

PHOTONICS

showcase



November 2015

Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit Photonics.com/rssc.

Featured Products

532- and 550-nm Green Lasers

From: **Necsel**

Necsel's frequency-doubled lasers come in a variety of wavelengths from 529 to 538 nm and 550 to 555 nm with powers up to 3.75 W, spectral width of 0.1 nm, lifetime > 30,000 hours and a very compelling price point. They come in a compact, 1-in. cubed size that can be fiber-coupled into 400- μ m 0.22 NA. Also available is a developer's kit with a laser controller and GUI to get you started quickly.



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Fiber Optic Faceplates

From: **SCHOTT North America, Inc., Lighting & Imaging**

As the demands for digital imaging applications require faster speeds and higher dosage levels, SCHOTT has developed its RoHS-compliant fiber optic faceplate as the protective x-ray barrier for CMOS/CCD detectors. With sizes from 20 x 30 mm up to 430 x 430 mm, SCHOTT's 47A, 47ARH and new RFG-92A glasses provide excellent x-ray absorption and contrast, while transmitting high-resolution images to the detector.



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Reflectance Coatings and Targets

From: **Labsphere, Inc., Photonics**

Labsphere's Permafect II is our newest series of diffuse reflectance coatings and targets. They are ideal for use in the UV-VIS and NIR from 250 to 2500 nm, where traditional coatings, paints and paper cannot meet the durability and repeatability requirements for specific applications. Available in reflectances from 5 to 94 percent.



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Additional Products



New Laser Spectrum Analyzer

From: **Bristol Instruments, Inc.**

Bristol Instruments has introduced the model 771, a high-resolution laser spectrum analyzer that measures the spectral characteristics of CW and high-repetition-rate pulsed lasers that operate from 375 nm to 12 μ m.

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LS-Series Linear Stages

From: **Applied Scientific Instrumentation, Inc.**

ASI's LS-Series of linear stages can be used in many applications that require precision motion control and micropositioning.

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Q-Max Compact Precision Stage

From: **Nutec Components Inc.**

The Q-Max series is suitable for high-precision, high-stability positioning.

Applications are optical metrology, micromachining, laser focusing, semiconductor manufacturing and more.

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MPPC (SiPM) Modules

From: **Hamamatsu Corporation**

Modules make it easy to operate the MPPC (our brand of SiPMs) off of a low-voltage power supply. They contain all the components needed to operate the detector, including a temperature compensation circuit for stable performance.

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QCL, Thermoelectric Precision Control

From: **Wavelength Electronics, Inc.**

The Wavelength Electronics QCL driver provides the lowest noise commercially available at 0.4 μ A RMS (500 mA model). 500 mA to 2 A units up to 20 V are

available for QCLs and laser diodes.

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USB Filter Wheel

From: **Picard Industries**

Picard's USB-FilterWheel system offers a compact, quiet and simple method of automating the selection of six 25-mm optical filters into a beam path.

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Gear-Driven Motorized Gimbals

From: **Aerotech, Inc.**

Aerotech's AMG-GR series gear-driven motorized gimbals provide economical, high-accuracy elevation-over-azimuth positioning and are available in a variety of standard travels.

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Space-Qualified Laser Diodes

From: **Photodigm Inc.**

Photodigm DBR lasers are proven robust performers when it comes to space qualification. Chosen for their high reliability, Photodigm DBR lasers will fly in international payloads on both low orbit and deep space missions over the next several decades.

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PC-Controlled Variable Coupler

From: **Evanescence Optics Inc.**

The Model 905(P)-M is a variable-ratio fiber coupler; the ratio can be remotely controlled with a PC through a USB port. Available in SM, non-PM and PM versions, it operates over wavelengths from 590 nm to 2 μ m.

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Sapphire Wave Plates

From: **Meller Optics, Inc.**

Meller Optics sapphire wave plates for Er:YAG and holmium lasers extend polarization into the infrared and provide superior damage resistance to quartz and mica.

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Questions: info@photonics.com

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