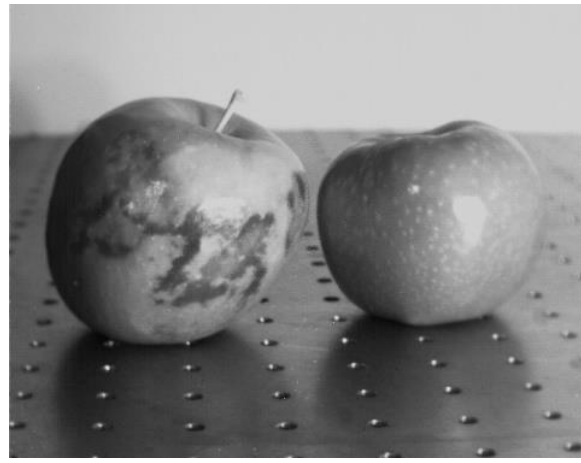


The **Attollo Phoenix QVGA SWIR camera** is a quarter-VGA format (320x256), uncooled SWIR camera featuring the industry's smallest SWIR sensor. The Phoenix captures snapshot SWIR imagery using Attollo Engineering's high-performance InGaAs detector material and the extremely small pixel pitch enables a short focal length optic. The Phoenix QVGA camera is built for low SWaP applications and offers a significant opportunity for cost-savings at the system level compared to competing SWIR cameras. This new low-cost, miniature camera is ideal for machine vision, microscopy, fiber alignment, and drone applications.



The Phoenix is designed and manufactured in Attollo's 34,000 ft<sup>2</sup> facility in Camarillo, California. Attollo specializes in sensors that combine IR and laser imaging.



## Applications

- Machine vision
- Small gimbals and SUAS
- Optical fiber alignment
- Precision agriculture
- Driver Vision Enhancement (DVE)
- Microscopy

**Attollo Engineering is a merchant supplier of standard and custom format InGaAs detector arrays, hybridized focal plane arrays, and camera assemblies.**

## Specifications

Camera	
Detector Material	InGaAs
Spectral Response	1.0 $\mu\text{m}$ - 1.65 $\mu\text{m}$
Array Format	320x256
Pixel Pitch	5 $\mu\text{m}$
Operability	> 99.5%
Quantum Efficiency	> 60%
Frame Rate	30 Hz, 60 Hz, 120 Hz, 240 Hz
Imaging Mode	Global shutter, Integrate Then Read (ITR)
Integration Time	Presets and user-defined, minimum = 100 ns
On-Board Processing	Sharpening, Gaussian blur, region of interest (ROI), AGC, AEC

Electrical	
Input Voltage	5 V $\pm$ 10%
Power Consumption	1.2 W at 30 Hz, 1.3 W at 60 Hz
Video Output, I/O	Parallel, USB3, or USB, depends on personality board

Mechanical	
Volume	13 cm <sup>3</sup> (without lens or personality board)
Weight	23 g (core, no lens)
Mounting	0-80, 1/4"-20 adapter available
Lens Mount	C-mount
Connector	Parallel, USB-C, Camera Link

Environmental	
Operating Temperature Range	- 20°C to +65°C

