

Technical specifications

Model number		SR7020	
Reference distance (CD)		23mm	
Measuring range	Z-axis height (FS)		3.8mm
	X-axis width	Near side	9.2mm
		Reference distance	9.6mm
		Remote side	9.6mm
Light source	Light source wavelength		405nm blue light
	Laser class		2M
	Laser output power		10mW
Repetition accuracy	Z-axis (height)		0.1μm
	X-axis (width)		1.0μm
linearity	Z-axis (height)		±0.05% F.S.
Contour data interval	X-axis (width)		3μm
X-axis contour points		3200	
Reflection Angle (°)		41.5	
Scanning speed (Hz)		750 ~ 2000	
Dimension (mm)		125×82×55	
Weight (g)		690	
Temperature characteristic		0.02% F.S./°C	
Encoder input		Single-ended, differential coders are supported	
Input/output		One 100Base-TX/1000Base-T Ethernet interface	
Operation Temperature		0~50°C	
Storage Temperature		-20~70°C	
Working Humidity		35% to 85% without condensation	
ESD Protection		Contact discharge 4kV, air discharge 8kV, in accordance with IEC 61000-4-2 standards	
EFT protection		Power port 2kV/5 or 100kHz, signal port 1kV/5 or 100kHz, in accordance with IEC 61000-4-4 standards	
Impact		50Gs/3ms per axis, in accordance with IEC 68-2-27 Ea standard	
Vibration		10Gs (10-500Hz), compliant with IEC 68-2-6 Fc standard	
degrees of protection provided by enclosure		IP67, in accordance with IEC 60529 standard	

