



Sintec Optronics

May 2016 Issue

# SINTEC NEWSLETTER

Laser Expert in Singapore

<http://www.SintecOptronics.com>

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

### **Diffractive Optical Elements (DOE) \*NEW**

Our DOEs are being used for various applications mainly involving high precision and high power lasers. Our main customers are laser system integrators in industries such as medical/aesthetical, material processing, metrology and many more. A DOE uses thin micro structure patterns to alter the phase of the light propagated through it. Those micro-structure, once properly designed, can manipulate the light to almost any desired intensity profile or shape.

This technology enables many functions and light manipulations which are not feasible with standard refractive optics. In many applications those functions are very beneficial and significantly improve the system performance.

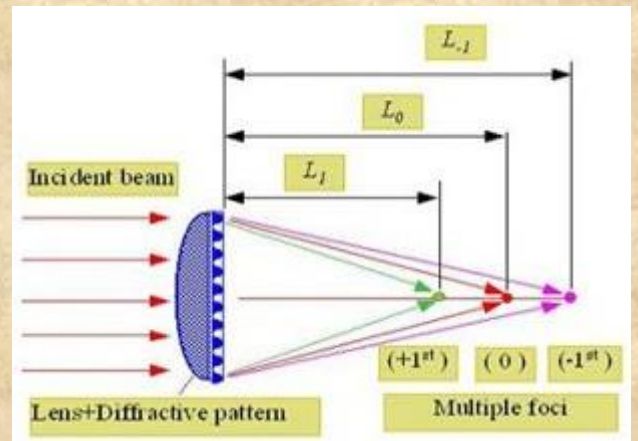
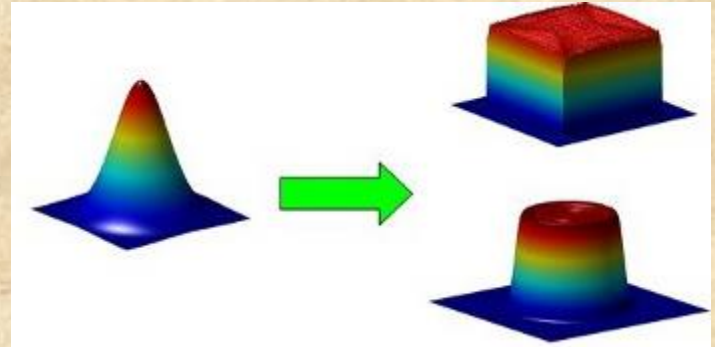
Our range of DOEs includes (but not limited to): beam splitters, beam shapers / top-hat, homogenizers/diffusers, multi-focal, beam samplers, vortex lenses, ring generator, dielectric mask and more.

Those elements can be designed for any wavelength, from UV to Mid IR.

Our DOEs are thin optical windows/lenses, easily installed in any system. In addition to individual elements, we can also design and assemble refractive-diffractive modules and sub-systems.

Diffractive optics solutions have many advantages such as high efficiency, high precision, small dimensions, low weight elements and most important, flexible solutions to meet variety of different applications' requirements.

**Inquire our DOE catalog to see how to shape your laser output !**



### **Laser Cleaning machine\*NEW**

We are now developing new machines to use lasers to clean different materials. Working very closely with local polytechnic to develop this, we will experiment with different laser parameters to enhance the quality of the cleaning. The focused laser beam quickly vaporizes the light-absorbing coatings and removes rust/oxides, oil grease and production residues. Since metals are highly reflective, once the contaminants are removed, the newly exposed metal will reflect most of the laser light, thus sustaining no damage to the metal! This is great for industrial, military, and shipyard – production intensive de-coating.



#### **Applications:**

- Rust-removal
- De coating
- Paint removal
- Labeling & Marking
- Micro-structuring on surfaces
- Mold cleaning and De-oiling
- Pre-treatment for adhesive bonding

**Inquire about our laser cleaning machines !**



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## **LSLC-10-DIGI series Scanhead**

Digi-Cube has been designed for easy OEM design integration and plug-and-play replacement for existing analogue scan heads with industry standard mechanical bolt patterns, industry standard power and communication pinouts as well as a range of popular apertures, mirror coatings and lenses. The Digi-Cube uses XY2-100 communication protocol as standard. Designed and manufactured in the UK, this digitally controlled scan head is even more affordable than German made scan heads, while maintaining the quality!

Key benefits:

- Intelligent, self tuning digital Laser Scan Head
- Fits easily into any new or existing production line
- Fast 'On the Fly' processing
- Simpler and faster set-up
- Made in the UK



## **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 !

## **Sintec Optronics Pte Ltd**

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