Nyx HD-M
Advanced Thermal Imaging Camera
HD 1024 x 720 MWIR

- OEM large format, high resolution camera
- Higher performance in demanding environments
- Type II Strained Layer Superlattice (T2SLS) MWIR cooled IRFPA
- Superior temperature sensitivity
- State of the art “HOT” operating temperature IRFPA for longer cooler life
- First purpose-built tactical T2SLS camera
AIRS Delivers Advanced Thermal Imaging

AIRS’ infrared cameras offer large format, high-performance LWIR, MWIR and SWIR imaging utilizing state of the art MCT and 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.

**Nyx HD-M**

**IR FOCAL PLANE ARRAY**
- Sensor Type: HOT Type-2 SLS
- Array Format: 1024 (h) x 1024 (v)
- Pixel Pitch: 18 μm
- Spectral Band: (3 – 5 μm)
- Sensitivity NETD: 25 mK @ f/4.0

**COMMUNICATION**
- Serial Interface: RS-232/RS-422/USB

**OPTICAL**
- Baseline Lens - EFL, FOV, F/#: 100mm, 10°, f/4.0
- Focus Range: 5m - ∞
- Imaging Spectral Band: MWIR (3 – 5 μm)

**COOLER – SPLIT LINEAR US ARMY B-2 QUALIFIED**
- MTTF: > 10,000 hours
- Cool Down Time @ 25°C: 8 minutes to 77°K

**ELECTRICAL**
- Voltage: 12 VDC and 28 VDC
- Power Dissipation @ 25°C: 20 Watts typical steady state

**MECHANICAL (WITH 6° LENS)**
- Dimensions (LxWxH): 11.33 x 3.58 x 5.15 in.
- Weight: 5.7 lbs.
- Camera Mount: standard 1/4”-20

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

**OBJECTIVE LENS OPTIONS**
- 18 mm focal length: 40° FOV
- 527 mm focal length: 2° FOV
- Other focal lengths: Available

**VIDEO**
- Frame Rate: 60 Hz
- Analog Output: SMPTE 720 (1024 x 720) NTSC or PAL
- Digital Output: Ethernet H.264, 14 bit Camera Link or GIG-E

**IMAGERY DISPLAY OPTION**
- IRIG-B Date/Time Stamp

**DETECTION (km)**
- 6° FOV, f/3; 23km rural visibility
  - 5.2
  - 14.3
  - 19.7

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