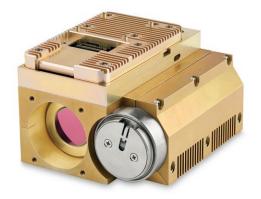
# **\$**FLIR



## HIGH PERFORMANCE MIDWAVE INFRARED THERMAL CAMERA FLIR Neutrino<sup>™</sup> SX12

The Neutrino<sup>™</sup> SX12 is a SXGA-resolution midwave infrared (MWIR) camera module available in the FLIR Neutrino performance line. The Neutrino SX12, based on a 1280 x 1024, 12 µm indium antimonide (InSb) focal plane array (FPA), is ideal for ground based or airborne Intelligence, Surveillance and Reconnaissance (ISR) and Counter UAS (CUAS) missions by offering high speed, high-resolution imagery while still maintaining a compact opto-mechanical package.

The Neutrino SX12 was developed with system integrators in mind. The industry standard interfaces, simple and powerful software controls, complete product documentation and FLIR OEM technical support reduces product development risk and shortens time to market.

www.flir.com/neutrino



CONFIGURABLE HD+ MWIR CORE Flexible detector types, FPA window sizes, frame

- 1280 x 1024, 12 µm pixel pitch FPA provides high resolution with greater sensitivity
- 12.0 x 7.4 x 11.2 cm and 1.97 kg

rates, and optical interface options

 The >1.3 megapixels provide crisp imagery for a small instantaneous field of view (IFOV) at longer standoff distances while maintaining a wide field of view (FOV)



**DESIGNED FOR INTEGRATORS** Simplify development and shorten time to market

- Built-in support for physical and protocol-level industry standards (e.g. RS-422 and 14-bit corrected CameraLink)
- Mature infrared video processing architecture and robust SDK
- Classified under US Department of Commerce jurisdiction as EAR 6A003.b.4.a

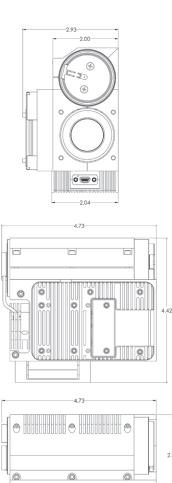


FLIR VALUE AND REPUTATION The performance, reliability and support expected from FLIR

- Comprehensive product documentation
- Commercially developed, military qualified (CDMQ)
- Highly-qualified FLIR Technical Services team available to support integration

### SPECIFICATIONS

Imaging	Neutrino SX12
Sensor Technology	MWIR
Pixel Pitch	12 µm
Detector Type	InSb (T2SL option)
FPA/Digital Video Display Format	1280 x 1024
Spectral Band	3.4 μm – 5 μm (Standard)
Frame Rate	120 Hz (720P), >60 Hz (SXGA)
Sensitivity (NEdT)	<25 mk, f/4, 50% well
Operability	>99.5%
Time to Image	<7 min @ 22°C ambient
Physical Attributes	
Size (without optics)	12.0 x 7.4 x 11.2 cm (4.73 x 2.93 x 4.42 in)
Weight	1.97 kg (4.34 lb)
ROIC Type	Direct Injection, Snapshot, Integrate While Read
Programmable Integration Time	Yes (.01-16 ms)
Well Capacity	>11 x 10 <sup>6</sup> electrons
Coldshield	f/4 nominal, customizable
Sync Modes	Free run, external sync with readout or integration priority
Interfacing	
Digital Output Format	Camera Link Medium compatible interface
Primary Electrical Connector	40-pin Samtec
Input Power	5 VDC Camera, 28 VDC Cryocooler
Power Consumption	<20 W Steady State
Command and Control	RS-422, selectable BAUD rate
Image Correction	2-point (offset and gain) and bad pixel replacement
User Configurable via SDK & GUI	Yes
Operating Temperature	-40°C to +71°C (-40°F to +160°F)
Non-operating Temperature	-54°C to +80°C (-65°F to +176°F)
Operational Altitude	12,190 m (40,000 ft)
Vibration	4.3 GRMS three axis, 1 hr each
Shock	20 G Shock Pulse W/11 ms Half Sine



กระบานการของเป็นของเรา

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

#### PORTLAND

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# **\$**FLIR

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