



# IRT861

## Cooled Super Long Distance Surveillance Thermal Imager

IRT861 is equipped with a cooled MCT detector operating in mid-wave and a tri-FOV optics which offers extremely long range detection in all weather conditions. This camera is perfectly suited to integrate into electro-optical defense system for super long distance surveillance. Optional high frame frequency up to 200Hz and different digital interfaces are flexible for customization. It has been proven in harsh environments in a wide variety of land, air and sea applications.



### Features & Benefits

- ③ 320×256 high resolution and high sensitivity generates high quality images
- ③ 600mm lens ensures extremely long-range detection, tri-FOV to meet multi-missions
- ③ Auto focus guarantee high performance
- ③ Unique IR image processing circuit and intelligent image system, high performance IR technology
- ③ Optional high frame rate up to 200Hz to capturing high speed targets
- ③ High reliability performance in any harsh environment
- ③ Easy operation and integrated into system

## Technical Specifications

### Detector

Detector materials	Cooled MCT (HgCdTe) FPA
Pixels	320×256
Pitch	30μm×30μm
Spectral range	3.7μm~4.8μm
NETD	≤15mK at 25°C
Cooling	Stirling, ≤8Min

### Optics

Lens	600mm/137mm/22mm(F#4) WFOV: 24.6°×19.8°
FOV	MFOV: 4°×3.2° NFOV: 0.92°×0.73°
Focusing	motorized

### Image Presentation

Frame rate	50Hz
Video output	PAL
Image processing	DDE, AGC
Cross cursor	User-defined
Electronics zoom	×2/×4
Image adjustment	Auto/Manual, brightness/contrast
Polarity	B&H/W&H
Command interface	RS232/RS485/RS422

### Power System

Power Supply	DC28V, 110V/220V adaptor
Power dissipation	≤25W

### Environmental

Ambient temperature	-40°C~+65°C
Storage temperature	-40°C~+70°C

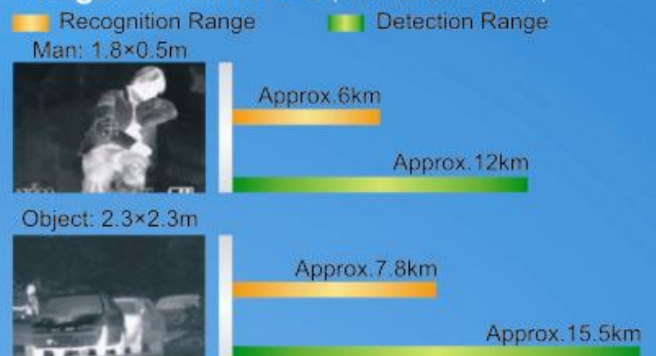
### Physical Characteristics

Dimension	385mm×250mm×185mm
Weight	8.1kg

## Standard Accessories

Power Adapter	1
Power Cable	1
Video Cable	1
Software	1
User manual	1
Safety case	1

## Range Performance (600/137/22mm lens)



Actual range may vary depending on camera set-up, environment conditions etc.

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