NEWS RELEASE

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For Immediate Release

Attollo Engineering Introduces Low-SWaP, Shortwave Infrared (SWIR) Camera with 5 µm Pixel Pitch

• Revolutionary InGaAs SWIR camera features smallest VGA sensor available.

Camarillo, Calif. – May 26, 2020 – **Attollo Engineering** (www.attolloengineering.com), global engineering experts and suppliers of infrared imaging solutions, LiDAR/LADAR, and laser sensing, introduces the **Phoenix**, a 640 x 512 shortwave infrared (SWIR) camera with the industry's smallest VGA sensor and an extremely small 5 µm pixel pitch. The revolutionary sensor is ideally suited for broadband imaging as well as daylight and nighttime laser see-spot and range-gated imaging.

The cost-efficient, miniature indium gallium arsenide (InGaAs) uncooled SWIR camera is ideal for integration into small gimbals and other low size, weight, and power (low-SWaP) devices, such as handheld, helmet- and soldier-mounted systems. Other applications include machine vision, precision agriculture, driver vision enhancement (DVE), covert illuminated imaging, and laser designator imaging and decode (with separate Attollo laser event detector module). Attollo Phoenix also offers significant cost savings at the system level when compared to competitive SWIR cameras.

The high-performance, InGaAs, 640 x 512, 5 µm pixel pitch SWIR camera's spectral response ranges from 1.0 µm to 1.65 µm with more than 99.5% operability and greater than 70% quantum efficiency. Selectable frame rates include 30 Hz, 60 Hz, 120 Hz, and 220 Hz, with windowing available. The Phoenix has a global shutter imaging mode, and

presets and user-defined integration time of 0.1µs (minimum), plus triggering options of sync-in (low-latency see-spot and range-gating) and sync-out. Other specifications include onboard processing with non-uniformity corrections (NUCs) and bad pixel replacement.

To learn more about Attollo Engineering's Phoenix SWIR InGaAs 640 x 512 with 5 pixel-pitch imager, please visit: https://www.attolloengineering.com/infrared-imaging.html.

ABOUT THE COMPANY:

Attollo Engineering (www.atolloengineering.com – Camarillo, CA) specializes in imaging technology that combines infrared (IR) and laser imaging. The company was founded in 2012 with the purpose of developing ultra-compact and highly functional optoelectronics devices and systems. We are actively working on shortwave infrared (SWIR), extended SWIR, mid-wave IR, and longwave- IR focal planes. Other projects include small precision targeting systems and seeker/spot detector solutions; LiDAR components and systems; MWIR light-emitting diodes (LEDs) for scene generation and beacon applications; innovative image array packaging and electronics, to aid in improving time-to-market for new detector materials, with a focus on small-pixel-pitch hybridization techniques and reconfigurable camera electronics. Markets served include military/defense, unmanned systems, machine vision, automotive, security/surveillance, agriculture, and more.