HD hi-Nyx HOT MWIR Camera
1280 x 1024 format HOT MWIR Thermal Imaging Camera

- 12 micron pixel HOT MWIR (Type II SLS, nBn)
- State of the art “HOT” operating temperature IRFPA
- Long life linear cooler
- OEM large format high resolution camera
- Onboard video processing
- HDMI output or CameraLink
- Low size, weight and power (SWAP) - compact, flexible package
**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, nBn, InSb or T2SLS IRFPAs. The sensitivity and resolution of the hi-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 MWIR: T2SLS, nBn
- Array Format: 1280 (h) x 1024 (v) or other windowed format
- Pixel Pitch: 12 μm
- IRFPA Spectral Band: 2 - 5 μm MWIR
- Sensitivity NETD: 25 mK typical
- Frame rate: 60Hz

**LENSES AND OPTICAL INTERFACE**

- Cold shield: f/3
- Lens: 25mm
- FOV: 43 deg
- Cold Filter Bandpass: 3 μm LP typical

*Internal dewar optics and components can be customized to customer specifications*

- Coldshield: f/1 - f/6
- Cold Filter Bandpass: Specified bandpass or none

**SPLIT LINEAR COOLER**

- MTTF: > 20,000 hours
- Cool Down Time @ 23°C: < 10 minutes to 120°C

**ELECTRICAL**

- Voltage: 12 V nominal
- Power Dissipation @ 23°C: 5.5 Watts typical steady state
- Power dissipation: 6.5 Watts max power

**MECHANICAL**

- Full camera with 25mm lens and onboard video processing
- Dimensions (l x w x h): 5” x 4” x 3” (Excluding Lens)
- Weight: 3 lb 6 oz (Including 25mm Lens)

**ENVIRONMENTAL**

- Operating Temperature: -40°C to +60°C
- Storage Temperature: -50°C to +70°C

**VIDEO**

- HDMI or CameraLink output

**CAMERA CAPABILITIES (DRI SPECIFICATIONS)**

**HD hi-Nyx Camera With 25mm Lens (as shown)**

<table>
<thead>
<tr>
<th>25mm Lens</th>
<th>Detect</th>
<th>Recognise</th>
<th>Identify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human</td>
<td>0.86 km</td>
<td>0.27 km</td>
<td>0.13 km</td>
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<tr>
<td>Vehicle</td>
<td>2.27 km</td>
<td>0.75 km</td>
<td>0.36 km</td>
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**AIRS HD hi-Nyx Camera With 100mm Lens (available)**

<table>
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<th>100mm Lens</th>
<th>Detect</th>
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<td>1.01 km</td>
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<tr>
<td>Vehicle</td>
<td>6.98 km</td>
<td>2.70 km</td>
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**AMERICAN INFRARED SOLUTIONS**

One Wall Street
Hudson, NH 03051
(603) 626-2477
www.go-air.com