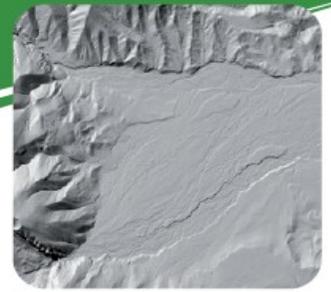


# Wedge

## Short Pulse Q-Switched DPSS Laser



### Features

Up to 4 mJ Pulse Energy

4 MW Peak Power

400 ps to 3 ns Pulsewidth

Single Shot to 100 kHz

@1064 @1570 @532 @355 @266nm

MOPA configurations

Monolithic Design

Air Cooling

Low heat waste



### Applications

Micromachining of glass

Specialty marking

Thin film removal

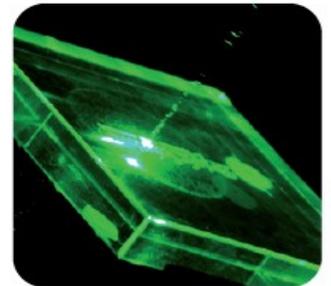
LIDAR and Bathymetry

Non-linear spectroscopy

Harmonic and parametric generation

Visible to IR OPO pumping

TeraHertz generation



# Wedge

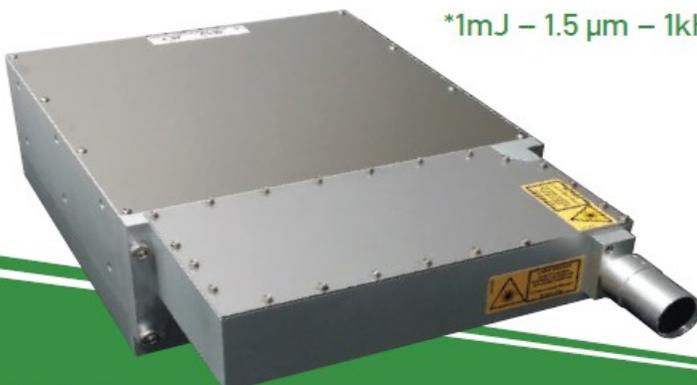
## Short Pulse Q-Switched DPSS Laser

\*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 1064, 1570, 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	2mJ	4 mJ	180 $\mu$ J	70 $\mu$ J
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	532 nm – 355 nm – 266 nm 1.5 $\mu$ m			
Pulsewidth	< 1.5 ns		down to 600 ps	down to 400 ps
Peak Power	up to 2 MW	up to 4 MW	up to 250 kW	up to 100 kW
Polarization	Linear 100 : 1 (option circular polarization)			
Beam quality ( $M^2$ )	< 3.5	< 5	< 1.5	
Cooling	Air-cooled (option: water cooling and contact cooling)			
DC Voltage IN	Dual 8V - 15V	Dual 12V - 15V	24V	
Overall mechanical dimensions	26 x 22 x 8 cm <sup>3</sup> (10 x 9 x 3 in <sup>3</sup> )	26 x 25 x 10 cm <sup>3</sup> (10 x 10 x 4 in <sup>3</sup> )	19 x 10 x 8 cm <sup>3</sup> (7 x 4 x 3 in <sup>3</sup> )	
Weight	< 10 kg (< 22 lbs)	< 12 kg (< 27 lbs)	< 2.5 kg (< 5.5 lbs)	



\*1mJ – 1.5  $\mu$ m – 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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