



1280 x 1024 Nucleus Mid Wave Infrared Camera

- High resolution, high sensitivity, and low noise infrared camera is well suited to demanding defense and scientific applications.
- AIRS Nucleus™ MWIR Camera design is light weight and low power enabling both portable field use and easy system integration.
- Available with or without a handle in a rugged aluminum chassis.
- Bayonet mount enables easy lens swapping between various lens focal lengths.
- Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.
- On board video processing enables corrected video output with custom non-uniformity tables and user applied pixel maps for maximum performance.

AIRS Nucleus™ MWIR Camera

Nyx Nucleus™ MWIR Camera

Sensor

Type	HOT MWIR
Response	3-5µm
Resolution	1280 x 1024
NEdT	<25mk
Pixel Pitch	12µm

Electronics

Frame Rate	60Hz
Integration Time	100µs to 98% full frame
Integration Type	Integrate-While-Read
A/D Resolution	16-bit
Video Output	Camera Link Base or USB3 Vision
Communication	RS-232 Serial over Camera Link or USB3 Vision

Optics

Cold Filter	3.0µm cut-on
Lens Type	25, 50, 100mm, other options
F Number	f/2.5
Lens Mounting	Bayonet
Lens MTF Data	Available on request

Mechanical

Size Without Lens	L x W x H (6 x 3.5 x 4 in)
Weight Without Lens	Approximately 4 lbs.
Cool Down Time	6 minutes typical
Cooler Type	Linear cooler
MTTF	>15,000 hours
Camera Mount	1/4"-20 standard tripod

Environmental

Operating Temp	-20°C to + 50°C
Storage Temp	-50°C to + 70°C

Electrical

Input Voltage	16V
Steady State Power	22W @ 23°C Typical
Max Power	30W

Control

Nyx Connect™ software simplifies set-up and control of critical sensor settings and digital video through a reliable Camera Link or USB3 Vision connection.
See our video options data sheet.



Certain AIRS infrared cameras and technologies are controlled under the International Traffic in Arms Regulations (ITAR) and may not be sent outside the US, or made available to a foreign person wherever located, except in accordance with ITAR and as approved by the US Government.

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Specifications subject to change