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## Opto & Laser Europe

The no.1 European photonics magazine

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## PRODUCTS

### Dual-wavelength microcamera

Sensors Unlimited



Sensors Unlimited, expert in the use of gallium arsenide (InGaAs) technology for shortwave infrared imaging, has introduced a dual-wavelength visible-

InGaAs snapshot microcamera weighing less than 70 g. Measuring around 26 cm<sup>3</sup>, the compact microcamera images simultaneously in the visible and near-infrared regions and combines them into a single image.

Based on a focal-plane-array design, the camera benefits from the firm's enhanced substrate removal technique. This allows the production of 320 × 256 pixel arrays with a pitch size of 25 μm, versus the previous 40 μm pitch. Power consumption for the unit is less than 1.6 W, making the camera ideal for covert surveillance and military operations. Other applications include semiconductor wafer inspection and the characterization of laser pointers and rangefinders.

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

### Spot LEDs

Moritex



Machine-vision designers searching for lighting solutions may benefit from Moritex's MCEP series of high-powered coaxial spot-LED lights. Designed to be

compatible with machine micro-lenses, the small, lightweight lamps use proprietary collector optics and light guides to maximize illumination. By relocating the unit's heat-generating limiting resistor from inside the light to the power source, the company claims to be able to control heat emission – a major challenge with LED lighting. A constant-current power source, available as a single- or three-channel version, provides stable operation. The LED lights feature two options for connecting optical fibre: a single-lamp guide (MCEP-ADLG) or a three-lamp guide (MCEP-AD3LGB). By connecting different-coloured LEDs, the three-lamp module can function as a light mixer. The fibre connectors are multi-adaptor units compatible with standard Moritex light guides.

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

### Uncooled IR camera

BAE systems

Advanced defence and aerospace systems developer BAE Systems has unveiled its PMC300 infrared camera. The firm claims that its product is the first environmentally qualified,

uncooled 640 × 480 camera designed for day and night surveillance, plus general imaging applications. Compared with 320 × 240 resolution systems, the PMC300 results in more pixels being placed on target for improved detection and recognition performance. A family of lenses are available to suit the camera, ranging from 18 mm wide to 100/300 mm dual field-of-view. The unit, which is based on a modular design, features a versatile mounting bracket and incorporates a standard RS-422 control interface.

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

### Combined Ti:sapphire and dye laser

Tekhnoscan JSC



Russian firm Tekhnoscan has released a combined CW narrow-band Ti:sapphire and dye laser with intracavity frequency-doubling.

Said to suit wide-range spectral studies of quantum semiconductor objects, the TIS/DYE-FD-08 delivers spectral output in the ranges 550–950 nm (fundamental) and 275–475 nm (second-harmonic). The output power at the fundamental wavelength reaches 1.5 W with a 10 W pump, and the output power at the second-harmonic wavelength is said to exceed 100 mW. Depending on the installed elements, line widths vary from 0.01 to 0.05 nm. The firm's Ti:sapphire and dye lasers are also available separately, as models TIS-FD-08 and DYE-FD-08.

[www.tekhnoscan.ru](http://www.tekhnoscan.ru)

### Optical table

Newport



Newport has introduced the SmartTable to its range of vibration-control solutions. The anti-vibration product, which is based around the firm's patent-

pending iQ damping technology, is said to deliver industry-standard performance in a laboratory table at an affordable price. Featuring two active-vibration dampers, the firm claims that its SmartTable reacts to all natural vibration modes of the table without creating any additional resonances at lower frequencies. If the load on the table changes, the dampers maintain their efficiency and stability thanks to a simple built-in auto-tuning function. The product features built-in sensors and an analogue output that allow users to monitor tabletop vibrations in realtime. SmartTable software provides fine tuning and calibration options, and the unit's controller is USB2-compatible.

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