

TR4700 SeriesLong-Range Cooled Thermal Camera



Key Features

- Spatial Resolution 640x512 Pixels 15µm Pitch FPA
- Integral Long Life Stirling Cooler
- Continuous Zoom Optics
- Communication Control via RS-232 or RS-422
- Nitrogen-Purged & Pressurized Enclosure

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
- Military Facilities
- Perimeter Security
- Nuclear Power Plants
- Government Facilities
- Industrial Applications

Performance Options

- Auto Focus and FOV Control for Multi FOV Camera
- Pan-Tilt Drive



TR4700 SeriesLong-Range Cooled Thermal Camera

Specifications

Model	TR4700-C600	TR4700-C825	TR4700-C1150	
Lens Focal Length	30 - 600mm	38 - 825mm	58 - 1150mm	
Field of View, Wide (H x V)	18.2° x 14.6°	14.4° x 11.5°	9.5° x 7.6°	
Field of View, Narrow (H x V)	0.9° x 0.7°	0.7° x 0.5°	0.5° x 0.4°	
F Number		F / 4		
Optics (Motorized)		Continuous Zoom with Preset Function InSb, 640 x 512 Pixels, 15µm Pitch		
Detector Type				
Spectral Range		3 - 5 μm		
Cooling		Stirling Cooler		
NETD		< 20mK		
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° to +55°		
Storage Temperature		-40° to +70°		
Relative Humidity		< 90%		
Environmental		IP66 Pressurized Enclosure, MIL-STD-810E		
MTBF		> 8000 Hours		
Power Input		12VDC and 24VDC, <35W		
Camera Weight, Approx.	12kg	13kg	15kg	
Dimensions (H xW xL)	286 x 238 x 569mm	326 x 278 x 609mm	350 x 300 x 688mm	

Range Performance

Model		TR4700-C600		TR4700-C825		TR4700-C1150	
	Target	<u>Human</u>	<u>NATO</u>	<u>Human</u>	<u>NATO</u>	<u>Human</u>	<u>NATO</u>
	Detection	15.8km	18.4km	16.3km	20km	17.1km	21.8km
	Recognition	6.3km	15.3km	8.6km	17.6km	11.4km	19.5km
	Idenification	3.1km	7.6km	4.3km	10.5km	5.8km	13.9km

^{*} Target size: Human 1.8m x 0.5m and NATO 2.3m x 2.3m.

How to Order

TR4700-C600 N

Lens Video

C600: 30-600mm Zoom Lens C825: 38-825mm Zoom Lens C1150: 58-1150mm Zoom Lens Video Output N: NTSC

P: PAL

Cantronic Systems Inc.

67A Clipper Street Coquitlam, BC V3K 6X2, Canada Tel: 1.604.516.6667

Tell Free: 1.866.391.6970 Fax: 1.604.516.6618

Email: sales@cantronics.com Website: www.cantronics.com

Specifications subject to change without prior notice.

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^{*} Range performances are approximately calculated for reference only.