

Product Overview



Think of **LASER** as a tool

InnoLas
Photonics

PRODUCT OVERVIEW



FEMTO*

Ultra Short Pulse Lasers

FEMTO	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Yb:Glass						
FEMTO 515-15-Yb-2500	515 nm	15 W	30 MW	TEM ₀₀ , M ² < 1.5	500 fs – 4 ps	15 μJ @ 1000 kHz
FEMTO 1030-25-Yb-2500	1030 nm	25 W	60 MW	TEM ₀₀ , M ² < 1.5	500 fs – 4 ps	25 μJ @ 1000 kHz
Tm:Glass						
FEMTO 1950-8-T-2500	1950 nm	8 W	8 MW	TEM ₀₀ , M ² < 1.5	500 fs +/- 100 fs	4 μJ @ 2000 kHz
FEMTO 1950-8-T-2500-LP (Long Pulse)	1950 nm	8 W	1 MW	TEM ₀₀ , M ² < 1.5	4 ps +/- 1 ps	4 μJ @ 2000 kHz



blizz*

High Power Q-Switched Lasers

BLIZZ	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Nd:YVO₄						
BLIZZ 532-40-V	532 nm	40 W	66.6 kW @ 40 kHz	TEM ₀₀ , M ² < 1.4	< 15 ns @ 40 kHz	1000 μJ @ 40 kHz
BLIZZ 532-30-V	532 nm	30 W	37.5 kW @ 40 kHz	TEM ₀₀ , M ² < 1.4	< 20 ns @ 40 kHz	750 μJ @ 40 kHz
BLIZZ 532-25-V-300	532 nm	25 W	0.8 kW @ 300 kHz	TEM ₀₀ , M ² < 1.4	< 100 ns @ 300 kHz	83 μJ @ 300 kHz
BLIZZ 1064-30-V	1064 nm	30 W	12.5 kW @ 80 kHz	TEM ₀₀ , M ² < 1.2	< 30 ns @ 80 kHz	375 μJ @ 300 kHz
BLIZZ 1342-8-V	1342 nm	8 W	1.1 kW @ 80 kHz	TEM ₀₀ , M ² < 1.4	< 90 ns @ 80 kHz	100 μJ @ 300 kHz



blizz air*

High Power Air-Cooled Q-Switched Lasers

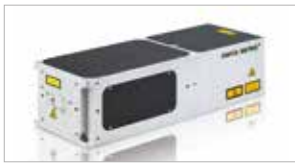
BLIZZ AIR	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Nd:YVO₄						
BLIZZ AIR 532-25-V	532 nm	25 W	31 kW @ 40 kHz	TEM ₀₀ , M ² < 1.3	< 20 ns @ 40 kHz	625 μJ @ 40 kHz
BLIZZ AIR 1064-30-V	1064 nm	30 W	7.5 kW @ 100 kHz	TEM ₀₀ , M ² < 1.2	< 40 ns @ 100 kHz	300 μJ @ 100 kHz



CORE*

All-in-One Q-Switched Lasers

CORE	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Nd:YVO₄						
CORE 355-6-V	355 nm	6 W	10 kW @ 40 kHz	TEM ₀₀ , M ² < 1.2	< 15 ns	150 μJ @ 40 kHz
CORE 532-14-V	532 nm	14 W	9.3 kW @ 60 kHz	TEM ₀₀ , M ² < 1.2	< 25 ns	233 μJ @ 60 kHz
CORE 1064-15-V	1064 nm	15 W	12.5 kW @ 40 kHz	TEM ₀₀ , M ² < 1.2	< 30 ns	375 μJ @ 40 kHz



nanio series*

Q-Switched Lasers

NANIO	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Nd:YAG						
NANIO 532-18-Y	532 nm	18 W	45 kW @ 10 kHz	TEM ₀₀ , M ² < 1.3	40 ns @ 10 kHz	1800 μJ @ 10 kHz
NANIO 1064-20-Y	1064 nm	18 W	45 kW @ 10 kHz	TEM ₀₀ , M ² < 1.2	40 ns @ 10 kHz	1800 μJ @ 10 kHz
Nd:YVO₄						
NANIO 355-8-V-60	355 nm	8 W	5.3 kW @ 60 kHz	TEM ₀₀ , M ² < 1.4	25 ns @ 60 kHz	133 μJ @ 60 kHz
NANIO 355-6-V 80	355 nm	6 W	2.1 kW @ 80 kHz	TEM ₀₀ , M ² < 1.3	35 ns @ 80 kHz	75 μJ @ 80 kHz
NANIO 355-3-V-150	355 nm	3 W	0.57 kW @ 150 kHz	TEM ₀₀ , M ² < 1.3	35 ns @ 150 kHz	20 μJ @ 150 kHz
NANIO 355-3-V	355 nm	3 W	2.1 kW @ 40 kHz	TEM ₀₀ , M ² < 1.3	35 ns @ 40 kHz	75 μJ @ 40 kHz
NANIO 355-1-V-400	355 nm	1 W	0.04 kW @ 400 kHz	TEM ₀₀ , M ² < 1.4	60 ns @ 400 kHz	2.5 μJ @ 400 kHz
Nd:YVO₄						
NANIO 532-20-V	532 nm	20 W	25 kW @ 40 kHz	TEM ₀₀ , M ² < 1.3	20 ns @ 40 kHz	500 μJ @ 40 kHz
NANIO 532-20-V-100	532 nm	20 W	5 kW @ 100 kHz	TEM ₀₀ , M ² < 1.4	40 ns @ 100 kHz	200 μJ @ 100 kHz
NANIO 532-10-V-SP	532 nm	10 W	12.5 kW @ 40 kHz	TEM ₀₀ , M ² < 1.2	20 ns @ 40 kHz	250 μJ @ 40 kHz
NANIO 532-10-V	532 nm	10 W	8.3 kW @ 40 kHz	TEM ₀₀ , M ² < 1.2	30 ns @ 40 kHz	250 μJ @ 40 kHz
NANIO 532-10-V-20	532 nm	10 W	50 kW @ 20 kHz	TEM ₀₀ , M ² < 1.2	10 ns @ 20 kHz	500 μJ @ 20 kHz
NANIO 1064-25-V	1064 nm	23 W	11.5 kW @ 50 kHz	TEM ₀₀ , M ² < 1.2	40 ns @ 50 kHz	460 μJ @ 50 kHz
NANIO 1064-20-V-20	1064 nm	20 W	100 kW @ 20 kHz	TEM ₀₀ , M ² < 1.2	10 ns @ 20 kHz	1000 μJ @ 20 kHz
NANIO 1064-16-V	1064 nm	14 W	6.2 kW @ 50 kHz	TEM ₀₀ , M ² < 1.2	45 ns @ 50 kHz	280 μJ @ 50 kHz
NANIO 1064-16-V-LP	1064 nm	15 W	3 kW @ 50 kHz	TEM ₀₀ , M ² < 1.2	100 ns @ 50 kHz	300 μJ @ 50 kHz
NANIO 1342-8-V	1342 nm	8 W	5 kW @ 20 kHz	TEM ₀₀ , M ² < 1.2	80 ns @ 20 kHz	400 μJ @ 20 kHz



nanio air*
Air-Cooled Q-Switched Lasers

NANIO AIR	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Nd:YAG						
NANIO AIR 532-4-Y-50	532 nm	4 W	8 kW @ 10 kHz	TEM _{00'} , M ² < 1.2	50 ns @ 10 kHz	400 µJ @ 10 kHz
NANIO AIR 1064-7-Y-30	1064 nm	7 W	20 kW @ 10 kHz	TEM _{00'} , M ² < 1.15	35 ns @ 10 kHz	700 µJ @ 10 kHz
NANIO AIR 1064-7-Y-50	1064 nm	7 W	14 kW @ 10 kHz	TEM _{00'} , M ² < 1.15	50 ns @ 10 kHz	700 µJ @ 10 kHz
NANIO AIR 1064-7-Y-70	1064 nm	7 W	7 kW @ 10 kHz	TEM _{00'} , M ² < 1.15	100 ns @ 10 kHz	700 µJ @ 10 kHz
NANIO AIR 1064-7-Y-100	1064 nm	7 W	6 kW @ 10 kHz	TEM _{00'} , M ² < 1.15	100 ns @ 10 kHz	700 µJ @ 10 kHz
Nd:YVO₄						
NANIO AIR 355-5-V	355 nm	5 W	6.2 kW @ 40 kHz	TEM _{00'} , M ² < 1.3	20 ns @ 40 kHz	125 µJ @ 40 kHz
NANIO AIR 355-3-V	355 nm	3 W	2.1 kW @ 40 kHz	TEM _{00'} , M ² < 1.3	35 ns @ 300 kHz	75 µJ @ 40 kHz
NANIO AIR 532-10-V	532 nm	10 W	8.3 kW @ 40 kHz	TEM _{00'} , M ² < 1.2	30 ns @ 40 kHz	250 µJ @ 40 kHz
NANIO AIR 532-10-V-SP	532 nm	10 W	12.5 kW @ 40 kHz	TEM _{00'} , M ² < 1.2	20 ns @ 40 kHz	250 µJ @ 40 kHz
NANIO AIR 1064-16-V	1064 nm	14 W	6.2 kW @ 50 kHz	TEM _{00'} , M ² < 1.2	45 ns @ 40 kHz	280 µJ @ 50 kHz
NANIO AIR 1342-4-V	1342 nm	4 W	0.6 kW @ 40 kHz	TEM _{00'} , M ² < 1.2	150 ns @ 40 kHz	100 µJ @ 40 kHz



mosquito*X
Miniature Q-Switched Lasers

MOSQUITOO X	Wavelength	Nominal Power	Peak Power	Mode	Pulse Width	Pulse Energy
Nd:YAG						
mosquitoo X 355-0.3-Y	355 nm	0.3 W	2.3 kW @ 10 kHz	TEM _{00'} , M ² < 1.3	13 ns @ 10 kHz	30 µJ @ 10 kHz
mosquitoo X 532-2-Y	532 nm	2 W	13.3 kW @ 10 kHz	TEM _{00'} , M ² < 1.3	15 ns @ 10 kHz	200 µJ @ 10 kHz
Nd:YVO₄						
mosquitoo X 355-1-V	355 nm	1 W	1.6 kW @ 50 kHz	TEM _{00'} , M ² < 1.3	12 ns @ 50 kHz	20 µJ @ 50 kHz
mosquitoo X 355-0.3-V	355 nm	0.3 W	0.6 kW @ 50 kHz	TEM _{00'} , M ² < 1.3	10 ns @ 50 kHz	6 µJ @ 50 kHz
mosquitoo X 532-5-V	532 nm	5 W	8.3 kW @ 50 kHz	TEM _{00'} , M ² < 1.3	12 ns @ 50 kHz	100 µJ @ 50 kHz
mosquitoo X 532-2-V	532 nm	2 W	3.3 kW @ 50 kHz	TEM _{00'} , M ² < 1.3	12 ns @ 50 kHz	40 µJ @ 50 kHz
mosquitoo X 1064-6-V	1064 nm	6 W	7.6 kW @ 50 kHz	TEM _{00'} , M ² < 1.2	13 ns @ 50 kHz	100 µJ @ 50 kHz
mosquitoo X 1064-3-V	1064 nm	3 W	3.8 kW @ 50 kHz	TEM _{00'} , M ² < 1.2	13 ns @ 50 kHz	50 µJ @ 50 kHz

Option Overview

Options	FEMTO	BLIZZ	BLIZZ AIR	CORE	NANIO	NANIO AIR	mosquito X
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	○	○	○	○	○	○	○
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)	-	○	○	○	○	○	○
Variable Attenuator Box (motorized)	-	○	○	○	○	○	○
Power Meter	-	○	○	○	○	○	○
Safety Shutter & Electronics	-	-	-	-	○	-	-
Multi Mode Fiber Delivery	-	-	-	-	-	-	○
Fiber Collimator	-	-	-	-	-	-	○

Standard Equipment

●

Optional

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Not Available

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