

Pinnacle™ Plus

VIEW Pinnacle Plus from QVI® elevates Pinnacle performance to the next level. Pinnacle Plus features a rigid granite optical support structure and a high performance Z-axis motion assembly to produce the lowest possible uncertainty on micro-electronic parts and assemblies.

State-of-the-art linear motion control technology provides the fastest, most reliable platform available for high capacity operation in production environments ranging from cleanrooms to factory floors.

- Oversized granite structure for thermal and mechanical stability
- High performance focus motion assembly
- Advanced image processing for high speed and repeatability

	X	Y	Z
Travel (mm)	250	150	50

Ultra High Accuracy Dimensional Metrology System



Standard Metrology Software

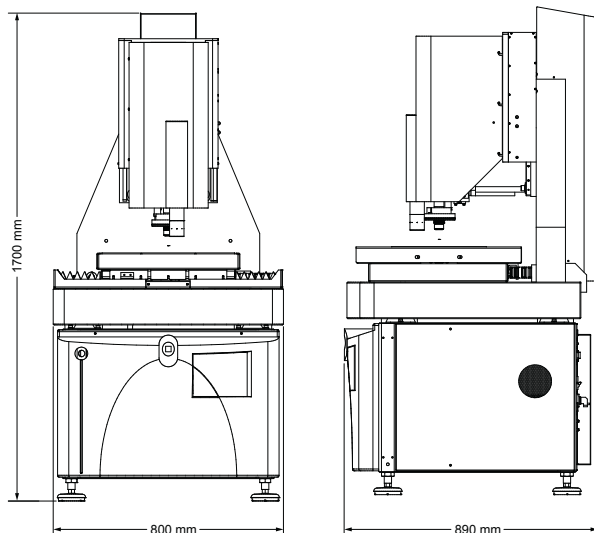
- VIEW Metrology Software (VMS)

Optional Metrology Software

- Elements® Metrology Software
- Measure-X® Metrology Software

Optional Software Modules

- Area Multi-Focus (AMF)
- Extended Depth of Field Image (EDFI)
- Continuous Image Capture (CIC)
- Advanced Image Processing
- COM and Custom UI
- MeasureFit® Plus
- SmartProfile® GD&T Evaluation Software
- VMS Offline Image Processing Workstation



System Weight: 635 kg
Shipping Weight: 771 kg

	Standard		Optional	
XYZ travel	250 x 150 x 50 mm			
XYZ scale resolution	X,Y - 0.05 µm, zero expansion material Z - 0.01 µm, zero expansion material			
Stage drive system	High speed linear motor drives X&Y, DC servo motor Z			
Max recommended load	25 kg			
Throat clearance	Adjustable 25 - 150 mm			
Imaging optics	Single magnification, fixed lens optics with factory configurable back tube and field interchangeable front lens.			
Back tube (factory installed)	VIEW 1X back tube		VIEW 2X back tube	
Front lens (field interchangeable)	Lens	FOV	Lens	FOV with 1X back tube
	VIEW 2.5X - Standard	3.68 x 3.09 mm	VIEW 0.8X	11.51 x 9.64 mm
			VIEW 1X	9.21 x 7.71 mm
			VIEW 5X	1.84 x 1.54 mm
			VIEW 10X	0.92 x 0.77 mm
		VIEW 25X	0.37 x 0.31 mm	
Metrology camera	5.0 megapixel, 2/3 inch, digital, monochrome metrology camera			
Illumination	Programmable LED illumination system for coaxial through-the-lens surface light, below-the-stage backlight, and multi-color ring light with motorized incidence angle control			
Sensor options			Through-the-lens (TTL) laser Rainbow Probe™ off-axis white light range sensor	
Measurement modes	High Speed Move And Measure (MAM)		Continuous Image Capture (CIC)	
System controller	Intel® processor based Microsoft® Windows® operating system and on-board networking and communication ports			
Controller accessory package	QVI multifunction handheld controller with 3 axis joystick and illumination controls		Single LCD flat panel display, computer keyboard and mouse Dual LCD flat panel displays, computer keyboard and mouse Space saving operator workstation desk with dual monitor mounts	
Power requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1500 W			
Safe operating environment	15-30 °C			
Rated environment	Temperature 18-22 °C, stable to ±1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001 g below 15 Hz			
XY area accuracy	$E_2: (1.0 + 5L/1000) \mu\text{m}$			
Z linear accuracy	$E_1: (1.0 + 5L/1000) \mu\text{m}$		$E_1: (0.5 + 5L/1000) \mu\text{m}$ (requires Rainbow Probe or 10X lens)	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Accuracy specifications are applicable when configured with a 2.5X or higher front objective lens. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Depending on load distribution, accuracy at maximum payload may be less than standard. Accuracy specifications do not apply to Continuous Image Capture (CIC) mode.



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