



VL-570
3D Scanner CMM Measurement unit



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

 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 Measurement unit - VL-770](#)

Specifications

Model		VL-570	
Type		Measurement unit	
Controller		VL-500	
Stage		VL-550,VL-530	
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)	VL-550: 16 million points*3 VL-530: -	
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		VL-550: ✓ VL-530: -
	Automatic XY combined measurement range	Low magnification (2 × 2 composition)	VL-550: ø500 × H 200 mm ø19.69" × H 7.87" VL-530: -
		Low magnification (3 × 1 composition)	VL-550: W 580 × D 300 × H 200 mm W 22.83" × D 11.81" × H 7.87**5 VL-530: -
		High magnification (2 × 2 composition)	VL-550: ø110 × H 50 mm ø4.33" × H 1.97" VL-530: -
		High magnification (3 × 1 composition)	VL-550: W 150 × D 70 × H 50 mm W 5.91" × D 2.76" × H 1.97**5 VL-530: -
Stage	Stage configuration		VL-550: Motorized XYθ stage mechanism VL-530: Motorized θ stage mechanism
	Stage rotation		360° (infinite rotation)
	Stage movement range		VL-550: ø200 mm ø7.87" VL-530: -

	Tilt mechanism	Up to 45°
	Load capacity	VL-550: 50 kg 110.23 lb VL-530: 20 kg 44.09 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	VL-550: Controller/Measurement unit: 200 VA, Stage: 80 VA VL-530: Controller/Measurement unit: 200 VA, Stage: 200 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 (VL-550), 25.4 kg 56.00 lb (VL-530) Light blocking curtain: 5.5 kg 12.13 lb (VL-550), 3.6 kg 7.94 lb (VL-530) 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