



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.

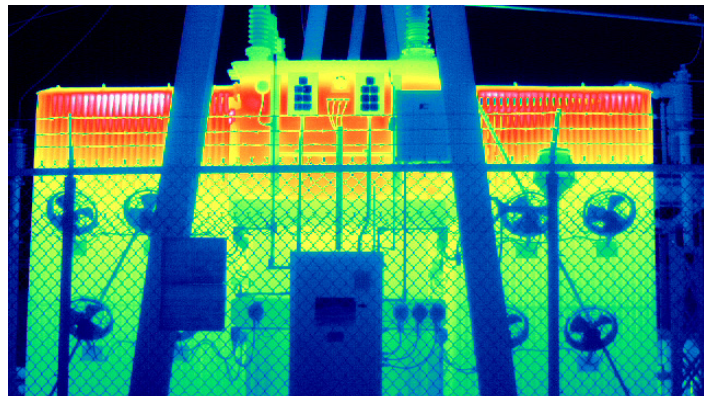
DETAILS

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

- + Low-SWaP integration
- + Security & surveillance
- + Airborne
- + Fire detection & monitoring
- + Transportation systems
- + Disaster response
- + Unmanned vehicles
- + Preventative maintenance

- + 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



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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



Detector Type	Uncooled Microbolometer
Array Format	640 x 480
Pixel Pitch	12 Micron
Spectral Response	LWIR 8-14µm
Frame Rate	9Hz, 60Hz
Bit Depth	16-bit
NETD	≤30 mK
Measurement Range	-40°C to +120°C 0°C to +600°C

ENVIRONMENTAL



Size (L x W x H)	30 x 30 x 20 mm (without lens)
Weight	≤ 30g (without lens)
Input Voltage	3.3VDC
Power Dissipation	≤ 1.05 W
Operating Temperature	-25°C - 60°C

SYSTEM



Image Data	Corrected RAW 16 bit, Mono 8 bit, YCrCb 4:2:2, YCrCb 4:4:4, RGB 24 bit
NUC	Shutter based NUC with mechanical shutter. Shutterless with object NUC (external action required)
Measurement Accuracy	+/- 5K or 5% +/- 3K or 3% (in high accuracy sub ranges)
Interface Options	CMOS, GigE or USB Demonstration, Camera Link

LENS MODELS



	FOV	F/#
25 mm	17.6° x 13.2°	1.0
13.6 mm	32° x 24°	1.0
6.2 mm	75° x 55°	1.0

