

# the business of photonics

# optics.org



Photonics West is the premier photonics and laser event. With more than 1,250 companies, this exhibition continues to be the flagship event to find the latest products, tools, and applications for your research or business needs.

**SPIE. PHOTONICS WEST**

The Moscone Center, Moscone North and South  
San Francisco, California, United States

**4th - 6th February 2020**

## product focus

Welcome to the optics.org Product Focus which we have published specifically for Photonics West 2020 in partnership with SPIE and the Photonics West Show Daily.

Here you will find an effective at-a-glance guide to some of the latest products available on the market with booth numbers if available making it easy for you to check out the products for yourself.

All this information and more can be found on the optics.org website. Simply go to [www.optics.org](http://www.optics.org) for all the latest product and application news.

Alternatively, why not sign up to our **free weekly newsletter** ([www.optics.org/newsletter](http://www.optics.org/newsletter)) and get the information delivered direct.

### Diamond USA, Inc.

Visit us at Booth #2248

#### DIAMOND High Power Interconnect Solutions up to 6 W

The DIAMOND Power Solution (PS) connector series is recommended for high power (>50mW) fiber optic transmission on small core fibers to ensure high reliability and a low Insertion Loss fiber optic connection.

Our expanded beam technology reduces the beam power density at the connector interface, allowing connections with an incredibly low failure rate for optical signals up to 6W. Simultaneously, they assure high transmission efficiency, thereby, minimizing Insertion Loss and maximizing Return Loss.

In addition, they are well-suited for Power over Fiber applications, such as connections of optical amplifiers and high-power lasers.



#### Contact Details

Diamond USA Inc.  
85 Rangeway Road, Bldg. 3  
North Billerica, MA 01862  
[www.diausa.com](http://www.diausa.com)  
[sales@diausa.com](mailto:sales@diausa.com)  
Tel: +1 978 256 6544

### Diverse Optics Inc.

Visit us at Booth #2262

#### Custom Polymer Optics

Diverse Optics specializes in precision injection molding and single-point diamond turning of custom polymer optics.

We do it all; prototyping to series production of free-forms, spheres, micro-optics, aspheres, domes, convex/concave, plano/convex, bi-convex, diffractives, Fresnels, prisms, light-pipes, lens arrays, collimators, combiners, toroids, CPC's, TIR's, parabolics, off-axis, ellipticals, and more.

Reduce cost, trim weight, improve performance, and simplify your product design by implementing precision polymer optics. Whether its thousands of molded optics or a few diamond turned prototypes, we'll show you how polymer optics are perfected!



#### Contact Details

Letty Trevino, Sales Engineer  
Diverse Optics Inc., 10310 Regis Court,  
Rancho Cucamonga, CA 91730  
[www.diverseoptics.com](http://www.diverseoptics.com)  
[info@diverseoptics.com](mailto:info@diverseoptics.com)  
Tel: +1 (909) 593-9330  
Fax: +1 (909) 596-1452

### EKSMA OPTICS

Visit us at Booth #748

#### High Reflectivity Laser Mirrors for High Power Picosecond Applications with LIDT >3 J/cm<sup>2</sup>

New advanced ion-beam-sputtered coatings by EKSMA Optics feature extremely high picosecond laser induced damage threshold, allowing to increase laser power limits and to extend the lifetime of optical components.

EKSMA Optics offers laser mirror coatings with R>99.9% and guaranteed damage threshold value of >3 J/cm<sup>2</sup> at 1030 nm or >2.5 J/cm<sup>2</sup> at 515 nm.

Laser induced damage threshold measurements were performed according to ISO 21254 standard procedures 1000-on-1 with high power lasers operating at 20 kHz repetition rate and 10 ps pulse duration.



#### Contact Details

EKSMA OPTICS  
Mokslininkų str. 11  
LT-08412 Vilnius  
Lithuania  
[www.eksmaoptics.com](http://www.eksmaoptics.com)  
[info@eksmaoptics.com](mailto:info@eksmaoptics.com)

### First Light Imaging

Visit us at Booth #957D

#### C-RED 3 – A smart compact camera for FSO and industry

C-RED 3 is a 640x512 InGaAs camera running at 600 FPS full frame while offering a <30 electrons RON, with optimized SWaP and low cost adapted for FSO, industrial or surveillance applications.

C-RED 3 supports a unique high dynamic range mode (HDR) providing 93dB dynamic range and true 16 bits linear response.

Available in USB3 and Camera Link Full, C-RED 3 also offers OEM and custom features for easy integration in every system.

(SPIE 11272-14 - C-RED 3: a SWIR camera for FSO applications)



#### Contact Details

First Light Imaging  
Europarc Sainte Victoire, Bat 6  
Route de Valbrillant, Le Canet  
13590 Meyreuil, FRANCE  
[www.first-light-imaging.com](http://www.first-light-imaging.com)  
[contact@first-light.fr](mailto:contact@first-light.fr)  
Tel: +33 (0) 4 42 61 29 20

### ID Quantique SA

Visit us at Booth #4356

#### ID Quantique launches the ID Qube Series

The ID Qube series is a range of very compact and cost-effective modules for single-photon detection.

It offers the possibility to receive external pulses for fast and slow gating operations depending on the model.

A first module is optimised for fast-gated (up to 100 MHz) operations at telecom wavelengths, specially suited for quantum communication protocol while a second module offers ultra-low noise free-running operation mainly required for photon correlation and Time of Flight measurement.

More info : [www.idquantique.com/IDQube-series](http://www.idquantique.com/IDQube-series)



#### Contact Details

ID Quantique SA, Ch. de la Marbrerie, 3  
1227 Carouge/Geneva, Suisse/Switzerland  
[www.idquantique.com](http://www.idquantique.com)  
[info@idquantique.com](mailto:info@idquantique.com)  
Tel: +41 22 301 83 71

### Oz Optics Ltd

Visit us at Booth #4445

#### OCT components

OZ Optics is introducing a new line of Fiber Optic Components for OCT Applications:

High Speed Polarization Controller/Scrambler, 330ps Electrically/Manual Controlled Optical Delay Line, Collimators/Focusers, Electrical Controlled Variable Attenuators, Faraday Rotators/Mirrors, Isolators, Fiber Pigtailed Ultra Stable Laser Module, Fused Coupler, Polarizers, Reflectors, Directional Fiber Optic Power Monitors (Taps/Photodiodes), Miniature Inline Polarization Maintaining Splitters/Taps/Combiners, Polarization Maintaining Fused Fiber Couplers/Splitters, Optical Circulator, Voltage Controlled Tunable Filter, Inline Fabry-Perot Tunable Filters.



#### Contact Details

OZ Optics Ltd  
219 Westbrook Road, Ottawa,  
Ontario, K0A 1L0  
[www.ozoptics.com](http://www.ozoptics.com)  
[sales@ozoptics.com](mailto:sales@ozoptics.com)  
Tel: +1 613-831-0981  
Fax: +1 613-836-5089

**Suruga Seiki Co., Ltd.**

Visit us at Booth #4186

**Suruga Seiki New Laser Autocollimator: Ultra-compact Sensor Head with Easy-to-use Processing Unit**

We are announcing new version of Laser Autocollimator (H410 Series) designed to fit for alignment and inspection of various miniature devices.

It consists of ultra-compact sensor head (W40 x D40 x H64mm) and easy-to-use Image Processing Unit (IPU), and is capable of measuring +/- 1.75 degree with 650nm class-1 laser beam (Infrared-option will be available soon).

Please drop by at our booth and have a look at the brand new product, as well as our range of optoelectronic components.



**Contact Details**  
 Suruga Seiki Co., Ltd.  
<https://eng.surugaseiki.com>  
 e-ost@suruga-g.co.jp  
 Tel: +1 408-435-2974 (San Jose office)

**Radiant Vision Systems, LLC**

Visit us at Booth #4282

**Evaluate Displays as Seen from the Headset: All-In-One AR/VR Display Test System**

No costly equipment or advanced programming required – Radiant’s compact AR/VR display test solution is designed to simplify visual performance evaluation within augmented & virtual reality headsets and glasses.

The system captures up to 120° horizontal field of view from the eye position in a single measurement for quick and comprehensive analysis.

Combining a high-resolution imaging photometer or colorimeter, specially engineered lens system, and AR/VR display measurement software, the solution evaluates virtual projections for accurate brightness, color, contrast, distortion, sharpness (MTF), uniformity, and more.



**Contact Details**  
 Radiant Vision Systems, LLC  
 18640 NE 67th Court  
 Redmond, WA 98052 USA  
[www.RadiantVisionSystems.com](http://www.RadiantVisionSystems.com)  
 Info@RadiantVS.com  
 Tel: +1 (425) 844-0152

**Navitar**

Visit us at Booth #238

**Tunable Lens Focus Module for Zoom 6000 System**

Gain greater working distance and faster focus by integrating a tunable lens focus module with the Navitar Zoom 6000 digital imaging system.

**Key Features**

- Fast and accurate fine focus adjustment in a compact design
- Extends working distance range of the 6X lens attachments
- Increases depth of field when coupled with infinity corrected microscope objectives
- Maintains image resolution with the integrated Optotune EL 16-40 tunable lens
- Long cycle life of the tunable lens unit and motorized Zoom 6000 system
- Easy to install USB electrical lens driver with software to control the tunable lens



**Contact Details**  
 Navitar  
 200 Commerce Drive  
 Rochester, NY 14623  
[www.navitar.com](http://www.navitar.com)  
 info@navitar.com  
 Tel: +1 585.359.4000

**Duma Optronics Ltd.**

Visit us at Booth #2621

**BeamOn U3 – High Resolution Innovative beam profiler**

Duma Optronics offers an innovative beam profiler system (1/1.2") with integrated filter wheel. The device is based on a high resolution 2.3 MegaPixel camera with 12 bit dynamic range.

Measurements include: Beam Profile, position and power. The spectral range covered is 190-1600nm. Sensor area 11.34X7.13mm, with USB3.0 interface. Optional accessory for high power attenuation up to a few KWatts.

New software module for testing multiple beams in parallel. The most cost effective solution for beam profiling tasks!



**Contact Details**  
 Duma Optronics Ltd.  
[www.dumaoptronics.com](http://www.dumaoptronics.com)  
 sales@duma.co.il

**Iridian Spectral Technologies**

Visit us at Booth #3241

**Wavelength Selective Custom Optical Filter for Satcom Applications**

Iridian designs and manufactures custom wavelength selective optical filters including solar rejection windows (SRW) and dichroic beam-steering filters to improve the signal to noise and enable wavelength multiplexing for optical inter-satellite links (OISL) and ground to satellite links.

Iridian has over 20 years of experience producing industry leading optical telecom filters for terrestrial systems.

This communications filter expertise is combined with a space heritage providing filters flown in satellite applications such as earth observation and is supported by our dedicated Aerospace and Specialty Optics team.



**Contact Details**  
 Iridian Spectral Technologies  
 2700 Swansea Crescent, Ottawa,  
 ON, Canada K1G6R8  
[www.iridian.ca](http://www.iridian.ca)  
 sales@iridian.ca  
 Tel: +1 (613) 741 4513 (x240)

**Photon etc.**

Booth #4455

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- » Exceptionally low noise
- » QE up to 85%

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 for the  
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 You spec the design - the best Figure of Merit triumphs.  
 Let your brain guide our Photonic Inverse Design.  
 Leave with top honors.

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**2020 FEBRUARY 04-06**

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**Boston Electronics Corp (BEC)**

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Detectors are available with preamplifiers, controllers and software providing you with turn-key capability for your most important measurements.

New products include >1 GHz sensors, linear arrays and affordable chip-on-board modules. We also provide OEM modules specially designed to your volume application and packaging requirements.

We also supply infrared quantum cascade lasers (QCL) from Alpes Lasers to complement your infrared detectors.



**Contact Details**

Boston Electronics Corp (BEC)  
91 Boylston St.  
Brookline, MA 02544 USA  
[www.boselec.com](http://www.boselec.com)  
[shop.boselec.com](http://shop.boselec.com)  
[boselec@boselec.com](mailto:boselec@boselec.com)  
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**ADIT Electron Tubes**

Visit us at Booth #1461

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Photodetector modules are available in cylindrical and rectangular format for photon counting and analog signal detection using 25mm and 30mm diameter photomultiplier tubes.

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- Signal output – analog, TTL, USB
- Dual TTL and USB available
- Operates from +5 volts
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- Choice of 3 software configurable counting modes
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**Contact Details**

ADIT Electron Tubes, 300 Crane Street  
Sweetwater, TX 79556  
[www.electrontubes.com](http://www.electrontubes.com)  
[paul@electrontubes.com](mailto:paul@electrontubes.com)  
Tel: +1 325-235 1418  
Toll free: 800-399 4557  
Fax: 325-235 2872  
Cell: 862-209 0653

**GPD Optoelectronics Corp.**

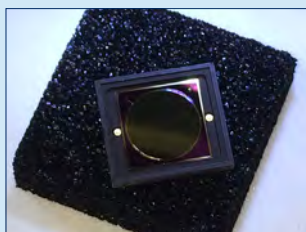
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**GPD Optoelectronics Corp. announces availability of 1cm InGaAs pin Photodetector**

We are pleased to announce the availability of 1 cm diameter InGaAs Photodetectors in die form, on ceramic submount or in TO-9 package.

Ge photodetectors are available in diameters up to 13 mm.

GPD Optoelectronics Corp. manufactures germanium PN, PIN, APD and InGaAs PIN high-speed, large-area and extended wavelength photodetectors and APDs for near-infrared applications (800-2600 nm.) Custom submounts and packages including fiber pigtailed and cooled applications are a GPD specialty.



**Contact Details**

GPD Optoelectronics Corp.  
7 Manor Parkway  
Salem, NH 03079  
[www.gpd-ir.com](http://www.gpd-ir.com)  
[sales@gpd-ir.com](mailto:sales@gpd-ir.com)  
Tel: +1 603 894 6865  
Fax: +1 603 894 6866

**Headwall Photonics Inc.**

Visit us at Booth #5552

**New Hyperspectral Camera with Onboard Processing & Industry-Leading OEM Holographic Gratings, Sensors**

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Come to the leader with decades of experience creating high-performance, economical solutions, putting our customers ahead of the competition. Our award-winning products are used every day in the field, in the lab, under water, in the air, and in space.

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**Contact Details**

Headwall Photonics, Inc.  
580 Main St, Bolton, MA 01740  
[www.headwallphotonics.com](http://www.headwallphotonics.com)  
[sales@headwallphotonics.com](mailto:sales@headwallphotonics.com)  
Tel: +1 978 - 353 - 4100

**Bristol Instruments, Inc.**

Visit us at Booth #229

**NEW Pulsed MIR Laser Spectrum Analyzer**

Bristol Instruments now offers a spectrum analyzer for pulsed lasers that operate from 1 to 12 μm.

The model 772B-MIR measures wavelength to an accuracy of ± 1 part per million, and bandwidth and longitudinal mode structure to a resolution of 4 GHz.

It is the ideal solution for scientists and engineers who need to know the spectral properties of their pulsed mid-IR lasers.



**Contact Details**

Bristol Instruments, Inc.  
770 Canning Parkway  
Victor, New York 14564  
[www.bristol-inst.com](http://www.bristol-inst.com)  
[info@bristol-inst.com](mailto:info@bristol-inst.com)  
Tel: +1 (585) 924-2620  
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**Pixelink a Navitar Company**

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<https://pixelink.com/products/industrial-cameras/usb-30/>



**Contact Details**

Pixelink  
1900 City Park Drive, Suite 410  
Ottawa, ON, K1J 1A3, Canada  
[www.pixelink.com](http://www.pixelink.com)  
[Sales@pixelink.com](mailto:Sales@pixelink.com)  
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**Contact Details**  
 Bristol Instruments, Inc.  
 770 Canning Parkway  
 Victor, New York 14564  
[www.bristol-inst.com](http://www.bristol-inst.com)  
[info@bristol-inst.com](mailto:info@bristol-inst.com)  
 Tel: +1 (585) 924-2620  
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**New TM-1050 Thermal Module for LensCheck™ Systems**

Lenses that are subject to extreme temperatures, such as those in automotive cameras, need to meet stringent performance and athermalization requirements for vehicle safety.

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The TM-1050 provides a flexible and powerful tool to characterize the performance of smaller lenses up to 50mm including image quality and flange focal length, over temperatures of -25°C to 105°C.

Learn more at Booth #1827.



**Contact Details**  
 Optikos Corporation  
 107 Audubon Rd., Bldg. 3  
 Wakefield, MA 01880 USA  
[www.optikos.com](http://www.optikos.com)  
[sales@optikos.com](mailto:sales@optikos.com)  
 Tel: +1 617 354 7557

**Special Optics a Navitar Company**

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Special Optics is a leading designer and manufacturer of high N.A. microscope objective lenses.

These precision optics are used within the life science, quantum physics, ultra cold atom and physics research arenas, as well as industrial applications.

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<https://specialoptics.com/products/microscope-objectives/objectives/>



**Contact Details**  
 Special Optics  
 3 Stewart Court  
 Denville, New Jersey 07834  
 USA  
[www.specialoptics.com](http://www.specialoptics.com)  
[Craig.fitzgerald@navitar.com](mailto:Craig.fitzgerald@navitar.com)  
 Tel: +1 973.366.7289

**Presco Engineering**

Visit us at Booth #3137 Hall D

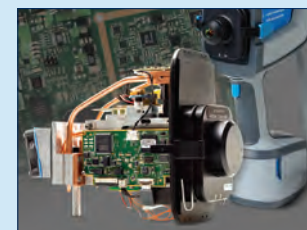
Presco Engineering, a product design and contract manufacturing company, has expanded its services.

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**Contact Details**  
 Presco Engineering  
 8 Lunar Drive  
 New Haven, CT 06525  
[www.prescoinc.com](http://www.prescoinc.com)  
[info@prescoinc.com](mailto:info@prescoinc.com)  
 Tel: +1 203 397 8722

**iXblue Photonics**

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Based on intensive qualifications from laboratory to field trials with major fiber-based LIDAR manufacturers, iXblue launches new double clad Erbium Ytterbium co-doped fibers compatible with long term 125°C operation.

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Test results show no trade-off on long term reliability as well as on optical performances; fiber exhibits record 1.5 μm efficiency and low 1 μm ASE emission.



**Contact Details**  
 iXblue Photonics  
 34, Rue de la Croix de Fer  
 78100 Saint Germain-en-Laye - France  
[www.photonics.ixblue.com](http://www.photonics.ixblue.com)  
[contact.photonics@ixblue.com](mailto:contact.photonics@ixblue.com)  
 Tel: +33 (0)1 30 08 88 88

**TOPTICA Photonics AG**

Visit us at Booth #3209

**Femtosecond Fiber Lasers Optimized for 2-Photon Microscopy**

In 2-photon microscopy, peak-power is brightness! If you care for the best image brightness, you need short pulses, high power, and most importantly a clean temporal pulse shape.

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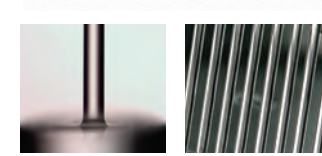


**Contact Details**  
 TOPTICA Photonics AG  
 Lochhamer Schlag 19  
 82166 Graefelfing (Munich)  
 Germany  
[www.toptica.com](http://www.toptica.com)  
[sales@toptica.com](mailto:sales@toptica.com)  
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 EMAIL: [INFO@NYFORS.COM](mailto:INFO@NYFORS.COM) OR CALL US ON: +46 (0) 8 712 10 21

