

CN0310NIR-W1000-FA10Y

High-power series | Beam profiler

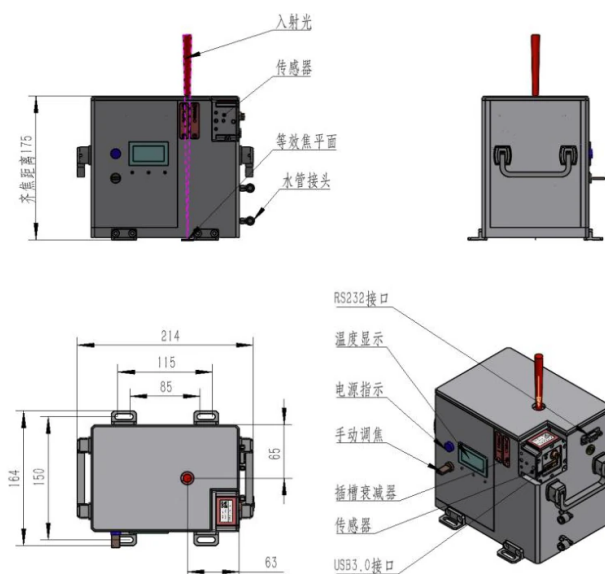
CN0310NIR-W1000-FA10Y high-power series beam profiler. Spectral range: 1030-1080 nm, Other wavelength bands customizable. Beam-spot range: 32 μm -5 mm@1/e²(TEM00). Check power, attenuation and interface conditions for the selected configuration.



Model specifications	Specification
Model	CN0310NIR-W1000-FA10Y
Spectral Range	1030-1080 nm, Other wavelength bands customizable
Spot detection range	32 μm -5 mm@1/e ² (TEM00)
Light entrance direction	Vertical
Minimum power	10 mW@50 μm
Maximum power	1000 W water-cooled continuous operation
Damage Threshold	Max power density at inlet window $\leq 20 \text{ kW/cm}^2$
attenuation	Conventional wavelength band: OD1/OD2/OD3/OD4.5
Work mode	Electric adjustment
Adjustment Range	Stroke: $\pm 15 \text{ mm}$, repeat accuracy: $\pm 0.005 \text{ mm}$
Parfocal Distance	175 mm, focal equivalent position: product bottom surface
Max. receiving angle	$\pm 1.5^\circ$ @ Central Incidence $\pm 0.1 \text{ mm}$
Data Interface	USB3.0
Trigger	TTL signal supported, high level pulse width $> 50 \mu\text{s}$
Software Configuration	1.Lasescope NX supports beam parameter analysis and statistics complying with ISO 11146 and ISO 13694 standards. It features real-time display and storage of single-beam and multi-beam spot data, as well as TCP port communication and control functions. 2.Lasescope M2 realizes fully automatic measurement of beam quality factor (M^2) in accordance with ISO 11146.
Environment	Temperature $< 15-25^\circ\text{C}$, relative humidity $< 60\%$
Software	Software: Windows 10/11 (64-bit), pre-installed MS Office or WPS Hardware: $\geq 8 \text{ GB}$ RAM, CPU $\geq 2.5 \text{ GHz}$, ≥ 4 cores (i5 or equivalent recommended), optimal resolution 1920×1080
Cooling mode	Water cooling: flow rate at 10 L/min, water temperature range 20-25°C, Cooled quantity of 0.5-1 KW , head from 10-25 m
Size	180*130*175 mm(Length × Width × Height)
Weight	$< 5 \text{ Kg}$

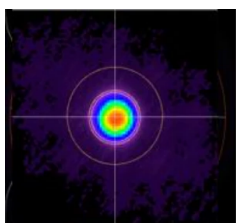
CN0310NIR-W1000-FA10Y

Mechanical outline and measurement conditions

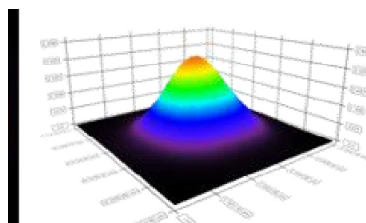


Mechanical outline | Dimensions in mm

Beam-analysis examples



Two-dimensional intensity map



Three-dimensional beam profile

Illustrative software output, not a test result for this unit. Available functions depend on the selected hardware and software.

Measurement conditions and configuration notes

Power handling is conditional on the specified wavelength, incident spot size, cooling and detection time. A peak model number is not a continuous operating rating for every beam.

Read total power, power density and pulse-energy-density limits with the specified attenuation, wavelength, spot size, cooling and detection time. A maximum power figure does not apply to every beam configuration.

Precisometer | info@precisometer.com | Product details and enquiry

Specification review: 24 October 2026. Confirm the selected optical, attenuation and cooling configuration with your quotation. Include wavelength, spot size, pulse conditions, power, cooling and required analysis.