

Beam Profilers

Basic series | Range selection guide

Compare the documented configurations, then use the individual Precisometer model datasheet for sensor, trigger, attenuation, damage-threshold, cooling and operating-time specifications. Gaussian/TEM00 limits may be smaller than the geometric sensor range.



Model	Spectral range	Spot detection range	Power and operating time
CN0204VIS-B	340-1100 nm	22 µm-4.3 mm	1 W
CN0204VIS-NIR-B	340-1100 nm, 1100-1350 nm	22 µm-4.3 mm	1 W
CD0307VIS-B	340-1100 nm	34.5 µm-7.1 mm	1 W
CD0307UV-B	190-340 nm, 340-1100 nm	34.5 µm-7.1 mm	1 W
CN0307VIS-B	340-1100 nm	34.5 µm-7.1 mm	1 W
CN0307UV-B	190-340 nm, 340-1100 nm	34.5 µm-7.1 mm	1 W
CN0310VIS-B	340-1100 nm	32 µm-9.8 mm	1 W
CN0310VIS-NIR-B	340-1100 nm, 1100-1350	32 µm-9.8 mm	1 W
CN0511VIS-B	340-1100 nm	55 µm-11.3 mm	1 W
CN0511UV-B	190-340 nm, 340-1100 nm	55 µm-11.3 mm	1 W
CN0511VIS-NIR-B	340-1100 nm, 1100-1350 nm	55 µm-11.3 mm	1 W
CN0512VIS-B	340-1100 nm	50 µm-12.8 mm	1 W
CN0615VIS-B	340-1100 nm	64 µm-15.8 mm	1 W
CN0615VIS-NIR-B	340-1100 nm, 1100-1350 nm	64 µm-15.8 mm	1 W
CN0622VIS-B	340-1000 nm	64 µm-22.4 mm	1 W

* Configuration confirmation required: the listing and model documentation differ or omit a numeric field. The individual model datasheet explains the discrepancy. All high-power ratings require the specified wavelength, spot size, cooling and measurement time.

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Infrared series | Range selection guide

Compare the documented configurations, then use the individual Precisometer model datasheet for sensor, trigger, attenuation, damage-threshold, cooling and operating-time specifications. Gaussian/TEM00 limits may be smaller than the geometric sensor range.



Model	Spectral range	Spot detection range	Power and operating time
CS1507NIR-GB	900-1700 nm	150 µm-7.68 mm; TEM00 limit: 4.7 mm	0.5 W
CS1507NIR-B	1250-2100 nm	150 µm-7.68 mm	0.1 W
CN0505VIS-NIR-B	350-1100 nm/1100-1750 nm	50 µm-5.1 mm(TEM00); TEM00 limit: 3.6 mm	1 W
CN0505NIR-B	900-1750 nm	50 µm-5.1 mm	1 W

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Medium-power series | Range selection guide

Compare the documented configurations, then use the individual Precisometer model datasheet for sensor, trigger, attenuation, damage-threshold, cooling and operating-time specifications. Gaussian/TEM00 limits may be smaller than the geometric sensor range.



Model	Spectral range	Spot detection range	Power and operating time
CN0204VIS-M	340-1100 nm	22 µm to 4.3 mm; TEM00 limit: 2.9 mm	50 W; 2minutes@50 W
CD0307UV-M *	190-340 nm	35 µm to 7.1 mm; TEM00 limit: 4.7 mm	10 W; 2minutes@10 W
CN0307VIS-M	340-1100 nm	35 µm to 7.1 mm; TEM00 limit: 4.7 mm	50 W; ≤2minutes@50 W
CN0310VIS-M	340-1100 nm	32 µm to 9.8 mm; TEM00 limit: 6.5 mm	50 W; 2minutes@50 W
CN0615VIS-M *	340-1100 nm	32 µm to 15 mm; TEM00 limit: 11 mm	50 W; ≤2minutes@50 W
CN0615VIS-NIR-M *	340-1100 nm/ 1100-1350 nm	32 µm to 15 mm; TEM00 limit: 11 mm	50 W; ≤2minutes@50 W

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The UV model CD0307UV-M is documented at 10 W for two minutes, although the series overview groups it with 50 W units. Use the model-specific limit.

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High-power series | Range selection guide

Compare the documented configurations, then use the individual Precisometer model datasheet for sensor, trigger, attenuation, damage-threshold, cooling and operating-time specifications. Gaussian/TEM00 limits may be smaller than the geometric sensor range.



Model	Spectral range	Spot detection range	Power and operating time
CN0104VIS-W300	340-1080 nm	20 µm to 4 mm; TEM00 limit: 2.6 mm	300 W, focused spot ≥50 µm, CW
CN0310VIS-W300	340-1080 nm	50 µm to 9.8 mm; TEM00 limit: 6.5 mm	200 W, focused spot ≥50 µm, CW
CN0104NIR-W500 *	1030-1080 nm	20 µm to 4 mm; TEM00 limit: 2.6 mm	200 W, Converge Light≥20 µm, CW 300 W, Converge Light≥50 µm, CW 500 W, Converge Light≥100 µm, CW; ≤1min@500 W ≤3min@300 W Continuous operation@200 W
CN0310NIR-W500	1030-1080 nm	50 µm to 9.8 mm; TEM00 limit: 6.5 mm	300 W, Converge Light≥50 µm, CW 500 W, Converge Light≥100 µm, CW; ≤1min@500 W ≤3min@300 W Continuous operation@200 W
CN0104NIR-W500-AZ20L	1030-1080 nm	20 µm to 4 mm; TEM00 limit: 2.6 mm	200 W, Converge Light≥20 µm, CW 300 W, Converge Light≥50 µm, CW 500 W, Converge Light≥100 µm, CW; ≤1minute@500 W ≤3minutes@300 W Continuous Operation@200 W
CN0310NIR-W500-AZ20L	1030-1080 nm	50 µm to 9.8 mm; TEM00 limit: 6.5 mm	300 W@focusing spot≥50 µm, CW 500 W@focusing spot≥100 µm, CW; ≤1minute@500 W ≤3minutes@300 W Continuous Operation@200 W
CN0310NIR-W1000-FA10Y	1030-1080 nm, Other wavelength bands customizable	32 µm-5 mm@1/e ² (TEM00)	1000 W water-cooled continuous operation

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Microfocus series | Range selection guide

Compare the documented configurations, then use the individual Precisometer model datasheet for sensor, trigger, attenuation, damage-threshold, cooling and operating-time specifications. Gaussian/TEM00 limits may be smaller than the geometric sensor range.



Model	Spectral range	Spot detection range	Power and operating time
CD0307UV-XD	248-266 nm	5 µm-0.5 mm	1 W @ minimum spot size 0.5mJ @ minimum spot size
CN0205UV-XU *	400-800 nm	5 µm-0.5 mm	1 W @ minimum spot size
CN0307UV-XU	343-355 nm	5 µm-0.5 mm	3 W@ min. focus spot
CN0310VIS-XGW05	515 nm-532 nm	10 µm-1 mm	2.5 W@minimum focal spot
CN0310VIS-XG	515 nm-532 nm	5 µm-0.5 mm	5 W@minimum focal spot
CN0310VIS-XGW	515 nm-532 nm	5 µm-0.5 mm	2.5 W@minimum focal spot
CN0310VIS-XGW2	515 nm-532 nm	2.5 µm-0.25 mm	2.5 W@minimum focal spot
CN0310VIS-XGW5	515 nm-532 nm	1 µm-0.1 mm	2.5 W@minimum focal spot
CN0310NIR-XNW05	900-1100 nm	10 µm-1 mm	5 W@minimum focal spot
CN0310NIR-XN	900-1100 nm	5 µm-0.5 mm	10 W@ min. focus spot
CN0310NIR-XNW	900-1100 nm	5 µm-0.5 mm	5 W@minimum focal spot
CN0310NIR-XNW2	900-1100 nm	2.5 µm-0.25 mm	5 W@minimum focal spot
CN0310NIR-XNW5	900-1100 nm	2 µm-0.1 mm	5 W@minimum focal spot
CN0310VIS-XVW05	400-800 nm	10 µm-1 mm	0.5 W@minimum focal spot
CN0310VIS-XVW	400-800 nm	5 µm-0.5 mm	0.5 W@minimum focal spot
CN0310VIS-XVW2	400-800 nm	2.5 µm-0.25 mm	0.5 W@minimum focal spot
CN0310VIS-XVW5	400-800 nm	1 µm-0.1 mm	0.5 W@minimum focal spot

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Prepared by Precisometer. Specification review: 24 October 2026. Individual model datasheets and enquiries:
www.precisometer.com/lasers/measurement-and-safety/beam-diameter-divergence-testing.