## PHOTONICS



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spectra Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

sponsor

BYE-BYE, CCD SENSORS.

First Models Now In

Series Production

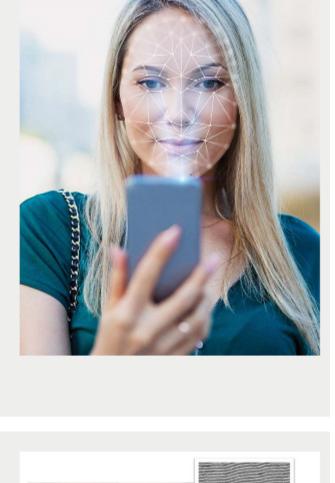


can be used for multiple applications. For example, NIR in the 780-nm range is used and considered safe for eye tracking, the 850-nm range



is used for night vision in security cameras, and emissions from 930 to 950 nm are common for the NIR LEDs in a standard television remote

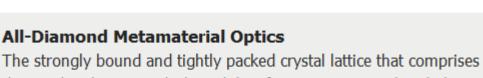
control. Wavelengths from 700 to 950 nm are used in a variety of NIR spectroscopy applications for medical diagnosis.



diamond makes it an ideal candidate for extreme optical and photonic



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Spectroscopic Detection

double by 2022. The boom of the industry, which exceeded \$244 million in tax, license, and fee revenue for the state of Colorado in 2018, is also a boon for scientists, specifically analytical chemists, as testing facilities and instrument companies sprout up like, well, weeds.



**Basler MED Ace Series** 

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Low Noise QCL Driver for

Wavelength Electronics Inc.

Spectroscopy

center wavelength, and repeatable scans. Higher sensitivity

and lower material concentration threshold detection.

The first models of the Basler MED

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ace camera series, produced in

Basler AG

accordance with DIN EN ISO 13485:2016, have now

designed for Medical & Life Sciences.

entered series production (2 MP and 5 MP resolution). The

camera series includes Basler's first cameras specifically



**Featured Products** 



SYNOPTICS Now Offers IBS Coatings

Meridian® FLEX Camera Testing

Platform (Patent Pending)

integrators with a powerful tool

that's flexible enough for the R&D lab and fast enough for

production camera testing. At its heart is a high-speed high-precision robot that can place a target at any

specified field point in a variety of different instrument

Northrop Grumman Synoptics Quasi-Rugate thin film designs are

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High and Low Refractive Index Adhesives Norland Products Inc. Match your optical substrate's refractive index to enhance its optical properties with one

adhesives. When exposed to UV, visible light or heat these

one component solventless adhesives will cure to a clear

of Norland Products' High or Low refractive index

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performance for our customer's applications.

sponsors Meridian® FLEX Camera Testing Platform

Lens-Free, Multicolor Holography Technique Could Enable

developed by a team at Duke University, produces complex, multicolor

A holography technique based on computer-generated holograms,

holographic images without any bulky optical components.

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Low current noise density of 1 nA / √Hz over 100 kHz in an AC powered instrument with intuitive touchscreen. Lower noise translates to narrower Quantum Cascade Laser linewidth, stable

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IR Filters for Thermal Imaging

Spectrogon manufactures infrared

and Gas Detection

Spectrogon US

filters and windows with high transmission, high rejection outside the passband, and introducing low cosmetic defects – while maintaining excellent coating uniformity --- for thermal imaging applications such as cryogenically cooled IR detectors and for uncooled microbolometers.

Protection for Femtosecond

Kentek's C120C coated filter is an excellent choice for femtosecond

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**Kentek Corporation** 

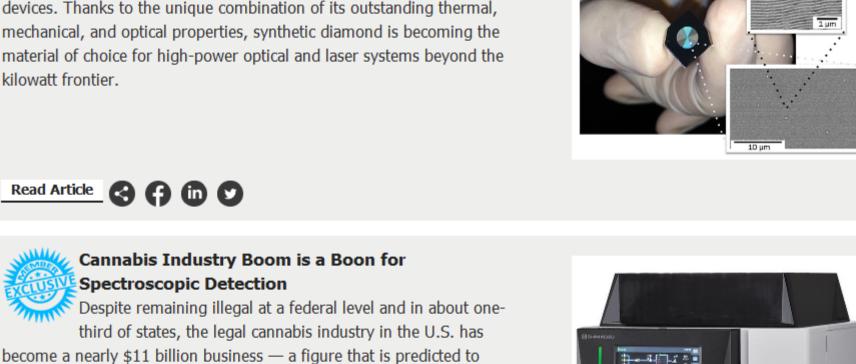
Applications

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levels up to OD 9 at select wavelengths. Request Info Visit Website

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Experiment



Optikos Corporation The Meridian FLEX platform provides camera manufacturers and



film in seconds.

at very high shutter speed.

Optikos

High-speed, high precision robotics for R&D or production testing of short focal length, small aperture cameras found in cell phones, web cams and

In Case You Missed It

Compact 3D Displays

configurations.

Request Info Visit Website Lince 11M Sensor for Highspeed Applications

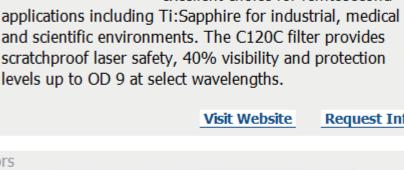
expansion of its Lince family of image sensors with a new 11Megapixel detector. Lince11M is a new CMOS image

sensor designed for applications that require 4K resolution

Teledyne e2v (UK) Ltd. Teledyne e2v announces the

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expo & conference MCENERY CONVENTION CENTER

## Read Article 🚷 🚹 🗓 💟 Machine Learning Identifies Nearly All US Solar Panels from 1 Billion Images

Colloidal Quantum Dot, IR LEDs Display Highest Efficiency

has been developed by a team at the Institute of Photonic Sciences.

Selecting an IR Camera for Your R&D Application – 7 Tips

Thermography has become an indispensable tool for all types of R&D projects. Many IR camera options are available with different features

and at varying costs, making it difficult to select the camera bestsuited to your application. In this one-half-hour webinar, Chris Bainter, global director of strategic business development at FLIR

Stanford University scientists developed a machine learning program that analyzed more than 1 billion high-resolution satellite images and identified nearly every photovoltaic solar power installation in the contiguous 48 U.S. states. A composite material that is a strong light emitter as well as an efficient charge conductor — colloidal quantum dot LEDs

Systems, will provide the guidance you need to make it easier for you to choose a thermal-imaging camera that meets all your requirements. He will focus on the seven most important things to consider when

Tue, Mar 19, 2019 1:00 PM - 2:00 PM EDT

selecting an IR camera and explain them in plain language to help you select the right tool for your unique application needs. There will be ample time at the end of the webinar for Q&A. This webinar is sponsored by Teledyne DALSA and by InfraTec GmbH.

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**Webinars** 

from a Top Expert

**Coming in April... Features** About Photonics Spectra Since 1967, Photonics Spectra magazine has defined the science and industry of photonics,

Laser-Based Standoff Sensors, 3D Imaging in Industry, High-Speed CMOS Cameras, Sensors, UV/LWIR Optics **Photonics Media** is currently seeking technical feature articles on a variety of topics for publication in our magazine Photonics Spectra. Please submit an informal 100-word abstract to Susan Petrie, Senior Editor, at Susan.Petrie@Photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx.

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