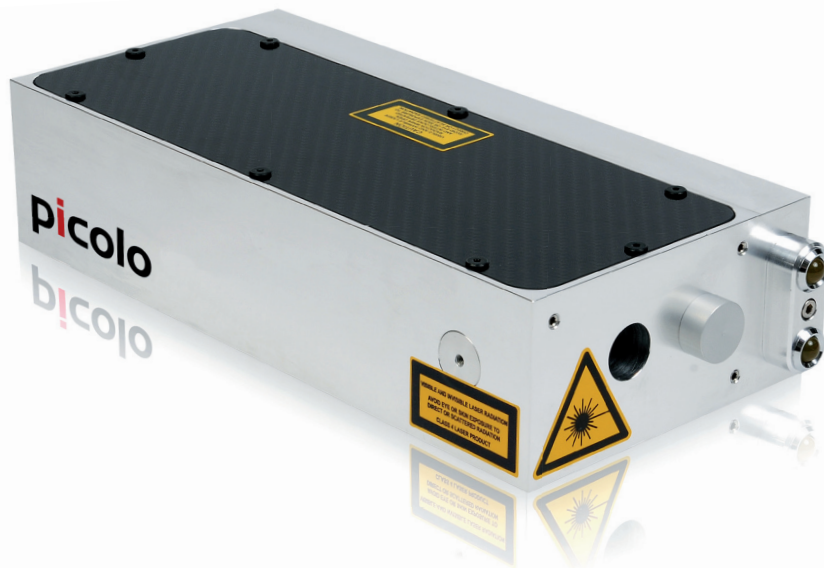


picolo

Sub-Nanosecond Lasers

picolo

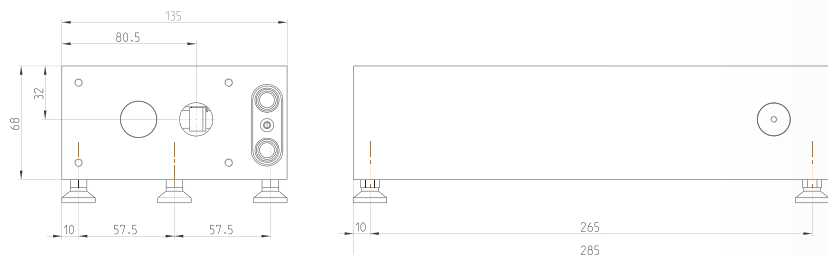


Features

- * Compact laser head and power supply with small footprint
- * High efficiency
- * No external cooling required
- * TEM₀₀ pulses down to 500 ps
- * Rep-rates up to 100 kHz
- * Ext triggering/synchronisation to < 200 ps jitter
- * Oscillators to 2 W and > 125 kW peak
- * Osc/amps to > 4 W and > 300 kW peak
- * IR, Visible/UV (harmonic) and fibre optic delivery options
- * Laboratory or customised OEM units

picolo

Model	picolo 1	picolo 25	picolo 50	picolo 100	picolo YAG
Max rep-rate:	up to 5 kHz optimized for 1 kHz	up to 25 kHz	up to 50 kHz	up to 100 kHz	up to 10 kHz
Max. Pulse Energy at 1064 nm	80 μ J	35 μ J	25 μ J	15 μ J	150 μ J
Max. Pulse Energy at 532 nm	35 μ J	15 μ J	10 μ J	6 μ J	60 μ J
Max. Pulse Energy at 355 nm	22 μ J	10 μ J	6 μ J	3 μ J	35 μ J
Max. Pulse Energy at 266	10 μ J	5 μ J	2 μ J	1 μ J	10 μ J
Pulse Width at 1064 nm (FWHM)	< 800 ps @ 1 kHz	< 1000 ps @ 25 kHz	< 1100 ps @ 50 kHz	< 2000 ps @ 100 kHz	< 3000 ps @ 10 kHz
Power Stability at 1064 nm (RMS)	< 3%	< 3%	< 3%	< 3%	< 5%
Max Average Power	400 mW	750 mW	1200 mW	1400 mW	850 mW
Bandwidth	< 1 nm				< 1 nm
Polarisation	> 1:100 plane polarised				> 1:100 plane polarised
Spatial Mode	TEM ₀₀				TEM ₀₀
Beam Waist Size	0.20 mm (nominal)				0.20 mm (nominal)
Beam Divergence	7.0 mrad (nominal)				7.0 mrad (nominal)
Beam Ellipticity	< 10%				< 10%
Operating Environment	ambient 15-30 °C and above dew point				ambient 15-30 °C and above dew point
Jitter to external trigger	< \pm 0.4 ns				< \pm 0.8 ns
Electrical Supply	110-250 VAC, 50/60 Hz				110-250 VAC, 50/60 Hz
Power Consumptions	< 100 W				< 100 W
Dimensions Laser Head (L x W x H)	285 x 135 x 68 mm				285 x 135 x 68 mm
Dimensions Power Supply (L x W x H)	438 x 44 x 465 mm				438 x 44 x 465 mm
Weight Laser Head	4 kg				4 kg
Weight Power Supply	5.8 kg				5.8 kg



InnoLas follows a policy of continuous product improvement. All specifications are subject to change without notice. All specifications at 1064 nm unless otherwise noted.

InnoLas Laser GmbH is DIN EN ISO 9001 certified.



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