



## ◀ Continuous Wave Lasers

The Cobolt 06-01 series of modulated continuous wave lasers from **Cobolt AB** offers high performance and ranges in wavelengths from 405 to 660 nm. The series consists of a mix of modulated diode lasers and diode-pumped lasers. The notable power increases recently released on the 06-MLDs are at 405 nm, now with up to 300 mW; 473 nm with up to 300 mW; and 638 nm with up to 180 mW. Large spectral coverage combined with a compact form factor and direct modulation capability make the Cobolt 06-01 series ideal for demanding life science applications.

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## ▶ Monochromator Replacement ▲

The Flexible Wavelength Selector (FWS) Auto series from **Spectrolight Inc.** features computer control of center wavelength, bandwidth and wavelength scanning via a USB link and graphical user interface software. The FWS is a wavelength filtering device that combines the precision tunability and adjustable bandwidth of a traditional monochromator with the circular uniform aperture of a bandpass filter. Several models of FWS Auto are available with tuning ranges to cover the visible spectrum, each with FWHM bandwidth adjustable from 2 to 20 nm and apertures of up to 10-mm diameter. All models provide high out-of-band extinction. The FWS Auto can be used to filter in the source or the imaging side of an optical system, providing functionality in microscopy, illumination, life sciences instrumentation and hyperspectral imaging.

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## ▲ Turbine Flowmeters

The 800 series of turbine flowmeters from **Titan Enterprises Ltd.** is a line of monitoring devices that ensures accurate and repeatable long-term operation. The flowmeter offers a balance of measurement accuracy, long-term resistance to coolant fluids, high reliability and ease of maintenance. Operating over six flow ranges from 0.05 to 15 l/min., the 800 Series turbine flowmeter combines high performance and competitive pricing. The use of nonmetallic wetted components makes the 800 Series an ideal choice for the metering of laser coolant flow. Applications include thousands of industrial and medical laser uses.

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## ◀ OCT Imaging System

The OQ LabScope OCT imaging system from Lumedica has been announced by **Edmund Optics Inc.** This all-in-one, high-resolution imaging system is designed as an affordable alternative to more expensive and complex OCT systems. The tabletop device features a laser centered at 840 nm, making it ideal for inspection at depths of up to 2.8 mm in air and up to 2 mm in tissue. The system matches the performance of much more expensive units, with axial resolutions of 5  $\mu$ m and lateral resolutions of 15  $\mu$ m. Its small size combined with an integrated computer and an intuitive graphical user interface make it perfect for both laboratory or field use. An ideal tool for users of all experience levels, the system is ideal for biological sample imaging, sample characterization and OCT education.

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## ▶ Electro-Optic Adaptor

The Cricket plug-and-play electro-optic adaptor from **Photonis Netherlands BV** adds intensified imaging capability to any scientific camera. Cricket is ideal for use in fluorescence lifetime imaging microscopy, as well as plasma and physics research, and corona discharge diagnostics. Cricket is available with a wide range of options that enable it to support 1- $\mu$ lx sensitivity, high-speed imaging or single-photon counting, depending on the needs of the application. The device is a self-contained unit, equipped with C-mount connections that enable the user to simply connect to any scientific camera and attach to any lens or microscope to begin capturing intensified images. Cricket supports detection ranges from 200 to 900 nm and can be used with most EMCCD, CCD, CMOS or sCMOS cameras with little or no additional hardware required.

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## ▶ Higher-Accuracy Thin Films

**Precision Glass & Optics (PG&O)** provides advanced optics and thin-film optical coatings for biomedical applications. With the recent installation of an in situ optical monitoring and advanced rate control system, PG&O produces single- and multilayered thin films with ultraprecision — up to 10 $\times$  higher accuracy than previously available. Additionally, the company has a large in-house inventory of glass substrates, fabrication services and turnkey optics solutions for use in biomedical, MRI imaging, display, projection, scanning, laser and other instrumentation applications.

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