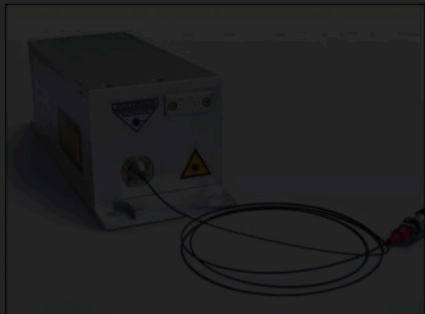


New Products

Product of the Month

Multimode Diode Lasers



The new "BrixX ps" laser series from Omicron-Laserage (Rodgau, Germany) presents universal diode lasers that can be pulsed in the picosecond range, or operated in continuous wave (CW) and modulated mode. The compact laser modules with completely integrated driver electronics, high precision temperature regulation, and beam shaping optics can emit ultra-short pulses down to 50 picoseconds, pulses in the nanosecond range, and fast analog and digital modulated CW emission.

Diodes with up to 1500 milliwatt optical output power and wavelengths between 375 and 2300nm can be used in the "BrixX ps" systems. The light output can be either free-space or fiber-coupled. CW operation is possible with up to 100 megahertz digital and up to 1 megahertz analogue modulation. Furthermore the modules have got an electronic shutter function which can switch the emission on and off at a bandwidth of more than 500kHz. In pulsed mode the repetition rate can either be triggered by an external synchronization signal, or it can be generated by the internal, programmable frequency generator with up to 100 megahertz.

For Free Info Visit <http://info.hotims.com/45605-205>

DPSS Laser

RPMC Lasers, Inc. (O'Fallon, MO) has released a new compact AIRTRAC DPSS laser from Areté Associates. This air cooled laser will provide 50mJ of pulse energy at 1064nm with pulse widths of 6ns FWHM and rep rate capability up to 30Hz. The signature feature of the AIRTRAC, despite its ultra-compact size (6.5 cu. in./0.43lbs), is a resonator design that promotes a highly uniform beam. This laser has fundamentally been built on a thermal gain module which Areté has refined over several years of development.



Soon to be made available will be a version that outputs 100mJ in the IR, a longer pulse-width version, 532nm and OPO versions. The 532nm version will give the user roughly half of the pulse energy output of the fundamental. Both of these will be offered in the same compact package. To date the AIRTRAC has successfully performed under a temperature range of -40° to +60°C and is specified to operate up to +70°C.

For Free Info Visit <http://info.hotims.com/45605-206>

4D Technology PolarCam Micropolarizer Cameras



PolarCam micropolarizer cameras provide polarization-based image content without blur, enabling a range of image enhancement techniques including glare reduction and haze removal. Small, fast and field-proven, these unique CCD cameras are ideal for medical imaging, birefringence mapping, industrial monitoring, polarization microscopy, surface mapping and 3D reconstruction. Available with 0.5, 1, 2, and 4 mega-pixel sensors.

www.4dtechnology.com/products/polarcam.php

Laser Diode Circuit Protection



Pangolin Laser Systems (Orlando, FL) has announced the expansion of its LASORB product line with a series of components designed to protect 515nm and 520nm green laser diodes from damage by direct and indirect electrostatic discharge, including single, multiple, and repeated ESD events of positive or negative polarity. LASORB, a class of component invented by Pangolin, is described as an "ESD absorber" created specifically to protect laser diodes, superluminescent diodes, and LEDs.

Pangolin first introduced LASORB in 2008 and has continued to expand the product series to accommodate a broader range of laser diode products. The product has proven its effectiveness and value in a variety of research and commercial applications, including those using infrared, red, blue, and Blu-ray diodes. LASORB also protects against reverse bias conditions. While Schottky diodes are typically used for this purpose, using LASORB instead offers protection against both ESD and reverse biasing.

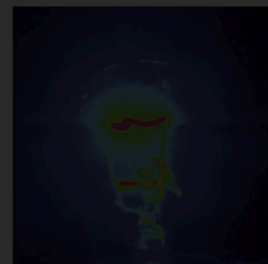
For Free Info Visit <http://info.hotims.com/45605-207>

SWIR Camera

NIT (Saussan, France) has introduced the WiDy SWIR camera, integrating an ultra-wide dynamic range InGaAs sensor operating from 900nm up to 1700nm. WiDy swir uses a 320x256 pixels InGaAs photodiode array sensor coupled to the NIT NSC0803 wide dynamic range read-out circuit from NIT. The InGaAs photodiodes provide a high QE signal response from 900nm to 1700nm.

When used with the NIT WDR ROIC technologies the InGaAs photodiodes deliver more than 140 dB of dynamic range in a single image without any external control.

WiDy swir has a simple USB digital output and is delivered with WiDyWiew software operating under Microsoft Windows. The frame rate is software controllable from 1Hz to 150 Hz and can be synchronized from an external IO signal.



For Free Info Visit <http://info.hotims.com/45605-208>