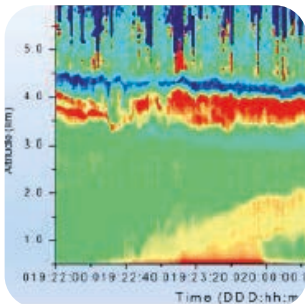


# One DPSS

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 400  $\mu\text{J}$   
 $M^2 < 1.3$   
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 400  $\mu\text{J}$  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 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 400 $\mu\text{J}$	up to 100 $\mu\text{J}$	up to 4 W
Repetition rate	up to 10 kHz (external trigger)	10 to 30 kHz (external gate)	-
Available wavelengths	1030, 1064, 515, 532 nm		
Beam Quality ( $M^2$ )	< 1.3		
Electrical requirements	15 V DC IN		
Operating temperature	10 to 40 °C		
Cooling	Conductive (Optional: heatsink)		