

Summit™ 625

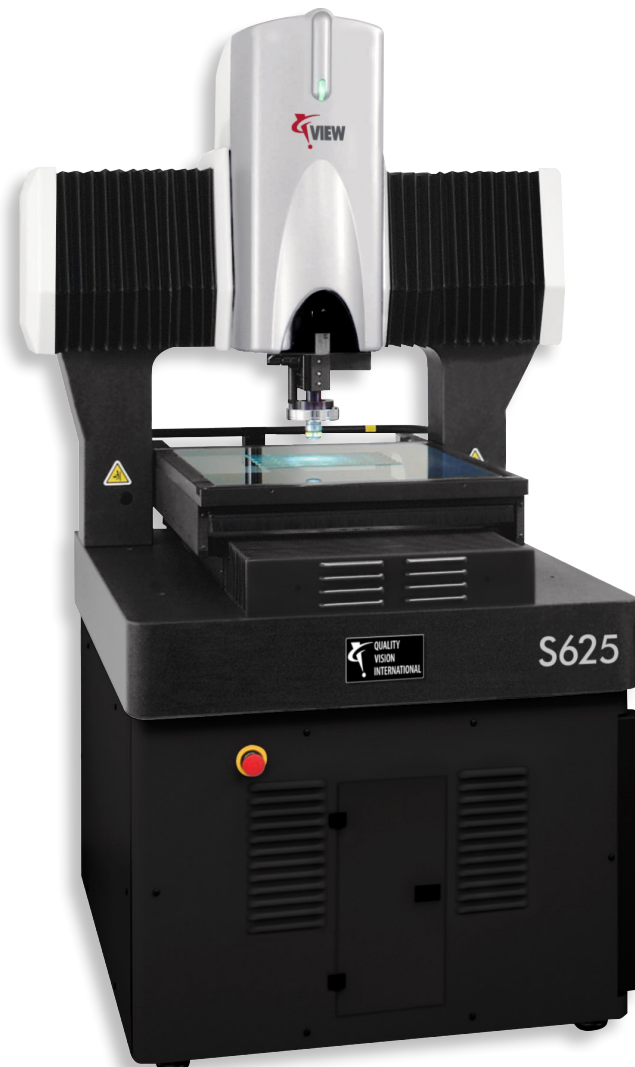
VIEW Summit 625 delivers high accuracy and high measuring speeds for near-line process monitoring and quality assurance applications. XY stage velocities of up to 400 mm/sec (with optional linear motor drive) ensure very high productivity on the factory floor.

VIEW Summit 625 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.

VIEW Summit 625 incorporates an extended bridge and X-axis carriage, increasing measurement range up to 615 mm.

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

Large Area, High Accuracy Dimensional Metrology System with Extended Range



	X	Y	Z
Travel (mm)	615	610	150

Standard Metrology Software

- VIEW Metrology Software (VMS)

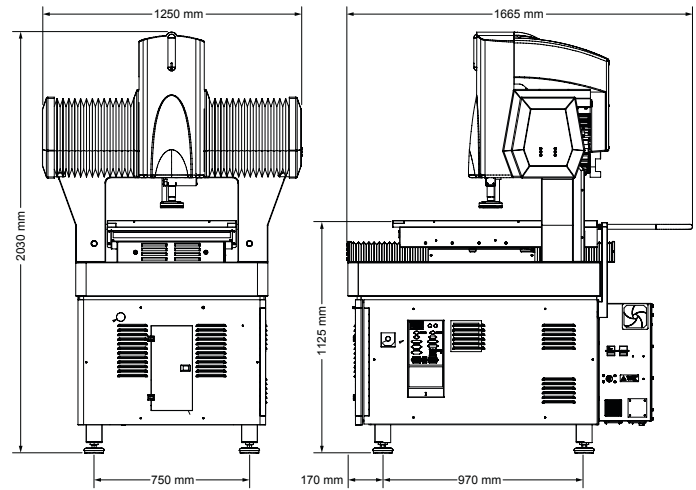
Optional Metrology Software

- 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 Workstations

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System Weight: 1410 kg
Shipping Weight: 1685 kg

	Standard		Optional	
XYZ travel	615 x 610 x 150 mm			
XYZ scale resolution	0.1 µm zero expansion material (X,Y), steel tape scale (Z)		0.05 µm, zero expansion material	
Stage drive system	High speed linear motor drive (X,Y) DC servo (Z)			
Max recommended load	50 kg			
Imaging optics	Single magnification, fixed lens optics with factory configurable back tube and field interchangeable front lens		Dual magnification, fixed lens optics with field interchangeable front lens	
Back tube (factory installed)	VIEW 1X back tube		VIEW 2X back tube (Available for single magnification optics only. FOV changes when 2X back tube applied.)	
Standard front lens	VIEW 2.5X	FOV 2.78 x 2.07 mm	VIEW 2.5X (DMO)	FOV Low: 2.78 x 2.07 mm FOV High: 0.64 x 0.48 mm
Optional front lenses (field interchangeable)			Lens Option	Single Mag FOV
			VIEW 0.8X	8.34 x 6.23 mm
			VIEW 1X	6.46 x 4.82 mm
			VIEW 5X	1.35 x 1.01 mm
			VIEW 10X	0.69 x 0.52 mm
			VIEW 25X	0.28 x 0.21 mm
				Dual Mag FOV
				Low: 8.34 x 6.23 mm High: 1.91 x 1.43 mm
				Low: 6.46 x 4.82 mm High: 1.59 x 1.19 mm
				Low: 1.35 x 1.01 mm High: 0.31 x 0.23 mm
				Low: 0.69 x 0.52 mm High: 0.16 x 0.12 mm
				Low: 0.28 x 0.21 mm High: 0.06 x 0.05 mm
Metrology camera	2.0 megapixel (1628 x 1236), digital, monochrome metrology camera		Color and other camera configurations are optionally available	
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		Grid autofocus system	
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	$E_z: (2.0 + 4L/1000) \mu\text{m}$		$E_z: (1.5 + 5L/1000) \mu\text{m}$ (requires 0.05 µm scales and linear motor drive package)	
Z linear accuracy	$E_z: (1.8 + 5L/1000) \mu\text{m}$		$E_z: (1.4 + 5L/1000) \mu\text{m}$ (requires Rainbow Probe)	

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.



VIEW, a division of Quality Vision International

1711 W 17th Street • Tempe, Arizona 85281-6229 • USA
Phone: (480) 295-3150 • (800) SOS-VIEW • Fax: (480) 889-9059
sales@viewmm.com • viewmm-service@qvii.com
www.viewmm.com