

# Alpha NIR Camera



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## VENDOR DESCRIPTION

**Alpha NIR** is a sensor head that employs a 320 x 256 Indium Gallium Arsenide (InGaAs) focal plane array (FPA). InGaAs detectors are highly sensitive to energy in the near-infrared (NIR) and short-wave infrared (SWIR) wavebands from 900 to 1700 nanometers, well beyond the range of silicon CCD cameras.

Alpha NIR advantages

- Solid-state reliability
- Industry's best NIR sensor linearity
- National Instruments compatibility
- Comprehensive Infrared Imaging Software (IRvista)



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Business Category: Large Business

PIR

Power Source		Environmental	
Sensor	6 VDC power supply (furnished)	0-40°C	Conductively cooled temperature range
		0-35°C	Still air temperature range option
		Altitude	5,000 ft (Operating) 50,000 ft (Transit)
		Humidity	95% non-condensing
		Shock/Vibe	Half-sine profile, 20G acceleration, 11 msec pulse width (Shock pulses transmitted through mounting surface only)

Sensor	Description	Detection	Size/Weight	Features
Passive Infrared	320 x 256 InGaAs detector	Lens dependent	5.3cm x 6.4cm x 9.5cm Weight: 350 g (camera less lens)	■ Sensitivity (NEI): $<1 \times 10^{10}$ ph/cm <sup>2</sup> /sec

Device	Description	Message Type	Size/Weight	Features
Optics	25mm	N/A	111 grams	■ Aperture manually adjustable
	50mm		145 grams	