



## Photonics Showcase

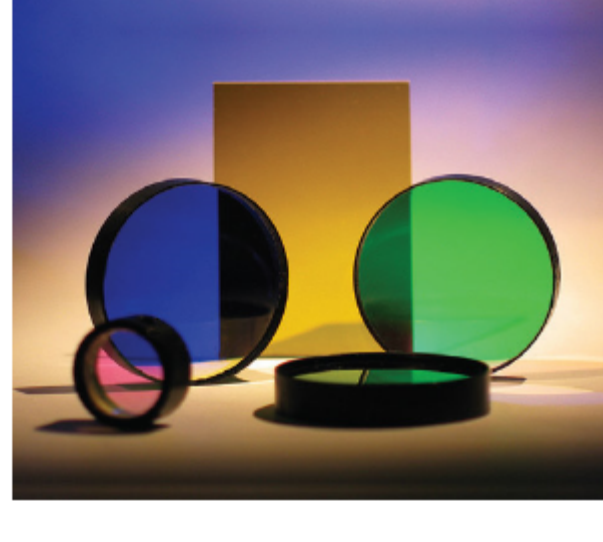
### [More Signal, Less Background](#)

**From: Iridian Spectral Technologies**

Iridian's custom optical filters provide wavelength selectivity from the UV to LWIR to applications including communications (telecom/datacom/satcom), spectroscopy (Raman/fluorescence/molecular diagnostics), sensing and imaging (gas detection/Earth observation/lidar). With high transmission and deep and broad blocking, our custom filter solutions and multizone filter arrays are designed and manufactured to optimize technical and commercial needs in our customers' systems.

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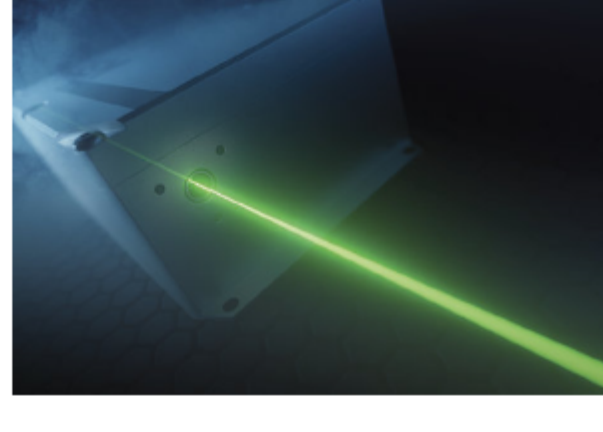
### [New Novanta GEMultra DPSS Laser](#)

**From: Novanta Photonics, Precision Medicine & Manufacturing**

Overcome DPSS 532 nm laser specification breakdown and sub-par performance with stable power output despite changes in operating or ambient temperatures. Engineered for the extreme with temperature fluctuation protection, greater power output, and impressive spectral stability from the new air-cooled design. The ideal solution for in-line Raman spectroscopy, metrology, and semiconductor inspection applications.

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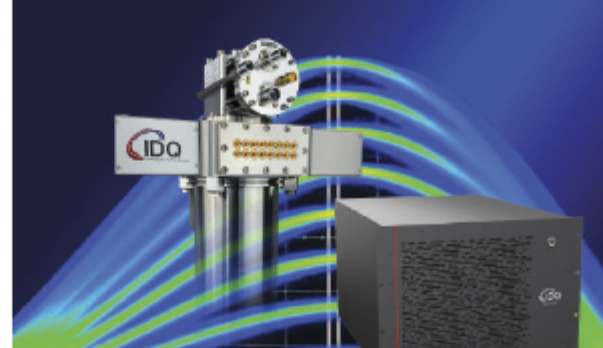
### [ID281 Series — Single-Photon Detectors](#)

**From: ID Quantique**

ID Quantique SNSPDs offer more than 90% detection efficiency, operation from 400 to 2500 nm, signal jitter of 20 ps and dark-count rate below 1 cps. They enable Photon-Number Resolution up to 8 photons, and ultrafast counting at more than 1 GHz. Its autonomous design makes the ID281 Pro ideal for operation in data centers and is ideal for quantum interconnects, networks, optical ground stations and photonic quantum computers.

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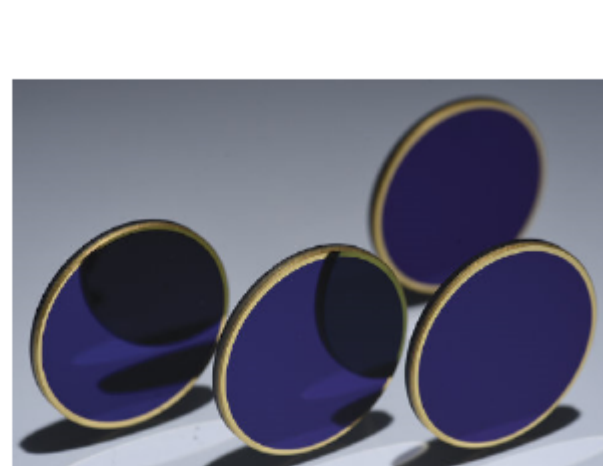
### [Conductive Optical Coatings](#)

**From: PFG Precision Optics**

PFG Precision Optics offers advanced conductive optical thin-film coatings that combine optical transparency with electrical conductivity. Our conductive coatings are found in applications ranging from EMI shielding to anti-fog heating. PFG offers metallic bus bars on optical surfaces or ground edges for system integration, as well as AR overcoats for minimal reflective losses. Prototype through production volumes in the USA.

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### [Compact FTIR, Big Results](#)

**From: Hamamatsu Corporation**

Unlock compact yet powerful NIR sensing. Hamamatsu's C16511-01 FTIR spectrometer engine delivers high-resolution infrared analysis with a spectral response range from 1100 nm to 2500 nm. Ideal for integration into portable and embedded systems, it offers exceptional performance with a built-in optical interferometer, control circuit, and calculation circuit. Experience precision, speed, and reliability engineered for innovations in spectroscopy.

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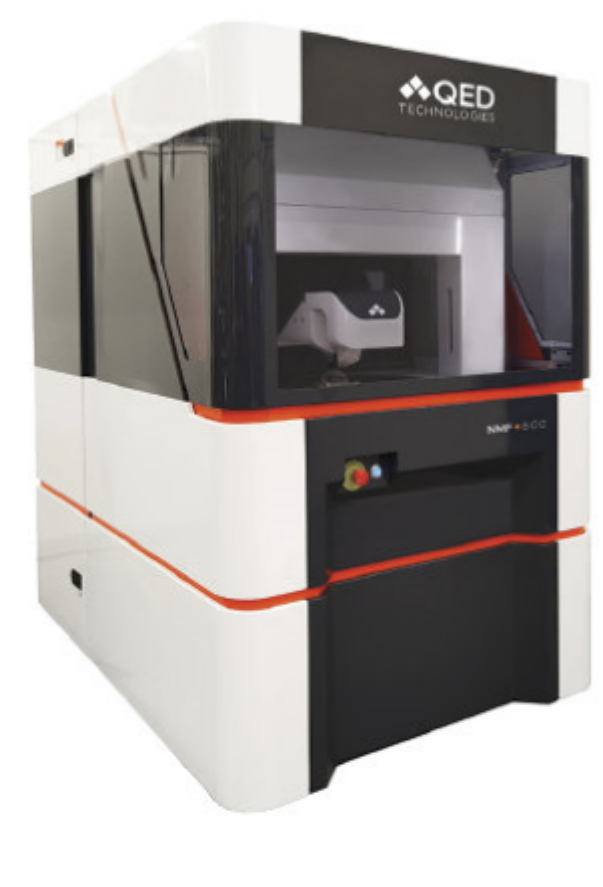
### [Measure Aspheres & Freeforms Fast](#)

**From: QED Technologies International**

The NMF Series from QED Technologies provides fast, non-contact 3D form measurement of flats, spheres, aspheres, and freeforms in a plug-and-play system. Achieve sub-15 nm accuracy on ground, polished, or coated surfaces. Optional tactile probe or camera modules support hybrid metrology. Backed by QED's MRF legacy, the NMF maximizes throughput while meeting tight form tolerances.

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### [A Light Source for the Quantum Age](#)

**From: Eblana Photonics Ltd.**

The future of quantum is photonics. From enabling secure global communications to building the next generation of sensors and processors, Eblana Photonics powers the quantum frontier with reliable, high-precision lasers and gain chips built for real-world deployment. At Eblana, we work alongside innovators to tailor optical solutions for complex quantum architectures, spanning research to scalable product development.

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### [Circular Variable ND Filters](#)

**From: Reynard Corporation**

Custom Circular Variable Neutral Density (CVND) filters change light intensity from 100% to less than 0.1%. Densities are supplied 0 to 1, 2, 3, 4, or 5 as a standard linear or customized gradient function, which can range from 45° to 360° of rotation. Features include laser and broadband coatings, substrates from 1- to 8-in. diameters, and functional wavelength from the UV to the far IR.

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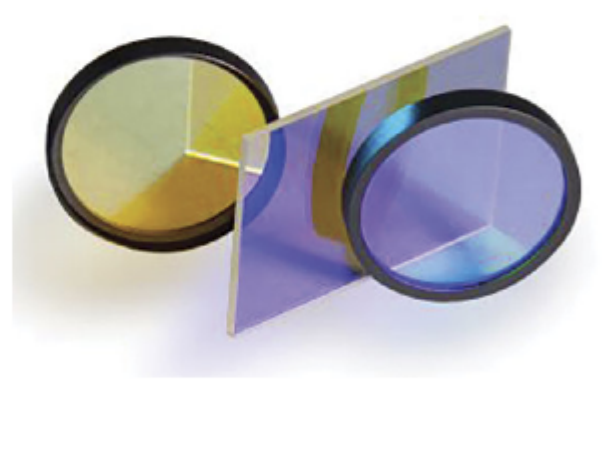
### [Maximize Your Raman Signal](#)

**From: Chroma Technology Corp.**

Chroma understands that Raman scattering is a weaker signal requiring much better filters, with steeper edges, to isolate the signal of interest. Our Raman filters or sets will cover a wide variety of spectral ranges for your project when you need higher transmission values, steep transitions, and superior blocking to keep out unwanted photons. Learn more.

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### [MEMS Micromirror Manufacturing](#)

**From: Teledyne MEMS**

Teledyne MEMS has decades of experience and provides MEMS manufacturing services for datacenter, telecom and Lidar applications. Bulk micromachined geometric tilt mirrors offer critical dimension control, precise layer alignment, and film stress stability, and many optional capabilities. Surface micromachined diffractive switching arrays offer small vertical aspect ratios, high speed, high channel count, and high optical power management.

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### [SIRRUS™ PVD Platform](#)

**From: Alluxa**

Alluxa's innovative, next-generation SIRRUS™ plasma physical vapor deposition (PVD) platform offers full spectral coverage from ultraviolet (200 μm) to infrared (14 μm). The proprietary process enables optical filters with the steepest edges, highest transmission, and deepest blocking available while maintaining high performance, precision wavelength control, and extremely uniform coatings.

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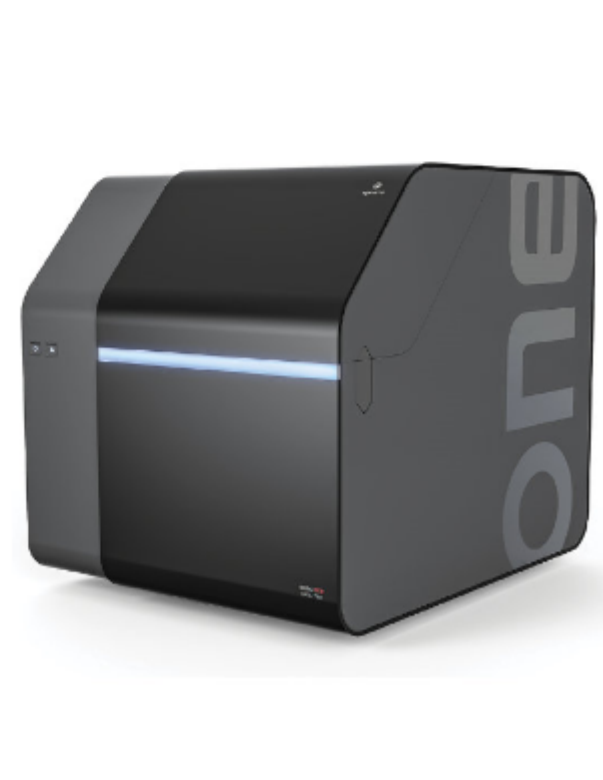
### [NanoOne High-Resolution 3D Printer](#)

**From: UpNano GmbH**

NanoOne brings unlimited prototyping capabilities, ideal for fabricating high-precision micro-optics, photonic structures, and sensor optics. With unmatched performance, transparent material compatibility, and freeform on chip optical transceivers, it's the solution for both research and production needs.

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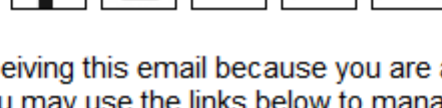
### [Rapid Custom Optics and Assemblies](#)

**From: Thorlabs Inc.**

Using our rapid optical prototyping capabilities, we can deliver multielement assemblies in as little as four weeks and engineered components in as little as one week. We offer engineering design, cleanroom assembly, coating, and custom metrology and testing. We can design and manufacture spherical and plano optics from 4 - 380 mm as well as aspheric, cylindrical, and acylindrical optics in a variety of sizes. Contact us for your next project!

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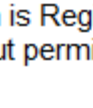


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