



**SprintMVP™ 624**

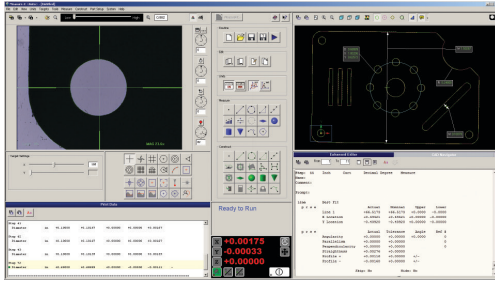
SprintMVP 624 is a fully automatic, 3-axis dimensional measuring machine designed to handle large, heavy parts and fixtures. SprintMVP 624's moving bridge design allows all measurement sensors to be moved out of the way for part loading/unloading.

- Moving bridge design with stationary part stage
- Motorized zoom lens system with high resolution digital color camera
- Full function Measure-X® metrology software for fully automatic routines
- Optional extended Z-axis for larger measuring volume

## Large Area 3-Axis Measurement System

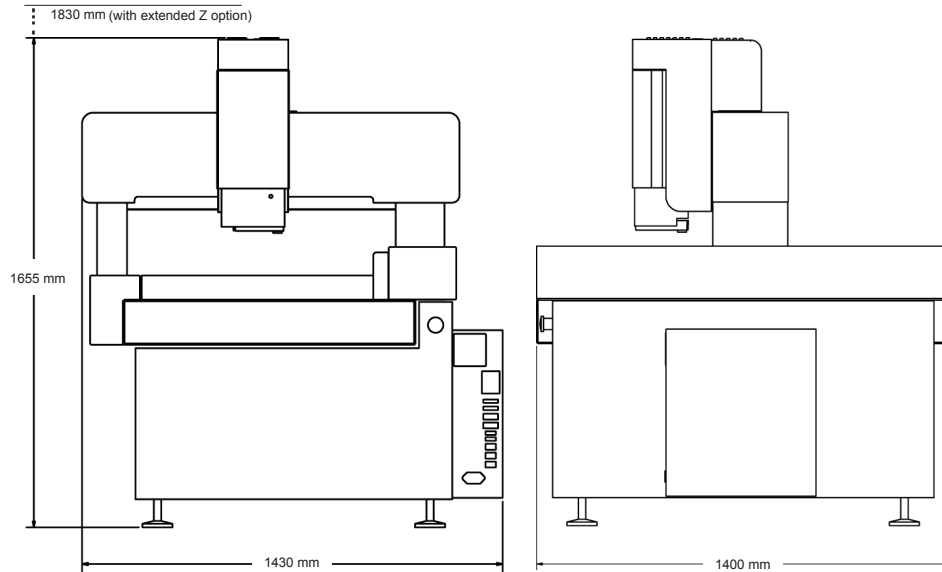


SprintMVP 624 Measuring Range (mm)			
	X	Y	Z
624	624	624	200



## Measurement Software

Measure-X is the world's most popular video metrology software. Measure-X makes it easy for SprintMVP to accurately measure fine features that require multi-step measurement routines, automatically combining autofocus, edge detection, programmable lighting, laser scanning and touch probing.



System Weight: 1,100 kg  
Shipping Weight: 1,380 kg

	Standard		Optional	
X, Y, Z Travel	624 x 624 x 200 mm		624 x 624 x 300 mm	
X, Y, Z Scale Resolution	0.5 μm			
Stage Drive System	Moving bridge style XYZ transport, with dual Y-axis drives and scales			
Max Recommended Stage Load	50 kg load evenly distributed on glass 100 kg load evenly distributed on observation platform			
Working Distance	62 mm (with standard VectorLight™)		Up to 133 mm (0.5x lens attachment)	
Imaging Optics	6.5:1, 10 position motorized zoom lens			
Lens Attachments			0.5X, 0.75X, 1.5X, 2.0X	
Field of View (mm) <small>*Uses optical and digital zoom</small>	Low Mag	High Mag*	Low Mag (0.5X)	High Mag* (2.0X)
	7.3 mm x 5.5 mm	0.5 mm x 0.4 mm	14.6 mm x 11.0 mm	0.27 mm x 0.20 mm
Metrology Camera	Digital, Megapixel Color Metrology Camera			
Magnification on 24" LCD Monitor	24x to 370x on-screen digital/optical magnification standard with full feature Measure-X layout		12x to 740x on-screen digital/optical magnification with optional add-on lenses and dual monitor user interface	
Illumination	LED VectorLight SP programmable ring light with 6 rings and 7 sectors, LED backlight, LED square-on surface light		LED VectorLight SF programmable ring light with 6 rings and 8 sectors and LED square-on surface light (reduced working clearance)	
Sensor Options			Renishaw touch probe and change rack, QVI® DRS laser	
Controller	QVI standard system controller with networking and communication ports		Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse	
Software	Measure-X		MeasureFit® Plus, SmartReport®, CAD interface, SmartProfile®, EVOLVE™ SPC, SmartSCS software for FDA compliant environments	
Miscellaneous Options			Rotary indexer, digital I/O capability	
Power	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 750W			
Operating Environment	Temperature 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 <0.001g below 15 Hz			
XY Area Accuracy	E <sub>x</sub> : (3.0 + 8L/1000) μm E <sub>y</sub> : (5.0 + 8L/1000) μm (with optional extended Z)			
Z Linear Accuracy	E1: (5.0 + 8L/1000) μm		E1: (4.0 + 8L/1000) μm (with 2.0X lens attachment)	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 10 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.



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