



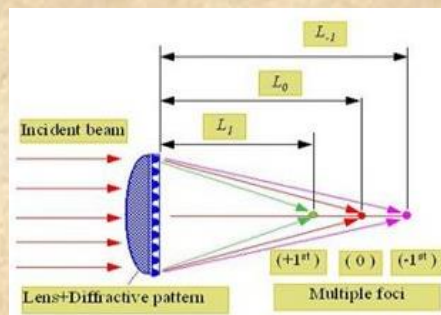
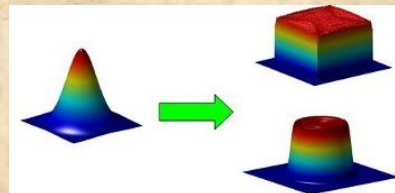
Quality and Excellence, presented by Sintec Optronics

NEW Diffractive Optical Elements 20% sale!

Our DOEs are being used for various applications mainly involving high precision and high power lasers. 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 !



We continue our annual tradition, applying up to 20% discount to orders placed before December 27th, for items available from stock (limited to 3 pieces per PN). Place an order now and take advantage of this amazing opportunity!

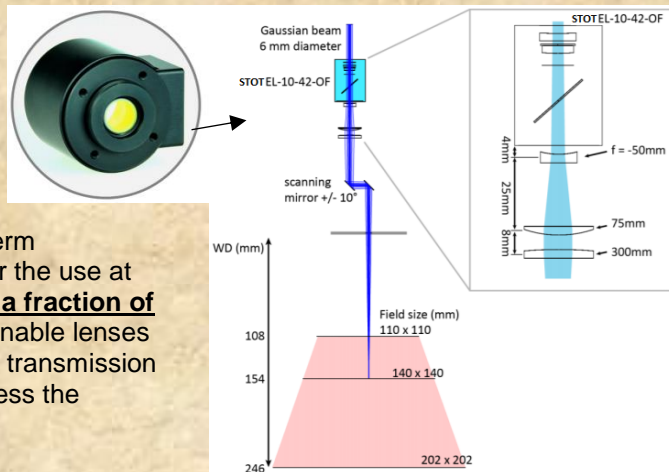
NEW integrated optical fiber cables for data center

Simplex/Duplex Patch Cord achieves multimode simplex or duplex connection. Applications: connection between or within frame, connection between frames and devices. Pre-terminated high-precision MPO/MTP patch cord can achieve multi-fibre connectivity. It also can be used for internal frame cabling. Applications: internal frame cabling, cabling from ZDA to EDA. Pre-terminated trunk cable is composed of small size OM3/OM4 optical cable, and 12-core MPO/MTP connectors. This type of plug-and-play pre-terminated cable can be quickly installed to achieve high performance, high density fibre connectivity. Applications: Infrastructure physical layer connection in data centre, LAN cabling backbone systems, backbone connectivity in building and campus. Breakout cable is used to split 12-core MTP connector terminated on trunk cable into simplex or duplex connectors. MPO/MTP connector is connected with trunk cable, while simplex or duplex connector on the other side can provide a different fan-out length which is convenient for device connection. For more information please see our [webpage](#) !



Electrically tunable lens

The electrically focus-tunable lens STOT-EL-10-42-OF is dedicated to 3D laser processing applications and sets the highest standards in terms of spot quality, speed and repeatability. With a focus tuning range of -2.0 to +2.0 diopters the spot can be controlled over a large range along the z-axis (working distance change of up to 180mm). Our proprietary built-in optical feedback mechanism allows for a long term repeatability of <0.02 diopters. The STOT-EL-10-42-OF is optimized for the use at 1064nm and 532nm. **This allows for 2.5D or 3D laser processing at a fraction of the cost of a conventional 3D scanhead solution!** Our electrically tunable lenses can be tailored to your specific demands in terms of size, tuning range, transmission range or speed. Tell us your requirements and we will be happy to assess the feasibility!



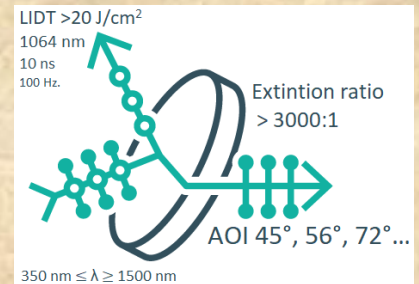


Custom coatings for Optics

Ion-Beam Sputtering (IBS) technology enables us to manufacture polarizers with extinction ratio higher than 3000:1 at 45 deg angle of incidence, while maintaining >20 J/cm² damage threshold (1064 nm, 10 ns, 100 Hz).

Our other capabilities include:

- Ultra high reflectivity dielectric mirrors.
- Mirrors for ultrafast laser systems.
- High damage threshold thin film polarizers.
- High contrast wavelength separators, beam splitters and filters.



STC-Spark series ultrafast laser and ultrafast OPOs

The STC-Spark-X provides up to 30 mW at **1280 nm** (with 40nm bandwidth) and is designed as a source for semiconductor failure analysis and material characterization applications. With pulsewidths **<250fs** it is an ideal source for multiphoton imaging.



The STC-Spark-OPO provides exceptional tunability and power across the near-infrared, making it an ideal light source for a wide range of application areas (from multi-photon microscopy to spectroscopy). Our ultrafast OPO technology can generate light from **1.4 μm to 4.2 μm with picosecond pulsewidths**. With a fully integrated pump source it is able to deliver high average power at both the signal and idler wavelengths with exceptional reliability. We also provide access to the fixed wavelength pump light, making it suitable for CARS microscopy. The STC-Spark-OPO-FIR is the world's first commercial broadband ultrafast OPO providing **output in the 5 – 12 μm region**. In the 5 – 7 μm region up to 80 mW can be achieved and at 12 μm up to 10 mW of light is available. The Spark FIR is an ideal source for spectroscopy in the molecular fingerprint region as well as stand-off detection and remote sensing applications.

STC-Spark-X laser features

- 1280nm wavelength
- Output power >30 mW
- Sub-250-fs pulses
- 100-MHz repetition frequency

STC-Spark-OPO features

- Quasi-CW output from 1.48 – 4.2 μm
- Up to 800 W from signal port and 250 mW from idler port
- 3rd output 500 mW at 1040 nm
- 100 MHz repetition frequency

STC-Spark-OPO features

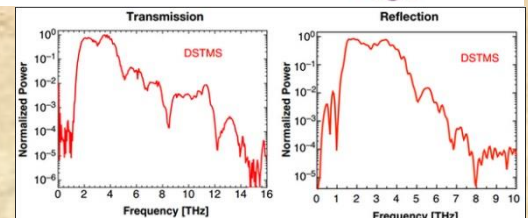
- Spectral output from 5-12 μm
- Up to 80 mW from 5-7 μm region
- Up to 10mW at 12 μm.
- First commercial quasi-CW OPO in the fingerprint region
- 100 MHz repetition frequency

Terahertz Instruments

The STRP-TeraSys- AiO provides a flexible solution for laboratory THz spectroscopy and imaging. It offers maximum flexibility with measurement capabilities in transmission and reflection without realignment of the optics. It is based on organic crystals, to allow access to terahertz frequencies not available with conventional antennas.



The STRP-TeraSys- AiO includes all optical, mechanical and electronic components for the generation and detection of THz waves such as delay line, terahertz generator, terahertz detector, pump source optics, electronics, humidity sensor, purge chamber, dedicated software, and laptop.



Check out our other terahertz instruments [here](#) !

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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