

Specifications

The Contractor shall furnish one (1) Allied Visions Technology (AVT) Goldeye 0-32 single-stage, cooled, short-wave-infrared (SWIR) camera. The Contractor shall also furnish one (1) C-mount for optics, including necessary power supply and mounting accessories. The camera, optics and accessories shall adhere to the following specifications:

- Spectral Range = 900 nm* to 1700 nm
- C-Mount
- Gigabit Ethernet (GigE) data connection
- Supported by LabView Vision Acquisition Software
- Capable of power over Ethernet (POE)
- Dark noise less than or equal to 400 e⁻ (Gain0), 170 e⁻ (Gain1)
- Dark current less than or equal to 380 ke⁻/s (@ +20 °C FPA Temperature)
- Dynamic Range more than or equal to 73 dB (Gain0), 47 dB (Gain1)
- Capable of 100 frames per second (FPS) or more
- Pixel size (pixel pitch, cell size)
 - o 12.5 micrometer x 12.5 micrometer
 - Then 1280 x 1024 pixels or larger
 - o 25 micrometer x 25 micrometer
 - Then 636 x 508 array of pixels or larger

nm = nanometers