

NEWS RELEASE

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For Immediate Release

Attollo Engineering's Affordable High-Def SWIR Camera for Military Apps

- *New, larger format (1280 x 1024) HD 5- μ m pixel SWIR Camera is ideal for integration into small gimbals and small unmanned aircraft systems (SUAS).*

Camarillo, Calif. – Jan. 24, 2022 – Attollo Engineering (www.attolloengineering.com), global engineering experts and suppliers of infrared imaging, LiDAR/LADAR, and laser sensing solutions, introduces the affordable, new **Phoenix HD5 SWIR Camera**. The uncooled high definition (HD) format (1280 x 1024 pixels) imager features the industry's smallest shortwave infrared HD sensor and an ultra-small 5- μ m pixel pitch which permits more pixels on target with a short focal length optic. Specially designed for low size, weight, and power (low-SWaP) applications, the HD5 SWIR camera is ideal for integration into small gimbals and small unmanned aircraft systems (SUAS), and other low-Swap handheld and soldier-mounted systems.

Well-equipped for industrial and automotive applications, machine vision, and precision agriculture, the high-performance HD SWIR imager also works extremely well in Driver Vision Enhancement (DVE) tasks.

Based on high-performance indium gallium arsenide (InGaAs) detector technology, Attollo Engineering's new miniature (13 cm³) **Phoenix HD5 SWIR Camera** is extremely lightweight (only 23 g without lens). The compact, low volume camera supports broadband



imaging along with day/night laser see-spot and range-gated imaging. The imaging modes include global shuttering, integrate while read (IWR) and integrate then read (ITR). For critical military operations, the **Phoenix HD5 SWIR camera system** can be used with the separate Attollo Mantis laser event detector module to offer laser designator imaging and decode.

The cost-effective camera captures snapshot SWIR imagery that provides high sensitivity from 1.0 μm to 1.65 μm and the on-board processing offers sharpening, user-defined convolution filters, region of interest (ROI), automatic gain control (AGC), and automatic exposure control (AEC). Video output is parallel CMOS, and optionally, Camera Link, MIPI, and USB3. For more specifications on the economical **Phoenix HD5 (1280 x 1024) SWIR camera**, please view the data sheet at: <https://attolloengineering.com/wp-content/uploads/2021/01/Phoenix-HD-SWIR-Imager.pdf>.

For more information about Attollo Engineering's full line of ultra-compact, affordable sensors and systems that combine high-performing infrared imaging technology with laser imaging, please visit: www.attolloengineering.com

ABOUT THE COMPANY:

Attollo Engineering (www.attolloengineering.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 sensors along with associated packaging into cooled or uncooled assemblies. Other projects include small precision targeting systems and seeker/spot detector solutions; LiDAR components and systems; beacons for personnel recovery; 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.