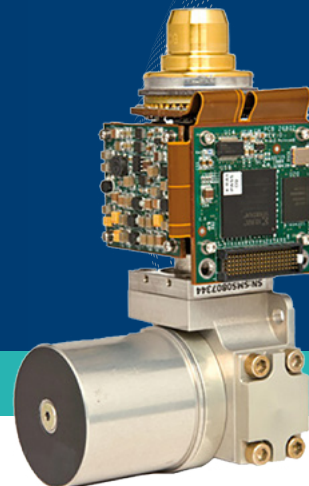




Pelican-D

640 X 512 Insb Digital IDCA 15 μ m



General Description

Pelican-D was developed for high performance systems requiring outstanding sensitivity and the flexibility provided using a digital ROIC.

Pelican-D is a 640 x 512 element, 15 μ m pitch, InSb 2-D MWIR Digital IDCA. The FPA has a new all-digital ROIC, based on the 0.18 μ m CMOS Process.

Pelican-D is available in the same configurations as the legacy analog Pelican, with a large variety of cold shield apertures and cooler types.

The proximity board provides the FPA timing and sensitive power supplies. A Camera Link interface highly simplifies the integration of the detector to the system.

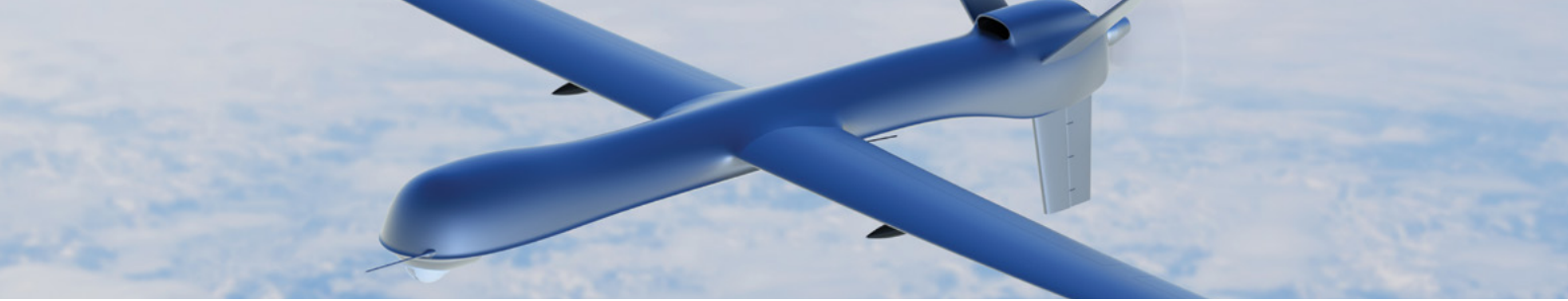
Applications

- Surveillance
- Hand Held Goggles
- Airborne EVS
- Remote Weapon Stations
- Non-Destructive Testing
- UAV's

Main Features

- High frame rate (300Hz at full window)
- Digital high-speed ROIC
- Programmable read-out modes and Windowing
- Camera Link interface
- Integrate-Then-Read and Integrate-While-Read Integration modes





Typical Performance

Parameter	Value
Detector Material	InSb, 77°K
Format	640 x 512
Pitch	15µm
Pixel capacity	6Me-
Maximum frame rate at full window	300 F/S @ 13 BIT resolution 240 F/S @ 14 BIT resolution 190 F/S @ 15 BIT resolution
Readout mode	ITR, IWR
Readout Direction	Top-down/bottom-up
Windowing	Flexible: in 2-row steps
Typical NETD	20mK@50% Well Fill Capacity
Typical Residual Non Uniformity	<0.04% STD/DR@10-90% Well Fill Capacity
Response uniformity	<2.5% STD/DR

Specifications are subject to change without notice