

# Diode Pumped Q-switched Solid State Laser

Ultra-compact    High efficiency    High reliability    High stability

**CrystaLaser** designs and manufactures the most compact, active Q-switched, ultra-compact diode-pumped Nd:YAG, Nd:YVO4 and Nd:YLF crystal lasers. The lasers feature with ultra-compact, high efficiency, high reliability, high stability, and excellent laser beam quality.

CrystaLaser's Q-switched laser can be controlled by external TTL signal to trig the laser from single pulse up to 500 kHz trig rep rate. The laser pulse energy ranges from 1 micro-J up to 1 mJ, wavelength from 262 nm up to 1550 nm, output power from 5 mW up to 5W, laser pulse width from 5 ns to 200 ns. The pulse jitter of the Q-switched laser is only +/-2.5 ns.

## Why people select Q-switched laser from CrystaLaser?

1. The most compact active Q-switched lasers.
2. The lasers provide quite high output power and energy for most applications.
3. The wall plug efficiency is 3X higher than other competitions' products in this global. So the heat, weight, and beam pointing stability, power stability will be not a big problem for some special applications. The laser can be easily battery powered, handheld, portable instruments require CrystaLaser.
4. Quantity products are proved reliability through the major semiconductor industrial customers.
5. Special robust design for field, ocean, air, and space applications. The lasers are proved and are using in desert, in Tropical Ocean and in the North Pole and in airplanes.

## What should I put in the order of the specifications beside the model number?

When you order the compact Q-switched laser from us, you do not need to list all the standard specifications, however, for best serve your requirements please provide your best estimated required following specifications.

1. Please estimate the preferred laser pulse repetition rate range of laser operation;
2. Laser pulse energy at certain rep rate or the rep rate range;
3. Laser pulse width at required rep rate range;
4. Laser wavelength range;
5. Other specifications that may be very important to the application requirements.

While our sales engineer and application engineers received more information from you, we can do better select the laser model number and optimization for the laser cavity design will be performed to customized and optimize the Q-switched lasers for your application and provide best performance laser which is most suitable for your specific applications.

## How can I get more information for the Q-switched lasers?

Please fill out the information request form from the web site [www.crystalaser.com](http://www.crystalaser.com); please can you describe your detail application requirements. CrystaLaser's application engineers can select the most suitable laser for your applications.

You may download the catalog which includes Q-switched laser specifications from [www.crystalaser.com/catalog.pdf](http://www.crystalaser.com/catalog.pdf)