



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

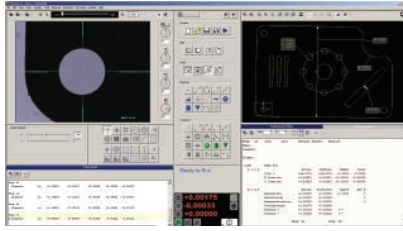
SprintMVP 624 Measuring Ranges (mm)			
	X	Y	Z
624	624	624	200

Large Area 3-Axis Measurement Systems

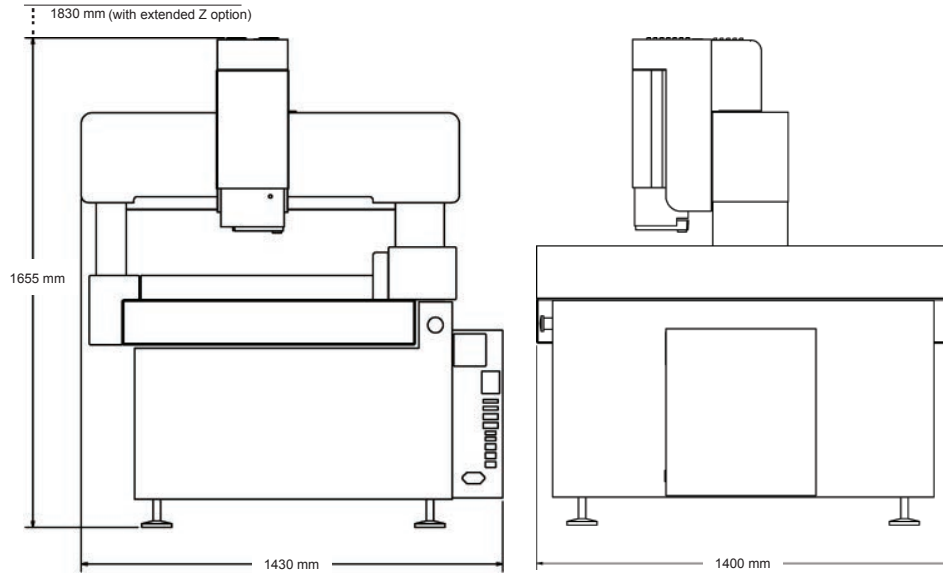


Measurement Software

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



SprintMVP™ 624



Crated System Weight:
1,358 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	0.1 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™)	
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>*Highest available magnification</small>	Low Mag 9.1 mm diagonal	High Mag* 0.6 mm diagonal
Metrology Camera	QVI® 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 <small>*Controller configuration subject to change without notice.</small>	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®, SmartReport®, CAD interface, SmartFeature® software for FDA compliant environments
Miscellaneous Options		Rotary indexer, digital I/O capability
Rated Environment	Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz	
Power	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 750W	
XY Area Accuracy ^{1,2,3,4,5,6}	E _x : (5.0 + 8L/1000) µm E _y : (3.0 + 8L/1000) µm (with optional dual Y-axis scale and drive) E _z : (5.0 + 8L/1000) µm (with optional extended Z)	
Z Linear Accuracy ^{1,2,3,4,5,6}	E _z : (5.0 + 8L/1000) µm (with standard optics)	E _z : (4.0 + 8L/1000) µm (with 2.0X lens attachment)

1. Where L = Measurement length in mm. | 2. With evenly distributed 5 kg load in the standard measuring plane. Depending on load distribution, accuracy at maximum recommended load may be less than standard accuracy. | 3. All optical accuracy specifications at maximum optical magnification at 1:1 digital pixel resolution. | 4. All specifications apply to a thermally stable system operated in the rated environment. | 5. Maximum rate of temperature change: 1° C per hour. Maximum vertical temperature gradient: 1° C per meter. | 6. Calibration artifacts are described in QVI publication number 790762.



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World Headquarters: Rochester, NY, USA • 585.544.0400 • www.ogpnet.com

OGP Shanghai Co, Ltd: Shanghai, China

86.21.5045.8383/8989 • www.smartscope.com.cn

OGP Messtechnik GmbH: Hofheim-Wallau, Germany

49.6122.9968.0 • www.ogpmesstechnik.de

Optical Gaging (S) Pte Ltd: Singapore • 65.6741.8880 • www.smartscope.com.sg

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