



VL-550
3D Scanner CMM Stage



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

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This model has been discontinued.

Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Recommended Replaceable Products: [3D Scanner CMM Stage - VL-750](#)

Specifications

Model		VL-550	
Type		Stage	
Controller		VL-500	
Measurement unit		VL-570	
Optical transmitter system		Offset transmission-type projector module	
Light sources	Observation light source	LEDs in 3 colors (red, green, blue)	
Optical receiver system		Low/high magnification offset dual optical module	
Light sources	Measurement light source	Blue LED	
Repeatability (σ)		2 μm 0.000079**1	
Measurement accuracy		±10 μm 0.0004**2	
Measurement resolution	Standard mode (4M Mode)	4 million points	
	Fine mode (16M Mode)	16 million points**3	
Measurement range	Low magnification	ø300 × H 200 mm ø11.81" × H 7.87"	
	High magnification	ø70 × H 50 mm ø2.76" × H 1.97"	
Display resolution		0.1 μm 0.000004**4	
Stitching functions	Automatic rotation combined measurements		✓
	Automatic XY combined measurements		
	Automatic XY combined measurement range	Low magnification (2 × 2 composition)	ø500 × H 200 mm ø19.69" × H 7.87"
		Low magnification (3 × 1 composition)	W 580 × D 300 × H 200 mm W 22.83" × D 11.81" × H 7.87**5
		High magnification (2 × 2 composition)	ø110 × H 50 mm ø4.33" × H 1.97"
		High magnification (3 × 1 composition)	W 150 × D 70 × H 50 mm W 5.91" × D 2.76" × H 1.97**5
Stage	Stage configuration		Motorized XYθ stage mechanism
	Stage rotation		360° (infinite rotation)
	Stage movement range		ø200 mm ø7.87"
	Tilt mechanism		Up to 45°
	Load capacity		50 kg 110.23 lb
Control PC		Dedicated PC specified by KEYENCE (OS: Windows 10)**6	

Power supply	Power voltage	100 to 240 VAC ±10%, 50/60 Hz
	Power consumption	Controller/Measurement unit: 200 VA Stage: 80 VA
Environmental resistance	Ambient temperature range	+ 15 to + 30°C +59 to + 86°F
	Ambient humidity range	20 to 80% RH (no condensation)
Weight		Controller: 3.8 kg 8.38 lb Stage: 26 kg 57.32 lb Light blocking curtain: 5.5 kg 12.13 lb Measurement unit: 18.5 kg 40.79 lb

*1 Value when measurement is performed using the default measurement mode specified by KEYENCE and using the default standard gauge specified by KEYENCE and at an operating ambient temperature of 23°C ±1°C **+73.4°F ±1.8°F**

*2 See JIS B7440-8, Value when measurement is performed using the default measurement mode specified by KEYENCE and using the default standard gauge specified by KEYENCE and at an operating ambient temperature of 23°C ±1°C **+73.4°F ±1.8°F**

*3 4 megapixel CMOS and 4 times multi-shot

*4 Common for X, Y and Z axes

*5 Largest width for long and circular shape range

*6 Windows 10 Pro