

The VIEW Pinnacle 250 from QVI[®] delivers unmatched accuracy and throughput, with the lowest cost of ownership for any automated measuring system of its kind.

State-of-the-art linear motor control technology provides the fastest, most reliable platform available for high volume operation in production environments ranging from clean rooms to factory floors.

- □ High-speed linear motor X-Y stages
- High precision single or dual magnification fixed lens optical system

Advanced image processing for high speed, accuracy, and precision

	X	Y	Z
Travel (mm)	250	150	100







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
- ☐ Measure
- □ VMS Off-Line Workstation software
- Digital I/O



Uncrated: 635 kg | Crated: 771 kg

	Standard		Optional			
X,Y,Z Travel (mm)	250 x 150 x 100					
X,Y,Z Scale Resolution	0.1 µm, zero expansion material		0.05 µm, zero expansion material			
Stage Drive System	Frictionless, high speed linear motor drives X&Y, DC servo motor Z					
Max Velocity	X,Y - 400 mm/sec; Z - 100 mm/sec		X,Y - 200 mm/sec (extended accuracy option)			
Max Recommended Load	25 kg					
Imaging Optics	Dual magnification, fixed lens optics with field interchangeable front lens. VIEW 2.5X front lens included as standard.		Single magnification, fixed lens optics with factory configurable back tube and field interchangeable front lens. VIEW 1X back tube and 2.5X front lens included as standard.			
Front Lens (Field Interchangeable)	Lens	FOV (mm)	Lens	FOV (mm)		
	VIEW 0.8X	Low: 8.34 x 6.23 High: 1.91 x 1.43	VIEW 0.8X	8.34 x 6.23		
	VIEW 1X	Low: 6.46 x 4.82 High: 1.59 x 1.19	VIEW 1X	6.46 x 4.82		
	VIEW 2.5X	Low: 2.78 x 2.07 High: 0.64 x 0.48	VIEW 2.5X	2.78 x 2.07		
	VIEW 5X	Low: 1.35 x 1.01 High: 0.31 x 0.23	VIEW 5X	1.35 x 1.01		
	VIEW 10X	Low: 0.69 x 0.52 High: 0.16 x 0.12	VIEW 10X	0.69 x 0.52		
	VIEW 25X	Low: 0.28 x .021 High: 0.06 x 0.05	VIEW 25X	0.28 x 0.21		
Back Tube (Factory Installed)			VIEW 2X back tube (single magnification optics only)			
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), 1/2-inch digital, monochrome *Other camera options available by request			
Illumination	Programmable LED illumination system for coaxial through-the- lens surface light and below-the-stage backlight		Multi-color programmable ring light with motorized incidence angle con- trol; Grid autofocus system			
Sensor Options			Through-the-lens (TTL) laser Spectra Probe white light range sensor Off-axis triangulation laser			
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 \tilde{c} control, with stop/start button		Single LCD flat panel display, computer keyboard and mouse Dual LCD flat panel displays, computer keyboard and mouse Integrated, adjustable attached arm operator workstation			
Power Requirements	115/230 VAC, 50/60 Hz, 1-Phase, 1500W					
Rated Environment	Temperature: 18°-22° C, stable to ± 1° C Relative Humidity: 30% - 80% Vibration below 15Hz: <0.0015g					
XY Area Accuracy 1,2,3,4,5,6	E ₂ : (1.0+5L/1000) μm					
Z Linear Accuracy 1,2,5,6	E1: (1.5+5L/1000) μm		E ₁ : (1.0+5L/1000) μm (with TTL laser and 5X lens)			
Notes: All specifications apply to a thermally stable machine and a certified artifact at 20°C.	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 5 kg. Depending on load distribution, accuracy at higher loads may be less than standard accuracy. 4. Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 km on jets or objective less meanification set the inchest available to standard and optional optical configurations with 25 km on jets or objective less meanification set the manification set the manificatin set the manificatin set the manificatin set the manifica					

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