

CD0307UV-B

Basic series | Beam profiler

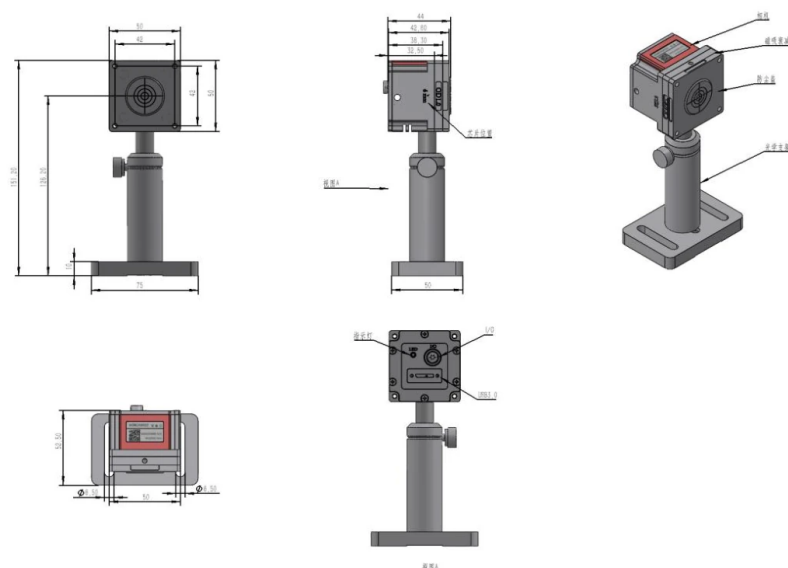
CD0307UV-B basic series beam profiler. Spectral range: 190-340 nm, 340-1100 nm. Beam-spot range: 34.5 μm -7.1 mm. Check power, attenuation and interface conditions for the selected configuration.



Model specifications	Specification
Model	CD0307UV-B
Spectral Range	190-340 nm, 340-1100 nm
Dynamic Range	73.9 dB
Lowest effective response	[1] 1.52 $\mu\text{W}/\text{cm}^2$ @266 nm 0.0965 $\mu\text{W}/\text{cm}^2$ @633 nm 0.434 $\mu\text{W}/\text{cm}^2$ @1064 nm
Sensor size	8.4*7.1 mm
Resolution	2448*2048
Min. sensor position	6 mm
Sensor Pixel Size	3.45 μm
Exposure Time	0.05 ms-500 ms
Shutter	Global Shutter
Beam Spot Detection Range	34.5 μm -7.1 mm
Max. Power Density (damage threshold)	50 W/cm^2 (with OD3.0 attenuation)
Max. energy density	1 J/cm^2 (with OD3.0 attenuation)
Max. Power	1 W
Attenuator	OD1.0D/OD20.D/OD3.0D(190-340 nm) OD0.5/OD1/OD2/OD3(340-1100 nm)
Data interface	USB3.0
Calculating frame rate	5-10 fps [2]
Trigger	Yes
Structure Type	Back interface, compatible with C-port thread
Dimension	See the outline
Operating Environment	Temperature: 0-35°C [3] , 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 above ($\geq 2.5\text{GHz}$, Core ≥ 4), recommended display resolution is 1920*1080.
Weight	<500 g

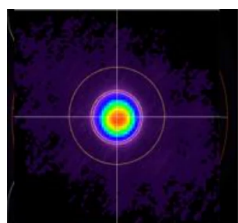
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Mechanical outline and measurement conditions

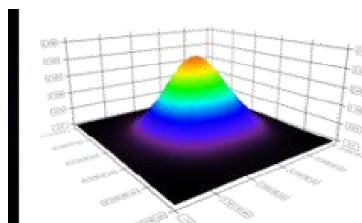


Mechanical outline | Dimensions in mm

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] The described parameter indicates the lowest effective response when the exposure time is set to 100 milliseconds. [2] The parameter mentioned is the calculating frame rate at a resolution of 5,000,000 pixels. [3] It is the working temperature, if it involves directivity test, the temperature should be controlled at 15-25°C.

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.