

CN0205UV-XU

Microfocus series | Beam profiler

CN0205UV-XU microfocus series beam profiler. Spectral range: 400-800 nm. Beam-spot range: 5 μm -0.5 mm. Check power, attenuation and interface conditions for the selected configuration.

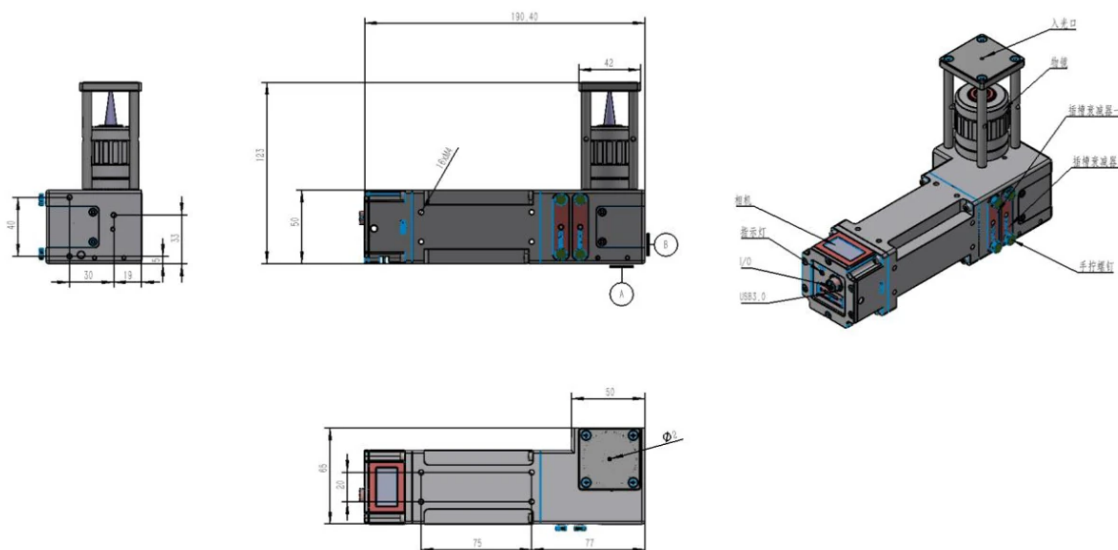
Configuration confirmation required. Read the identification and specification notes on the following pages.



Model specifications	Specification
Model	CN0205UV-XU
Detection Wavelength	400-800 nm
Beam Spot Detection Range	5 μm -0.5 mm
Camera Effective Area	$\varnothing 5$ mm
Magnification	10x
Resolution	0.5 μm
Exposure Time	0.05 ms-500 ms
Maximum Power	1 W @ minimum spot size
Minimum Sensitivity	0.717 $\mu\text{W}/\text{cm}^2$ [1]
Built-in Attenuation	OD0/OD1/OD2/OD3/OD4
Interface	GigE
Processing Frame Rate	5-10 fps [2]
External Trigger	Not supported
Dimensions	Refer to mechanical drawing
Beam Input Orientation	Vertical/Horizontal
Defocus Range	-1 mm , +1.3 mm
Operating Environment	Temperature<0-35°C [3] , relative humidity<60%
Operational Conditions	Software environment: Windows 10/11, 64 bit, pre installed with MS Office or WPS, Hardware configuration: $\geq 8\text{GB}$ memory, CPU clock speed $\geq 2.5\text{G}$, core ≥ 4 , recommended i5 or above equivalent models, optimal display resolution 1920 * 1080
Weight	<1.5 Kg

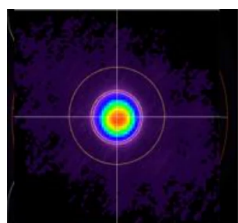
CN0205UV-XU

Mechanical outline and measurement conditions

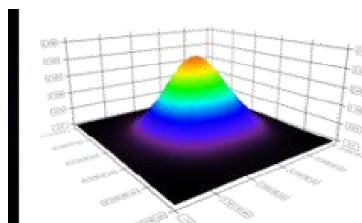


Mechanical outline | Dimensions in mm

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] This represents the camera response under the parameters of a 633 nm wavelength and 100 ms exposure time. [2] Frame rate specification applies under 5-megapixel imaging conditions. [3] Operating temperature range. For directional measurements, maintain ambient temperature at 15-25°C.

Configuration confirmation required: the overview lists 343-355 nm and 3 W, while the model document specifies 400-800 nm and 1 W. The tables reproduce the model document; do not select this unit for a UV or 3 W requirement without confirming its configuration.

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.