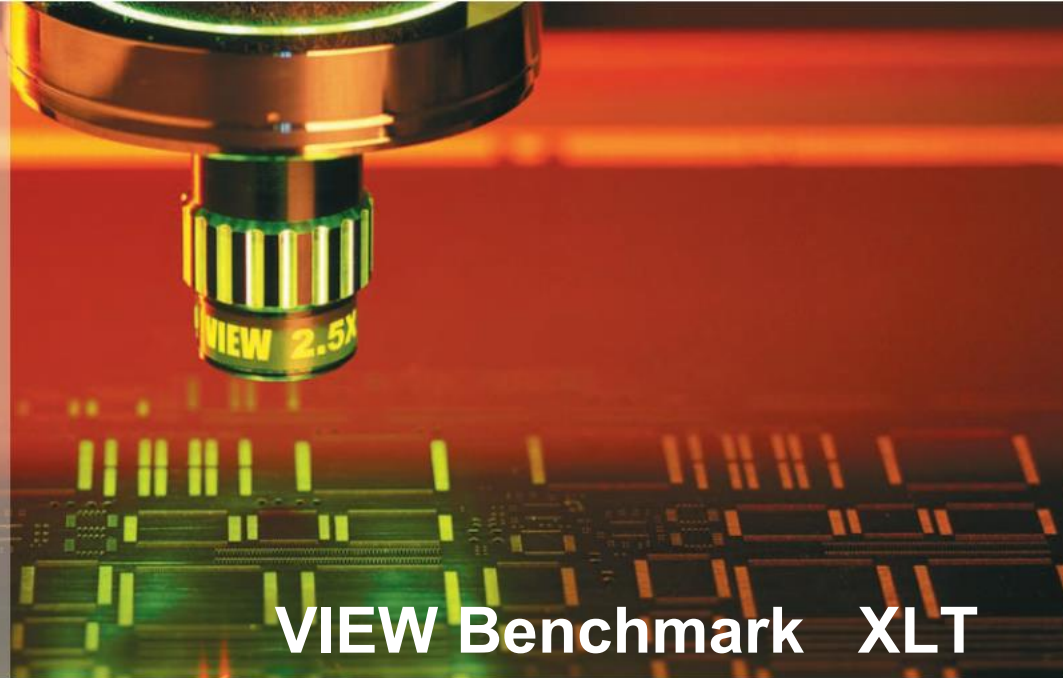




VIEW Benchmark XLT

Extra large area dimensional metrology systems

The VIEW Benchmark XLT from QVI® delivers the performance and reliability you expect in a large travel, non-contact metrology system. The XLT offers extended travel ranging from 900 mm x 1500 mm to 1500 mm x 2000 mm to handle large area parts or nested groups of smaller parts. Advanced optics, illumination, and image processing make the Benchmark XLT a world-class metrology system.

- Moving bridge design features an open work envelope for part loading
- Advanced image processing for high speed, accuracy, and robustness
- Choice of powerful metrology software and data analysis tools
- High precision single or dual magnification fixed lens optical system

Travel (mm)	X	Y	Z
B-1500	900	1500	150
B-1550	1250	1500	150
B-1552	1500	1500	150
B-2250	1250	2000	150
B-2500	1500	2000	150



1500 model shown



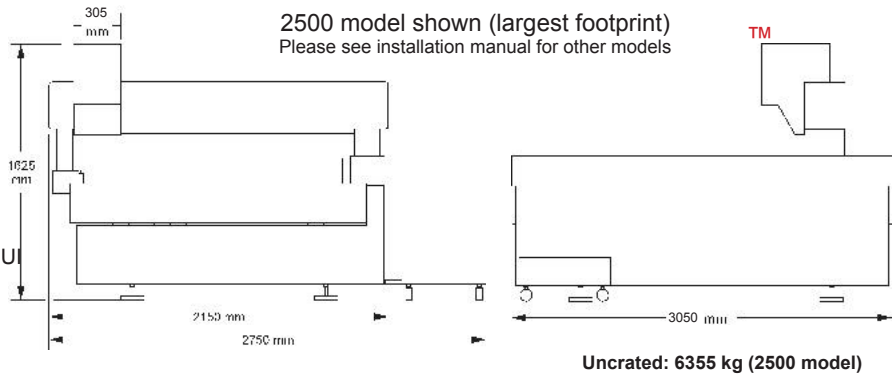
VIEW Benchmark XLT

Metrology Software:

- ☐ VIEW Metrology Software (VMS)
- ☐ Optional: Element[®] 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 Offline workstation software
- ☐ Digital I/O



		Standard	Optional		
X,Y,Z Travel (mm)	Models	Y-axis - 1800 mm Z-axis - 200 mm			
	B-1500				900 x 1500 x 150
	B-1550				1250 x 1500 x 150
	B-1552				1500 x 1500 x 150
	B-2250				1250 x 2000 x 150
	B-2500				1500 x 2000 x 150
X,Y,Z Scale Resolution		0.5 μm	0.1 μm		
Stage Drive System		DC Servo Motor X,Y,Z (Dual Y-axis drive and scale)			
Max Velocity		X,Y - 200 mm/sec Z - 100 mm/sec			
Max Recommended Load		50 kg load evenly distributed on glass 100 kg load evenly distributed on observation platform			
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	
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 control; 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 control, with stop/start button		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, 1000W			
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}		E ₂ : (8.0+8L/1000) μm (All Models)			
Z Linear Accuracy ^{1,2,4,5}		E ₁ : (3.0+8L/1000) μm (All Models)			
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. Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. 4. Accuracy specifications applicable to standard and optional optical configurations with 2.5X or higher objective lens magnification at the highest available magnification setting. 5. E ₁ , Z axis linear and E ₂ , XY area accuracy standards are described in QVI Publication Number 790762.			