

Product Overview



Think of **LASER** as a tool

InnoLas
Photonics

Product Overview



FEMTO*
Ultra Short Pulse Lasers

- * 25 W
- * TEM₀₀
- * 48 VDC Integrated Power Supply
- * Water Cooling

FEMTO	Nominal Power	Peak Power	PRF, single shot	M ²	Pulse Width	Pulse Energy
Yb:Glass						
FEMTO 515-15-Yb-2500	15 W	30 MW	up to 2500 kHz	< 1.5	500 fs – 4 ps	15 μJ @ 1000 kHz
FEMTO 1030-25-Yb-2500	25 W	60 MW	up to 2500 kHz	< 1.5	500 fs – 4 ps	25 μJ @ 1000 kHz
Tm:Glass						
FEMTO 1950-8-T-2500	8 W	8 MW	up to 2500 kHz	< 1.5	500 fs +/- 100 fs	4 μJ @ 2000 kHz
FEMTO 1950-8-T-2500-LP (Long Pulse)	8 W	1 MW	up to 2500 kHz	< 1.5	4 ps +/- 1 ps	4 μJ @ 2000 kHz



blizz*
High Power Q-Switched Lasers

- * 40 W
- * TEM₀₀
- * 48 VDC OEM Power Supply
- * Water Cooling

BLIZZ	Nominal Power	Peak Power	PRF, single shot	M ²	Pulse Width	Pulse Energy
Nd:YVO₄						
BLIZZ 532-40-V	40 W	> 66.6 kW @ 40 kHz	up to 400 kHz	< 1.4	< 15 ns @ 40 kHz	1000 μJ @ 40 kHz
BLIZZ 532-30-V	30 W	> 37.5 kW @ 40 kHz	up to 400 kHz	< 1.4	< 20 ns @ 40 kHz	750 μJ @ 40 kHz
BLIZZ 532-25-V-300	25 W	> 0.8 kW @ 300 kHz	up to 400 kHz	< 1.4	< 100 ns @ 300 kHz	83 μJ @ 300 kHz



blizz air*
High Power Air-Cooled Q-Switched Lasers

- * 30 W
- * TEM₀₀
- * 48 VDC OEM Power Supply
- * Air Cooling

BLIZZ AIR	Nominal Power	Peak Power	PRF, single shot	M ²	Pulse Width	Pulse Energy
Nd:YVO₄						
BLIZZ AIR 532-25-V	25 W	> 31 kW @ 40 kHz	up to 300 kHz	< 1.3	< 20 ns @ 40 kHz	625 μJ @ 40 kHz
BLIZZ AIR 1064-30-V	30 W	> 7.5 kW @ 100 kHz	up to 300 kHz	< 1.2	< 40 ns @ 100 kHz	300 μJ @ 100 kHz



nanio series*

Q-Switched Lasers

- * Up to 23 W
- * TEM₀₀
- * 19" OEM Power Supply
- * Water Cooling

NANIO	Nominal Power	Peak Power	PRF, single shot	M ²	Pulse Width	Pulse Energy
Nd:YAG						
NANIO 532-18-Y	18 W	45 kW @ 10 kHz	up to 100 kHz	< 1.3	40 ns @ 10 kHz	1800 µJ @ 10 kHz
NANIO 1064-20-Y	18 W	45 kW @ 10 kHz	up to 50 kHz	< 1.2	40 ns @ 10 kHz	1800 µJ @ 10 kHz
Nd:YVO₄						
NANIO 355-8-V-60	8 W	5.3 kW @ 60 kHz	up to 300 kHz	< 1.4	25 ns @ 60 kHz	133 µJ @ 60 kHz
NANIO 355-6-V 80	6 W	2.1 kW @ 80 kHz	up to 300 kHz	< 1.3	35 ns @ 80 kHz	75 µJ @ 80 kHz
NANIO 355-3-V-150	3 W	0.57 kW @ 150 kHz	up to 300 kHz	< 1.3	35 ns @ 150 kHz	20 µJ @ 150 kHz
NANIO 355-3-V	3 W	2.1 kW @ 40 kHz	up to 300 kHz	< 1.3	35 ns @ 40 kHz	75 µJ @ 40 kHz
NANIO 355-1-V-400	1 W	0.04 kW @ 400 kHz	up to 500 kHz	< 1.4	60 ns @ 400 kHz	2.5 µJ @ 400 kHz
Nd:YVO₄						
NANIO 532-20-V	20 W	25 kW @ 40 kHz	up to 500 kHz	< 1.3	20 ns @ 40 kHz	500 µJ @ 40 kHz
NANIO 532-20-V-100	20 W	5 kW @ 100 kHz	up to 500 kHz	< 1.4	40 ns @ 100 kHz	200 µJ @ 100 kHz
NANIO 532-10-V-SP	10 W	12.5 kW @ 40 kHz	up to 300 kHz	< 1.2	20 ns @ 40 kHz	250 µJ @ 40 kHz
NANIO 532-10-V	10 W	8.3 kW @ 40 kHz	up to 300 kHz	< 1.2	30 ns @ 40 kHz	250 µJ @ 40 kHz
NANIO 532-10-V-20	10 W	50 kW @ 20 kHz	up to 300 kHz	< 1.2	10 ns @ 20 kHz	500 µJ @ 20 kHz
NANIO 1064-25-V	23 W	11.5 kW @ 50 kHz	up to 300 kHz	< 1.2	40 ns @ 50 kHz	460 µJ @ 50 kHz
NANIO 1064-20-V-20	20 W	100 kW @ 20 kHz	up to 60 kHz	< 1.2	10 ns @ 20 kHz	1000 µJ @ 20 kHz
NANIO 1064-16-V	14 W	6.2 kW @ 50 kHz	up to 300 kHz	< 1.2	45 ns @ 50 kHz	280 µJ @ 50 kHz
NANIO 1064-16-V-LP	15 W	3 kW @ 50 kHz	up to 150 kHz	< 1.2	100 ns @ 50 kHz	300 µJ @ 50 kHz
NANIO 1342-8-V	8 W	5 kW @ 20 kHz	up to 50 kHz	< 1.2	80 ns @ 20 kHz	400 µJ @ 20 kHz



nanio air*

Air-Cooled Q-Switched Lasers

- * Up to 16 W
- * TEM₀₀
- * 24 VDC OEM Power Supply
- * Air Cooling

NANIO AIR	Nominal Power	Peak Power	PRF, single shot	M ²	Pulse Width	Pulse Energy
Nd:YAG						
NANIO AIR 532-4-Y-50	4 W	8 kW @ 10 kHz	up to 100 kHz	< 1.2	50 ns @ 10 kHz	400 µJ @ 10 kHz
NANIO AIR 1064-7-Y-30	7 W	20 kW @ 10 kHz	up to 100 kHz	< 1.15	35 ns @ 10 kHz	700 µJ @ 10 kHz
NANIO AIR 1064-7-Y-50	7 W	14 kW @ 10 kHz	up to 100 kHz	< 1.15	50 ns @ 10 kHz	700 µJ @ 10 kHz
NANIO AIR 1064-7-Y-70	7 W	7 kW @ 10 kHz	up to 100 kHz	< 1.15	100 ns @ 10 kHz	700 µJ @ 10 kHz
NANIO AIR 1064-7-Y-100	7 W	6 kW @ 10 kHz	up to 100 kHz	< 1.15	100 ns @ 10 kHz	700 µJ @ 10 kHz
Nd:YVO₄						
NANIO AIR 355-5-V	5 W	6.2 kW @ 40 kHz	up to 300 kHz	< 1.3	20 ns @ 40 kHz	125 µJ @ 40 kHz
NANIO AIR 355-3-V	3 W	2.1 kW @ 40 kHz	up to 300 kHz	< 1.3	35 ns @ 300 kHz	75 µJ @ 40 kHz
NANIO AIR 532-10-V	10 W	8.3 kW @ 40 kHz	up to 300 kHz	< 1.2	30 ns @ 40 kHz	250 µJ @ 40 kHz
NANIO AIR 532-10-V-SP	10 W	12.5 kW @ 40 kHz	up to 300 kHz	< 1.2	20 ns @ 40 kHz	250 µJ @ 40 kHz
NANIO AIR 1064-16-V	14 W	6.2 kW @ 50 kHz	up to 300 kHz	< 1.2	45 ns @ 40 kHz	280 µJ @ 50 kHz
NANIO AIR 1342-4-V	4 W	0.6 kW @ 40 kHz	up to 100 kHz	< 1.2	150 ns @ 40 kHz	100 µJ @ 40 kHz

Product Overview



mosquito*X
Miniature Q-Switched Lasers

- * Up to 6 W
- * TEM₀₀
- * 24 VDC OEM Power Supply
- * Contact Cooling

MOSQUITOO X	Nominal Power	Peak Power	PRF, single shot	M ²	Pulse Width	Pulse Energy
Nd:YAG						
mosquito X 355-0.3-Y	0.3 W	2.3 kW @ 10 kHz	up to 100 kHz	< 1.3	13 ns @ 10 kHz	30 µJ @ 10 kHz
mosquito X 532-2-Y	2 W	13.3 kW @ 10 kHz	up to 100 kHz	< 1.3	15 ns @ 10 kHz	200 µJ @ 10 kHz
Nd:YVO₄						
mosquito X 355-1-V	1 W	1.6 kW @ 50 kHz	up to 200 kHz	< 1.3	12 ns @ 50 kHz	20 µJ @ 50 kHz
mosquito X 355-0.3-V	0.3 W	0.6 kW @ 50 kHz	up to 200 kHz	< 1.3	10 ns @ 50 kHz	6 µJ @ 50 kHz
mosquito X 532-5-V	5 W	8.3 kW @ 50 kHz	up to 200 kHz	< 1.3	12 ns @ 50 kHz	100 µJ @ 50 kHz
mosquito X 532-2-V	2 W	3.3 kW @ 50 kHz	up to 200 kHz	< 1.3	12 ns @ 50 kHz	40 µJ @ 50 kHz
mosquito X 1064-6-V	6 W	7.6 kW @ 50 kHz	up to 200 kHz	< 1.2	13 ns @ 50 kHz	100 µJ @ 50 kHz
mosquito X 1064-3-V	3 W	3.8 kW @ 50 kHz	up to 200 kHz	< 1.2	13 ns @ 50 kHz	50 µJ @ 50 kHz



nano direct diode*
Turn-key Systems

- * Up to 100 W
- * 400 µm Fiber
- * 19" OEM Unit
- * Air Cooling

NANIO DIRECT DIODE	Nominal Power	Peak Power	PRF, single shot	NA	Pulse Width	Pulse Energy
Diode						
NANIO 810-100-400	100 W	n. a.	cw/modulated cw	<0.17	rise/fall time < 10 µs	n. a.
NANIO 810-80-400	80 W	n. a.	cw/modulated cw	<0.17	rise/fall time < 10 µs	n. a.
NANIO 810-50-400	50 W	n. a.	cw/modulated cw	<0.17	rise/fall time < 10 µs	n. a.

Option Overview

Options	FEMTO	BLIZZ	BLIZZ AIR	NANIO	NANIO AIR	mosquito X	Nanio Direct Diode
Power Supply OEM 24 VDC	-	-	-	-	●	●	-
Power Supply OEM 48 VDC	-	●	●	-	-	-	-
Power Supply 19" Rackmount	-	○	○	●	○	○	●
Power Supply Integrated in Laser Head	●	-	-	-	-	-	-
Conduction Cooling	-	-	-	-	-	●	-
Air Cooling	-	-	●	-	●	○	●
Water Cooling	●	●	-	●	○	○	-
Water Connectors 90 deg.	○	○	-	○	○	○	-
Active Air Purification System [355 nm]	-	-	-	●	●	●	-
Pulse Picker AOM	●	-	-	○	-	-	-
CPEM+ Constant Pulse Energy Mode	○	○	○	○	○	-	-
SPX Smart Pulse Technology	●	-	-	○	-	-	-
Remote Service	●	●	●	●	●	●	●
Customized Umbilical Length [m]	-	1 - 10	1 - 10	1 - 20	1 - 10	1 - 10	-
Umbilical Connectors 45 deg.	-	○	○	-	○	○	-
Beam Expander Box	○	○	○	○	○	○	-
Variable Attenuator Box (manual)	-	○	○	○	○	○	-
Safety Shutter & Electronics	-	-	-	○	-	-	-
Multi Mode Fiber Delivery	-	-	-	-	-	○	●
Fiber Collimator	-	-	-	-	-	○	○
Processing Head	-	-	-	-	-	-	-
Vision System	-	-	-	-	-	-	-

Standard Equipment

Optional

Not Available

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