PHOTONICS SHOWCASE



September 2017

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

Optical Design Software From: Zemax LLC, Optical & Illumination Design Software

Featured Products

With a comprehensive suite of optical, laser, and illumination design features, OpticStudio®

puts powerful ray-tracing tools in the hands of optical engineers and researchers. OpticStudio combines complex physics and interactive visuals so you can analyze,

simulate, and optimize systems, all within tolerance specifications. Advanced tools help engineers incorporate manufacturing and assembly limits into design constraints to ensure manufacturability and production efficiency. Request Info Visit Website

optical/illumination software programs. TracePro 8.0 features faster ray tracing and new utilities to expedite your illumination projects. RayViz adds ray tracing and visualization to SOLIDWORKS®. Streamline your prototype to manufacturing process with our intuitive

From: Lambda Research Corp. Lambda Research Corporation announces the latest releases of its easiest-to-use

New TracePro and RayViz 7.8.2

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OE-1250 GEN II MS-Stage

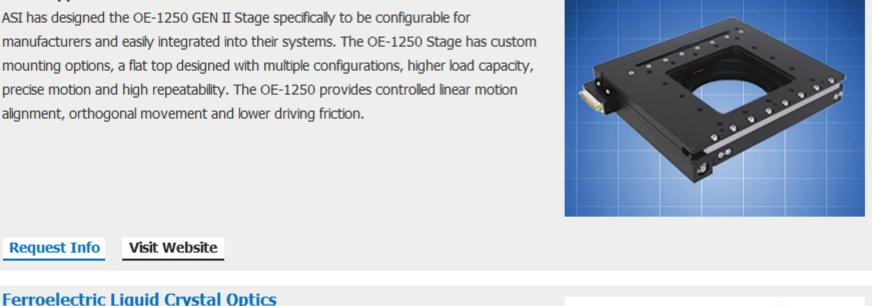
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interfaces and unparalleled interoperability with CAD.

From: Applied Scientific Instrumentation Inc. ASI has designed the OE-1250 GEN II Stage specifically to be configurable for

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

Visit Website Request Info Ferroelectric Liquid Crystal Optics From: Meadowlark Optics Inc.



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

· Wavelength: 405 to 850 nm

(custom ranges up to 2 μm)

High-Speed Binary Operation

Clear Aperture: up to 40 mm

Maximum Extinction Ratio Solid-State — No Vibration

High-Purity Linearly Polarized Output

Visit Website Request Info High-Res Imaging Colorimeter

Optional FLC Controller Available

high dynamic range (to 73 dB) with optical filters that replicate human visual sensitivity providing the truest evaluation of light quality.



3 MPix Spatial Light Modulator

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From: Radiant Vision Systems, Test & Measurement

Evaluate the accuracy of light and color in displays, illuminated components and light sources, including the latest LED and OLED technologies and devices. Radiant Vision

Systems ProMetric® I Imaging Colorimeters combine high-resolution CCDs (to 29 MP) and

From: Forth Dimension Displays Ltd. A Reflective LCOS with binary modulation of phase or amplitude with 2048 \times 1536 pixels 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. Application examples: Structured Light for 3D Optical Metrology, Microscopy & Coded Aperture Imaging.

the mission lifetime. Due to their precise wavelengths and narrow linewidth, Photodigm Space-Certified™ DBR lasers were selected for use in critical metrology and environmental



515-1-7-1311

From: Photodigm Inc. Photodigm's DBR fiber coupled and free space laser diodes are now flying in international

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Red to NIR Enhanced Photodiode

From: Opto Diode Corporation

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payloads on both low orbit and deep space missions. The efficiency of Photodigm's LDs allows power budget optimization to meet the critical requirement of reliable operation over

Space-Qualified Laser Diodes

sensing applications. They are available today in wavelengths between 770 nm and 1083 nm.

Thermographically Calibrated

From: Sierra-Olympic Technologies Inc. (SOTI) Viento-GT is an affordable, easy-to-use, thermographically calibrated thermal camera featuring uncompressed 8-, 14-, or 16-bit digital video outputs and proprietary Image Contrast Enhancement (ICE). Power, control and video are provided over a single Ethernet cable via GigE Vision and Power-over-Ethernet (PoE) standards. Available with several lens combinations and two pixel resolutions, 640×480 and 320×240 . Ideal for low-cost thermal monitoring tasks.



The NXIR-5C, a red to near-IR enhanced photodiode with a circular active area of 5mm2, has a spectral response from 320nm to 1100nm. The rugged photodiode is housed in a custom 4.7 × 4.9mm ceramic carrier surface-mount device (SMD) package. The new SMD

spectrum.

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True CW Deep UV-Visible Laser

Additional Products

available from 375 nm to 12 µm.

From: LEXEL Laser

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nm). They are the preferred lasers for Raman spectroscopy, planar waveguides and semiconductor metrology. The proprietary QuickSwitch™ technology provides rapid and seamless access between the Deep UV spectrum and Visible wavelengths. Enhanced Resonator Stabilization enables fast warmup and promotes excellent beam pointing characteristics for the UV and Visible TEM00 outputs. Request Info Visit Website

Laser Wavelength Meter

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Superior Polishing of Aspheres

Advanced Polishing System 3D, offering

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Bristol Instruments Inc.

The 671 Series Laser Wavelength Meter uses a proven Michelson

interferometer-based design to measure the wavelengths of CW

lasers to an accuracy as high as ±0.2 parts per million. Operation is

The versatile LEXEL™ QUANTUM-SHG Lasers provide multiple wavelengths (229 to 514

joins the company's popular NXIR family of products that is optimized for the near-infrared



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Femtosecond Applications

Kentek's C120C coated filter is an

excellent choice for femtosecond

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FRED Optimum Optical Engineering Software is capable of simulating

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

the propagation of light through any opto-mechanical system by

Protection

applications including Ti:Sapphire for industrial, medical and scientific

environments. The C120C filter provides scratchproof laser safety,

40 percent visibility and protection levels up to OD 9 at select

Kentek Corporation

program or constructed from within the software itself...

Schneider Optical Machines Inc. The ALP 120 aspherical lens polisher was specifically designed for high-quality polishing. It is complemented by the

an intelligent process flow and requiring minimal user interaction. **Visit Website**

Aerotech Inc. Aerotech's AMG LP (Low Profile) gimbals provide precise angular position, rate and acceleration for development and testing in space-constrained applications. Direct-drive allows significantly higher

Terahertz Technologies Inc. Terahertz Technologies Inc. manufactures a variety of U.S.-made products for your optical laboratory needs. We offer O/E converters in bandwidths from DC to 20 GHz and E/O/E fiber optic, lab grade links.

GS Plastic Optics works with executives and program managers to solve complex

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Metrology Mahr Inc. The MarForm MFU 200 is the ideal

The 3SAE Combiner Manufacturing System (CMS) is a vacuum-based optical glass processing system designed to maintain production level repeatability for combiners and other fused optical components.

are clear as glass and nearly hard as diamond to provide optimum front

wavelengths.

Sapphire Is Clear Protection Meller Optics Inc. Custom-fabricated sapphire optics that

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surface protection for cameras, sensors and other devices are available from Meller

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3SAE Combiner Manufacturing System

3SAE Technologies Inc.

Optics Inc. of Providence, R.I.

XY Polisher SAGA SAGA is a world leader in polishing and grinding machines. We offer rugged,

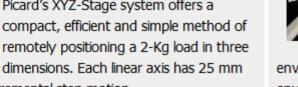
versatile, compact units designed with great flexibility. In addition to our standardized machines, our engineers will

measurement tool for contact and noncontact 3D measurement of optical surfaces • Fully automated alignment of lens • Export of differential profile for closed loop

manufacturing Visit Website Request Info

USB XYZ-Stage

Picard Industries Picard's XYZ-Stage system offers a compact, efficient and simple method of





laser liquids; fused silica matching liquids;

Optical Liquids

to 2.11 nD). Also featured are transparent

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Accuratus Corporation

Accuflect high-efficiency ceramic diffuse reflector material is compatible with high-

energy and high-temperature application environments. It can be glazed for easy cleaning and use in wet

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Low-Profile Motorized Gimbals

speeds/accelerations than competing products.

Optical Laboratory Equipment

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Precision Polymer Optics GS Plastic Optics

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optical challenges. We manufacture highperformance injection molded polymer optics specifically designed to help customers improve their competitiveness and market share.

Asphere and Freeform

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design and build custom machines to meet your specific needs.

Cargille Laboratories

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This Specialty Optical Liquids catalog features high-transmission, safe-handling

Cargitte and specific refractive index liquids (1.300 and light-absorbing gels.

Visit Website Accuflect Vis & NIR Reflector

environments (laser cavities).

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of range with 0.75 µm incremental step motion. Visit Website