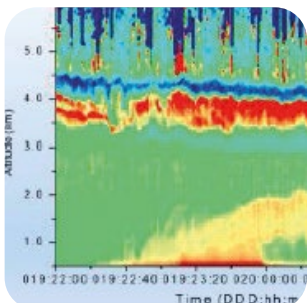


# One DPSS

Miniaturized Q-switched and CW laser



## Applications

- Plastic marking
- Material processing
- ID card
- Portable LIDAR
- Remote sensing
- Altimetry

## Features

- 1  $\mu\text{m}$
- Down to 3 ns
- CW mode or Single Shot to 30 kHz
- Up to 200  $\mu\text{J}$
- $M^2 < 1.5$
- Miniaturized design

### OPTIONS AVAILABLE:

- Internal photodiode
- Beam Expanding and Collimating optics
- Red aiming beam
- Heat-Sink
- AC DC Power Supply
- Custom packaging

# One DPSS

## Miniaturized Q-switched and CW laser

One is an example of how compact our lasers can be!

A nanosecond pulsed Q-Switched DPSS (also configurable in CW mode) laser source with up to 200  $\mu$ J pulse energy is integrated in a very small and lightweight contact-cooled package; this unique laser solution is currently used in very compact marking systems and in portable instrumentation.

The ns pulsewidth and 3W average power provide enough peak power to mark metals and plastics with extremely high quality, e.g. for gray-scale images, and to build LIDAR systems for atmospheric monitoring, altimetry and 3D mapping.

	Microlaser models		
	Pulsed		CW
Pulsewidth ranges	< 5 ns	5 to 20 ns	Continuous mode
Pulse energy/Average power	up to 200 $\mu$ J <small>(greater energy is available as a custom option)</small>	up to 100 $\mu$ J	up to 4 W
Repetition rate	up to 5 kHz <small>(external triggered)</small>	10 to 30 kHz <small>(external triggered)</small>	-
Available wavelengths	1030, 1047, 1064 nm		
Beam Quality ( $M^2$ )	< 1.5		
Electrical requirements	15 V DC IN		
Operating temperature	10 to 40 °C		
Cooling	Conductive <small>(Optional: heatsink)</small>		
MAX Power consumption	< 30 W		
Overall mechanical dimensions	13 x 7 x 4 cm <sup>3</sup> [ 5 x 3 x 2 in <sup>3</sup> ]		
Total weight	0.5 kg [ 1.1 lbs ]		