

LM-1100

Head

Specifications

Model				LM-1100
Туре				Head
Image sensor				1", 20-mega pixel monochrome CMOS
Display				10.4" LCD monitor (XGA: 1024 × 768)
Receiver lens				Double telecentric lens
Image mea- surement	Field of view	Wide-field measurement mode		225 mm × 125 mm 8.86" × 4.92"
		High-precision measurement mode		206 mm × 106 mm 8.11" × 4.17"
	Minimum display unit			0.1 µm
	Repeatability	Inside cam- era's field of view (2σ)	Wide-field measurement mode	±0.5 μm
			High-precision measurement mode	±0.1 μm
		With stage movement	X/Y axis	±0.9 μm
			X/Y plane	
	Measurement accuracy	Inside cam- era's field of view (2 σ)	Wide-field measurement mode	±2 μm*1
			High-precision measurement mode	±0.7 μm*2
		With stage movement	X/Y axis (EU- X,MPE , EU- Y,MPE)	±(1.8 + 0.02 L) μm*3
			X/Y plane (EU- XY,MPE)	±(2.8 + 0.02 L) μm*3
AF height mea- surement	Repeatability			±2 μm
	Measurement accuracy (EUZ,MPE)			±(4.8 + 0.04 L) μm*4
External remote input				Non-voltage input (with and without contact)
External output	OK/NG/FAIL/MEAS.			PhotoMOS output Rated load 24 V DC, 0.5 A ON resistance 50 mΩ or lower
Interface	LAN			RJ-45 (10BASE-T/100BASE-TX/1000BASE-T)
	USB 3.1			2 ports (rear: 2)
	USB 2.0 Series A			4 ports (front: 2, rear: 2)
	Monitor output			DVI-D
Record	Hard disk drive			500 GB



Illumination	Transparent	Telecentric transparent illumination
system	Ring	Four division, multi-angle illumination (electric) Slit ring (directivity) illumination (electric) Telecentric coaxial illumination
External illumi- nation control	Intensity control	PWM control, 100 kHz
	Output voltage	12 V DC
	Output current	1.6 A (max.)
XY stage	Moving range	200 mm × 100 mm 7.87" × 3.94" (electric)
	Withstand load	7 kg
Z stage	Moving range	75 mm 2.95" (electric)
Power supply	Power voltage	100 to 240 V AC ±10% (50/60 Hz)
	Power consumption	430 VA or lower
Environmental resistance	Ambient temperature	+10 to 35°C +50 to 95°F*5
	Relative humidity	20–80% RH (no condensation)
	Overvoltage category	II.
	Pollution degree	2
Weight		Approx. 30 kg

^{*1} In the range of 20 mm × 20 mm 0.79" × 0.79" within the operating ambient temperature range of $+23^{\circ}C \pm 1^{\circ}C +73.4^{\circ}F \pm 1.8^{\circ}F$ at the focused focal point position.

⁺² In the range of 5 mm × 5 mm 0.20" × 0.20" within the operating ambient temperature range of +23°C ±1°C +73.4°F ±1.8°F at the focused focal point position

 ,73 In accordance with ISO10360-7, within the operating ambient temperature range of +23°C ±1°C +73.4°F ±1.8°F at the focused focal point position, and with a load weighing 2 kg or less on the stage (L = amount of X/Y stage movement in mm units)

^{*4} In accordance with ISO10360-7, within the operating ambient temperature range of $+23^{\circ}C \pm 1^{\circ}C + 73.4^{\circ}F \pm 1.8^{\circ}F$, set to a maximum measurement of 50 mm 1.97" or less, (L = amount of Z stage movement in mm units).

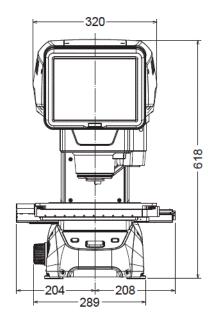
*5 +15 to 35°C +59 to 95°F with X/Y stage travel speed of 80 mm/s.

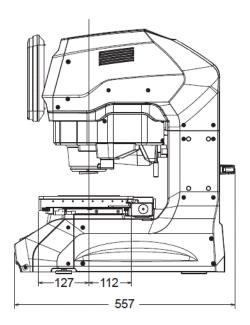


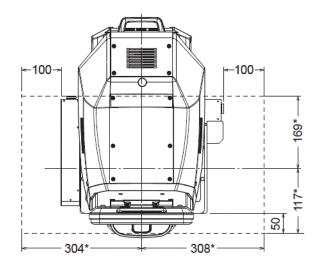
Dimensions

* Download CAD file or product manual for larger image/text and more detail.

Head







* Maximum movable range Unit: mm