

NEWS RELEASE

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For Immediate Release

Princeton Infrared Technologies Introduces Megapixel SWIR MVCam

• **PIRT MVCam**, ideal for high-resolution, high-speed machine vision and microscopy applications, will be showcased at SPIE BiOS booth #8051, February 1 - 2, 2020 and at Photonics West booth #3180 February 4 - 6, 2020, San Francisco, CA.

Monmouth Junction, NJ – January 9, 2020 -

Princeton Infrared Technologies, Inc. (PIRT), will premiere the revolutionary, compact **MVCam** series shortwave-infrared (SWIR) and visible camera that supports the highest commercially-available frame rate at megapixel resolution with no ITAR restrictions. The megapixel indium gallium arsenide (InGaAs) camera provides 1280 x 1024 resolution SWIR imagery at up to 95 frames per second

(fps), with higher frame rates for user-selectable regions of interest (ROI). At 12 μm pixel pitch, the MVCam InGaAs image sensor yields extremely low dark current and high quantum efficiency, providing sensitivity across the SWIR and visible wavelength bands from 0.4 to 1.7 μm . The standard camera configuration uses a single-stage thermoelectric cooler (with no moving parts), integrated in a sealed package to stabilize the image sensor at 20°C.



MVCam's advanced digital array (PIRT1280A1-12) generates 14-bit digital image data with no image lag and read noise less than 45 e⁻, which is lower than all other industrial SWIR cameras. The camera uses Medium configuration Camera Link to output the video imagery at the full data rate of 95 fps. Base Camera Link can also be used at lower frame rates. Princeton Infrared Technologies' MVCam is ideal for high-resolution machine vision and microscopy applications.

Martin H. Ettenberg, Ph.D., president of Princeton Infrared Technologies, Inc., notes, “We are very excited to bring the MVCam to market. With its high frame rate at megapixel resolution and no ITAR restrictions, it is the best imager available for high-speed machine vision and microscopy applications in the SWIR band. Employing our fabless manufacturing model, we can offer these advanced sensors at a fraction of the market price, without compromising image quality, line rate, or pixel resolution.”

For a demonstration, please visit Princeton Infrared Technologies’ SPIE BIOS booth #8051, Feb. 1 - 2, 2020, and Photonics West booth #3180 February 4 - 6, 2020, Moscone Center, San Francisco, CA. To learn more about the new line of affordable SWIR linear arrays and cameras, go to: www.princetonirtech.com or call 1-609-917-3380.

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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