

# EVIDIR®

LOW-SWAP PACKAGE WITH THERMOGRAPHIC ABILITY



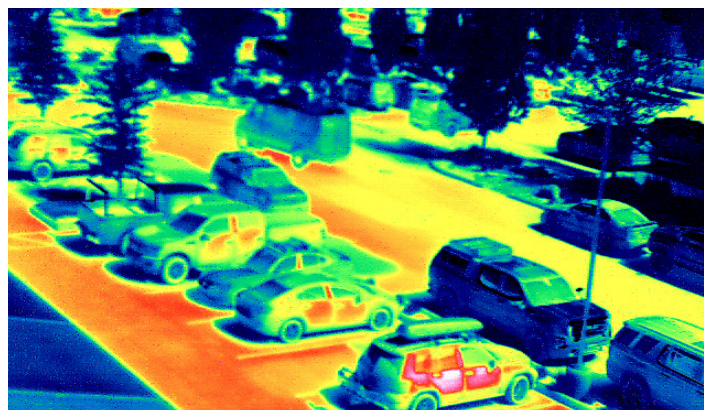
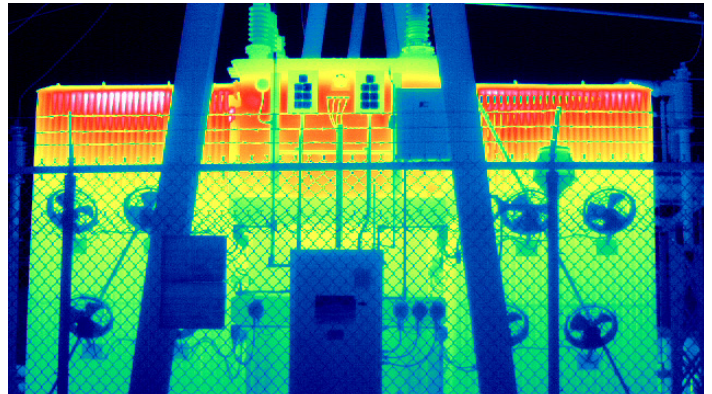
Optimized size, weight and power EVIDIR® alpha camera by Jenoptik delivers sharp and detailed thermal images with a thermal sensitivity of better than 30 mK NETD and an array format up to 640 x 480 pixels. Radiometric calibration is available with the thermographic camera modules for absolute temperature data.

## DETAILS

The EVIDIR® alpha is Jenoptik's latest advancement in thermal imaging technology. Radiometric calibration provides absolute temperature data in a package that minimizes size, weight, and power. Available in different interface configurations, each boasting 30 mK NETD sensitivity on a 640x480 pixel array.

## APPLICATIONS

- + Interface options included CMOS, GigE, USB
- + Visualization & mapping of temp distributions
- + Non-contact measurement of temp data
- + Modular approach allows easy integration into many applications.
- + Standard modules, infrared cores, and OEM solutions available
- + Ideal for portable and mobile applications due to Low-SWaP
- + Low-SWaP integration
- + Security & surveillance
- + Airborne
- + Fire detection & monitoring
- + Transportation systems
- + Disaster response
- + Unmanned vehicles
- + Preventative maintenance



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EXPORT CLASSIFICATION: DUAL USE

## FEATURE SPECS

### DETECTOR

	USB	GigE	CMOS
Detector Type	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer
Array Format	640 x 480	640 x 480	640 x 480
Pixel Pitch	12 Micron	12 Micron	12 Micron
Spectral Response	LWIR	LWIR	LWIR
Frame Rate	60 Hz   9 Hz available	60 Hz   9 Hz available	60 Hz
Bit Depth	16-bit	16-bit	16-bit
NETD	<30 mK with filtering	<30 mK with filtering	<30 mK with filtering

### ENVIRONMENTAL

	USB	GigE	CMOS
Operating Temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Power Dissipation	Peak 2.05W Typical 1.2W	2.8W PoE 2.2W @ 12V DC	1.5W Shutter 0.9W Typical

### SYSTEM

	USB	GigE	CMOS
Digital Video Output	USB3.0 UVC	GigE Vision	Parallel CMOS
NUC	1-point w/ shutter or through lens	1-point w/ shutter or through lens	1-point w/ shutter or through lens
Color Palette Options	13 color palette options	13 color palette options	13 color palette options
Digital Zoom/Pan	1X to 8X Centered	1X to 8X Centered	1X to 8X Centered
Camera Control/Command Interfaces/System Control	UART	UART	UART
Input Voltage	3.3 VDC	PoE or 9-36 VDC	3.3 VDC
Measurement Accuracy	+/-2K for -10C to +120C Object +/- 5k or +/- 2% (higher one) for +120C to +600C object	+/-2K for -10C to +120C Object +/- 5k or +/- 2% (higher one) for +120C to +600C object	+/-2K for -10C to +120C Object +/- 5k or +/- 2% (higher one) for +120C to +600C object

### LENS MODELS

	6.2mm	13.6mm	25mm
FOV	75° x 55°	32° x 24°	17.6° x 13.2°
F#	1.0	1.0	1.0
Weight	USB: 56g GigE: 66g CMOS: 46g	USB: 43g GigE: 53g CMOS: 33g	USB: 91g GigE: 101g CMOS: 81g
Size (L x W x H)	USB: 49 x 34 x 34mm GigE: 73.3 x 34 x 34mm CMOS: 39 x 34 x 34mm	USB: 45 x 30 x 30mm GigE: 68 x 30 x 30mm CMOS: 35 x 30 x 30mm	USB: 61 x 41 x 41mm GigE: 79 x 30 x 30mm CMOS: 52 x 41 x 41mm