PHOTONICS) MEDIA

High-Speed Shutters and Rotators

Atom Cooling

PHOTONICS SHOWCASE

Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for

May 2017

more information about these products, or visit Photonics.com/rssc.

Ferroelectric Liquid Crystal Optics From: Meadowlark Optics Inc.

Featured Products

Does your application require fast optical response time? Ask about our NEW FLC Shutters

and Rotators:

 Response Time: ≤100 µsec Retardances: λ/4 and λ/2

fabricated, tested and packaged for critical applications. Their narrow linewidth and high

stability enable high- resolution spectroscopy and precision metrology.

- · Clear Aperture: up to 40 mm
- Wavelength: 405 to 850 nm (custom ranges up to 2 μm)

Maximum Extinction Ratio

From: Photodigm Inc.

High-Speed Binary Operation High-Purity Linearly Polarized Output

Solid-State — No Vibration Optional FLC Controller Available Request Info Visit Website

Photodigm is the world's leading producer of DBR laser diodes resonant with atomic and molecular transitions in the near-IR spectral band. Spectroscopy-Certified laser diodes are

Spectroscopy-Certified™ Laser Diode

From: Applied Scientific Instrumentation Inc. ASI's FW-1000 16-position filter wheel utilizes a closed-loop DC servomotor to provide high

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16-Position Filter Wheel

utilizes nonvolatile flash memory to store programmable filter sequences and delays. It is great for use in many fluorescence microscopy applications.

Request Info Visit Website HD 1080p Thermal Imager

speed and low vibration operation (less than $3 \times 10-4$ kg-m2/s maximum vibration

torque impulse). It employs a high-resolution rotary encoder for positional feedback and

From: Sierra-Olympic Technologies Inc. (SOTI) The new Viento HD is the first longwave-infrared (LWIR) camera with true high-definition (HD) imaging. The Viento HD thermal imager is a fully functional camera system based on a unique $1920 \times 1200 \times 12$ - μm uncooled sensor. Housed in a rugged IP67 enclosure, the Viento HD includes a 24 mm F1.1 athermalized custom-designed optic and comes with a

of 8 µm pixel pitch. Optimized for 430 to 750 nm, it allows a max. 4.5 kHz refresh rate from a Non-video IF board storing max. 1024 bit planes created by an easy-to-use GUI.

1-year warranty.

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Application examples: Structured Light for 3D Optical Metrology, Microscopy & Coded

3 MPix Spatial Light Modulator From: Forth Dimension Displays Ltd.

Visit Website

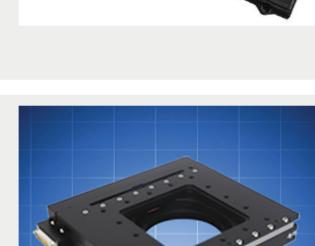
Aperture Imaging.

Request Info Visit Website OE-1250 GEN II MS-Stage

manufacturers and easily integrated into their systems. The OE-1250 Stage has custom mounting options, a flat top designed with multiple configurations, higher load capacity,

ASI has designed the OE-1250 GEN II Stage specifically to be configurable for

A Reflective LCOS with binary modulation of phase or amplitude with 2048 \times 1536 pixels



precise motion and high repeatability. The OE-1250 provides controlled linear motion alignment, orthogonal movement and lower driving friction.

From: Applied Scientific Instrumentation Inc.

Request Info Visit Website **Additional Products**

Photopia Optical Design

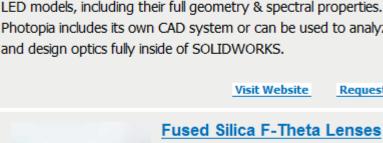
The Photopia optical design software

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Fused Silica F-Theta Lenses

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Photopia includes its own CAD system or can be used to analyze

Software

LTI Optics LLC

includes large libraries of measured material BSDF data and detailed

JENOPTIK Optical Systems GmbH, Optical Systems Jenoptik extends its F-Theta lens portfolio by introducing new versions of their industry-proven standard products. The F-Theta JENar™ Silverlin™ 170-355-140 lens has a

maximum telecentric angle of just 4.9 degrees and a highly homo-

geneous spot size distribution across the 100×100 -mm work area.

Visit Website Request Info PC-Controlled Variable Coupler Evanescent Optics Inc.

it operates over wavelengths from 590 nm to 2 μm. Standard

coupling range is from 0 to 99%; other ranges are available.

peak intensities and consistency up to 60 percent. Visit Website Request Info

SemiNex Corp. SemiNex delivers up to 25 W of pulse power in ruggedly designed TO9 and TO56 packages. Standard eye-safe wavelengths include 1310, 1350, 1550, 1625 and 1650 nm.

Standard aperture sizes are 4, 5, 50, 95, 180 and 350 µm with

TMC

honeycomb breadboard. Ideal for optical sub-assemblies in

photonics tools and applications including lab automation, drug

TMC's Hybrid Honeycomb is a new type of optical breadboard that combines a bonded aluminum plate with the structural damping of a

optional collimating optics to < 5 mrad.

enhanced by Princeton Instruments' ResXtreme™ spectral

deconvolution technology, which can improve spectral resolution,

measures laser wavelength at a sustained rate of 1 kHz, the fastest available. Now it also measures wavelength to an accuracy as high

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stage is ideal for precision laser machining, semiconductor applications, microscopy and much more. Attributes are large thru

Motorized Scanning Stage National Aperture Inc.

National Aperture's NEW MM-5M largeaperture servo motor-driven scanning

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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,

aperture, 25 mm of linear travel, and X, XY or XYZ configurations. NAI offers several single and multi-axis controllers/drivers. Visit Website Request Info

Phase-Locked Loop Optical

The C-995 Phase-Locked Loop Optical

Chopper provides crystal controlled

Terahertz Technologies Inc.

chopping rates of 4 Hz to 5 KHz using only one blade. The use of direct digital synthesis permits the rate to be set to a precision of 0.001 Hz and provides quartz crystal stability. Frequency settings may be made via front panel controls and its bi-directional RS-232 port.

simulating the propagation of light through any opto-mechanical

system by ray tracing. Whether the design is imported from CAD, a

lens design program or constructed from within the software itself,

Chopper

FRED Optimum Optical

Visit Website

as ± 0.0001 nm. Automatic calibration with built-in wavelength standard ensures the reliable accuracy needed for the most meaningful experimental results. Breadboard

Visit Website Hybrid Honeycomb™

Asphere and Freeform Metrology Mahr Federal Inc. The MarForm MFU 200 is the ideal

Visit Website

FRED Optimum Optical Engineering Software is capable of

Engineering Software Photon Engineering LLC

FRED provides engineers with the essential tool for virtual prototyping of optical systems. Visit Website Request Info Clear Poly Protection for Nd:YAG

Kentek Corporation

delivers protection levels of OD 7+ at 1064 nm with a glass-like VLT

of 60 percent, using revolutionary narrow notch absorbers in

lenses.

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Picard Industries

surfaces. Fully automated alignment of lens, export of differential

profile for closed loop manufacturing, interferometric point sensor

measurement of unfinished optics or nonoptical surfaces. Measures a

for noncontact scanning of optics, and tactile probe for

method of six-axis motion control with micron resolution. This rigid and precise platform is perfect for

Visit Website Request Info Sapphire Wave Plates Meller Optics, Inc.

> polarization into the infrared and provide superior damage resistance to quartz and

Elements of Commercialization

ultralight polycarbonate lenses. Choose from our many frame styles to create perfection in both fit and safety.

> Visit Website Request Info CITE - A 12-Lecture Course in

Technology Commercialization

Kentek's new XVT™ Extraordinary Visible

Transmission Technology Filter (#5161)

Photonics Media This 12-lecture digital course is for anyone involved in technology development and the business development opportunities based on technology. CITE provides a roadmap and methodology for moving advanced technology into

successful commercial products and provides a view of current and future hot areas for investor funding. Visit Website Request Info generation laser micromachining applications.

µm and, for Er:YAG and holmium lasers, at 2.94 and 2.10 µm, respectively.

> Aerotech Inc. Aerotech's QFocus® QF-50 piezo

nanopositioning stage enables microscope

objective and optics positioning at a large travel (400 µm CL, 450 µm OL) without sacrificing speed or nanometer-level performance. The QF-50 is

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Versatile High-Res Spectrograph

Princeton Instruments

New, SpectraPro® HRS-300

spectrographs deliver outstanding

spectral resolution and versatility —

SemiNex LIDAR Products

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New Laser Wavelength Meter

Bristol Instruments' popular 871 system

Bristol Instruments Inc.

Request Info

discovery, lasers, surface metrology and semiconductor inspection.

measurement tool for contact and noncontact 3D measurement of optical

wide range of optics including aspheric, diffractive and freeform Visit Website Request Info Mini-Hexapod Platform (MHP)

Our MHP-11 system offers a compact

positioning optical components. With its dedicated drive electronics and Windows-based 6D user interface with Space Mouse, the



control of the platform's motions is greatly simplified.

Meller Optics sapphire wave plates for

Er:YAG and holmium lasers extend

mica. They are available from 0.3 to 4.7

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Piezo Nanopositioning Stage

designed to accommodate newer optical instruments and next-