SINTEC NEWSLETTER

Sintec Optronics

Laser Expert in Singapore

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Quality and Excellence, presented by Sintec Optronics

CO2 optics

We currently offer a wide range of laser components including CO2 lenses, CO2 mirrors, CO2 cavity optics, and f-Theta scanner optics. We use the latest high performance coatings including the UltraLO AR/AR coating for high-power lasers. We also offer a range of CO2 beam delivery systems for industrial applications. We are leading the drive to make sophisticated beam delivery equipment much more affordable without compromising quality.

We offer CO2 optics for the applications:

- Cutting optics
- Scanner optics
- Beam expanders
- Partial reflectors
- Total reflectors
- Dual-focus lens
- Beam attenuator (Designed to handle up to 1kW CW power)
- Windows coatings

NEW OCT VARIABLE OPTICAL DELAY LINE

The Variable Optical Delay Line provides fast and accurate optical path length control in a compact housing.
Based on a customizable chassis that can be adapted to incorporate additional optical components, the unit is designed to be easily incorporated into any modular optical coherence tomography (OCT) system architecture.
Optical interface is through a single or dual fiber pigtails which can be specified to length and terminated with all commonly used optical connectors. Internal optical sensors can be used as reference location and travel limit switches.

Key Features:

-Point-and-return or dual fiber architecture
- Extremely compact design
- Optical wavebands covered:
  - 850 nm
  - 1060 nm
  - 1310 nm
- Low insertion loss
- Simple system integration
- Highly customizable

Large Aperture beam expanders

Many high-performance applications require a beam expander with a large aperture. The STS-5312/328 is optimized for such applications and provides stepless magnifications between 1.2x to 3x. A beam diameter of 18 mm is relayed at a magnification of 1.2x without vignetting (1% loss). That means for a Gaussian beam, the maximum input size at $1/e^2$ is defined as 12 mm. With a magnification of 1.5x, a maximum beam of 11 mm ($1/e^2$) can be expanded by the optic, and at 3x magnification, the system allows a free incoming beam diameter of 9 mm ($1/e^2$). The beam expander is designed as a diffraction-limited Galilean system without internal focus and consists of four high-grade fused silica lenses coated with a broadband low absorption coating to decrease the thermal focal shift. Also a version designed for the wavelength range of 515 nm – 545 nm is available and a motorized version (STS-5412/328) has been added to our product range.

Promotional items!

We are currently overstocked on items such as 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! Our LSLC-DIGI self-tuning scanheads are on offer too!

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