

CN0104NIR-W500

High-power series | Beam profiler

CN0104NIR-W500 high-power series beam profiler. Spectral range: 1030-1080 nm. Beam-spot range: 20 μm to 4 mm; TEM00 limit: 2.6 mm. Check power, attenuation and interface conditions for the selected configuration.

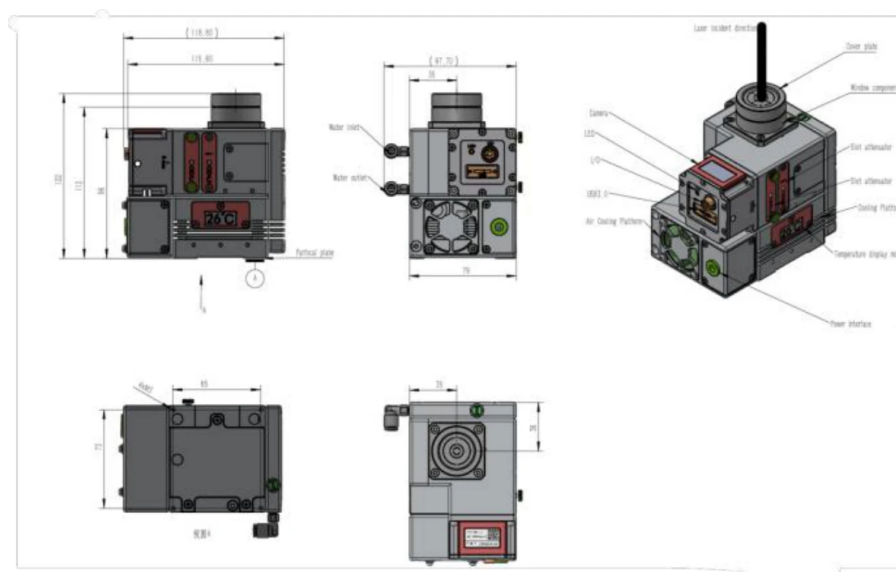
Configuration confirmation required. Read the identification and specification notes on the following pages.



Model specifications	Specification
Catalogue model	CN0104NIR-W500
Model (document label)	CN0104VIS-W500
Spectral Range	1030-1080 nm [1]
Pixel Size	1.67 μm
Sensor size	6.4 mm*4.5 mm
Min. beam diameter	20 μm
Max Beam Size	4 mm [2]
Max. receiving angle	$\pm 2.5^\circ$ @ Center incidence ± 0.05 mm
Minimal Power	0.1 W@50 μm
Maximum Power	200 W, Converge Light ≥ 20 μm , CW 300 W, Converge Light ≥ 50 μm , CW 500 W, Converge Light ≥ 100 μm , CW
Parfocal Tolerance	± 0.5 mm
Defocus Range	-10 mm - +5 mm, Based on the parfocal distance of 96 mm for calculation.
Laser incident direction	Vertical
Operation time	≤ 1 min@500 W ≤ 3 min@300 W Continuous operation@200 W
Attenuation	short infrared band: OD1/OD2/OD3/OD4.5(1030-1080 nm)
Data Interface	GigE
Trigger	Yes
Cooling mode	Air cooling; 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
Environment	Temperature: 15-25°C, Relative humidity <60%
Software	Operation system: Windows 10/11, 64-bit, pre-installed MS Office or WPS. Hardware: ≥ 8 G RAM, CPU i5 or above(≥ 2.5 GHz, core ≥ 4 , recommended display resolution 1920*1080.
Weight	<1.5 kg

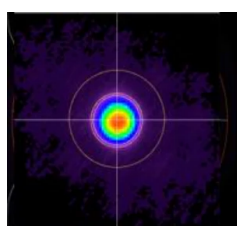
CN0104NIR-W500

Mechanical outline and measurement conditions

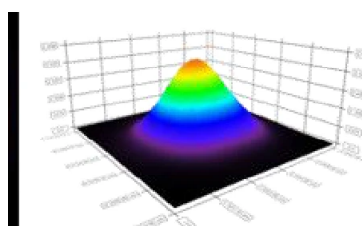


Mechanical outline | Dimensions in mm

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

[1] .After replacing certain components related to windows, it is possible to expand the operational range. [2] For the TEM00 mode laser beam, with a central incidence, the spot size is 2.6 mm.

The listing identifies this configuration as CN0104NIR-W500; the model document is labelled CN0104VIS-W500. Confirm this identification when specifying the configuration.

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.

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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.