

### Overview

The TR4900 series cameras are high performance thermal imagers optimized for long range surveillance and tracking in mobile systems or field installations.

The system uses the third generation of high quantum effective 640x512 pixels 25um pitch QWIP focal plane arrays, operating in the 7.9 - 9.1um waverband, in full snap shot mode.

The cameras incorporate a sensitive QWIP focal plane array sensor, state-of-the-art 14-bit digital electronics and motorized optics, in a compact and weather proof enclosure.



### **Key Features**

- Spatial Resolution 640x512 Pixels 25um Pitch FPA
- Integral Long Life Stirling Cooler
- Continuous Zoom Optics
- Communication Control via RS-232 or RS-422
- Nitrogen-Purged & Pressurized Enclosure

### **Performance Options**

- Auto Focus and FOV Control for Multi FOV Camera
- Pan-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 board range of facilities and infrastructure such as:

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

**Specifications**

Model	TR4900-C600	TR4900-C800
Lens Focal Length	30 – 600mm	40 – 800mm
Filed of View, Wide (H x V)	36.6° x 22.9°	22.9° x 17.2°
Filed of View, Narrow (H x V)	1.5° x 1.1°	1.1° x 0.9°
F Number	F/4	
Optics (Motorized)	Continuous Zoom with Preset Function	
Detector Type	QWIP, 640 x 512 Pixels, 25um Pitch	
Spectral Range	7.9 – 9.1 um	
Cooling	Stirling Cooler	
NETD (Detector)	<35mK@68K, <25mk@60K	
Image Mode	Snap Shot	
Focus Method	Auto & Manual Focus	
Digital Zoom	2X / 4X	
System Control	RS232 or RS422	
Analog Video Output (Frame Rate)	NTSC (30Hz) or PAL (25Hz)	
Operating Temperature	-32°C to +55°C	
Storage Temperature	-40°C to +70°C	
Relative Humidity	<90%	
Environmental	IP66 Pressurized Enclosure, MIL-STD-810E	
MTBF	>8000Hours	
Power Input	12VDC and 24VDC, <35W	
Camera Weight, Approx.	12Kg	13Kg
Dimension (H x W x L)	286 x 238 x 569mm	326 x 278 x 609mm

**Range Performance**

Model	TR4900-C600		TR4900-C800	
	Human	NATO	Human	NATO
Target	14.7Km	17.9Km	15.8Km	19.3Km
Detection	6.1Km	14.9Km	8.1Km	16.9Km
Recognition	2.9Km	7.2Km	3.9Km	9.2Km
Identification				

- Target Size: Human 1.8m x 0.5m and NATO 2.3m x 2.3m
- Range performances are approximately calculated for reference only.

**How to Order**

TR4900-C600 N

**Lens**

**Video Output**

C600: 30-600mm Zoom Lens

N: NTSC

C800: 40-800mm Zoom Lens

P: PAL

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