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.: Top Stories

Lidar Companies Velodyne, Ouster Agree to Merge Digital lidar company Ouster and lidar sensors and solutions developer

Velodyne Lidar have entered into a definitive agreement to merge in an all-stock transaction. The combination reportedly brings together roughly \$400 million in market value. Both companies will continue to operate their businesses independently until the close of the merger transactions, which are expected to be completed in the first half of 2023. Read Article



An international team has reportedly set a data transmission record using just a single laser and optical chip to transmit more than 1

Single-Laser and Optical-Chip Pair Sets Data Transmission

Pbit/s. The researchers, from the Technical University of Denmark (DTU) and Chalmers University of Technology in Sweden, transmitted

data at 1.8 Pbit/s, corresponding to double the total global internet traffic. Read Article

Laser-Matter Interaction Improves Nanostructure



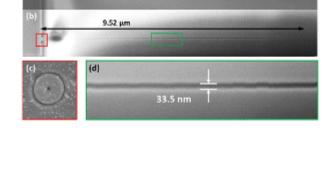
Using femtosecond laser direct writing, researchers at Xi'an Jiaotong University created silica nanochannels with a diameter of 30 nm, smaller than reported in any previous study, and with an aspect ratio

Fabrication Process

Record

of over 20. The technique uses extremely short and energetic laser pulses with high precision to create desired nanostructures, which include nanoholes, nanopores, and nanoslits. Read Article

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Like a Webcam, but for Industry



IDS Imaging Development Systems

With uEye XC, IDS Imaging Development Systems recently launched an industrial camera with autofocus that is just as easy to operate as a

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industrial camera and webcam and combines the advantages of both. Visit Website Request Info

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Extended Visible-InGaAs



Bristol Instruments Inc. The 772B-MIR Laser

Pulsed Laser Spectrum

accuracy of ±10 parts per million, and bandwidth and longitudinal mode structure to a resolution of 4

GHz, providing the ideal solution for scientists and engineers who need to know the spectral properties of their pulsed mid-IR lasers. Visit Website Request Info

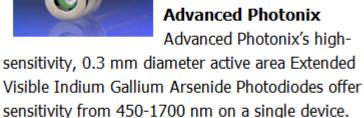
(DSI)

from 1 to 12 µm. It measures wavelength to an

Analyzer

IR Filters

Deposition Sciences Inc.



Advanced Photonix's highsensitivity, 0.3 mm diameter active area Extended

The extended detection range from a single chip differentiates from the standard InGaAs spectral response of only 700-1700 nm.

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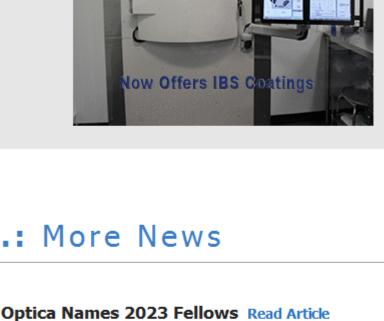
small as 20 µm.

DSI designs and manufactures bandpasses, beamsplitters,

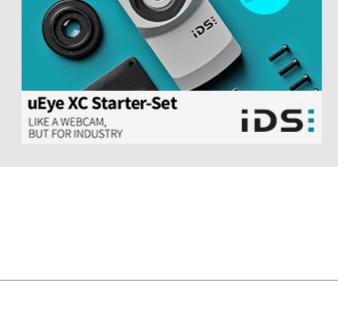
also pattern these coatings with feature sizes as

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450 -1700 nm

spectral range

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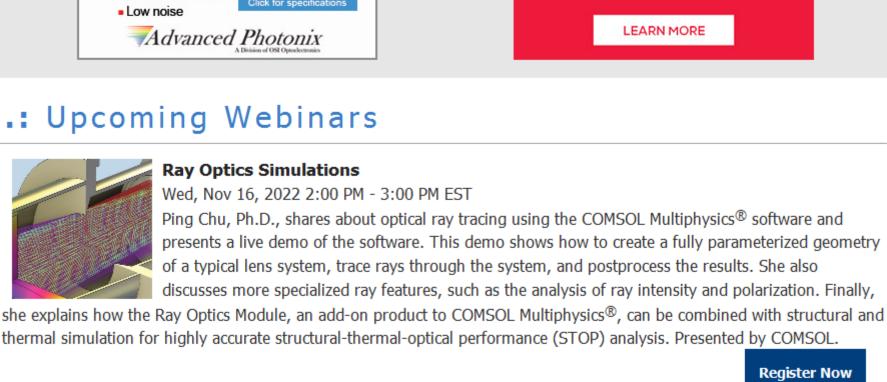
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TO-46 or LCC

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equipment and techniques used by manufacturers throughout labs and production lines to ensure high-quality display

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Introduction to Display Metrology: Evaluating the Quality of Displays Using Scientific Systems and Methods

Thu, Nov 17, 2022 1:00 PM - 2:00 PM EST Using scientific methods and equipment, display metrology solutions capture and assess the

products from microLED to AR/VR devices. Presented by Radiant Vision Systems.

quantitative values of a display's output to evaluate its visual quality and performance. Jessy Hosken of Radiant Vision Systems shares the science behind display testing, including measurement

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