



Sintec Optronics

Mar 2016 Issue

# SINTEC NEWSLETTER

Laser Expert in Singapore

<http://www.SintecOptronics.com>

**Quality of Excellence, presented by Sintec Optronics**

**Laser World of Photonics China 2016, in Shanghai (15-17 March)**



The largest laser exhibition in China is happening soon. LASER World of PHOTONICS CHINA gathers all the international and local market leaders from the industry, displays products from components to system solutions including all processes, addresses all important target groups and thus creates the best communication and business environment for both sides. A consistent orientation to business and practice and a comprehensive market overview. This is the perfect place to find solutions for your business. If you have any technical inquiry you can talk to our sales and product managers and gain immediate feedback! Come and meet us at our booth! **(Booth 4538 at Hall W4).**

## DPSS 1064nm, 532nm, 355nm lasers

Diode End-pumped lasers adopt full sealed-off design with small volume and low power consumption as well as fiber-coupled pumping, which is easily for the integration of system and equipment. The modularized design provides the convenience for changing by customers. The laser beam is TEM<sub>00</sub> with high beam quality, high peak power and short pulse width. Excellent resonator design can keep average laser power and pulsed peak power stable & constant. This laser can meet the requirements of most industrial precision processing. What's more, it is air cooled, the micro-optics design of key pumping source is the most advanced all over the world.

### Features

- Diode pumped air cooling technology - low power consumption
- Unique split type design
- Good beam quality: TEM<sub>00</sub> with  $M^2 \leq 1.2$ .
- Fiber coupled diode pumping with high pumping efficiency
- Long lifetime(>20,000 hrs).
- The laser is sealed and it is ante-dusty.
- High performance price ratio.

### Applications

End-pumped diode laser is suitable for marking on various materials, such as nylon, ABS, PVC, PES, steel, titanium, copper, plating materials, coating materials, sprayed materials, plastic, rubber, epoxy resin etc. Diode end-pumped laser has excellent applications in various fields, such as mobile phone, jewellery, crafts, scribing, film engraving, laser marking & engraving, resistance trimming, range finding, scientific research etc.



Comparison between End-Pumped Lasers and Other Lasers:

Machine Type	M2	Frequency(Hz)	Power consumption	Features
End-pumped (Air-cooling)	<1.2	<50k	<0.5kw	Long lifetime, Maintenance-free
Side-pumped (Water-cooling)	<3	<10k	<2.0kw	Change water per 3 months
Fiber laser (Air-cooling)	<1.5	20k~50k	<0.5kw	Long lifetime, high price
Lamp-pumped (Water-cooling)	<10	<10k	<5.0kw	Change lamp per 2000 hrs



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## **Laser 3-in-1 Drivers for Laser, Q-switch**

In a diode pumped Nd:YAG laser marker, a diode driver, a Q-switch driver and a DC power supply are needed. They are individual with large size and then the size of the laser marker is also large. It is not convenient to move the laser marker due to large size. We have developed a "3 in 1" laser power supply and the above power supplies are integrated into one unit with compact size.

### **Features:**

- \* Compact in size and light in weight.
- \* Modular design for convenient maintenance.
- \* Excellent performance.
- \* Portable for easy moving.

### **Specifications:**

Model: LDD-AAVV-RFxx-3in1

LDD-laser diode driver

AA-maximum output current (A). The output current is continuously adjustable.

VV-maximum output voltage (V). The output voltage is determined by current & diode's resistance.

RFxx-RF output power, xx is 50W or 75W.

3in1: 3in1 laser diode driver



## **Promotional items!**

We are currently overstocked on AO Q-switches, Q-switch drivers, laser lamps, CO2 focussing lens and CO2 f-theta lens, high power fiber cable, ceramic reflectors, Optical galvanometers that supports 12-30mm apertures, and galvo drivers. Inquire about our stock items now and receive large discount!

## **Price reduction over all our products!**

Our prices have also recently reduced over all our product range! Please inquire our sales for updated price lists !

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