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Overview

ThermalRanger 6000 series is an extremely high sensitivity thermal infrared imaging camera using a QWIP 640 x 512 detector operating in the middle infrared wavelength 8 to 14 μm region (LWIR). The **ThermalRanger 6000** is a powerful ultra long range security surveillance product with exceptional detection capability, over 20km for a tank sized object and over 17km for a human sized object.

The **ThermalRanger 6000** incorporates advanced cooled FPA technology with 25 micron pitch and pressurized dry nitrogen environmental enclosure simplifying installation and operation under demanding weather conditions. It can also be used as a standalone solution or be integrated with the user's existing system.

Outstanding Features

- 640x512 QWIP IRFPA cooled detector
- Detection distance up to 20km (12.5miles)
- Motorized lens
- Plug and play operations
- Single FOV, dual FOV and triple FOV available
- Remotely controlled operation
- Pressurized housing for marine environment
- Germanium infrared window to filter unwanted light/radiation
- Optional digital video output for max. image clarity

Performance Options & Accessories

- Sun Shroud
- Pan and Tilt Drive
- Mounting Bracket
- Wide range of lens selection
- Customized lens are available

With the nominal aperture F/4, the following lenses are available:

Lens (mm)	Focus Method	FOV (°)	Max. Detection Distance km (mile)	
			Human	Automobile
50	Manual	11 x 8.2	1.0 (0.62)	2.2 (1.37)
100	Motorized	5.5 x 4.1	2.0 (1.25)	4.6 (2.87)
250	Motorized	2.2x 1.65	4.6 (2.87)	10 (6.25)
50/250	Dual FOV Motorized	11 x 8.2/2.2 x 1.65	4.6 (2.87)	10 (6.25)
100/500	Dual FOV Motorized	5.5 x 4.1/1.1 x 0.83	8 (5)	17 (10.6)
250/500/1000	Triple FOV Motorized	2.2x1.65/1.1x0.83/0.55x0.41	17.5 (10.9)	20 (12.5)

Product Image

TR6000 High Sensitivity Thermal Security Camera



Picture shown the camera mounted on optional bracket

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

