

## 1280 x 1024 Nucleus Long Wave Infrared Camera

- High resolution, high sensitivity, and low noise infrared camera is well suited to demanding defense and scientific applications.
- AIRS Nucleus™ LWIR 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<sup>™</sup> 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 nonuniformity tables and user applied pixel maps for maximum performance.

## AIRS Nucleus™ LWIR Camera

Nyx Nuc	leus™	LWIR	Camera
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 Sensor

 Type
 SLS

 Response
 7.5-12μm

 Resolution
 1280 x 1024

 NEdT
 <30mk</td>

 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 7.5µm cut-on

Lens Type 25, 50, 100mm, other options

F Number f/2.0 Lens Mounting Bayonet

Lens MTF Data Available on request

Mechanical

Size Without Lens

L x W x H (7.5 x 3.5 x 5 in)

Weight Without Lens

Cool Down Time

Cooler Type

MTTF

L x W x H (7.5 x 3.5 x 5 in)

Approximately 6 lbs.

6 minutes typical

Linear cooler

>20,000 hours

Camera Mount 1/4"-20 standard tripod

Environmental

Operating Temp  $-20^{\circ}\text{C to} + 50^{\circ}\text{C}$ Storage Temp  $-50^{\circ}\text{C to} + 70^{\circ}\text{C}$ 

Electrical

Input Voltage 24V

Steady State Power 25W @ 23°C Typical

Max Power 40W

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.