

CN0505VIS-NIR-B

Infrared series | Beam profiler

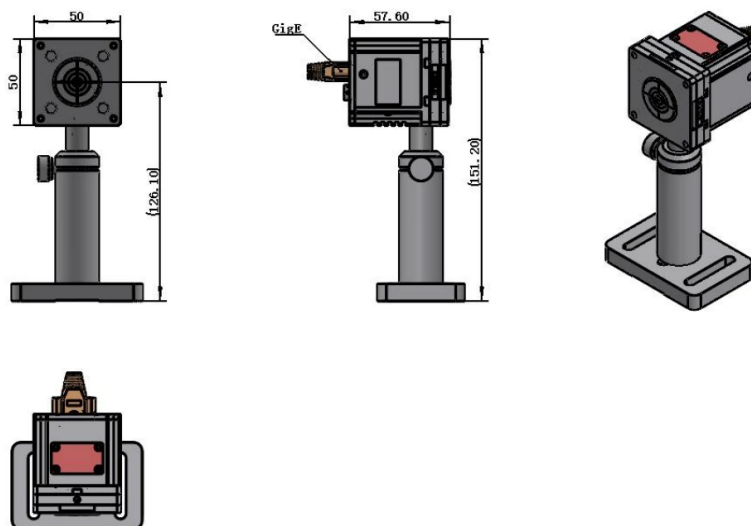
CN0505VIS-NIR-B infrared series beam profiler. Spectral range: 350-1100 nm/1100-1750 nm. Beam-spot range: 50 μm -5.1 mm(TEM00); TEM00 limit: 3.6 mm. Check power, attenuation and interface conditions for the selected configuration.



Model specifications	Specification
Product Name	CN0505VIS-NIR-B
Spectral Range	350-1100 nm/1100-1750 nm
Sensor Size	6.4*5.1 mm
Pixel Size	5 μm
Resolution	1280*1024
Dynamic Range	70 dB
Exposure Time	0.05 ms-500 ms
Shutter Type	Global Shutter cMos
Beam Diameter	50 μm -5.1 mm(TEM00)
Maximum Power Density	10 W/cm ² (OD3.5)
Maximum Energy Density	1J/cm ² (OD3.5)
Maximum Power	1 W
Attenuator	general band: OD0.5/OD1/OD2/OD3(350-1100 nm) short infrared band: OD1/OD2/OD3(1100-1750 nm)
Communication Interface	GigE
External Triggering	Available
Dimensions	Reference structure diagram
Operating Environment	Temperature<0-35°C [1] : Relative humidity<60%; Pointing test temperature: 15-25°C
Operating System	Windows 10/11, 64-bit, pre-installed MS Office or WPS Hardware configuration: $\geq 8\text{G}$ memory, CPU frequency $\geq 2.5\text{G}$, core ≥ 4 , i5 and above are recommended, and the best display resolution is 1920*1080
Weight	<500 g
Warranty	1 year

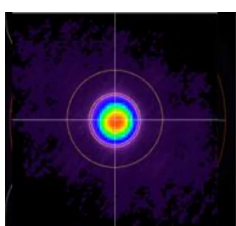
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Mechanical outline and measurement conditions

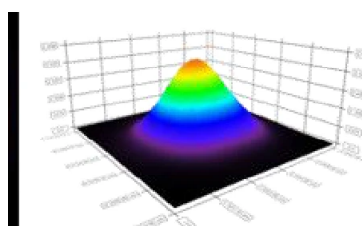


Mechanical outline | Dimensions in mm

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. This is the operating temperature, if it involves directivity test, the temperature should be controlled at 15- 25°C. 2. The maximum test spot size of the TEM00 mode laser is 3.6 mm

The overview starts the visible band at 340 nm; the model specification starts it at 350 nm. The model specification is used here.

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.