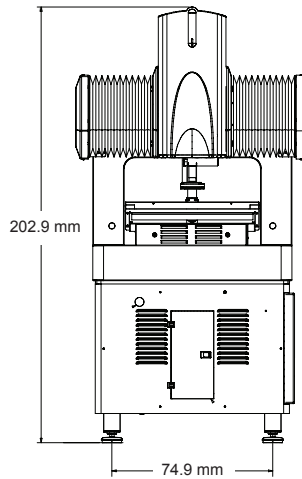
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Metrology Software:

- VIEW Metrology Software (VMS)
- Optional: Elements® metrology software
- Optional: Measure-X® metrology software

Available Optional Software Modules:

- Area Multi-Focus
- Continuous Image Capture (CIC)
- Advanced image filtering, image stitching, custom UI
- MeasureFit® Plus
- SmartProfile® 3D GD&T evaluation software
- VMS Off-Line Workstation Software
- Digital IO



Uncrated: 1000 kg
Crated: 1136 kg

	Standard	Optional																											
X,Y,Z Travel (mm)	450 x 600 x 150																												
X,Y,Z Scale Resolution	0.1 µm	0.05 µm or 0.01 µm, zero expansion material																											
Stage Drive System	Rod Drive DC Servo X,Y; Rotary DC Servo Z	Frictionless, high speed linear motor drives for X & Y																											
Max Velocity	X,Y - 200 mm/sec Z- 100 mm/sec	X,Y- 400 mm/sec																											
Max Recommended Load	50 kg																												
Imaging Optics	Dual magnification, fixed lens optics with field interchangeable front lens options	Single magnification, fixed lens optics with factory configurable back-tube and field interchangeable front lens options																											
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Back Tube (Single Mag Only)	200 mm (2X) back tube	100 mm (1X) back tube																											
Metrology Camera	1.4 megapixel (1392 x 1040), 1/2-inch, digital, monochrome	1.4 megapixel (1392 x 1040), 2/3-inch, digital, monochrome 2.0 megapixel (1628 x 1236), digital, monochrome																											
Illumination	Green LED profile light and white LED coaxial surface light	Multi-color programmable ring light with motorized incidence angle control, grid autofocus system																											
Sensor Options		Through-the-lens (TTL) laser Spectra Probe white light range sensor																											
Measurement Modes	High Speed Move And Measure (MAM)	Continuous Image Capture (CIC)																											
System Controller	Quad core processor, Windows® 7 Operating System and on-board networking and communication ports																												
Controller Accessory Package	3-axis joystick for manual stage control, with E-stop and start buttons.	Single LCD flat panel display, computer keyboard and mouse Dual LCD flat panel displays, computer keyboard and mouse																											
Power Requirements	115/230 VAC, 50/60 Hz, 1-Phase, 1500W																												
Rated Environment	Temperature: 18°-22° C. Relative Humidity: 30% - 80% Vibration below 15Hz: <0.0015g																												
XY Area Accuracy ^{1,2,3,4}	E ₂ : (2.0+4L/1000) µm	E ₂ : (1.5+5L/1000) µm (requires high resolution scales)																											
Z Linear Accuracy ^{1,2,5}	E ₁ : (1.8+5L/1000) µm	E ₁ : (1.4+5L/1000) µm (with TTL Laser and optional 5X lens)																											
Notes: All specifications apply to a thermally stable machine and a certified artifact at 20°C	<ol style="list-style-type: none"> 1. Maximum rate of temperature change: 1° C/Hour 2. Maximum vertical temperature gradient: 1° C/Meter 3. At rated velocity with evenly distributed load of 5KG 4. XY area accuracy artifact: QVI® grid reticle or QVI linescale in the standard measuring plane. Standard measuring plane is defined as within 25 mm of the worktable surface, for zero expansion scales, zero expansion artifact is required 5. Z-axis accuracy artifact: QVI step gage, interferometer or master gage blocks 																												

VIEW

MICRO-METROLOGY

A Division of Quality Vision International

1711 West 17th Street
Tempe, AZ 85281
Phone: (480) 295-3150 • (877) 767-VIEW (8439)
Fax: (480) 889-9059
Email: info@viewmm.com
www.viewmm.com

