

## Sneak Preview

LASER World of Photonics, Munich, Germany, May 13-16, 2013

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### World's First emiCCD Cameras

New, **emiCCD technology** available exclusively in PI-MAX<sup>®</sup> 4 cameras. One camera combines the advantages of intensifiers (ultrashort, subnanosecond exposure times) AND the benefits of EMCCDs (linear gain and high quantum efficiency) to provide single-photon sensitivity and quantitative performance for scientific imaging and spectroscopy applications.

**Princeton Instruments**

see us at Hall B2 Booth 109

[www.princetoninstruments.com](http://www.princetoninstruments.com)

### Raydiance: Industrial Femto Solutions

The world's first femtosecond lasers for industrial manufacturing from Raydiance. Raydiance's laser solutions manufacture precision parts in one step, with no heat, no post processing, better yields, better quality, and lower overall production costs. **Ultrafast. Athermal. Available now.** Learn more!



**Raydiance**

see us at Hall C2 Booth 120

[www.raydiance.com](http://www.raydiance.com)



### ZFSM - Fiber-Coupled Lasers

Z-LASER presents newly developed "**ZFSM**" laser systems that utilize the superior optical properties of fibers. Various projection patterns such as micro-lines or multi-lines are available. The output power range is up to 50mW combined with red/green/blue wavelengths or IR (980nm).

**Z-LASER Optoelektronik GmbH**

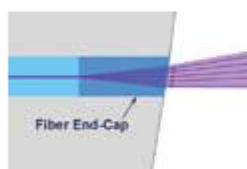
see us at Hall B2 Booth 101

[www.z-laser.com](http://www.z-laser.com)

### End-Caps for Longer Life Fiber Optic Cables

End-Caps for single-mode and PM fiber (125µm to 400µm OD clad) provide reduced power density where laser light enters or exits the fiber. The result is a "free space" optical end-face that is resistant to damage from high-power lasers and contaminants from the UV to 488nm lasers. End-Caps can be installed into a variety of connectors and ferrules.

See our website for more information.



**Coastal Connections**

see us at Hall B2 Booth 150

[www.coastalcon.com](http://www.coastalcon.com)



### Bigeye - CCD Cameras with Active Cooling

AVT introduces the **Bigeye G-283 Cool** camera. It features an active Peltier cooling enabling particularly low-noise images with long exposure times and a highly sensitive 2.8 megapixel SonyICX674 sensor with EXView HAD II CCD technology and 4.54 µm pixel pitch.

**Allied Vision Technologies**

see us at Hall B2 Booth 102

[www.alliedvisiontec.com/scientificsolution](http://www.alliedvisiontec.com/scientificsolution)

### Ultra-Flat Dichroic Thin-Film Filters

Ultra-flat, uncompensated thin dichroic/polychroic filters are the latest product in Alluxa's Ultra series of **high-performance optical filters**. These filters feature flatness < 0.1 waves rms and transmission > 95%. Alluxa's novel hard-coating process eliminates the need for backside compensation. Contact us for an appointment.



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[www.alluxa.com](http://www.alluxa.com)



### Optran<sup>®</sup> NCC Silica Fiber

CeramOptec's NCC non-circular core **silica optical fibers** show the same exceptional performance as Optran UV/WF fibers. Fibers are available with square, rectangle, hexagon and octagon cores offering excellent image scrambling, low focal ratio degradation and homogeneous output.

**CeramOptec Industries, Inc.**

see us at Hall B1 Booth 410

[www.ceramoptec.com](http://www.ceramoptec.com)

### 2013 Laser World of Photonics

Laser-based additive manufacturing, poised to usher in a new era in the industrial market, will be a highlight of Laser World of Photonics 2013 in Munich May 13-16. Trade show visitors will have ample opportunities to gather detailed information about the current state of this new technology and try it out for themselves.

Unlike conventional techniques used to process metals and plastics, light makes it possible to affordably manufacture even complex products with the smallest dimensions, the widest range of materials and complex geometries.

For the first time ever, visitors attending Laser World of Photonics 2013 can personally experience the potential that this technology has to offer in the special show "Digital Photonics Production" in Hall C2, Stand C2.340. The special show, organized by Messe München and the Fraunhofer Institute for Laser Technology and RWTH Aachen University, will show the entire production chain - from digital data to customized or complex components - ready for series production and using the tool of light.

Three design and production stations will allow tradeshow visitors to experience "live" the many advantages that digital photonics production has to offer the automotive industry, aviation/aerospace, power engineering, lightweight design, medical technology and the consumer sector (mass customization). The design and production stations will give them a look at corresponding software tools, machines and exhibits, and visitors will have a chance to experience the practical side of digital photonics production themselves under professional supervision.

Another special presentation, "Photons in Production," will be held in Hall C2, Stand C2.621. With the theme Building Blocks for the Future, Photons in Production will focus on laser-based materials processing that gives modern production engineering a number of ways to meet future challenges, such as energy-efficient manufacturing. The iwB at TU Munich and the Bavarian Laser Center will present systems ranging from affordable 3-D printers to manufacturing techniques for industrial use.

Lasers in Manufacturing (LiM 2013) will also be a featured session in the World of Photonics Congress 2013, which is collocated with Laser World of Photonics. Organized by the German Scientific Laser Society (WLT), LiM 2013 is a scientific conference that focuses on the latest developments, as well as future trends, in laser-based materials processing.

### Stop by our booth

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