



CAM/IR 2227 U

ULTRA LIGHT THERMAL IMAGER

For UAV & Aerial Applications

**With Exclusive
SunTech Technology**
*Preventing Detector
Sun Damage*

Thermal Imager Specifications

Features:

- Optional absolute temperature colorization
- White-hot or black-hot polarity selectable
- Factory Preset Electronic Zoom from 2x or 5x
- Optional selectable temperature indication at central crosshair

Focal Plane Array

Material, Structure, & Format	Amorphous Silicon Microbolometer
Spectral Response	7-14 μm (filter bandwidth)
Thermal Sensitivity	<50mK
Refresh Rate	Real-time 30Hz
Display	Interpolated 640 x 480 (320 x 240 Pixel Array Detector)

Performance

Start-up Time	2.4 sec +/-10% (@25°C)
Contrast/Brightness	Automatic/Advanced Image Processing
Saturation Temperature	1100°F (600°C) +/-10% w/automatic electronic iris

Optics

Focal Length	50mm	25mm	16mm
Field Of View	~11°x 8°	~17°x 12°	~32°x 24°
Range to Detect Human Activity	11°FOV: Up to 1500' (475 meters); 17°FOV: Up to 1000' (305 meters); 32°FOV: Upto 550' (170 meters)		
Focus Method	Manual		

Power

Input Voltage	8 to 32 VDC
Input Power	~2.0 W @25°C ambient, 12 VDC

Physical Characteristics

Weight - Size	26 oz (0.74 kg) 9"L x 3.75"W x 2.6"H
Operating Temperature	-4°F to 185°F (-20°C to 85°C)
Storage Temperature	-40°F to 221°F (-40°C to 105°C)
OEM "Seal-Ready" Design	11°FOV: 17°FOV: 32°FOV: 2x Extender 5.

Video

Analog Output	NTSC; Real-Time 30hz Frame Rate PAL; Real-time 25hz Frame Rate
Digital Output (optional)	Full-resolution, 16-bits (corrected or uncorrected) or 24-bits, plus control signals; 30hz Frame Rate (NTSC) or 25hz Frame Rate (PAL)
Output Resolution	NTSC: 640 x 480 pixels for higher clarity thermal images & symbology overlay PAL: 768 x 574 pixels for higher clarity thermal images & symbology overlay