



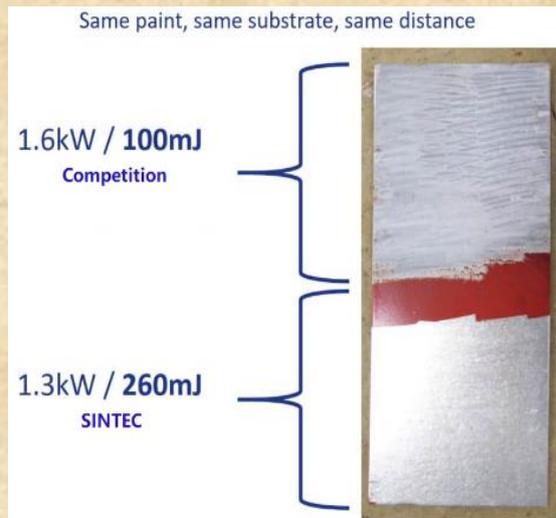
## Quality and Excellence, presented by Sintec Optronics

### \*NEW\* FASTEST HANDHELD LASER CLEANING SYSTEM

The rapid paint and coating removal system is a 1.6 kW Q-switched DPSS laser, fibre delivered to a robust galvanometer based ergonomic hand-held, compact scan head. With the proven reliability and high pulse energy, we offers state of the art universal control systems and simple synchronization that will deliver faster processing and unlock the highest potential of laser based paint, coating removal and surface preparation.

#### Applications

- Paint and Coating Removal
- Rust Removal
- Surface Activation
- Oxidation Removal
- Pre-Weld Preparation
- Surface Cleaning and Restoration
- Mold Cleaning



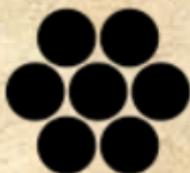
### \*NEW\* Diffractive Optical Elements (DOE) for fiber coupling

Diffractive beam splitters (Multispots) can be used for effective coupling of light from a laser into fiber bundles. Use of Multispots can uniformly distribute energy into channels of a fiber bundle, improving the coupling efficiency. HOLO/OR released new Multispot designs in hexagonal of 7, 19, and 37 spots.

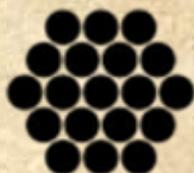
Typical applications of fiber bundles include:

- Spectroscopy
- Fluorescence microscopy
- Particle detection scanning
- Colorimetry
- Illumination

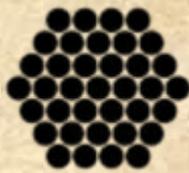
Relevant products: **Multispot, 2D hexagonal Multispot**



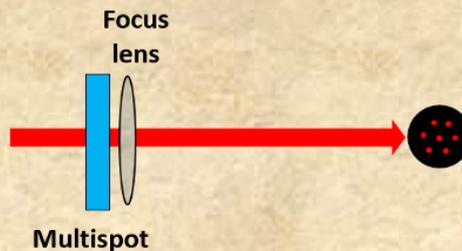
Bundle of 7



Bundle of 19



Bundle of 37



A typical setup would include a multispot and a lens



## \*NEW\* Ultrashort Pulsed Laser for multi-photon applications

The high-power Mode Locked Femtosecond Fiber Lasers operate at the 920 nm and 1190 nm spectral range - which is traditionally covered by ultrafast Ti:Sapphire lasers and optical parametric oscillators. They generate linearly polarized nearly transformed-limited pulses with a pulse duration of 200 fs, at a repetition rate of 80 MHz, and an average power of 1 W. Compact and maintenance-free, the lasers are fiber-based, have a very good beam profile, and do not require optical alignment.



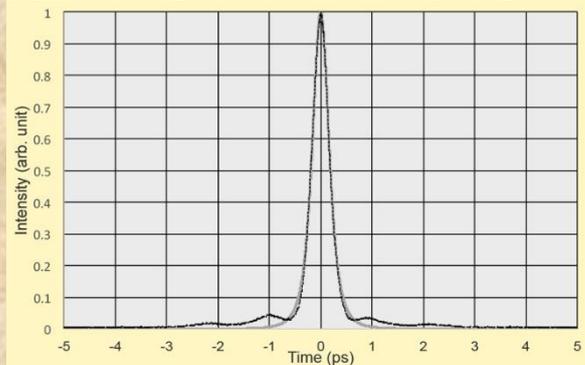
The 920 nm and 1190 nm are made up of two modules: 2RU pump module 440 x 343 x 92 (mm), and the Femtosecond Fiber Laser - 284 x 324 x 116 (mm).

### Features

- 920 nm and 1190 nm MLFL
- Emits sub 300-femtosecond optical pulses
- Repetition rate of 80 MHz or custom
- Average output power of 1 W @ 920 nm & @1190 nm

### Applications

- Multi-photon Microscopy
- Ultra-fast Spectroscopy
- Terahertz Imaging



Autocorrelation Trace and Lorentzian fit-  
TFWHM=190 fs

## \*NEW\* Wide scan field F-theta lenses

We offer fused silica lenses with high scan fields. The STS4LFT3250/328 which has a scan field of 160 x 160 mm<sup>2</sup> is a new innovation. A maximum input beam diameter of 15 mm is compatible to the lens, as well as a maximum beam diameter of 20 mm. The 20 mm diameter and the suitable scanner system reduce the scan field to 115 x 115 mm<sup>2</sup>. Because of the ghost free design it even works in combination with ultrashort pulsed IR lasers. There are also lenses for other wavelengths in the our catalogue with similar scan fields. Custom designs are the specialty because of their high flexibility and high vertical range of manufacture.



## \*NEW\* We have visited CLEO San Jose (14-18May) !

We have visited CLEO conference in San Jose! Nice to talk to all the optical manufacturers at the exhibition !



## Promotional items!

We are currently overstocked on items such as Q-switch drivers, laser lamps, CO2 focusing 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! Our LSLC-DIGI self-tuning scanheads are on offer too!

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