

NEWS RELEASE

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For Immediate Release

Princeton Infrared Technologies, Inc. 1280 BPCam honored by 2022 Military + Aerospace Electronics Innovators Awards

Monmouth Junction, NJ – September 14, 2022 - Princeton Infrared Technologies, Inc. (PIRT), specialists in indium gallium arsenide (InGaAs) imaging technology and affordable shortwave-infrared (SWIR) linescan cameras, visible-SWIR science cameras, and 1- and 2-D imaging arrays, announced today that its **1280BPCam** was recognized among the best by the 2022 Military + Aerospace Electronics Innovators Awards. An esteemed and experienced panel of judges from the aerospace and defense community recognized Princeton Infrared Technologies, Inc. as a Gold honoree.

“On behalf of the Military + Aerospace Electronics Innovators Awards, I would like to congratulate Princeton Infrared Technologies, Inc. on their Gold-level honoree status,” said Military + Aerospace Electronics Editor in Chief John Keller. “This competitive program allows Military + Aerospace Electronics to celebrate and recognize the most innovative products impacting the aerospace and defense community this year.”

The 1280BPCam is an extended-SWIR response camera developed specifically for laser beam profiling. The new InGaAs/GaAsSb (InGaAs/gallium arsenide antimonide) type-II super lattice (T2SL) detector features 1280 x 1024 pixels on a small 12- μ m array pitch that delivers 90 frames per second (fps) at full resolution.

The extended wavelength response of the T2SL material plus the 3-stage thermoelectric cooler (TEC) enable high sensitivity from 400 nm to 2050 nm, making it possible to image from the Visible out to the SWIR spectrum with a single imager. The high-resolution imagers are specially fabricated on 100 mm substrates to enable low-cost production.

The 1280BPCam's advanced focal plane array integrated in the camera generates full 14-bit pixel data at high resolution which is reliably transferred by a Medium Camera Link interface. Other notable features include snapshot exposure, selectable trigger modes, and user-selectable regions of interest (ROI). Integration times range from 50 μ s to greater than 16 ms. With less than 275e- read noise, high dynamic range of greater than 1000:1, plus greater than 20% quantum efficiency for 1.9 μ m, the extended SWIR beam profiling detector camera is ideal for use in a variety of industrial, medical, and defense applications.

About Military + Aerospace Electronics

Military + Aerospace Electronics is the leading media resource serving program and project managers, engineering managers, and engineers involved in electronic and electro-optic design for military, space, and aviation applications. Military + Aerospace Electronics magazine delivers time-sensitive news, in-depth analyses, case studies, and real-world applications of new products, industry opinion, and the latest trends in the use of mil-spec, rugged and commercial off-the-shelf components, subsystems, and systems.

Princeton Infrared Technologies, Inc. (PIRT - www.princetonirtech.com) - Specialists in indium gallium arsenide (InGaAs) imaging technology, PIRT focuses on design and manufacture of both shortwave infrared cameras, and one- and two-dimensional imaging arrays. All products are created in the company's fabless environment under strict testing and quality control guidelines, providing innovative and cost-effective detectors that image in the visible, near- and shortwave-infrared wavelengths. Application areas include spectroscopy for sorting materials, moisture detection, thermal imaging, night vision, and laser imaging for military, industrial, and commercial markets.

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