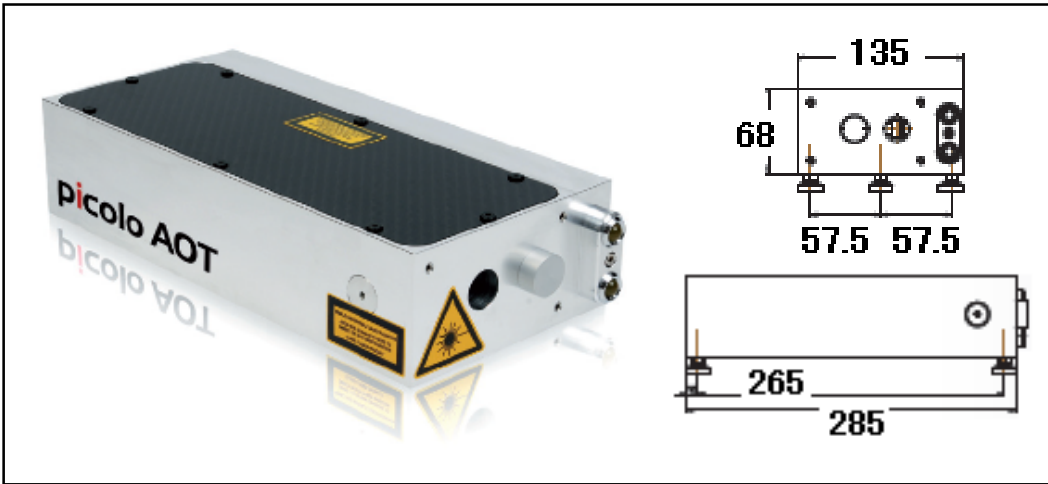


The InnoLas piccolo AOT series stands for compact and uniquely efficient high repetition-rate short-pulse solid state lasers (sub-nanosecond) operating with high energy in the UV, visible and near infra-red. Proprietary high speed switching technology allows the E-O Q-switched laser products to deliver kHz pulses below 1ns duration that are synchronizable to external events with sub-nanosecond accuracy.

特徴

- ・コンパクト設計
- ・高効率
- ・低ジッター (< 200 ps jitter)
- ・外部冷却不必要
- ・TEM00 パルス 500/secまで可
- ・Rep-rate 100kHzまで可能
- ・オプションにてIR/ Visible/ UV/ファイバー対応
- ・Oscillators to 2 W and > 125 kW peak
- ・Osc / amps to > 4 W and > 300 kW peak



商品ラインナップ

- ・AOT 1
- ・AOT 25
- ・AOT 50
- ・AOT 100
- ・AOT 1 MOPA
- ・AOT 25 MOPA
- ・AOT 50 MOPA
- ・AOT 100 MOPA

Model	picolo AOT 1	picolo AOT 25	picolo AOT 50	picolo AOT 100
Max rep-rate	up to 5 kHz optimized for 1 kHz	up to 25 kHz	up to 50 kHz	up to 100 kHz
Pulse Energy at 1064 nm	> 80 μ J	> 35 μ J	> 25 μ J	> 15 μ J
Pulse Energy at 532 nm	> 40 μ J	> 15 μ J	> 10 μ J	> 7 μ J
Pulse Energy at 355 nm	> 22 μ J	> 10 μ J	> 7 μ J	< 5 μ J
Pulse Energy at 266 nm	> 10 μ J	> 5 μ J	> 3 μ J	> 2 μ J
Pulse Duration (FWHM)	< 0.8 ns @ 1 kHz	< 1.0 ns @ 25 kHz	< 1.1 ns @ 50 kHz	< 2.0 ns @ 100 kHz
Max Average Power	400 mW	750 mW	1200 mW	1400 mW
Bandwidth	< 1 nm	< 1 nm	< 1 nm	< 1 nm
Polarisation	> 1:100 plane polarised	> 1:100 plane polarised	> 1:100 plane polarised	> 1:100 plane polarised
Spatial Mode	TEM00	TEM00	TEM00	TEM00
Beam Waist Size (2 w)	0.20 mm (nominal)	0.20 mm (nominal)	0.20 mm (nominal)	0.20 mm (nominal)
Beam Divergence (2 θ)	7.0 mrad (nominal)	7.0 mrad (nominal)	7.0 mrad (nominal)	7.0 mrad (nominal)
Beam Ellipticity	< 10 %	< 10 %	< 10 %	< 10 %
Power Stability (rms)	< 3 %	< 3 %	< 3 %	< 3 %
Operating Environment	ambient 15-30 ° C and above dew point	ambient 15-30 ° C and above dew point	ambient 15-30 ° C and above dew point	ambient 15-30 ° C and above dew point
External Triggering	TTL, 50 Ohm input	TTL, 50 Ohm input	TTL, 50 Ohm input	TTL, 50 Ohm input
Jitter to external trigger (rms)	< +/- 0.4 ns	< +/- 0.4 ns	< +/- 0.4 ns	< +/- 0.4 ns
Electrical Supply	110-250 VAC, 50 / 60 Hz	110-250 VAC, 50 / 60 Hz	110-250 VAC, 50 / 60 Hz	110-250 VAC, 50 / 60 Hz
Power Consumptions	< 100 W	< 100 W	< 100 W	< 100 W
Dimensions Laser Head				
(L x W x H)	285 x 135 x 68 mm	285 x 135 x 68 mm	285 x 135 x 68 mm	285 x 135 x 68 mm
(L x W x H)	438 x 44 x 465 mm	438 x 44 x 465 mm	438 x 44 x 465 mm	438 x 44 x 465 mm
Weight Laser Head	4 kg	4 kg	4 kg	4 kg
Weight Power Supply	5.8 kg	5.8 kg	5.8 kg	5.8 kg