



Feature

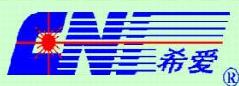
- ◆ Spectral Detection Range: 1030nm~1080nm
- ◆ Beam Spot Measurement Range: 50um~9.8mm
- ◆ Power Measurement: 300W~500W
- ◆ Motorized Precision Adjustment: 20mm Travel
- ◆ Long-Term Measurement Stability & High Repeatability
- ◆ Compact structure, adaptable to harsh environments and resistant to accidental impacts

Parameters

Parameter Category	Model	CN0310NIR-W500-AZ20L
Overall parameters	Detection Wavelength Range	1030~1080nm ^①
	Operating Mode	Motorized Adjustment
	Adjustment Range	±10mm
	Parfocal Tolerance	Parfocal
	Operational Conditions	Software environment: Windows 10/11, 64 bit, pre installed with MS Office or WPS, Hardware configuration: ≥8GB memory, CPU clock speed ≥2.5G, core ≥4, recommended i5 or above equivalent models, optimal display resolution 1920 * 1080
	Size	239.1*120*200mm
	Weight	< 5Kg
Basic parameters	Sensor Pixel Size	3.2um
	Sensor Maximum Area	13.1mm*9.8mm
	Minimum Beam Spot Size	50μm
	Maximum Beam Spot Size	9.8mm ^②
	Maximum Acceptance Angle	±2.5°@On-Axis Incidence±0.05mm
	Minimum Power Measurement	0.1W@50um
	Maximum Power Measurement	300W@focusing spot≥50μm, CW 500W@focusing spot≥100μm, CW
	Defocus Measurement Range	-10mm~+5mm, Calculated based on a parfocal distance of 96 mm
	Light Input Orientation	Vertical
	Detection Time	≤1minute@500W ≤3minutes@300W Continuous Operation@200W
	Attenuator	OD0/OD1/OD2/OD3/OD4.5
	Interface	USB3.0
	External Trigger	Supported
	Cooling System	Air cooling; Water cooling, flow rate 10L/min, water temperature 20~25°C, cooling capacity 0.5~1KW, head 10~25 meters
	Operating Environment	Temperature<15~25°C, relative humidity<60%

Attention: ① After replacing the window component, the Spectral Detection Range can be expanded.

② For TEM00 mode beam, the center incidence has a spot size of 6.5mm.



Main General Component Parameters

Parameter Category	Model	specification
Motorized Translation Stage	Stage Dimensions	120×120mm
	Travel Range	20mm
	Max. Velocity	8mm/s
	Repeatability	±0.001mm
	Positioning Accuracy	0.03mm
	Resolution (Full/Half step)	0.001/0.0005mm
	quantity	1
Adapter Plate (L)	Dimensions	120×20.5×14mm
	Weight	< 0.05Kg
	quantity	1
Adapter Plate (R)	Dimensions	120×20.5×14mm
	Weight	< 0.05Kg
	quantity	1
Motor Controller	Dimensions	190×128×56.1mm
	Power Input	DC24V 2A
	Joystick Manual Control	Supported
	Absolute Positioning	Supported
	Relative Positioning	Supported
	Weight	< 1kg
	quantity	1

