



CAM\IR 2200 Specifications



THERMAL IMAGER

Warmup 90 seconds (Max)
30 seconds (Typical)
Video Update Rate 30 Hz
Instantaneous FOV 0.5 mrad

Environmental

Operating Temp. -40°C to $+70^{\circ}\text{C}$
Storage Temp. -40°C to $+90^{\circ}\text{C}$
Vibration MILSTD 810D, Method 514.3,
Procedure 1, Category 1.8

Mechanical

Camera Weight 14 ounces (0.4 kg.)
Camera Size 5"L x 4-1/8"H x 2-1/8"W
Camera Housing 8" L X 6" H X 4-1/4" W

Detector

Type: Hybrid ferroelectric staring FPA
Sensing Approach: Pyroelectric & dielectric effects
Sensor Material: Barium Strontium Titanate (BST)
Spectral Range: 7-14 microns
Resolution: 320 x 240 pixels
MTF: 22% typical @ fundamental spatial frequency
NETD: 0.08°C typical, measured with f/1.0 germanium lens
Sensitivity: 45 mv/ $^{\circ}\text{C}$
Temp. Stab. Thermoelectric Cooler
Digital Zoom: 2:1

Options

75mm lens
100 mm lens
5", 7", 11" monitor



STABILIZED GIMBAL

Maximum Height 19.5"
Maximum Depth 20"
Maximum Width 18"
Gimbal Mass 45.5 lbs
Payload Mass 2.5 lbs
Range of Motion - AZ (deg) +/- 120
Range of Motion - EL (deg) +15/-45
Max Angular Rate - AZ (deg/sec) 60
Max Angular Rate - EL (deg/sec) 60
Angular Acceleration - AZ (rad/sec²) 2
Angular Acceleration - EL (rad/sec²) 2
Power Supply Voltage (VDC) 28, +/- 6
Nominal Operating Power (Watts) < 140
Thermal, Operational (deg C) -10 to +40
Thermal, Storage (deg C) -40 to +70
Max Operating Altitude (MSL) 10,000 ft
Communication Interface RS-422
User Interface for pan/tilt Joystick

ELECTRICAL

Operating Voltage	+9 to +14 VDC
Power Consumption	4.5 watts (max) 2.5 watts (nominal)
Current	280 ma @ 9 VDC (Nominal) 500 ma @ 9 VDC (Max) 180 ma @ 14 VDC (Nominal) 330 ma @ 14 VDC (Max)

Model numbers and specifications
are subject to change without notice.

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