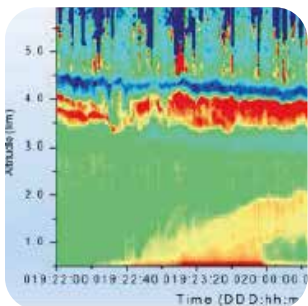


# One DPSS

Miniaturized Q-switched laser



## Applications

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

## Features

- > 3W average power
- up to 100uJ pulse energy
- Up to 30 kHz
- < 0.5 kg
- contact cooled

### 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 laser

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

A nanosecond pulsed Q-Switched DPSS laser source with 100  $\mu\text{J}$  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 the  $> 3\text{W}$  average power allow to get enough peak power to mark plastics with extremely high quality, e.g. for gray-scale images and for realizing LIDAR systems for atmospheric monitoring.

	One 3W	One 100uJ
Primary wavelength	1 $\mu\text{m}$	
Pulse Energy	100 $\mu\text{J}$	up to 100 $\mu\text{J}$
Q-Switch Rep. Rate	between 20 and 30 kHz (fixed value factory set)	up to 10 kHz (fixed value factory set)
Pulsewidth	10 to 20 ns	10 to 20 ns optional: < 5 ns
Polarization	Linear 100:1	
Beam quality ( $M^2$ )	< 1.5	
Cooling	Contact	
DC IN Voltage	15 V	
MAX Power consumption	< 30 W	
Overall mechanical dimensions	13 x 7 x 4 $\text{cm}^3$ [ 5 x 3 x 2 $\text{in}^3$ ]	
Total weight	0.5 kg [ 1.1 lbs ]	