

TR3100

Thermal Security Surveillance Camera



The TR3100 is Long-Wave Uncooled Thermal Imager, in a pressurized enclosure, offers effective options in surveillance solutions.

The system is available in a choice of three focal lengths for short-range and mid-range thermal solutions.

The thermal imager operates in the 8-14 μ m waveband, incorporating uncooled VOx microbolometer technology in a 320 x240, 23.5 μ m pitch focal plane array.

The TR3100 camera is sealed and pressurized with dry nitrogen. An optional integrated thermostat controlled heater can be utilized for adverse environmental conditions.



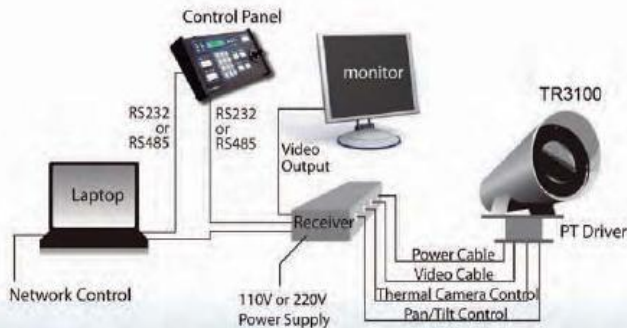
Key Features

- Uncooled 8-14 μ m VOx Microbolometer Technology (23.5 μ m)
- Pressurized housing
- Control via RS-232 interface (image manipulation and focus)
- Sun Shroud
- Pan/Tilt Mounting

Applications

The TR3100 is Cantronics' solution to the increasing need for security and homeland protection at facilities and infrastructure such as:

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



Typical wiring diagram with optional Pan-Tilt driver

Specifications

Lens Focal Length *	8mm	14mm	20mm	25mm	35mm	50mm
Field of View	53.9° x 40.4°	30.8° x 23.1°	21.5° x 16.1°	17.2° x 12.9°	12.3° x 9.2°	8.6° x 6.5°
Focus Method	Fixed or Motorized					
Electronic Zoom	2X / 4X					
Detector Type	320 x 240 Uncooled Microbolometer, VOx					
Wavelength	8 μm to 14μm					
NETD	<50mK @ f/1					
Video Output	NTSC or PAL					
Digital video (optional)	Camera Link					
Camera Control/Features	RS-232C/ Image manipulation, manual focus					
Operating Temperature	-30°C to 60°C					
Storage Temperature	-40°C to 71°C					
Enviromental	Sealed and dry Nitrogen back filled, rated IP66					
Power Requirements	12VDC or 110VAC or 220VAC, 10W Typical					
Enclosure Dimension	280mm x 145mm x 145mm					
Camera Weight	5 kg					
Camera Base Mounting	Mounting dimension 100mm x 64mm with 4 x ¼" – 20 UNC					



How to Order

TR3100- 50 N D

Lens ↑
 8: 8mm Fixed Lens
 14: 14mm Fixed Lens
 20: 20mm Fixed Lens
 25: 25mm Fixed Lens
 35: 35mm Fixed Lens
 50: 50mm Motorized Lens

Power ↑
 D: 12VDC input
 A: 110/220VAC input

Video Output
 N: NTSC
 P: PAL

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