

www.cantronics.com

Overview

The **TR3000 Series** of Thermal Infrared Night Vision cameras is the ultimate total-darkness security product designed for long-range surveillance in total darkness and extreme conditions. Cantronic's expertise in this technology provides a complete night vision solution with a full spectrum of infrared wavelength.

The **TR3000 Series** cameras are sealed and pressurized with dry nitrogen. They utilize an integrated thermostat controlled heater for adverse environmental conditions. With the state-of-the-art passive infrared thermal seeking technology of 0.08°C and 320x240 uncooled FPA detector, the **TR3000 Series** cameras are perfect for long range surveillance detection up to 1000m (3300 feet).

Outstanding Features

- Pressurized housing for marine environment
- 320x240 Barium Strontium Titanate (BST) un-cooled passive infrared FPA detector
- Thermal-seeking, passive infrared
- NETD of 0.08°C detector
- Automatic adjustment of contrast and brightness (Manual option available)
- Environmentally enclosure housing
- Germanium infrared window to filter unwanted light/radiation
- Thermostat controlled heater built-in
- Long detection range
- Long operating life with no cooler required

Performance Options & Accessories

- Control via handheld controller or RS-232 camera remote control for manual contrast, brightness, frame freeze, polarity, frame averaging and camera lens focus adjustment
- Sun Shroud
- Pan and Tilt Drive
- Mounting Bracket
- 18mm lens, 46° FOV, 200m (650ft)
- 25mm lens, 35° FOV, 275m (900ft)
- 50mm lens, 18° FOV, 520m (1,700ft)
- 75mm motorized lens, 12° FOV, 820m (2,700ft)
- 100mm motorized lens, 9° FOV, 1,000m (3,300ft)

Product Image

TR3000 Long Range Thermal Security Camera



Picture shown with optional Sun Shroud and Pan-and-Tilt Drive

Applications

This unique combination of night vision power is Cantronic's solution to the increase need for security and homeland protection at a broad range of facilities and infrastructure such as:

- Bridges, Airports, Seaports, Subways
- Military Facilities
- Nuclear Power Plants
- Perimeter Security
- Industrial Applications
- Governmental Facilities



Specifications

Model	TR3000-18	TR3000-25	TR3000-50	TR3000-75	TR3000-100	
Lens	18mm	25mm	50mm	75mm	100mm	
Field of View	45°	36°	18°	12°	9°	
Focus	Manual	Manual	Manual	Motorized	Motorized	
Detection Range	Human	200m (650ft)	275m (900ft)	520m (1,700ft)	820m (2,700ft)	1km (3,300ft)
	Automobile	300m (990 ft)	410m (1,350ft)	780m (2,570ft)	1.2km (4,060ft)	1.5km (4,950ft)
	Ship	450m (1,485ft)	615m (2,030ft)	1.1km (3,860ft)	1.8km (5,940ft)	2.2km (7,260ft)
Electronic Zoom	N/A	N/A	N/A	2X	2X	
Detector	320(H) x 240(V) BST un-cooled focal plan array (FPA)					
Wavelength	8 μm to 14μm					
Night Vision Method	Thermal Seeking, Passive Infrared					
Pixel Size	45μm					
Analog to Digital Conversion	16 bit					
NETD	0.08°C @ 30°C (32°F @ 86°F)					
Video Output	NTSC or PAL					
Frame Rate	30Hz					
Camera Remote Control	RS-232 (Optional with 2X version)					
Operating Temperature	-40°C to 50°C (-40°F to 122°F)					
Storage Temperature	-20°C to 85°C (-4°F to 185°F)					
Power Input	110VAC or 220VAC 15W Typical and 65W with Heaters Activated ON					
Enclosure Dimension	194 x 167 x 550mm (7.7" x 6.6" x 21.6")					
Camera Weight	8.5 kg (18.7 lbs) with 100mm Lens					
Camera Base Mounting	Mounting Dimension 120 x 100mm with M8 Screws					

How to Order

TR3000 – 100 N – 2X

↑ ↑ ↑

Lens
 18 : 18mm lens
 25 : 25 mm lens
 50 : 50 mm lens
 75 : 75mm motorized lens
 100 : 100mm motorized lens

Optional
 Blank : Standard
 2X : Digital Zoom

Video Output
 N : NTSC
 P : PAL



Picture shown with optional mounting bracket



Specifications subject to change without notice

Patent Pending

© Cantronic Systems Inc. 2008 ISO9001 Certified

Cantronic Systems Inc.

www.cantronics.com

63A Clipper Street
 Coquitlam, BC V3K 6X2 Canada

Telephone: +1.604.516.6667
 Facsimile: +1.604.516.6618
 Toll Free: +1.866.391.6970
 Email: sales@cantronic.com

Dealer/Distributor