

nanio series*

Industrial DPSS Lasers

High Rep. Rate Lasers

NANIO 532-14-V-400

NANIO 355-1-V-400

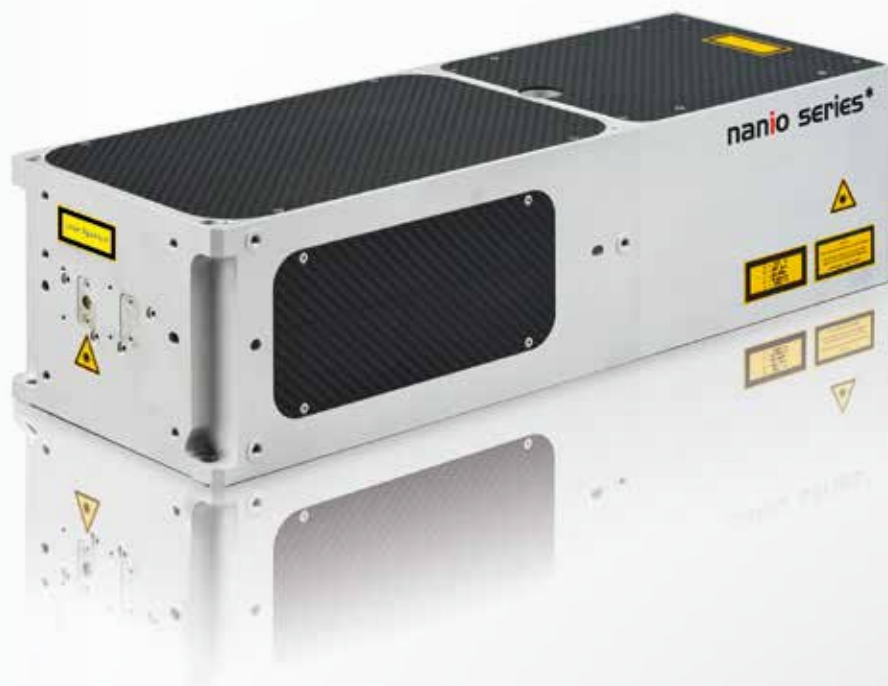


Applications

- * Display Manufacturing
- * PV Manufacturing
- * ITO Patterning
- * Micromachining
- * Scribing
- * Scientific

Features

- * Outstanding performance & reliability
- * Modular industrial design
- * Easy integration and service
- * Field proven long life pump diode modules
- * Superior pulse-to-pulse stability
- * Optimized performance for your application



High Rep. Rate Lasers

Specifications

	532-14-V-400	355-1-V-400
Laser Medium	Nd:YVO ₄	Nd:YVO ₄
Wavelength	532 nm	355 nm
Nominal Power	14 W @ 400 kHz	1 W @ 400 kHz
Repetition Rate	Single Shot to 500 kHz	Single Shot to 500 kHz
Pulse Width	< 60 ns @ 400 kHz	< 60 ns @ 400 kHz
Pulse Energy	35 µJ @ 400 kHz	2.5 µJ @ 400 kHz
Peak Power	> 0.58 kW @ 400 kHz	> 0.04 kW @ 400 kHz
Pulse-to-Pulse Stability	< 3% @ 400 kHz	< 4% @ 400 kHz
Power Stability (rms, 8h)	< 2%	< 2%
Spatial Mode	M ² < 1.3, TEM ₀₀	M ² < 1.4, TEM ₀₀
Nominal Beam Diameter (at waist)	0.2 mm	0.16 mm
Nominal Waist Location (from output)	-320 mm	-280 mm
Beam Divergence (full angle)	4.4 mrad	3.9 mrad
Nominal Beam Diameter (at output)	1.4 mm	1.2 mm
Polarization	Horizontal, > 100:1	Vertical, > 100:1
Circularity	> 90 %	> 85 %
Warm-up Time	< 15 min	< 15 min
Operating Voltage	115-230 VAC ± 10 %, 50-60 Hz, single phase	115-230 VAC ± 10 %, 50-60 Hz, single phase
Laser Power Consumption	< 500 W	< 500 W
Cooling	Water-to-Water or Water-to-Air	Water-to-Water or Water-to-Air
Ambient Temperature	15-40 °C (59-104 °F), non-condensing	15-40 °C (59-104 °F), non-condensing
External Control	RS232, USB, TTL and Analog Q-Switch Control	RS232, USB, TTL and Analog Q-Switch Control
Dimensions Laser Head (L x W x H)	590 x 180 x 135 mm (23.23 x 7.09 x 5.31 in.)	590 x 180 x 135 mm (23.23 x 7.09 x 5.31 in.)
Dimensions Power Supply (L x W x H)	500 x 447 x 88.1 mm (19.69 x 17.6 x 3.47 in.) 19" system, 2 RU high	500 x 447 x 88.1 mm (19.69 x 17.6 x 3.47 in.) 19" system, 2 RU high
Weight Laser Head	19 kg (41.9 lbs.)	19 kg (41.9 lbs.)
Weight Power Supply	12 kg (26.5 lbs.)	12 kg (26.5 lbs.)

Available Options

Umbilical length between laser head and power supply 1-20 m. Standard is 3 m. External beam expander box, beam expanders and scan head adapter flanges. Customized power supply front design. Variable attenuator.

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InnoLas follows a policy of continuous product improvement. All specifications are subject to change without notice. InnoLas Laser GmbH is DIN EN ISO 9001 certified.

