



EUROPEAN MANUFACTURING



NDA COMPLIANT



BUILT-IN AI & STORAGE



TECHNICAL SPECIFICATIONS

	LWIR 320-19	LWIR 640-19
Detector Type	320 × 240 12 μm	640 × 480 12 μm
Spectral Range	LWIR 8 μm – 14 μm	
Non-Uniformity Correction	built in shutter with FFC	
Digital Zoom	1x – 8x continues	1x – 8x continues
Focal Length	19 mm	
FoV [H × V]	44.9° (H) × 33.7° (V)	89.8° (H) × 67.4° (V)
Memory	32Gb : 4 hours of video	
Package	Single Package with USB3.2 / Analog out	
Size	27 × 27 × 45 mm (10 × 10 × 1.8 in)	
Weight	52 grams	
Control Channels	UART, USB, I2C, SDIO	

KEY FEATURES

- 12μm thermal detector, NETD < 20 mK
- Fast 60 Hz imaging
- 1x, 2x, 4x, 8x Digital zoom
- Adjustable color palettes
- Full on-board overlay
- Built-in shutter with FFC
- LWIR 8 μm – 14 μm Spectral Range
- Picture-in-Picture mode
- Built-in EMMC storage (32 GB)
- Standby mode
- Analog or USB video out
- AI Subsystem with SDK
- Onboard video recording and image capture
- External power supply compatibility
- Waterproof & shockproof
- 3-year warranty

DETECTION RANGE*

Model	Focal mm	Human Detection (m)	Vehicle Detection (m)	Human Recognition (m)	Vehicle Recognition (m)	Human Identification (m)	Vehicle Identification (m)
LWIR 320-19	19	1000	2430	250	610	130	300
LWIR 640-19	19	1000	2430	250	610	130	300

* Detection range may vary depending on target size, environmental conditions and system configuration.

OVERVIEW

The LWIR Thermal Camera combines many features in a heavy-duty MIL-style design, making detection and identification easy with built-in AI. The LWIR camera has built-in enhanced image processing, overlay, security, AI subsystem, and HD streaming. The Thermal Camera features a 12-micron sub-20-millikelvin thermal detector that works with high-quality 640 × 480 and 320 × 240 sensors. The internal 32 GB of memory provides users with 4–6 hours of continuous field recording.

The heavy-duty, highly intelligent design of the Thermal Camera allows its use in drones and surveillance systems with minimal human intervention. Pairing all these physical aspects with built-in recording, external power options, extended interfaces, and video codecs through the USB Type-C 3.2 port or analog, various color palettes, and 32GB of internal storage capacity makes the LWIR Camera one of the most functionally diverse and lightweight products in the drone family of products.

IDEAL FOR



UAVs / Drones



Surveillance & Security



Perimeter Monitoring



Thermal Scopes



Robotics



Search & Rescue

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