

**Ultra Long Range Thermal  
Night Vision Security Surveillance Camera**

Drawing from more than 10 years experience in infrared technology, Cantronic's ThermalRanger 2000 line of thermal infrared security surveillance cameras are designed for long range surveillance in total darkness making them the ultimate product for night vision security. Cantronic's expertise in infrared night vision technology provides a complete night vision solution with a full spectrum of infrared wavelength power.

Our unique combination of day and night vision power is Cantronic's answer to the growing needs of increased security and homeland protection at a broad range of facilities including protection of infrastructure such as bridges, airports, seaports, subways, military facilities, nuclear power plants, perimeter security, as well as a variety of industrial and governmental facilities.



**EMPOWERING  
HUMAN  
NIGHT VISION**

When used with Cantronic's line of active infrared CCTV surveillance camera systems, ThermalRanger 2000 is your ultimate solution for night vision in all weather conditions, whether rainy or misty, near or far, and of course day and night.

Cantronic uses state of art passive infrared thermal seeking technology in the ThermalRanger 2000 cameras. With an NETD of 0.08 deg C, ThermalRanger provides ultra long range surveillance detection as far as 1600 meters for human, 2400 meters for automobile, and 3600 meters for ships.

**Main Features:**

- Ultra long range, up to 3600 meters
- 320x240 BST or microbolometer un-cooled passive infrared FPA detector
- Thermal seeking, passive infrared
- Manually or automatically adjust contrast and brightness
- RS232 camera remote control for: contrast and brightness, frame freeze, polarity, frame averaging, camera lens focus
- Environmentally qualified security surveillance enclosure housing
- Coated germanium enclosure infrared window to filter out unwanted light/radiation
- Input Power: 120 VAC/60Hz or 220V/50Hz
- Motorized lens focus
- Optional pan/tilt

Technical Specifications:

Wavelength	8 um to 14 um
Night Vision Method	Thermal Seeking, Passive Infrared
Detection Range	1.6km (human), 2.4km (automobile), more than 3.6km (Ship)
Detector	320 (H) x 240 (V) BST or Microbolometer un-cooled focal plane array (FPA)
Pixel Size	45 um
A/D Conversion	16 bit
NETD	0.08° C @ 30°C
Operating Temperature	0-50° C
Lens	Germanium 150mm, motorized
FOV	6°
Video Output	NTSC/EIR or PAL/CCIR video
Camera Remote Control	RS232 or RS422, Optional
Zoom	2 X Electronic Zoom
Focus	Motorized Lens Focus
Frame Rate	30 Hz
Power Input	120 VAC or 220 VAC, Watts
Enclosure Dimensions	21-5/8" (L)x 9-5/8" (H) x 8-1/4"(W)
Weight	39.6 lbs (18 Kg) with Pan/Tilt
Camera Enclosure Mount	1/4"
Pan/Tilt	Optional
Pan/Tilt Mount	1/4"

Options:

Lens	FOV	Distance of Detection (ex: a person)
18 mm	46 °	575 ft
25 mm	35°	800 ft
50 mm	18°	1600 ft
75 mm	12°	2400 ft
100mm	9°	3600 ft

For further info and price quote, please contact:

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