

2022 EXHIBIT
PREVIEW

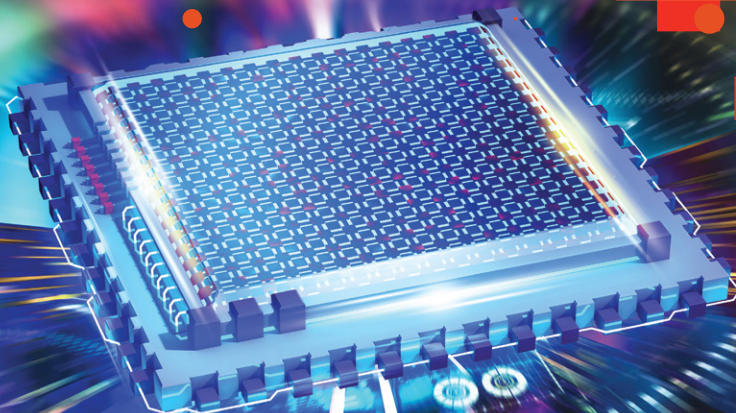
SPIE. PHOTONICS WEST

BiOS Expo: 22-23 January 2022

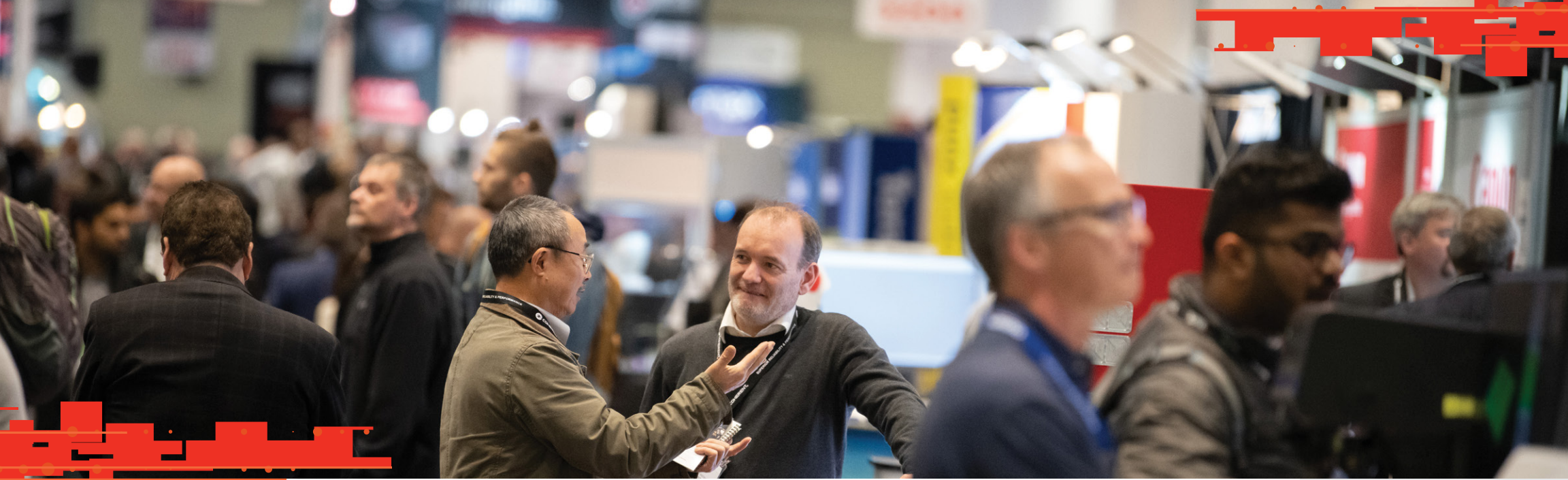
Photonics West Exhibition: 25-27 January 2022

The Moscone Center
San Francisco, California, USA

REGISTER FREE TODAY



spie.org/pw22exh
#photonicswest



Experience the energy of Photonics West

Free exhibition registration gets you access to both shows and so much more.



BIOS Expo • 22-23 January 2022

BIOS Expo is the world's largest biomedical optics and biophotonics exhibition. Find the latest technologies from companies supplying biomedical research and healthcare solutions.

PAGES 2-6



Photonics West Exhibition • 25-27 January 2022

The Photonics West exhibition is the premier photonics and laser event. Find the latest components, devices, and systems for your research or business needs.

PAGES 8-29

Meeting protocols to be aware of



PROOF OF VACCINATION

Everyone will be required to show proof of COVID-19 vaccination.



MASKS WILL BE REQUIRED

Everyone will be required to wear a face covering in all indoor spaces.



COVID-19 TESTING AVAILABLE

Testing will be available for travel or other needs at the convention center for a fee.

Read more online: spie.org/pw22exh

Product demonstrations

Attend overviews of the latest products and processes from exhibitors. Find the schedule online.

Industry program

Get the latest business insights at 25 sessions on healthcare, lasers in manufacturing, micro-LEDs and displays, sensing and autonomous vehicles, photonics for net zero, and market updates.

Quantum West program

One day only • 26 January 2022
Explore the role that photonics plays as quantum technology moves from R&D to engineering products for the commercial marketplace.

Startup Challenge • 25 January 2022

Hear pitches from the best entrepreneurs showcasing their ability to move photonics technology to the global marketplace. The top pitch presenter will go home with \$10,000 in cash.

Job Fair • 25-26 January 2022

Take advantage of this opportunity to hone interviewing skills and connect with potential employers hiring engineers and scientists.



Educational courses

Receive live instruction directly from an expert and join a group of your peers with similar goals and challenges. Choose from more than 40 options on topics such as AR/VR, optical system design, biophotonics, quantum, basic optics and more.

Courses priced separately.

Register Free Today: spie.org/pw22exh

SPIE. PHOTONICS WEST



BiOS Expo

170 Companies

Saturday 12:00 PM to 6:00 PM
 Sunday 10:00 AM to 4:00 PM

Your free exhibition registration puts you face-to-face with these companies and featured new products

- Discuss your needs with industry-leading companies
- See companies debut their new products
- Meet all your suppliers in person in just two days

FEATURED TECHNOLOGIES

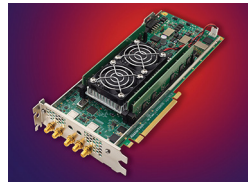
- Biomedical Optics Components, Products, Instrumentation, and Applications
- Lasers
- Molecular Imaging
- Therapeutic Lasers
- Nano/Biophotonics
- Biosensors
- Spectroscopic/ Microscopic Imaging

ADOS-tech, UAB. #8039

AFL. #8013

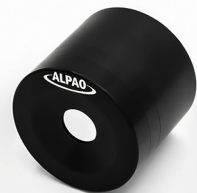
Agile Focus Designs, LLC. #8043

Alazar Technologies, Inc. #8033



ATS9470: High-speed, 4-channel, 14-bit, 1.333 GS/s PCI Express Gen4x16 waveform digitizer (DAQ) card

ALPAO S.A.S. #8114



Deformable Modal Mirror

Altos Photonics, Inc. #8021



Flexible beyond expectations - femtosecond CARBIDE lasers for industrial and scientific applications

Analog Modules, Inc. #8112



New Model 5728A state-of-the-art OEM Capacitor Charging Power Supply for Medical Applications

Andover Corporation. . . #8341

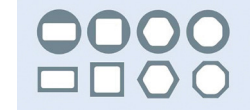
Applied Image, Inc. . . . #8473

Applied Physics & Electronics, Inc. #8152

Applied Scientific Instrumentation, Inc. . . #8464

Applied Surface Technologies #8002

Armadillo SIA. #8359



Optran® UV/WF Non-Circular Core Optical Fibers. Reduce the need for beam shaping optics!

art photonics GmbH. . . #8441

attocube systems Inc. . #8361

Auxora (Shenzhen), Inc. #8004



Auxora integrated passive components can be well applied to 400G, 800G high-speed transceivers.

Avo Photonics, Inc. . . . #8230

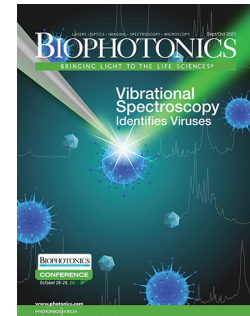
Ayase America Inc. . . . #8137

Bandwidth10 Inc. #8164

Beijing RealLight Technology Co., Ltd. #8238

BG Medical Applications GmbH. #8237

Biophotonics, a Photonics Media publication . . . #8436

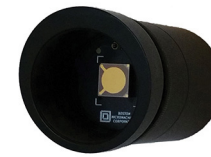


Biophotonics magazine covers the latest in photonics for those in biotechnology and life sciences

Bodkin Design & Engineering, LLC. . . . #8129

Boston Electronics Corp. #8301

Boston Micromachines Corp. #8219



MEMS Grating Modulator for intra- and extra-cavity beam intensity control, pockels cell replacement

Boulder Nonlinear Systems. #8221

Bright Solutions Srl. . . #8141

Calmar Laser #8456



The Mendocino Benchtop with dual 780/1550 nm output is ideal for test and measurement applications

Carl Zeiss Spectroscopy GmbH. #8478

Chip Nanoimaging AS . #8274

Chroma Technology Corp. #8127

Cobolt AB. #8027

Coherent, Inc. #8432

CoolLED #8280

Corning Varioptic Lenses #8336

Cutting Edge Optronics #8461

Cyberdyne, Inc. #8134

DataRay Inc. #8121

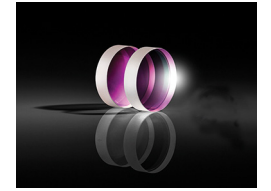


WinCamD-QD—Quantum Dot SWIR Beam Profiler, covers wavelengths 400 to 1700 nm or 350 to 2000 nm

Dotphoton AG #8157

DRS Daylight Solutions #8158

Edmund Optics Inc. . . #8210



Ultra-Broadband Complementary Chirped Mirror Pairs minimize ultrafast group delay dispersion

Electro Optics Magazine. #8016

Energetiq Technology, Inc. #8403

Etaluma, Inc. #8356



Compact, high performance Z-Drive for fine focus and z-stacking with our fluorescence optics modules

EXALOS AG #8109

Excelitas PCO GmbH . . #8103



pco.edge 10 bi CLHS: Lower dark noise at high frame rate—the next level sCMOS

Feinwerkoptik Zünd AG #8458

FEMTOprint SA #8132

Fibertech Optica Inc. . #8226

FORC-Photonics #8469

Fresnel Technologies Inc. #8435

FUJIFILM VisualSonics, Inc. #8239

G&H Group #8231

GF Technology Sdn. Bhd. #8008

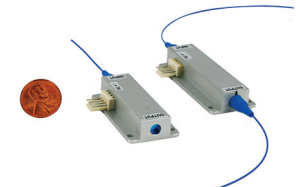
GLOphotonics #8451

- GPD Optoelectronics Corp. #8353
- Grintech GmbH #8460
- GWU-Lasertechnik Vertriebsges.mbH. . . . #8269
- Hamamatsu Corp. #8403



Hamamatsu's new ORCA-Quest quantitative CMOS camera with photon-number resolving capabilities

- HC Photonics Corp. #8268,8269



>5W output power@NIR(e.g. 780nm): PPLN Waveguide Mixer Fibered Wavelength Converter in <16CC housing

- HEIDSTAR CO., LTD. . . #8455
- HighFinesse GmbH. . . #8326



HighFinesse WS8-2 wavemeter: the unsurpassed high-end instrument for wavelength measurements

- HinaLea Imaging. #8012
- HOLO/OR Ltd. #8133
- HOLOEYE Photonics AG. #8466
- HUBNER Photonics . . #8027
- HySpex #8261
- Ibsen Photonics A/S. . #8358



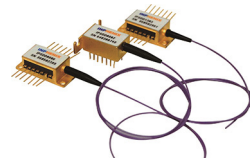
Ultra-compact and cost-efficient PEBBLE VIS-NIR OEM spectrometer

- IMT Precision on Glass #8265
- InnoLas Laser, Inc. . . . #8314
- Innolume GmbH #8122
- Innovative Photonic Solutions #8209



IPS now offers a ultra-power-stable λ -stabilized multimode laser that is ideal for Process Raman

- InPhenix, Inc. #8223



Ultra-Wideband High Power Light Sources in Butterfly Package: Bandwidths > 150nm from 750-1650 nm

- Insight Photonic Solutions, Inc. #8241

- Integrated Optics, UAB #8131

- Iridian Spectral Technologies Ltd. #8216



Iridian's ultra performance EM, EX and Dichroic PCR filters designed for real-time qPCR applications

- Irisiome Solutions #8014
- ISS, Inc. #8474
- Isuzu Glass, Inc. #8113
- J.A. Woollam #8260
- JENOPTIK Optical Systems #8320
- Labsphere, Inc. #8135
- Laser Focus World . . . #8452
- Leonardo Electronics US Inc. #8115
- LEUKOS. #8000

- LIGHT CONVERSION. . #8021



CRONUS-3P—a tunable femtosecond laser source for three-photon microscopy

- Lightel Technologies, Inc. #8475



Lightel makes pump & signal combiners for high power, 2 μ m fiber lasers (other components as well)

- Liquid Instruments . . . #8340

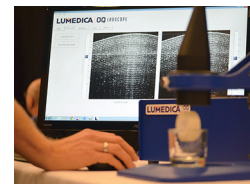
- Litron Lasers Ltd. . . . #8463

- LouwersHanique #8036



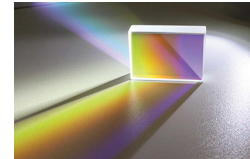
Modular UHV Feedthroughs for LEMO series High Voltage Multicontact Connectors for 4, 7 and 10 pins

- Lumedica, Inc. #8165



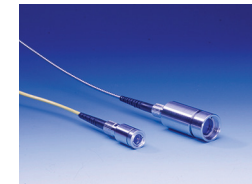
Open new avenues of research with an affordable OCT system at an axial resolution of two microns

- Lumencor, Inc. #8471
- LUMIBIRD #8357
- Luminate #8010
- M Squared Lasers Ltd. #8003
- Mad City Labs., Inc. . . #8227
- Materion Balzers Optics #8333



High-End Linear Variable Filters Allow Making Fluorescence Analysis Devices More Versatile

- Meadowlark Optics, Inc. #8411
- MegaWatt Lasers, Inc. . #8119
- Meopta - optika, s.r.o. . #8120
- Micro Laser Systems, Inc. #8218



Fiber Collimators for the UV region 240nm to 420nm with diffraction limited performance

- Micro Photon Devices . #8316

- MIKROP AG #8264

- MKS Instruments, Inc. . #8215

- MPA Crystal Corp. . . . #8337

- Nanoscribe GmbH & Co. KG #8116



Quantum X shape. Fastest and most accurate 3D printer for rapid prototyping and batch production

- Newport/ A division of MKS Instruments #8215

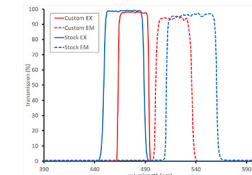
- NKT Photonics Inc. . . . #8201



The SuperK supercontinuum white light lasers deliver high brightness light in the 390-2400 nm range

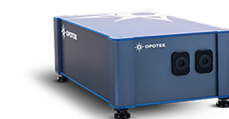
- NoIR Laser Co., L.L.C. #8434
- Ocean Insight. #8212
- OFS. #8365

- Omega Optical, LLC. . . #8026



Maximize signal-to-noise & minimize cost with Omega custom filters. Don't overspec your PCR filters

- OPOTEK #8443



The RADIANT X tunable laser system by OPOTEK. From UV to MIR, your light source solution

- optics.org #8374

- OptiGrate Corp. #8143

- Optikron GmbH. #8440

- Optogama UAB. #8037



Flat top converter unit - motorised solution for a Gaussian beam transformation to a Flat-Top beam

- OptoSigma Corp. #8251



Piezo-Assist Linear Stages—20nm positioning resolution for microscopy, interferometry and more!

- Osela Inc. #8364
- Oxxius SA #8222
- OZ Optics Ltd. #8437

- Pavilion Integration Corp. #8330



OEM High-power Multi-Laser Engine

- Photon Force Ltd. #8006



Single-photon time-resolved cameras, sensors and hardware accelerated processing from Photon Force

- Photonic Cleaning Technologies #8351

- PhotoSound Technologies, Inc. #8057

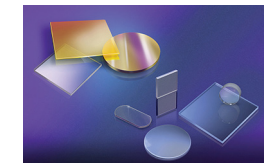
- PI (Physik Instrumente) L.P. #8307



Nano-Focus Stages: New Voice Coils & Piezo Motors for Industry Leading Travel Ranges, Performance

- PicoQuant Photonics North America, Inc. #8314,8315,8316

- Precision Glass & Optics #8450



PG&O Offers Complete Turnkey Optical Solutions, including New Sapphire Optics and Finished IR Optics

- Precision Optics Corp. . #8051

Princeton Infrared Technologies, Inc. #8181



1280BPCam—1280x1024 Extended SWIR camera with 2.1 μm cutoff for laser beam profiling

Prior Scientific Inc. #8233

Prospective Instruments LK OG #8468

QD Laser, Inc. #8381

Quandela. #8316

Quantum Opus, LLC. . . #8316

Reynard Corp. #8150



Gradient filters where custom densities vary the light intensity: Apodizing, Circular, Linear & Step

Santec USA Corp. #8327



Introducing a new 3D Optical Profiler delivering fast and accurate scans with high sensitivity

SCANLAB America, Inc. #8442



dynAXIS 421 galvanometer provides fast and highly precise scanning in biomedical applications

Schäfer + Kirchhoff GmbH. #8409

SmarAct Inc. #8250

Spectra-Physics, a division of MKS Instruments. #8215

SPIE Career Center. . . #8374

SPIE Digital Library . . #8374

SPIE Membership and Community Development #8375

Superlum Diodes Ltd. #8439



BLL Ultra-Compact Broadband fiber coupled light sources with a broad spectrum and a short coherence

Swabian Instruments GmbH. #8017



Time Tagger Ultra is a modern time-to-digital converter ideal for on-the-fly single-photon counting

Teledyne Signal Processing Devices Sweden AB . . . #8136

TELEDYNE #8138

Thorlabs, Inc. #8321



Thorlabs' Ganymede™ OCT systems provide high-resolution, high-speed imaging

TOPTICA Photonics, Inc. #8326

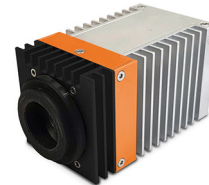


The FF vario 1030 HP is optimized for 2-photon optogenetics. Excite over 200 neurons simultaneously!

VORTRAN Laser Technology. #8256

Wasatch Photonics, Inc. #8240

Xenics NV #8059



Wildcat 1280, the SWIR high performance camera for semiconductor inspection and laser beam analysis

YSL Photonics #8355

Zaber Technologies Inc. #8479

Zurich Instruments USA, Inc. #8151

Zygo Corporation. #8117



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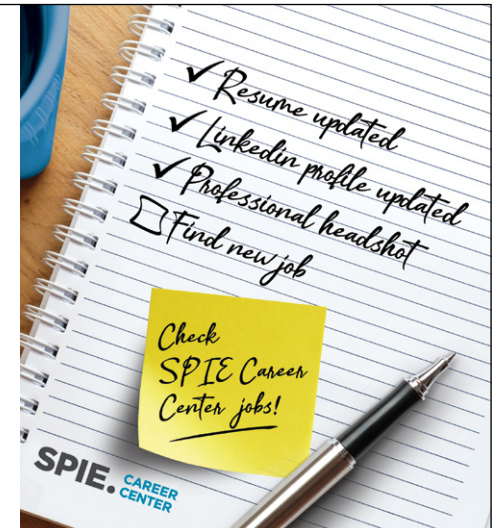


Visit the JOB FAIR at SPIE Photonics West

FREE ADMISSION

Tuesday-Wednesday
10:00 AM-5:00 PM
Moscone West

- Meet in person with hiring companies
- Network with employers and industry peers
- Hand your resume directly to recruiters



SPIE. CAREER CENTER
spiecareercenter.org



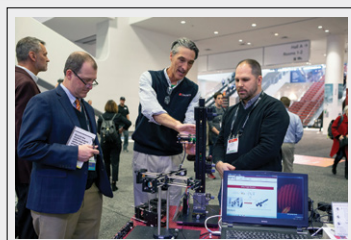
Photonics West Exhibition

1,000 Companies

Tuesday 10:00 AM to 5:00 PM
 Wednesday 10:00 AM to 5:00 PM
 Thursday 10:00 AM to 4:00 PM

Photonics West is the premier photonics and laser exhibition. Find the latest components, devices, and systems for your research or business needs.

- Meet 1:1 with suppliers
- Gain knowledge about new products
- Discuss your requirements in person
- Learn new skills at free seminars
- Produce new ideas based on the experience



FEATURED TECHNOLOGIES

- Lasers and Other Light Sources
- Laser Accessories
- Laser Systems
- Cameras and CCD Components
- Fiber Optic Components, Equipment, Systems
- Optical Components
- Communication
- Optical Detectors
- High Speed Imaging and Sensing
- Optical Materials and Substrates
- IR Sources and Detectors
- Electronic Imaging Components
- Optical Coatings
- Lenses and Filters
- Positions and Mounts
- Metrology
- Software for design and simulation
- Spectroscopic/ Microscopic Imaging

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- 2b-special GmbH#5314
- 3D AG.#5136
- 3D MicroPrint GmbH . .#4013
- 3photon.#1962
- 3SAE Technologies, Inc.#4943
- 4D Technology Corp.. #2049
- 4JET Laser Technologies LLC.#1958
- AA OPTO-ELECTRONIC.#1259
- Abrisa Technologies, A Member of HEF Photonics#1933

ADE, Inc.#1765




Crystalair® Compression Packs - Designed to protect extremely fragile and shock sensitive products

ADIT Electron Tubes . . #1367

AdIOptica Optical Systems GmbH.#1737

Admesy B.V.#5216



Admesy's Neo Series is an accurate, versatile and robust spectroradiometer for high-end applications

ADOS-tech, UAB. #866

AdTech Ceramics Co.. #1764

AdTech Photonics, Inc. #1757

AdValue Photonics, Inc.#5016

Advance Reproductions Corp.#1564

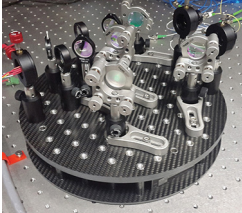
Advanced Cooling Technologies, Inc. #3365

Advanced Fiber Resources (Zhuhai) Ltd.#3274



It has the highest power handling capacity in the market at this wavelength range

Advanced Photonic Sciences, LLC. #3367



Custom open-design Optical Breadboard in stiff, lightweight, low-CTE in 3D, vacuum-fit CFRP material

Advanced Photonix . . . #537



New! World's Only Extended Visible InGaAs Position Sensitive Detectors (PSDs) from 450 nm -1700 nm

AdvR, Inc.#3464



Photon pair source for Type O(GHz/mW) and Type II(MHz/mW) interactions-New timing compensated option

Aehr Test Systems . . . #2130

AEMtec GmbH.#4013

Aerotech, Inc.#1627



Aerotech's HEX150 Miniature Hexapod has superior positioning resolution & payload capacity

AFL.#3013

AG Optics Co., Ltd. . . . #1862

AGC Inc.#3289

Agilent Technologies, Inc.#1226

AGM Container Controls, Inc.#548

AIM INFRAROT-MODULE GmbH.#4638

AIM Micro Systems GmbH.#4013

AIM Photonics#233



Index Matched Indium Tin Oxide Coating (IMITO): Anti-fogging, Heating, EMI Shielding & Edge Filters

ABTech, Inc.#3369

AC Photonics, Inc.#5425

Access Laser Co.#339

AccuCoat Inc.#231

Accumold#2443

Accurion, Inc.#2131

Active Fiber Systems GmbH.#3175



Ultrafast™ Laser Product Line—up to 3mJ, 300W, 150fs (further post-compression available), 1950nm

Active Optical Systems, LLC#2231

Aistana Inc. #3475
 AIXEMTEC GmbH #4013
 Ajile Light Industries
 Inc. #4417

AKA Optics SAS #3002

Alazar Technologies,
 Inc. #3033



ATS9470: High-speed, 4-channel, 14-bit, 1.333 GS/s PCI Express Gen4x16 waveform digitizer (DAQ) card

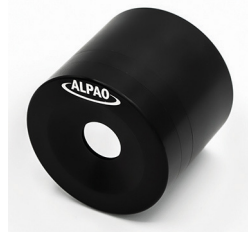
Albis Optoelectronics
 AG. #4219

ALIO Industries Corp. #2034

Allied Vision
 Technologies #126

Alluxa, Inc. #4640

ALPAO S.A.S. #1554

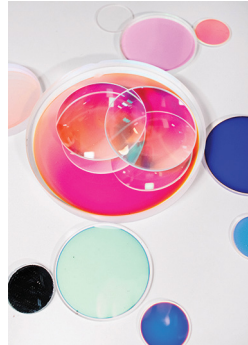


Deformable Modal Mirror

ALPhANOV. #1259

ALPHA-RLH #1259

Alpine Research
 Optics #1930



ARO offers IBS, Magnetron Sputtering, E-beam and Ion Assisted Deposition coating technologies

Altechna #5129
 Altos Photonics, Inc. . . . #637



CRONUS-3P—a tunable femtosecond laser source for three-photon microscopy

AMEC Corporation
 Machining #4323

American Ctr. for Optics
 Manufacturing, Inc. #200

AMETEK, Inc. #1639

Amplification Technologies,
 Inc. #2550

Amplitude Laser Group #1249

Analog Devices, Inc. . . . #3139

Analog Modules, Inc. . #3432



New Model 5728A state-of-the-art OEM Capacitor Charging Power Supply for Medical Applications

Andor Technology Ltd. #1133

Andover Corporation. . #3341

Anson Optical Products
 Co., Ltd. #1800

ANSYS, Inc. #4411

Aperture Optical Sciences
 Inc. #4330

Apollo Optical Systems,
 Inc. #4738

Applied Image, Inc. . . . #227

Applied Optics Ctr.,
 a Div. of Optex Systems,
 Inc. #5132

Applied Physics &
 Electronics, Inc. #3165

Applied Surface
 Technologies #4900

Apree Instruments, Inc. . #565
 Archer OpTx, Inc. #1657

Argyle International,
 Inc. #1864

Arizona Optical Metrology
 LLC #2059

Arizona Thin Films #560

Armadillo SIA. #3359



NEW Concentric Multi-Core Optical Fibers. Excellent High Power Fiber Laser Solution!

Arroyo Instruments,
 LLC #4523

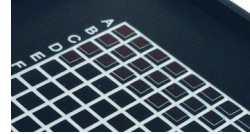
art photonics GmbH. . #3441

Artray Co. Ltd. #3288

ASM AMICRA
 Microtechnologies
 GmbH. #1065

Aspen Systems, Inc. . . #3065

Asphera, Inc. #4514



Ultra-Thin (100µm) LiF Windows (2mm x 2mm)—AR Coating @532nm

ATIK Cameras Ltd. . . . #365

ATL Lasertechnik
 GmbH. #5631

attocube systems Inc. #4428

AUREA Technology . . #3170

Auxora (Shenzhen),
 Inc. #3004

AVAGO Technologies
 GmbH. #4013

Aval Data
 Corporation #3024



AHS-003VIR is a push-broom hyperspectral camera with Sony IMX991 sensor and in 450nm - 1700nm range

Avantes, Inc. #549

Avo Photonics, Inc. . . #3230

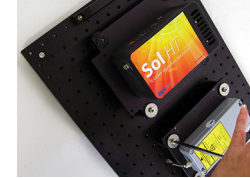
Axetris. #4215

Axiom Optics. #437

Axsun Technologies. . . #1148

Ayase America Inc. . . . #3137

B&W Tek #3322



Fully customize your own spectrometer system, using our unique OEM Setup, and Discover-It-Yourself!

BAE Systems Sensor
 Solutions #5408

Baikowski International
 Corp. #3037

Bandwidth10 Inc. . . . #4005

Basler Inc. #454



For the best camera-sensor performance, Gpixel sensors fit seamlessly into Basler's ace 2 models

BaySpec, Inc. #3333

BEAM Engineering For
 Advanced Measurements
 Co. #1956

Behlke Power Electronics
 LLC #4639

Beijing RealLight
 Technology Co., Ltd. . #3238

Benchmark
 Technologies #3074

Berkeley Nucleonics
 Corp. #4317

Berkshire Photonics . . #3457

BKtel photonics. #338

Blue Sky Research . . . #334

BluGlass, Ltd. #5233

BMF #4543



Micro 3D printed parts printed in AL Ceramic material

BMV Optical Technologies
 Inc. #4222

Bodkin Design &
 Engineering, LLC. . . . #767

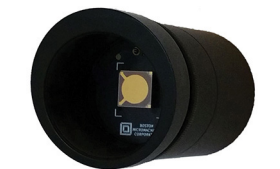
Boowon Optical
 Co., Ltd. #669



Best digital eye of the world

Boston Electronics
 Corp. #3301,3403

Boston Micromachines
 Corp. #3219

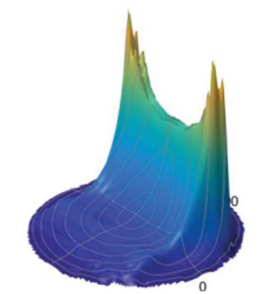


MEMS Grating Modulator for intra- and extra-cavity beam intensity control and laser communication

Bridger Photonics, Inc. #3217

Bright Solutions Srl. . . #443

BrightView Technologies,
 Inc. #1960



BrightView Beam Shaping MLAs offer controlled FoV for Flash LiDAR, HUD and machine vision solutions

Brimrose Corp. of
 America. #1830

Bristol Instruments, Inc. #228

Bruker Nano, Inc. #3361

Bühler Inc. #2243

Business France. . . . #1159

C2MI. #4323

Caeleste #3259



Caeleste a turn-key supplier of high-end, beyond state-of-the-art CMOS image sensors

CAILabs. #4519

Calin Technology Co.,
 Ltd. #4338

Calmar Laser #3456

Canadian Photonic Industry
 Consortium. #4415

Canon U.S.A.,
 Inc. #2236,2239

Carl Zeiss Jena GmbH #3478

Carl Zeiss Spectroscopy
 GmbH. #3478

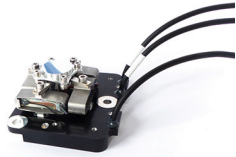
CASIX, Inc. #1467

CASTECH Inc. #4722

CDA GmbH. #4919

CEA-Leti #1159

CEDRAT TECHNOLOGIES SA.....#3091



The piezo fast steering mirror P-FSM150S-SG product for optical com on board new space satellite.

Chongqing Zhaohong Technology Co., Ltd. . . #1761



ZHT specialized in technical sapphire and ruby components with high precision since 2004

Chroma Technology Corp.#3127

Chromacity Ltd.....#5013

Cimcoop Holding Ltd. . #5133

CiS Forschungsinstitut für Mikrosensorik GmbH . #4013

Citrogene, Inc..... #5307

Clark-MXR Inc.....#4107

Class 5 Photonics GmbH.....#4429

Clear Align #2039



Identify, track & handoff, with smart sensors that enable responses at a speed only AI can provide

CMC Electronics #4323

CMC Microsystems....#4415

CMOS Sensor Inc..... #4306



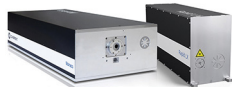
Biometric Optical Fingerprint Sensor; Fast precise authentication; For under display OLED application

CNI Laser #3355

Coastal Connections . #2544

Cobolt #3027

Coherent, Inc..... #4805



New Monaco UV & Rapid LX USP lasers lower HAZ & improve OLED processing & brittle material cutting

Collimated Holes, Inc. . #1655

Colorado Photonics Industry Association..... #2035

Colorado Thin Films, Inc.#2133

Comptek Solutions.... #5319

Conex Systems Technology, Inc.#4724

Connected Fibers, LLC#3357



1CURE-VI touch screen programmable curing oven with ramp/soak for all fiber optic applications

Contour Metrological & Manufacturing, Inc.....#2150

Coractive..... #965

Coresix Precision Glass, Inc.#2135

Corning Incorporated . #1835

Covesion Ltd.....#3051



High power, fiber-coupled waveguide package for maximum SHG conversion efficiency at 1540-60nm

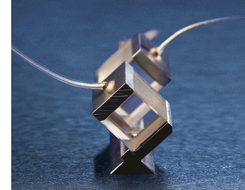
CPS Technologies Corp.#4740

CREOL, The College of Optics and Photonics, Univ. of Central Florida . . . #1948

Crestec Corporation. . #3385

CrestOptics S.p.A. . . . #4108

Cristal Laser S.A.....#437



We introduce RTP E-O modulators for quantum physics with high repetition rate, low loss around 800nm

Critical Link, LLC.....#256



Critical Link designs sensor evaluation kits for an array of CMOS sensors from Canon, ams, & others

Crosslight Software Inc.#4419

CryLaS GmbH#4013

Crystal GmbH #4429

Crystal Optics Inc. . . . #3278

CRYTUR USA.....#1556

CSEM SA..... #4520

Cubert GmbH.....#4013

Cutting Edge Optronics#1549

Cybel LLC.....#5219

Cyberdyne, Inc.....#3138

Cycle GmbH #3161

Cymatix, Inc.....#3371

Daco Instruments . . . #3082

Daniel F Crews, LLC . . #2030

Dark Field Technologies#1668

DATA PIXEL#3357

DataRay Inc..... #3121



WinCamD-QD—Quantum Dot SWIR Beam Profiler, covers wavelengths 400 to 1700 nm or 350 to 2000 nm

DCM Tech, Corp. #3368

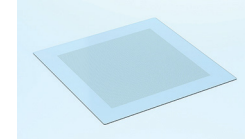
Dedo Weigert Film GmbH..... #4733



Lighting for high speed video

DEEPLIGHT SA #5512

DELO Industrial Adhesives, LLC.....#4128



DELO KATIOBOND OM6113 for the replication of MLAs and bonding of multiple glass wafers in a stack

DELTA TEC..... #4209

Deltronic Crystal Industries, Inc.#4614

DEMCON Focal B.V. . . . #463

DenseLight Semiconductors Pte. Ltd.....#5145

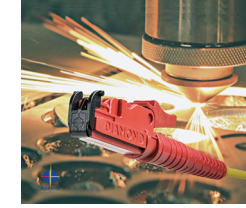
Denton Vacuum Inc....#1866

DeUve Photonics#567

DFM A/S#1465

Diamond Coatings, Inc. #657

Diamond USA Inc.... #3075



Diamond offers dedicated connectors that support higher optical power up to 16W on singlemode fiber

DIOPTIC GmbH #4736



ARGOS matrix 200—The new industry standard for automated scratch-dig inspection

Direct Machining Control.#1860



DMC is the software for the laser machine control, now introducing modules for 5axis systems too

DITECT Corporation. . #4733



DITECT is a specialist in high-speed imaging and analyzing

Diverse Optics Inc. . . . #1758

Docter Optics, Inc. . . . #364

Dominar, Inc. #1804

dopa Entwicklungsgesellschaft für..... #4013

Doric Lenses Inc..... #4323

Dover Motion #4006



SmartStage™ XY: Precision linear stage with ALL electronics inside

DOWA Electronics Materials Co., Ltd..... #3284

DPSS Lasers Inc. #868

DRS Daylight Solutions #3158

Dutch United Instruments #463

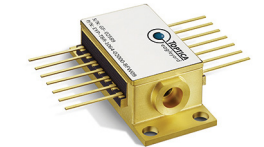
Dynamic Optics S.r.l. . #3437



Converge: Plug and Play Adaptive Optics with just one button for your microscope (WFS not required)

DynaVac #2129

eagleyard Photonics GmbH.....#4713



μMOPA: 2 Watt monolithically integrated 1064nm frequency stabilized (DBR) Tapered Laser

Ealing Catalog #4923

East Tender Optoelectronics Corp.#4131

Edmund Optics Inc. . . #1139



TECHSPEC® Cw Series Fixed Focal Length Lenses withstand harsh spray downs and 1 meter of water (30s)

Egide USA Inc. #1067



High Temperature Cofired Ceramic (HTCC) for complex micro-electronic and opto-electronic designs

Eidetic Optical Systems. #761

EKSMA Optics #637



Timing generator TG10 for laser components synchronization with timing resolution down to 25 psec

EKSPLA #637



Introducing FemtoLux30— industrial 30 W femtosecond laser requiring zero maintenance

El.En. S.p.A. #4936

ELDIM #1259

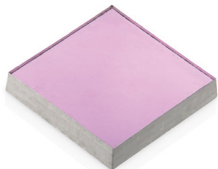
ELE Optics #560

Electro Optical Components, Inc. #4828

Electro Optical Industries, Inc. #3487

Electro Optics #2052

Element Six Technologies U.S. Corp. #3174



Element Six's DNV-B14™, the next generation of CVD diamond for a wide range of quantum applications

EIFys Inc #5319



EIFys SM Product line offers superior photosensitivity at Green, Red, NIR and compact SMD packaging.

Elmo Motion Control Inc. #2137

Emberion Oy #5319



EMBERION VS20 wide spectral band (400-2000nm) high dynamic range VIS-SWIR infrared camera

EMF Corp. #2148,248



EMF's custom-designed DLC chamber eliminates pinholes, uniformity, stress, and adhesion in coatings

Empire West, Inc. . . . #5000

Energetiq Technology, Inc. #1227

Engis Corp. #148

EOTRON, LLC #5310

EPIC Electronics & Photonics Innovation Ctr. #5400

EPIC-European Photonics Industry Consortium . . #5301

EPIGAP Optronic GmbH. #4429

Epileds Technologies, Inc. #4337

EPIX, Inc. #3435

Epner Technology Inc. #3028

Epolin, Inc. #5627

Esco Optics, Inc. #4228

Eulitha AG #5604

Evaporated Coatings, Inc. #2043

Evatec NA Inc. #1966

EXALOS AG #3109

Excelitas PCO GmbH . #3103



pco.edge 26 CLHS - High-speed and high-resolution streaming at up to 4.9 GByte/s

Excelitas Technologies Corp. #1148



Excelitas NEW Generation 2 905 nm Pulsed Laser Diodes extend the range of your LiDAR innovation

EXFO Inc. #4323

Exotech, Inc. #3157

FANUC America Corp. #5329

Fastlite. #437

FBGS Technologies GmbH. #4516



FBGS' SHAPE-scan is a user-friendly spectrometer-based interrogator to measure shape and curvature

Femtika UAB #3338

Femto Easy. #1159

FemtoFiberTec GmbH #4429

FEMTOprint SA #3132

Femtum inc. #4323

Ferrotec (USA) Corp. #1666,1667

Fiber Optic Ctr., Inc. . . #3164

Fibercore Ltd. #4843

Fiberoptic Systems, Inc. #1369

Fiberoptics Technology, Inc. #4834

FIBERPRO, Inc. #3122



Auto Alignment & Bonding System 'IFA-600'

Fibertech Optica Inc. . #3226

ficonTEC Service GmbH. #4305

Finetech #4522



The Lambda 2 die bonder sets new standards in precision die attach & packaging for photonic devices

Finland Pavilion #5319

First Light Imaging. . . #1259

FISBA AG #757



FISBA provides optical solutions perfectly suited to customer's needs

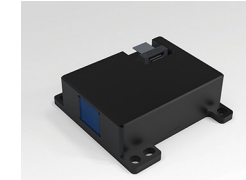
FiveNine Optics. #2033

FJW Optical Systems, Inc. #3120

Florida Photonics Cluster. #1950

Fluence sp. z o.o #2227

Focuslight Technologies, Inc. #1059



Line Laser Tx LE02 Pro serves as laser source of a beam steering LiDAR system, peak power up to 700W

FOGALE nanotech . . . #1159

Forth Dimension Displays Ltd. #5123

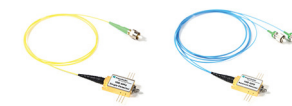
Forward Photonics, LLC . . #4518

Fotofab, LLC. #1563

France Pavilion . . #1159,1259

Fraunhofer FEP #4229

Fraunhofer Heinrich-Hertz-Institut (HHI) #4429



Fraunhofer HHI provides 100 GHz single and balanced photodetector modules (from O- to L-Band)

Fraunhofer Institute for Laser Technology ILT. #4429

Fraunhofer Institute for Production Technology IPT #4429

Fraunhofer Institute for Reliability and Microintegration IZM . #4429

Fraunhofer UK Research Ltd. #5123

Fraunhofer-Institut für Angewandte Optik und Feinmechanik IOF. . . . #4429

Fraunhofer-Institut für Siliziumtechnologie ISIT #2154

Freedom Photonics, LLC #5404

Fresnel Technologies Inc. #162

FresnelFactory Inc. . . . #5519

Fuzhou Alpha Optics Co., Ltd. #4830

G&H Group #949



The PDR allows for high image quality in phase sensitive OCT and eliminates polarization fading

G5 Infrared, LLC #204

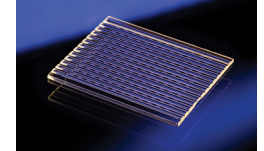
Gamma Scientific . . . #2267



SpectralLED RS-7-NextGen tunable light source - smaller, lighter, and mountable in VIS, NIR and SWIR

Gavish, Inc. #2349

GD Optical Competence GmbH. #4013



Microlens array with 576 individual lenses for datacom applications. Diameter of the lenses: 250 µm

Gel-Pak #1459



Gel-Pak Vertex Textured Film/ Device Carriers

General Dynamics Mission Systems. #966

Gentec Electro-Optics Inc. #1649



The fastest high-power detector on the market: measure up to 1000 W with less than 0.2 s risetime

German Pavilion #4013,4429

GF Technology Sdn. Bhd. #3159

Gigahertz-Optik Inc... #5504



BTS2048 Series BiTec Sensor Spectroradiometers for fast absolute spectral measurements from UV to IR

Gigajot Technology Inc. #459

Glass Fab, Inc. #3032

Glassomer..... #3135

Glenair, Inc..... #3442

Global Superabrasives. #560

GLOphotonics #1159

GPD Optoelectronics Corp. #3353

Gpixel Inc..... #366

greateyes GmbH #4429

Greenlight Optics, LLC #4310



Custom Plastic Optical Systems Design and Manufacturing

Grintech GmbH #3460

GS Plastic Optics..... #1831



Precision Polymer Optics—First-time quality and on-time delivery

GTAT Corp..... #4442

Guernsey Coating Labs., Inc. #3152

Gurley Precision Instruments, Inc. #235



GPI offers a variety of high quality optical materials, components & coatings at competitive costs

GWU-Lasertechnik... #4718

Haas Laser Technologies, Inc. #4106

Hamamatsu Corp..... #1227

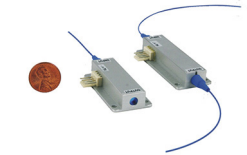


Hamamatsu's new and ultrafast quantum cascade detector with over 20GHz response and MIR sensitivity

Hardin Optical Co. ... #3350

Hauser Optik #4013

HC Photonics Corp. ... #4718



>5W output power@NIR (e.g. 780nm): PPLN Waveguide Mixer Fibered Wavelength Converter in KD*P Crystal for EOM & Q-Switch: High deuteration >98%. Crystal growth. Full processing capability

Headwall Photonics, Inc. #5009

Heidelberg Instruments Inc. #4620

HEIDENHAIN CORPORATION..... #3269

Hellenic Photonics Cluster #2132



HPhos, the first cluster of innovative enterprises active in diverse areas of Photonics in Greece

Hellma Materials GmbH..... #1732



Germanium and Silicon blanks of superior optical quality and in customer-specific complex shapes

heracle GmbH #4213

Heraeus Quartz North America LLC..... #665

Hermetic Solutions Group, LLC..... #2166

HighFinesse GmbH... #4721



HighFinesse Linewidth Analyzer: the ultra-low noise analyzer to measure and control laser noise

HILLTOP Technology Lab., Inc. #2058

Himax IGI Precision Ltd..... #5137

HinaLea Imaging #3328

Hind High Vacuum Co. Pvt. Ltd..... #5411

Hinds Instruments, Inc. #330



New Birefringence Measurement System for Small Glass Samples with Retardation Sensitivity to 0.001nm

Hitachi High-Tech America, Inc. #3085

Hitronics Technologies Inc. #5304

Holland Pavilion. #5204,5205

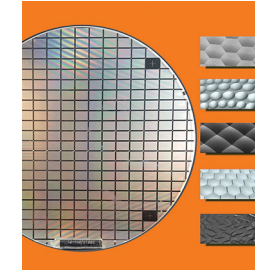
HOLO/OR Ltd..... #3133



Flexishaper™-an adjustable ring-to-spot ratio control diffractive shaping solution applicable, SM/MM

HOLOEYE Photonics AG..... #863

Holographix LLC #5034



High Quality Custom Wafer-Level Manufacturing

HORIBA Scientific #1726,1727



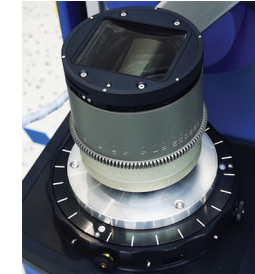
Syilent™ Scientific CMOS Uncooled Camera - 4.2 megapixel, ultra-compact, back-illuminated camera

HOYA Corp. USA..... #1853

Huanic Corp. #4328

HUBNER Photonics ... #3027

Hyperion Optics USA Inc. #1857



Anamorphic Lens for Cinematography - custom designed for your unique theatrical & imaging experience

HySpex #3261

Ibsen Photonics A/S. . #3358



Ultra-compact and cost-efficient PEBBLE VIS-NIR OEM spectrometer

ID Quantique SA #4223

IDS Imaging Development Systems Inc..... #2240



Embedded Vision / IDS NXT ocean Creative Kit / grab, label, train, run AI without prior knowledge

IKO International, Inc. #4329

ilis gmbh #756

Image Engineering #549

Imagine Optic SA #437

Imatest LLC #3340

imec #4405

IMM Photonics GmbH #4429

ImmerVision..... #3141

IMPhotonix #3008

IMRA America, Inc..... #941

IMT Precision on Glass #3265

Incom, Inc. #5037

Indium Corp..... #3179

Infinite Optics Inc..... #140

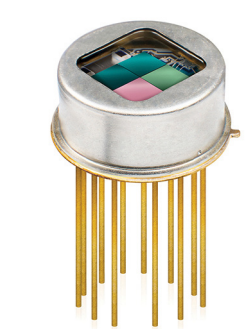
InfraRed Associates, Inc. #4544



Infrared Associates, Inc. is now offering the new Ricor K508C cooler which offers an absolute warranty of 2 years and a MTTF > 16,000 hours

Infrared Materials, Inc. #4938

InfraTec Infrared LLC . #5305



The Pyroelectric Detector Goes Digital - Reaching the Goal More Quickly with Less Effort

INGENERIC GmbH #4124

Inkron Oy #5319

Inlight Precision Optics Co., Ltd..... #5018

InnoLAS Laser, Inc..... #3314

Innolume GmbH #2244

inno-spec GmbH..... #4013

Innov Wire Technology, Inc. #2139

Innovations in Optics, Inc. #1755

Innovative Photonic Solutions..... #3209



IPS now offers a ultra-power-stable λ-stabilized multimode laser that is ideal for Process Raman

INO #4423

InPhenix, Inc. #3223



Narrow Linewidth Lasers < 100kHz, SMSR > 45dB, Chip Arrays 4 & 8, Wavelengths: 1310/1518/1550/1653nm

Inrad Optics #962

Insaco Inc..... #146

Insight Photonic Solutions, Inc. #3241

Institute of Physics of the CAS, v.v.i. #4645
Instrument Systems . . . #4013



VTC 4000 for fast 2D near-field analysis of VCSEL arrays with the highest degree of accuracy

Integrated Optics #338

Interfiber Analysis. . . . #3026

International Light Technologies, Inc. #2548

International Optoelectronics, LLC . . . #457



KD*P Crystal for EOM & Q-Switch: High deuteration >98%. Crystal growth. Full processing capability

International OptoIndex. #3236

InterOptics, LLC #1463

Intlvac Thin Film #2026

IPG Photonics Corp. #1427

IQE #5405

Iradion Laser, Inc. #4743



Infinity HS 9.3 μm Laser achieves fast rise/fall times > 50 useconds and excellent power stability

IRD Glass. #4204

IRflex Corporation #5221

Iridian Spectral Technologies Ltd. #3239

Irisiome Solutions #3014

Isomet Corp. #2449

ISS, Inc. #5337

Isuzu Glass, Inc. #3113

ITF Technologies Inc. . . #3251

iXblue. #4929

J.A. Woollam #4635

Japan Pavilion #3379

JAYCO Cleaning Technologies #867

JENOPTIK Optical Systems #1040

JePPIX #5301

JML Optical Industries, LLC #259

JST Manufacturing, Inc. #4344

Jüke Systemtechnik GmbH. #4013

K2 Photonics #3156

Kaoyu International Co. #3078

Kentek Corp. #3088

Kern Technologies, LLC #4731



Kern Technologies - KT650 - 650 Watt CO₂ Laser

Keyence Corp. of America. #3336

Keynote Photonics #358

Kiyohara Optics Inc. . . #3278

KLA Corp. #2066

Kogakugiken Corp. . . . #3281

Konica Minolta Sensing Americas, Inc. #3287

Korea Pavilion (KAPID). #5437

Korea Pavilion (KOTRA) #5519

Kugler of America Ltd. #4832

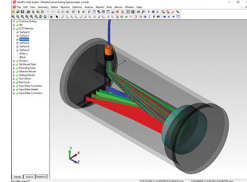
Kyocera International, Inc. #4314

L3Harris Technologies, Inc. #763

Labsphere, Inc. #2427

LaCroix Precision Optics #1464

Lambda Research Corp. #2145



Lambda Research Corporation proudly announces the newest release of TracePro, TracePro 2022

Lambda Research Optics, Inc. #1164



Thermal Imaging Optics. Conventionally Polished Large Visible & IR optics up to Ø 400mm

Lambert Instruments B.V. #2067



Stamina, a multi camera high-speed image recording solution offering long term streaming to disk

Larsen Equipment Design, Inc. #3000

Lasea #4517

Laser Components USA, Inc. #848

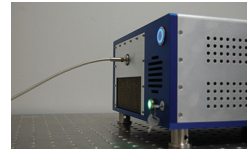
Laser Focus World . . . #3452

Laser Materials Corp. . . #1562

Laser Mechanisms, Inc. #2127

Laser Research Optics. #1461

Laser Space #269



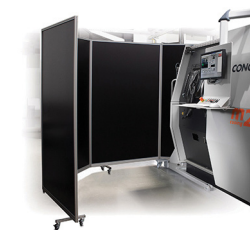
High power, integrated, turn-key, wavelength tunable fiber coupled diode laser system

Laserline Inc. #2232

Lasermet Ltd. #5013

LaserPlus LLC #5318

Laservision USA #1558

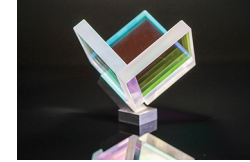


Portable, foldable laser safety barriers built with versatility in mind

Lattice Electro Optics, Inc. #353

Lattice Materials LLC . . #1563

LAYERTEC GmbH. . . . #4439



Customized assemblies (bonded, glued or laser welded)

LayTec AG. #549

LC-Tec Displays AB. . . . #4617

Le Verre Fluoré #3079

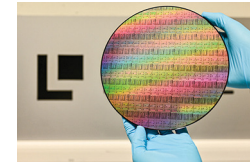
LEC GmbH #4429

Leonardo Electronics US Inc. #557

LEONI Fiber Optics, Inc. #1455

LEUKOS. #3071

LIGENEC SA. #4319



LIGENEC offers high volume fabrication in addition to MPW and pilot runs on 200mm wafer

LIGHT CONVERSION . . #637



Flexible beyond expectations - femtosecond CARBIDE lasers for industrial and scientific applications

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LightComm Technology Co., Ltd. #4629



Lightcomm offers High Power pump combiner for fiber laser application, with Nx1 and N+1x1 structure

Lightel Technologies, Inc. #2143



Lightel makes reverse pump combiners with 3-4kW power & < 0.2dB IL, and other components as well

LightGuideOptics USA, LLC. #2134

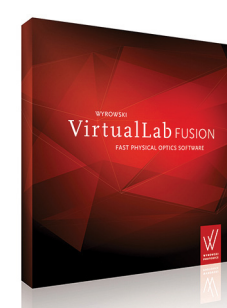
Lighthouse Photonics, Inc. #5529

LightMachinery Inc. . . #5029

LightPath Technologies, Inc. #3420

Lightspeed Technologies, Inc. #5514

LightTrans International GmbH. #4429



Latest Release of Fast Physical Optics Software "VirtualLab Fusion"—Solution-Driven Applications

Lingbao Shenghe Optical Glass Material Co., Ltd. #5623

LioniX International . . #5204

LIPAC Co., Ltd. #5519

Liquid Instruments . . . #4836

Litilit #1768



Indylit10 - next generation 10W-class femtosecond laser for medical and industrial applications

Litron Lasers Ltd. #1704

Logitech Ltd. #5134

Louwers Hanique #5215

Luceda Photonics. . . . #4318

Lucid Vision Labs., Inc. . #137

Lumencor, Inc. #133

LumenFlow Corp. #3022

Lumentum #1449

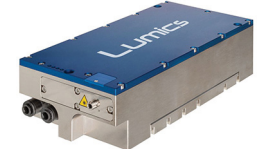


Lumentum 10W flood illuminators: the highest consumer-grade optical peak power w/built-in eye safety

Lumetrics, Inc. #260

LUMIBIRD #833

Lumics GmbH . . . #3210,4013

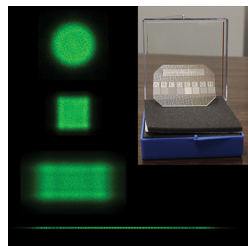


New high-power 670nm LuOcean™ M4 module - direct diode up to 68W output ex fiber with OEM driver

Lumina Power, Inc. . . . #5109

Luminate #3010

Luminit LLC #4320



Luminit offers square, circle, rectangular, and linear shaped flat top diffusers at various angles

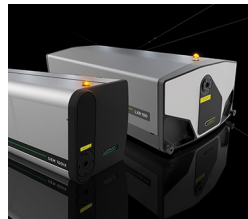
Luna Innovations Inc.. #4937

Luoyang Silicon Electronics Co., Ltd.....#2104

Luvantix SSCP.....#1756

LUXIC..... #3453

Luxinar Inc #5101



LXR 100 & OEM 100IX sealed CO₂ laser sources from Luxinar for industrial processing applications

Luxottica #4512

LVI Technologies Inc.. #3463

M Squared Lasers Ltd. #3003

Mad City Labs., Inc. ... #3227

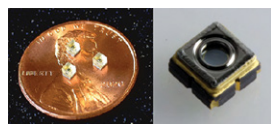
Mahr #357

MantiSpectra #5201

Manutech USD..... #1159

Market Tech, Inc..... #4923

Marktech Optoelectronics.....#252



Marktech Optoelectronics introduces chip-scale packaged SWIR LEDs and hermetic SMD ATLAS packaging

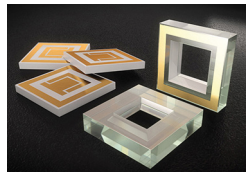
Marposh Corp.....#1856

Marubeni America Corp. #3190

Masimo Semiconductor #1868

Materion Advanced Materials #2158

Materion Balzers Optics #1359



CupLids Cavity Windows - Space-saving Surface Mount, Fine Leak Hermetic Packages for Optoelectronics

Meadowlark Optics, Inc.#3411

Mecademic Robotics . #4323

MedPhab.....#5301

MegaWatt Lasers, Inc.. #3119

Meller Optics, Inc..... #1461

Menhir Photonics AG .. #3117

Menlo Systems GmbH . #827

Meopta - optika, s.r.o. #2337

Mesa Photonics, LLC . #5033

MESSTEC Power Converter GmbH..... #4429



Precise high power TEC Controller 24A, 46V, low current versions available

Meta Materials Inc. #2161

Micro Laser Systems, Inc. #3218



FC5 & FC10 Fiber Collimators in Fused Silica and Calcium Fluoride versions

MicroAlign..... #5211

Micro Photon Devices . #3316

Micro-Hybrid Electronic GmbH..... #4429



Micro-Hybrid NDIR bundle: kit with prematched IR sources & detectors for fast results in gas analysis

Micro-LAM, Inc..... #2140

MICRONIX USA, LLC . #4823

Micropac Industries, Inc. #5308

Mightex Systems..... #5113

MIKROP AG #3264

Mikrotron GmbH #132



EoSens 21CXP2. 21MP CXP-12 High-Speed Camera 230 full fps to 10,000 + fps reduce ROI

Millennium Optical System Co., Ltd..... #5138

Mindrum Precision, Inc.#1849

Mirada Technologies, Inc. #758

Mirrorcle Technologies, Inc. #4105

Mitutoyo America Corp. #5402

MKS Instruments, Inc. ... #927

ML Optic Corp. #2249



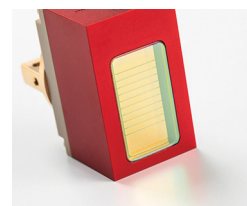
MLOptic provides standard and customized microscope objectives for a wide variety of applications

MLD Technologies, LLC#1852

Modulight Corporation #1941

Molex - Polymicro..... #1662

MONOCROM S.L. #769



Diode laser with solder-free, clamped laser bars, sealed housing and real macro-channels (0.9 mm Ø)

MONTFORT Laser GmbH..... #4934

Moore Nanotechnology Systems, LLC #4829



250UPL-MP Ultra-Precision Diamond Turning System Specifically Engineered for Mold Pin Manufacturers

Moori Technologies Co., Ltd..... #4129

Morphotonics B.V..... #3030

Motion Solutions..... #5117

Moulded Optics GmbH. #4429

MOXTEK, Inc..... #4613

MPA Crystal Corp..... #3337

MPB Communications Inc. #4817

MPF Products, Inc..... #3155

MPS Micro Precision Systems AG..... #2331

MRC Systems GmbH . #3086



MRC presents the new Fast Steering Mirror P2S30 for its Laser Beam Stabilization system

MRSI Systems #5324

Multiphoton Optics GmbH..... #4620

Murata Manufacturing Co., Ltd..... #3380

MVTec, LLC..... #2340

MW Components ... #3474

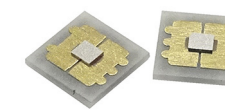
MWTECHNOLOGIES .. #1739

Naked Optics Corp. ... #1967

Nalux Co., Ltd..... #668

Nanomotion Inc. #5309

nanoplus America Inc. #2343



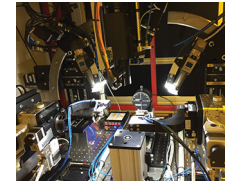
nanoplus presents continuous-wave MIR LEDs at any customized wavelength between 2800 nm and 6500 nm

Nanoscribe GmbH & Co. KG #3114



Redefining microfabrication. Quantum X with new features, e.g. for photonic integration & packaging

nanosystem Inc. #4605



NanoHybrid aligns and assembles optoelectronic parts using laser welding, epoxy gluing and laser soldering

Nanotronics Imaging, Inc. #2259

NASA Space Communications & Navigation #3469

Navitar Inc..... #237

NBK America LLC..... #3275

Necsel #2437

New Imaging Technologies #3187



SenS 1280 - HD (1280x1024px, 10µm) High sensitivity SWIR InGaAs camera

New Scale Technologies, Inc. #241

New Source Technology, LLC..... #5002

New York Photonics... #255

Newport / An MKS Company..... #927

Nichia America Corp... #160

Nikon Metrology, Inc... #2167

NIL Technology ApS . #4539

NINGBO YONGXIN OPTICS CO., LTD..... #2354

Nitto Optical Co., Ltd. #3285

NK&K USA, Inc. #3387

NKT Photonics Inc..... #3201



The SuperK supercontinuum white light lasers deliver high brightness light in the 390-2400 nm range

nLIGHT, Inc. #1557

NLIR..... #3084

NM Laser Products, Inc.#664



Optical Shutter - LST-5V Direct Drive

NoIR..... #3434

Norland Products Inc. . #5115

North American Coating Labs..... #2453

Northrop Grumman SYNOPTICS #1549

- NOTICE Co., Ltd. #5519
- Novanta, Inc. #1349
- NP Photonics, Inc. #568
- NTFL #3471
- NTKJ Co., Ltd. #3386
- NTS Group #5206
- NTT Advanced Technology Corp. #3191
- NTT Electronics Corp. #3290
- NUBURU, Inc. #4406
- Nuvu Cameras Inc. . . . #4414



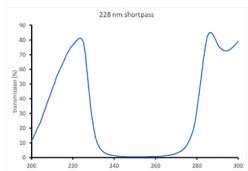
The HNü TDI is the finest CCD camera for high speed and low light industrial scanning applications

- NYFORS #1767
- Obducat Technologies AB. #3268
- Ocean Insight. #1127
- OCTLIGHT ApS. #3016
- OEwaves, Inc. #3466



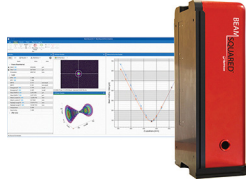
Introducing our 4th Generation Ultra Narrow Linewidth Laser with robust package, and higher power

- OFS. #4505
- Ohara Corp. #1633
- Okamoto Corp. #3455
- O-m6 Technologies Inc. #4323
- Omega Optical Holdings, LLC. #1228



UV (222 nm) short-pass filters for disinfection designed to maximize safe sanitization effects

- Omek Optics Ltd. . . . #3039
- Omicron Laserage Laserprodukte GmbH #4923
- OmniSensing Photonics, LLC #3459
- Ophir / An MKS Company. #927



Laser beam propagation system supporting long Rayleigh range lasers for material processing

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The RADIANT X tunable laser system by OPOTEK. From UV to MIR, your light source solution

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- Optec S.p.A. #3215

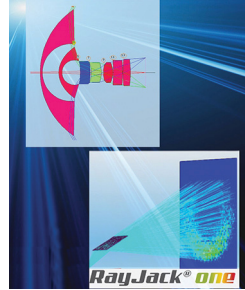


New frontier diffraction limited telescopes for micro and nanosatellites

- OptecNet Deutschland e.V. #4013
- Optical Engines, Inc. . . #2032
- Optical Filter Source, LLC #4104
- Optical Support, Inc. . . #550

- Optikron GmbH #3440
- Optilab LLC #552,556
- Optimax Systems, Inc. . #249
- OptiPro Systems, LLC . #250
- OptiPulse, Inc. #3041
- OPTIX Co. #2054
- Optizone Technology (Shenzhen) Ltd. . . . #4409

- Optical Systems Design, LLC #661



SYNOPTSYS™: powerful optical design tool. Rayjack ONE: non-sequential raytracer for complex analysis

- Optics Valley #558,560
- optics.org #3374
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Precision Electroformed Metal Components and Reflective Surface Finishes

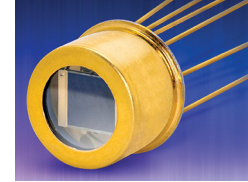
- OptiGrate Corp. #3143
- Optikos Corp. #957



LensCheck™ and OpTest** Thermal Modules Test Lenses Across Temperatures from -40°C* to +120°C

- Optikron GmbH #3440
- Optilab LLC #552,556
- Optimax Systems, Inc. . #249
- OptiPro Systems, LLC . #250
- OptiPulse, Inc. #3041
- OPTIX Co. #2054
- Optizone Technology (Shenzhen) Ltd. . . . #4409

- Opto Diode Corp., An ITW Company. #5105



2-Stage Cooled, 36mm²—Infrared (IR) Detector—BXT2S-68TE for Emissions Monitoring & Process Control

- OPTO Taiwan Pavilion #4340
- Opto-Alignment Technology, Inc. #465
- Optogama UAB. #864
- Optogear Oy #4207
- Opto-Line International, Inc. #3231
- OPTOMAN #4540



OPTOMAN Superhero League mirrors with high LIDT for big & scary femtosecond and picosecond lasers

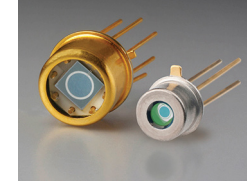
- Optomechanix. #760
- Optometrics Corp. . . . #2148
- Optonetic LLC #1952
- OptoSigma Corp. #427



Piezo-Assist Linear Stages—20nm positioning resolution for microscopy, interferometry and more!

- OptoTech Optical Machinery Inc. #4625
- Optotune Switzerland AG. #3484
- Optowide Technologies Co., Ltd #2226
- Optronic Laboratories, LLC #1955
- OSA #3169

- Osela Inc. #3364
- OSI Optoelectronics, Inc. #537



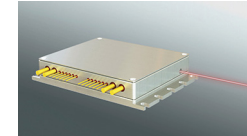
Best-in Class, High Sensitivity, Extended Visible-InGaAs Photodetectors Operate from 450nm - 1700nm

- OXIDE Corporation. . . #3384
- Oxxius SA #3222
- OZ Optics Ltd. #4704
- Pacific Lasertec, LLC . #4315
- Palomar Technologies, Inc. #3178



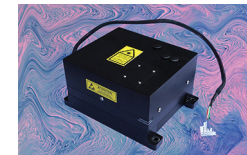
The Palomar 3880-II Die Bonder maximizes productivity and reduces programming time

- Panasonic Corp. #2235
- Panasonic Smart Factory Solutions Co., Ltd. . . . #2237
- Pantec Biosolutions AG. #4436



The FAM technology platform provides single mode & frequency output from (400-5000) nm up to 40 W

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- Partow Technologies LLC #3461
- Pavilion Integration Corp. #3330



Custom Multi-Laser Engine

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- PerkinElmer, Inc. #3112
- Perkins Precision Developments, LLC . . #2037



High Energy Plate Polarizers and Epoxy-free Polarizing Beam Splitter Cubes for Laser Applications

- PFG Precision Optics, Inc. #1928



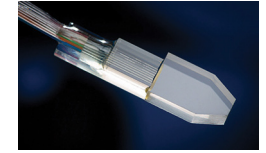
High precision spherical and flat custom optics & durable long lifetime thin film coatings

- Phabulous. #5301
- Phaseform GmbH #4429
- PHASICS Corp. #3270



Kaleo MTF: Automated MTF and wavefront error measurement station for complex high GRA lenses

- PHIX Photonics Assembly #5214



PHIX Spot Size Converters allow for easy coupling between optical fiber (arrays) and photonic ICs

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- Photodigm, Inc. #4324
- Photon Design. #2048
- PHOTON ENERGY GmbH. #4013
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Photon Force Ltd. #3006



Single-photon time-resolved cameras, sensors and hardware accelerated processing from Photon Force

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PhotonDelta #5201

PhotonFirst. #5209

Photonfocus AG #4445



NEW: SWIR camera with 900-1700nm based on InGaAs image sensor with CMOS read out, 3.5Me- FWC & GigE

PhotonHub #5301

Photonic Cleaning Technologies #3351

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The Hawkeye 4123 sCMOS camera sCMOS 4123 sensor with 0.5 electron readout very low dark current

Photonics & Imaging Technology. #3214

Photonics Automation Specialties, LLC. #659

Photonics Bretagne . . . #1259

Photonics Ctr Oy. #5319

Photonics Hub GmbH . #4013

Photonics Industries International, Inc. #5005



Photonics Industries new small form factor -400 fs FSX Series laser with powers up to 100 W

Photonics Ireland #5043

Photonics Online. #3055

Photonics Research and Innovation. #5319

Photonics Spectra, a Photonics Media publication #3436



Photonics Spectra magazine, defining the science and industry of photonics since 1967

PhotonicsNL. #5210

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iNocturn: combination of ultra-sensitivity, high framerate, high-QE photodetectors, nano-second gating

PhotoSound Technologies, Inc. #3057

Photothermal Spectroscopy Corp. #1754

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Physics Today #3220

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High Speed Direct-Drive Linear Modules / Linear Actuators for High Performance Automation

PiBond. #5319

PicoLAS GmbH #4013

Picophotonics Ltd. #5319

PicoQuant Photonics North America, Inc. #3314,3315,3316

piezosystem jena GmbH. #4013

PIKE Technologies #149

Plasma Optik #5312

Plasma Process Group, Inc. #5312

Plasmaterials, Inc. #4205

Pleiger Laseroptik GmbH & Co. KG #4013

Pleora Technologies Inc. #4322

PLX Inc. #666

Plymouth Grating Lab.. #3131

PM B.V. #5528

POG Precision Optics Gera GmbH. #1967

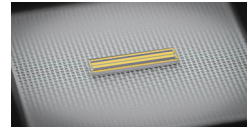
Polaris Motion #4619

Power Technology, Inc. #1848

PowerPhotonic #5123

PR Hoffman Machine Products, Inc. #130

Preciseley Microtechnology Corp. #5108



Optical MEMS micromirror array for Wavelength Selective Switching

Precision Glass & Optics #4835

Precision Laser Scanning #1836

Precision Optical. #122

Precision Optics Corp.. #1861

Precitec, Inc. #2126

Precitech. #1639

PRIMES GmbH. #4013

Princeton Infrared Technologies, Inc. #3181



1280BPCam—1280x1024 Extended SWIR camera with 2.1 μm cutoff for laser beam profiling

Princeton Scientific Corp. #257



The Kelvin probe system allows precise measurement of work function with high precision and accuracy

Prior Scientific Inc. #3233

Prizmatix Ltd. #1859

Prospective Instruments LK OG #3468

PROTECT-Laserschutz GmbH. #4429

PT Photonic Tools GmbH. #4013

Pure Photonics #3439

Pyxalis #1259

QD Laser, Inc. #3381

QED Optics. #226

Qioptiq, an Excelitas Technologies Co. #1148

QPC Lasers Inc. #5104

QPhotonics, LLC #3221

QS Lasers #1962

Qual Diamond Hi-Tech. . #355

Quandela. #3316

QuantIC UK Hub for Quantum Enhanced Imaging #5123

Quantifi Photonics Ltd. #3184

Quantum Light Instruments, Ltd. #338

Quantum Optics Jena GmbH. #4013

Quantum Opus #3316

Quartus Engineering Inc. #453

Quebec Pavilion #4323

R Specialty Optical Fibers LLC #3255

Radiant Vision Systems, LLC #3021

Raicol Crystals Ltd. . . . #2349

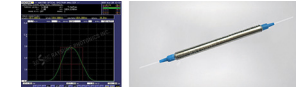
Rainbow Research Optics, Inc. #2027

RAM Photonics, LLC. . #5035

Raptor Photonics Ltd. #2355

RAYLASE GmbH. #4615

Raysung Photonics Inc. #3216



Wide bandwidth and small dispersion Chirped FBG specially designed for ultrafast laser mode locking

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RedWave Labs Ltd. . . #5429

Refined Laser Systems GmbH. #4429

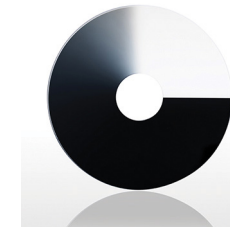
RefleKron Ltd. #5319

Remtec, Inc. #2327

Renishaw, Inc. #4616

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Reynard Corp. #3150



Gradient filters where custom densities vary the light intensity: Apodizing, Circular, Linear & Step

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RMT Ltd. #4109

Rochester Precision Optics, LLC #245

Rockley Photonics . . . #4304

Rocky Mountain Instrument Co. #542

Rogers Germany GmbH. #4231

Rosendahl Nextrom . . #5417

RPMC Lasers, Inc. #338,343,443

Ruda-Cardinal, Inc. . . #554

S & R Optic GmbH . . . #4013

Sacher Lasertechnik GmbH. #3488

SAES Group #2000

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varioSCAN II focusing units provide dynamic, precise positioning of the laser focus along the z axis

ScannerMAX #1954

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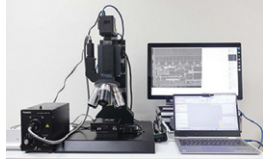
Schneider Optics, Inc. . #1935

SCHOTT North America, Inc. #840

SCINTIL Photonics SAS #1159

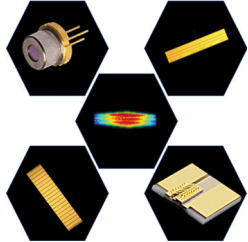
SCIVAX Corporation . #3389

Scotland Pavilion. #5123
 Seattle Photonics Associates
 LLC. #1834
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New infrared microscope includes stitching, topography, remote focus and remote XY stage capability

SemiNex Corp. #5228



SemiNex triple-junction laser diode at 1550nm with 100W output power for automotive LiDAR

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 Sheumann Laser, Inc. #1566
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Alpha is a widely tunable, fully automated laser source with ultra-fast pulses from 700 nm to 20 μm

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SmarAct Inc. #3250

SMART Photonics #5205

SMC Corp. of America #4735

Solid State Cooling Systems, Inc. #267

SOMO IR Co., Ltd. #5519

son-x GmbH #4429

Spark Lasers. #1159

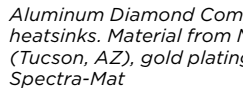
Specim Spectral Imaging Ltd. #1763

Spectral Engines GmbH. #549

Spectral Instruments, Inc. #449

Spectral Systems, LLC. #1762

Spectra-Mat, Inc. #2004



Aluminum Diamond Composite heatsinks. Material from NMIC (Tucson, AZ), gold plating by Spectra-Mat

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Flexible Mighty Light is a TUNABLE BROADBAND LIGHT SOURCE with the tuning range up to 1715 nm

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Spectrum Scientific, Inc. #3321

Spectrum Thin Films Corp. #127

Spica Technologies, Inc. #142

SPIE Career Center. . . #3374

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SPIE Membership and Community Development #3375

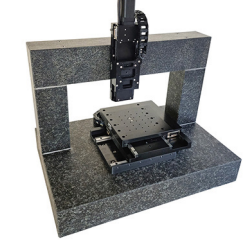
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Rack-mounted, visible wavelength diode lasers with 6E-16 frequency stability

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Standa offers precision stages on granite bases enabling quick transition from lab to the market

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Starrett Tru-Stone Technologies, Inc. . . . #4839

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STMicroelectronics. . . #3067
 Sumitomo Electric Industries, Ltd. #3388

Sunex Inc. #3467

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BLL Ultra-Compact Broadband fiber coupled light sources with a broad spectrum and a short coherence

SUSS MicroOptics SA . #860

Sutter Instrument Corp. #1927

SVS-VISTEK GmbH. . . . #132

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Time Tagger Ultra is a modern time-to-digital converter ideal for on-the-fly single-photon counting

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Swiss Jewel Co. #4506

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Symétrie #437

Synopsys, Inc. #543

Syntec Optics. #242

Taiwan Color Optics, Inc. #4336

TAMRON USA, Inc. . . . #5633

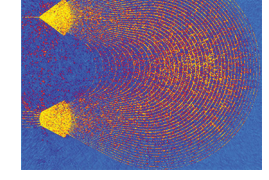
TDK-Lambda Americas Inc. #1759

tec5USA #549

Technica Optical Components, LLC. . . . #4004

Technotrans America, Inc. #4441

Tech-X Corp. #2326



VSIM: High-performance, multi-platform simulation tool for complex photonics problems

TECNISCO, LTD. #3390,3391

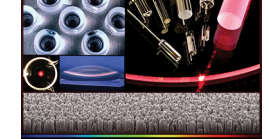
Tecnottica Consonni S.r.l. #3215

TecOptics Corp. #337

Tecport Optics, Inc. . . #1949

Teem Photonics. #1259

TelAztec LLC #4211



RAR Nano-Textured Optics for increased reliability and power scaling

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Teledyne FLIR #1338

Teledyne Imaging #1338

Teledyne Signal Processing Devices Sweden AB . . #3136

TEM Messtechnik GmbH. #4429

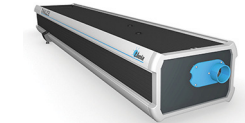
temicon GmbH. #5629

Tempo Clean Room Foam #4600

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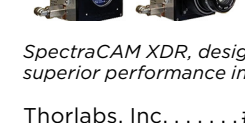
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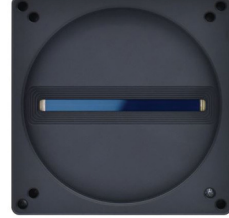
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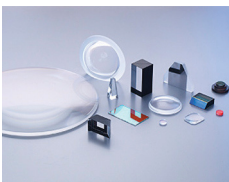
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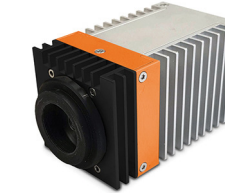
Wooriro Co., Ltd. #4307

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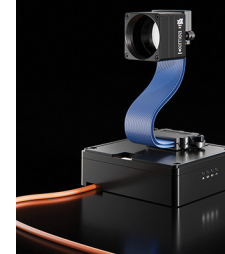
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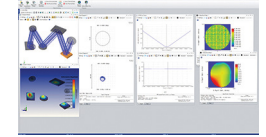
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