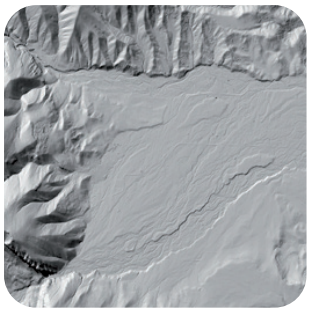
Wedge

Short Pulse Q-Switched DPSS Laser



Features

Up to 4 mJ Pulse Energy

4 MW Peak Power

400 ps to 2,5 ns Pulsewidth

Single Shot to 100 kHz

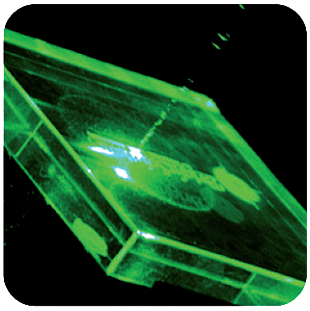
@1570 @1064 @532 @355 @266nm

MOPA configurations

Monolithic Design

Air Cooling

Low heat waste



Applications

Micromachining of glass

Specialty marking

Thin film removal

LIDAR and Bathymetry

Non-linear spectroscopy

Harmonic and parametric generation

Visible to IR OPO pumping

TeraHertz generation

M SQUARE

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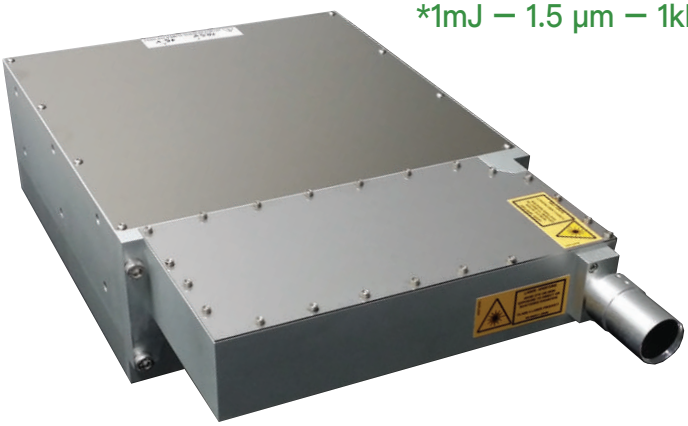
*IP 68 MOPA configuration

In the following table the main features of standard Wedge models are presented; for a complete description of laser performances at 1570, 1064, 532, 355, 266 nm please refer to product datasheets.

1064nm Wedge models	High energy		Sub–ns	
	Wedge HB	Wedge XB	Wedge HF	Wedge XF
Max Pulse Energy	2 mJ	4 mJ	180 µJ	70 µJ
Repetition rate	Single Shot to 2 kHz	Single Shot to 1 kHz	10 kHz to 100 kHz (option: down to single shot, up to 200 kHz)	
Harmonics / Wavelength conversion	1570 nm – 532 nm – 355 nm – 266 nm			
Pulsewidth	< 1.5 ns		down to 700 ps	down to 400 ps
Peak Power	up to 2 MW	up to 4 MW	up to 250 kW	up to 175 kW
Polarization	Linear 100 : 1 (option circular polarization)			
Beam quality (M^2)	< 3.5	< 5	< 1.5	< 1.3
Cooling	Air–cooled (option: water cooling and contact cooling)			
DC Voltage IN	Dual 8 V – 15 V	Dual 12 V – 15 V	24 V	
Overall mechanical dimensions	26 x 22 x 8 cm^3 (10 x 9 x 3 in^3)	26 x 25 x 10 cm^3 (10 x 10 x 4 in^3)	19 x 10 x 8 cm^3 (7 x 4 x 3 in^3)	
Weight	< 10 kg (< 22 lbs)	< 12 kg (< 27 lbs)	< 2.5 kg (< 5.5 lbs)	



*1mJ – 1.5 µm – 1kHz Eye–safe

OPTIONS AVAILABLE:

Beam expanding and collimating optics
Fiber coupling
Low jitter option
Extended operating temperature range
Pulse energy modulation
up to IP68 Package
28 V DC Input for airborne installation
Circular polarization
Monitoring photodiode
Red aiming beam
Remote control cbox and software interface
AC–DC power supply

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