

# **INFRARED INC**

## **200 Thermal Detection System**

Thermal imaging systems are passive and non-intrusive, detecting through darkness, in most weather, and over distances. As a result, they are invisible to intruders, allowing security personnel to monitor their actions without their knowledge, protecting people and assets before they are exposed to danger.

### **APPLICATIONS:**

- Military
- Executive security
- Residential
- Law Enforcement
- Covert operations
- Industrial



### **Features:**

- Advanced Technology
- High Quality Thermal Imaging
- Full Motion and Real Time Video
- Eliminate Enhanced Light Requirement
  - Day or Night Full image resolution
  - Cost Effective
- Thermostatically Controlled Heating and Cooling
  - Reduce Energy Cost
  - Rugged Pan and Tilt
- Weatherproof Machined Enclosure
  - O Ring Sealed



### **Options:**

- 320x240 or 640x480 resolution
- Mobile or Fixed Options
- Wireless or Hardwire, Fibre Optic
- Direct, computer, or LAN control
- Dual image with visual camera
- Control Software
- Thermofind™ Motion Detection
- Thermatect™ Thermal Detection



Specifications are subject to change without notice. Availability of camera models and accessories subject to regional market considerations. Buyer is responsible for shipping, handling, taxes, licenses, and/or any additional fees incurred by the import/export of this product. Certain cameras and countries require a US Export License issued by the US Bureau of Industry and Security (BIS) or International Traffic and Arms Regulations (ITAR). Infrared Inc is a Registered Company and complies with all export control laws and regulations of the United States government, including the application for licenses when required

**5301 Longley Lane, Suite D-154 ~ Reno ~ Nevada ~ 89511 ~ USA**  
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EyeR 200 Thermal Detection System			
FEATURES		Thermal Detector Option 1	Thermal Detector Option 2
FOCAL PLANE ARRAY	Pixel Array	320 x 240	640 x 480, 17 micron
	Spectral Response	7-14µm	7.5-13.5µm
	Type	Amorphous Silicon Microbolometer	
	Frame Rate	30Hz NTSC/25Hz PAL	
THERMAL IMAGING PERFORMANCE	Start-Up Time	~ 30 seconds (typical)	
	Contrast /Brightnes	Automatic Image Processing	
OPTICS	Lens Options	50mm f/1, 75mm f/1, 100mm f/1, 150mm f/1	
	Field Of View (Hxv) Lens	50°, 18°, 12°, 9°, 6° HFOV	
	Zoom	2X TO 6X Zoom	
	Range To Detect Human Activity	50mm is 1900ft (579m), 75mm is 3000ft (915m), 100mm is 3700ft (1128m), 150mm is 5900ft (1800m)	
	Focus Method	Electric	
VIDEO	Output Format	NTSC or PAL	
	User Configured	One video output (to be used with remote switching between dual-sensor head output from control system) or two simultaneous video outputs	
SYSTEM POWER	Input Voltage	12 to 32VDC, Regulated	
	Input Power	<2.4 Watts @ 12 VDC	
SYSTEM CONFIGURATION	Communications Protocol (Interface)	Pelco D (RS-422/RS-485 4 Wire Full Duplex) IP Addressability Option (Pan & Tilt Control)	
	Communication Speds (Baud Ra,TE)	2400, 4800, 9600 (factory set)	
ENVIRONMENTAL CHARACTERISTICS	Operating Temperature (Ambient Air Temperature)	-40°F to +167°F (-40°C to +75°C) – Heater engaged	
	Storage Temperature	-4°F to +140°F (-20°C to +60°C)	
	Weatherproofing	Ingress Protection Rating IP66	
SYSTEM PHYSICAL CHARACTERISTICS	Size	19.4" L x 20.7"W x 18.6" H (49.3cm x 52.6cm x 47.2cm)	
	Color	White or Custom	
	Weight	50lbs (23kg) with pan/tilt, 14lbs without	
LENS OPTIONS		DUAL SENSOR FIXED	DUAL SENSOR WITH P&T
	75mm Lens	10000639-075-[OPTIONS]	1000638-075-[OPTIONS]
	100mm Lens	10000639-100-[OPTIONS]	1000638-100-[OPTIONS]
	150mm Lens	10000639-150-[OPTIONS]	1000638-150-[OPTIONS]
PAN & TILT FUNCTIONS	Motor Type	2-phase precision stepper	
	Pan Azimuth Range	360° continuous (slip ring)	
	Pan Sped Range	.01°/second to 80°/second (proportional speed control with joystick)	
	Tilt Elevation Range	190° (± 95° from horizon)	
	Tilt Sped Range	.01°/second to 50°/second (proportional speed control with joystick)	
	Accuracy	.25°	
	Digital Directional Readout	Azimuth & Elevation in degrees	
	Presets	99 (Azimuth, Elevation, Thermal Zoom, Visible Zoom for each preset)	
CABLE ACCESSORIES	Pan & Tilt And Fixed Base Products	External Interface Input/Output Cable – 15ft (4.5m) (With MIL SPEC connector from PNT on one end & flying leads on other end.)	1000642-0001
		External Interface Input/Output Cable – 33ft (10m) (With MIL connector from PNT on one end & flying leads on other end.)	1000642-0002
	Custom Cables	For all custom cable lengths longer than 33ft (10m), please contact Infrared, Inc.	

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Power cables sold separately and not included in product

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