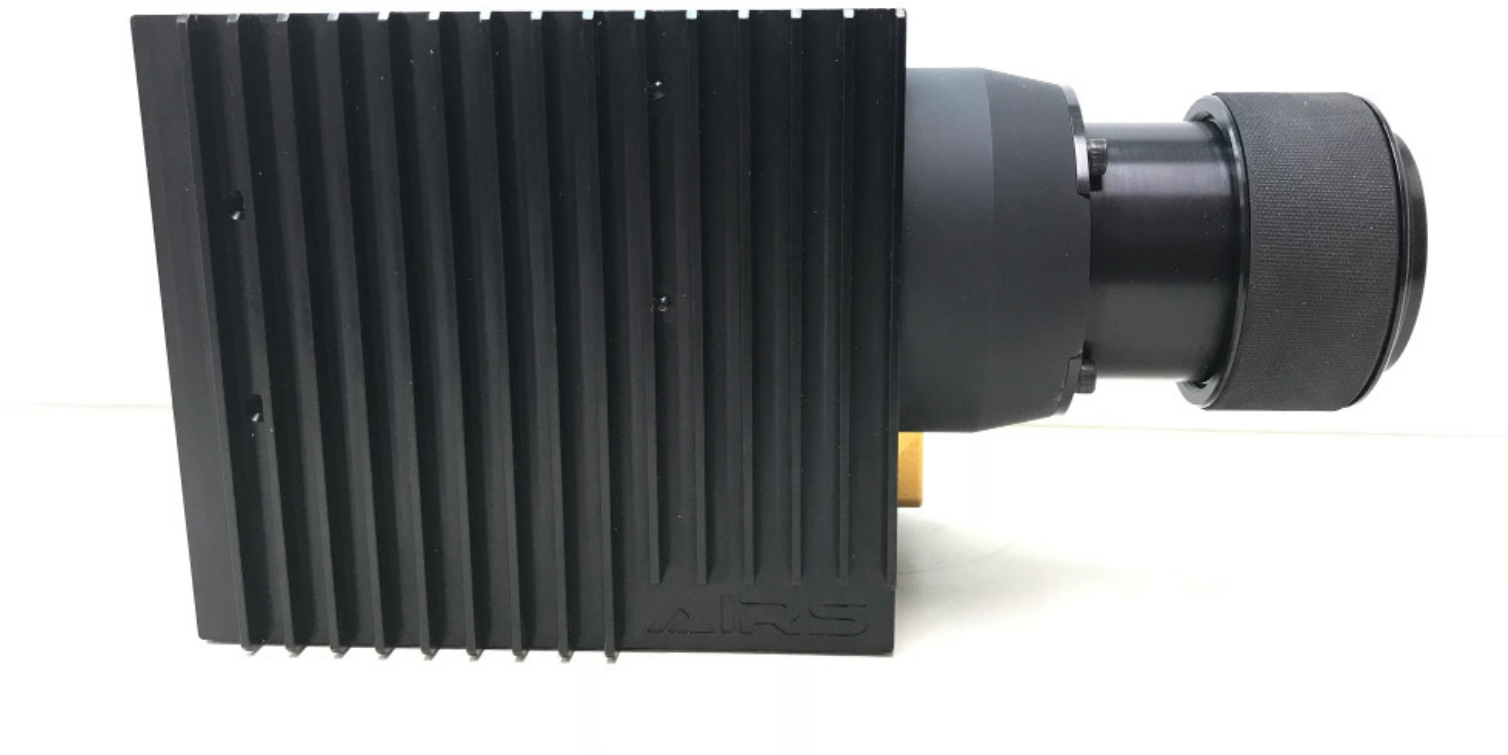
AMERICAN INFRARED SOLUTIONS



HD hi-Nyx HOT MWIR Camera

1280 x 1024 format HOT MWIR Thermal Imaging Camera

- 12 micron pixel pitch HOT MWIR (Type II SLS or nBn)
- Long life linear cooler
- OEM large format high resolution camera
- Onboard video processing
- HDMI output or CameraLink output
- Low size, weight and power (SWAP) - compact, flexible package

INFRARED IMAGING

distributed by Infrared Imaging LLC
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hi-Nyx HD

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

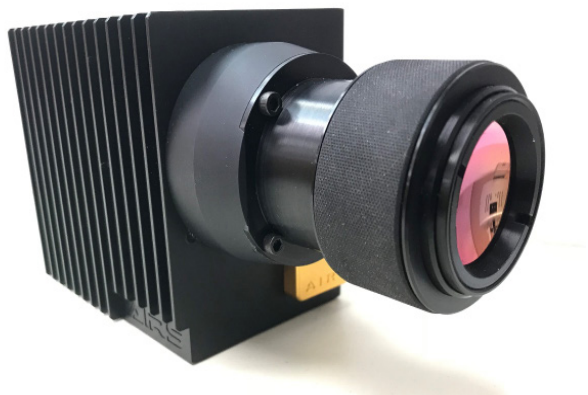
Sensor Type	HOT MWIR: T2SLS or nBn
Array Format	1280 (h) x 1024 (v)
	Or other windowed format
Pixel Pitch	12 µm
IRFPA Spectral Band	2 - 5 µm MWIR
Sensitivity NETD	25 mK typical
Framerate	60hz

LENS AND OPTICAL INTERFACE

Cold shield	f/3
Lens	25mm
FOV	43 deg
Cold Filter Bandpass	3µm 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 @ 23C	< 10 minutes to 120°K

ELECTRICAL

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

MECHANICAL

Full camera with 25mm lens and onboard video processing

Dimensions (l x w x h)	5"x4"x3" (Excluding Lens)
Weight	3 lb 6oz (Including 25mm Lens)

ENVIRONMENTAL

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

VIDEO

HDMI or CameraLink output

CAMERA CAPABILITIES (DRI SPECIFICATIONS)

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

25mm Lens	Detect	Recognize	Identify
Human	0.86 km	0.27 km	0.13 km
Vehicle	2.27 km	0.75 km	0.36 km

AIRS HD hi-Nyx Camera With 100mm Lens (available)

100mm Lens	Detect	Recognize	Identify
Human	3.05 km	1.01 km	0.48 km
Vehicle	6.98 km	2.70 km	1.39 km

AIRS
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