



## CAM\IR 2300



### Applications:

**MILITARY**

**LAW ENFORCEMENT**

**RESIDENTIAL**

**COVERT OPERATIONS**

**EXECUTIVE SECURITY**

**INDUSTRIAL**

### Features:

- State of the art thermal imaging
- Dual Image with visual camera
- Day or night full image resolution
- Eliminates need for enhanced light
- Cost-effective
- Reduces energy costs
- Full motion and real time video
- Optional window wiper assembly
- Thermostatically controlled heating and cooling
- Weatherproof machined enclosure
- O ring sealed

### Options:

Wireless  
Hardwire  
Fibre Optic

LAN  
Pan & Tilt

Motion Detection  
Thermal Detection



Contract Holder GS-03F-0035L

Model numbers and specifications are subject to change without notice.

[www.infrared.com](http://www.infrared.com)



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# CAM\IR 2300



## Infrared Camera Specifications

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### Performance

**Noise Equivalent Temperature Difference:** 0.13°C, maximum, 0.1 typical (with recursive filter disabled,  $f/1.0$  lens)

**Video Dynamic Range:** 9 bits analog, 16 bits digital

**Startup:** <30 seconds (typical)  
<90 seconds (maximum)

**Frame Rate:** 30 Hz NTSC, 25 Hz PAL

**Contrast/Brightness Control:** Automatic or manual

**Image:** Grayscale, white objects hot or cold (selectable)

**Recursive Filter:** 2, 4, 8 or 16 frame recursion, user enabled and selected

**Functions remotely controllable:** Gain, level, polarity, lens focus

**Camera Configuration:** May be saved, recalled or reset to a factory default

### Lens Options

- 18 mm  $f/1$ , preset manual focus
- 25 mm  $f/1$ , preset manual focus
- 50 mm  $f/1$ , preset manual focus
- 75 mm  $f/1$ , preset manual focus
- 75 mm  $f/1$ , electric focus
- 100 mm  $f/1$ , electric focus
- 150 mm  $f/1$ , electric focus

### Physical

**Size :** 13 in L x 8 in diameter,  
33 cm L x 21 cm diameter

**Weight :** 16 lb, 7.2 kg

**Color:** Black

**Operating Temperature:** -30°C to 66°C (in open air ambient)

**Storage Temperature:** -46°C to 71°C

**Package Integrity:** Splash-proof per IEC pub 529, IPX4

**Mechanical Shock:** 20g, 11ms, any axis, while operating

**Electromagnetic Compatibility:** CE mark class A

**Operating Voltage:** 9 to 28 VDC

**Operating Voltage Protection:** -12 to 40 VDC

**Operating Current: Steady State:** <1.0A

**Operating Current: Start-up:** 7.0A, peak

**Analog Video Output:** NTSC

### Detector

**Type:** Hybrid ferroelectric staring focal plane array

**Sensing Approach:** Pyroelectric and dielectric effects

**Sensor Material:** Barium Strontium Titanate (BST)

**Spectral Range:** 7-14 microns

**Resolution and Pitch:** 320 x 240 pixels, 48.5 microns

**MTF:** 22 percent typical at fundamental spatial frequency

**NETD:** 0.1°C typical (with  $f/1.0$  germanium lens set)

**Sensitivity:** 45 mv/°C

**Absorption Efficiency:** 76 percent

**Pixel Clock Speed:** ~6 MHz

**Package:** 40-pin ceramic

**Temperature Stabilization:** Thermoelectric cooler

**Window Type:** Silicon