

CD0307UV-M

Medium-power series | Beam profiler

CD0307UV-M medium-power series beam profiler. Spectral range: 190-340 nm. Beam-spot range: 35 μm to 7.1 mm; TEM00 limit: 4.7 mm. Check power, attenuation and interface conditions for the selected configuration.

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



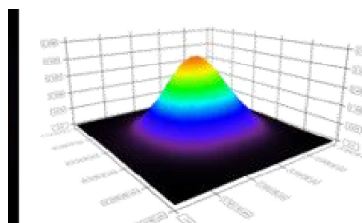
Model specifications	Specification
Catalogue model	CD0307UV-M
Model (document label)	CN0307VIS-M
Spectral Range	190-340 nm
Sensor size	8.4 mm*7.1 mm
Min. beam diameter	35 μm
Max. beam diameter	7.1 mm [1]
Max. receiving angle	Collimated Light: $\pm 2.5^\circ$ Converge Light:: NA0.08
Min. Power	1 mW
Max. Power	10 W
Max. energy density	20J/cm ²
Operation time	2minutes@10 W
Parfocal Tolerance	0.05 mm
Defocus Range	± 5 mm, Based on the parfocal distance of 95 mm for calculation.
Laser incident direction	Vertical orientation, customizable to requirements
Attenuator	OD0/OD0.5/OD1/OD2/OD3(190-340 nm)
Interface	USB3.0
External Trigger	Supported
Operating Environment	Temperature: 0-35°C [2] , Relative humidity<60%
Operational Conditions	Operating system: Windows 10/11, 64-bit, pre-installed MS Office or WPS. Hardware: $\geq 8\text{G}$ RAM, CPU I5 or above ($\geq 2.5\text{GHz}$, Core ≥ 4), recommended display resolution is 1920*1080.
Weight	<1 Kg

Positioning and exposure control	Specification
X-axis maximum travel	13 mm
Exposure and gain control	Manual / automatic real-time exposure and gain adjustment

Mechanical outline and measurement conditions



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.

[1] For TEM00 mode beam, the center incidence has a spot size of 4.7 mm. [2] This is the operating temperature range. For directional stability tests (e.g., beam pointing verification), the ambient temperature must be controlled within 15-25°C.

The listing identifies this configuration as CD0307UV-M; the model document is labelled CN0307VIS-M. Confirm this identification when specifying the configuration.

The series overview groups this unit under a 50 W maximum; its model document specifies 10 W and two minutes at 10 W. This page uses that lower model-specific limit.

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.