

mini-Nyx Smart IDCA

Advanced Thermal Imaging 640 x 512 or 320 x 256 Format HOT MWIR

- OEM integrated detector cooler assembly (IDCA)
- Low size, weight and power (SWAP) - compact, flexible package
- Smart IDCA - A/D and Camera Link video interface
- HOT Type II Strained Layer Superlattice (T2SLS) or HOT Mercury Cadmium Telluride (MCT) MWIR cooled IRFPA
- Designed for ease of integration into gimbal payloads, instruments, multi-sensor platforms and camera systems

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AIRS Delivers Advanced Thermal Imaging

AIRS' cameras and integrated detector cooler assemblies (IDCA) offer high-performance LWIR, MWIR and SWIR imaging utilizing state of the art MCT or T2SLS IRFPAs. The sensitivity and resolution of the Nyx series can meet the most demanding imaging needs. State of the art technologies, designs, and vertically integrated manufacturing allow AIRS to provide system integrators advanced, mission-critical imaging capability.

IR FOCAL PLANE ARRAY

| | |
|---------------------|---|
| Sensor Type | HOT Type-2 SLS or HOT MCT |
| Array Format | 640 (h) x 512 (v) or (320x256) |
| Pixel Pitch | 15 μm or (30 μm) |
| IRFPA Spectral Band | Broadband (2 - 5 μm) |
| Sensitivity NETD | 25 mK typical |

OPTICAL INTERFACE (CUSTOMIZABLE)

| | |
|----------------------|--|
| Cold shield | f/1 to f/6; customizable |
| Cold Filter Bandpass | 3.4 - 5.2 μm (customizable) |

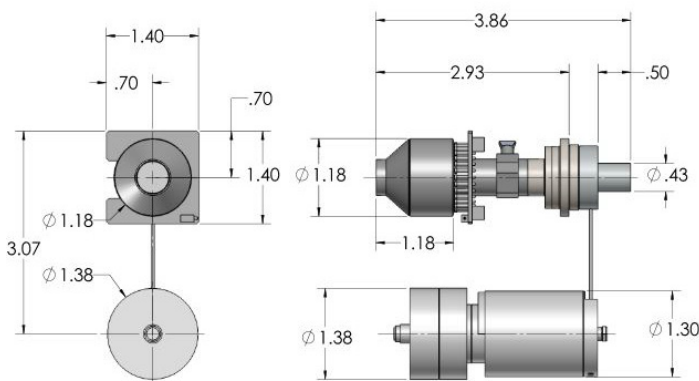
Internal dewar optics and components to customer specifications

COOLER - SPLIT LINEAR OR INTEGRAL

| | |
|----------------------|---------------------------|
| MTTF | > 10,000 hours (integral) |
| | > 25,000 hours (split) |
| Cool Down Time @ 23C | <6 minutes to 130°K |

SPLIT CONFIGURATION

(Shown with optional proximity electronics)



ELECTRICAL

| | |
|--------------------------|--|
| Voltage | 12 V nominal |
| Power Dissipation @ 23°C | <6 Watts typical steady state (integral) |

MECHANICAL

Split Configuration

| | |
|-----------------------------|------------------|
| Dimensions (l x w x h) | see figure below |
| Weight | 15.2 oz. |
| Transfer tube configuration | customizable |

Integral Configuration

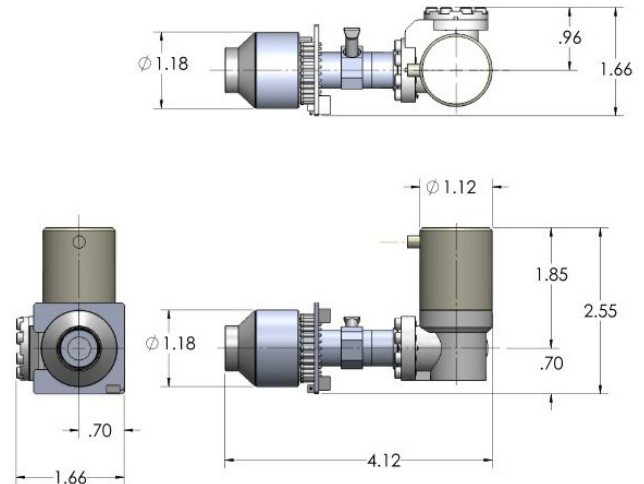
| | |
|------------------------|------------------|
| Dimensions (l x w x h) | see figure below |
| Weight | 9.4 oz. |

ENVIRONMENTAL

| | |
|-----------------------|----------------|
| Operating Temperature | -40°C to +70°C |
| Storage Temperature | -50C° to +70C° |

INTEGRAL CONFIGURATION

(Shown with optional proximity electronics)



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