

Binocular Handheld Thermal Imager

Combining infrared camera, GPS, electronic compass, dual OLED viewfinders and the 140mm long focus length lens, the handheld infrared thermal viewer IR529 enables target observation in sky, on land or sea in the total darkness over extremely long distance, measurement of target distance when connected with optional laser range finder, indication of target direction and location. Compact and rugged designing and easy-to-use operation system make it suitable for both moveable and immovable applications. IR529 is ideal for suppressing smuggling, saving & rescuing, law enforcement and coast/border surveillance.

Features and Benefits

- No need illumination, works in total darkness and any bad visibility situation.
- Locate object accurately
- Capture 3D stance information of the thermal imager
- 140mm motorized lens enables long range detection and recognition.
- Two OLED viewfinder presents high quality of image, reduces eyes tiredness



Applications

- Search and rescue
- Security monitoring
- Law enforcement
- Coast & border security
- Routine night-time patrol



Specifications

Detector	
Detector	Uncooled FPA Microbolometer
Spectral Range	8~14 μ m
Pixels	384X288
Pitch	25 μ m \times 25 μ m
NETD	\leq 100mk@25 $^{\circ}$ C
Optics	
Lens	140mm/1.1 Motorized lens
FOV	3.93 $^{\circ}$ \times 2.95 $^{\circ}$
Image Presentation	
Video Output	PAL/NTSC
Frame Frequency	50Hz/PAL
Offset & Gain Control	Automatic/Manual
Electronic Zoom	\times 2
Image Color	White heat, black heat, 256 level (9 palettes optional)
Integrated Display	2 OLED viewfinders
Interfaces	
Video Output/ Power	Composite video output/ power input
Power System	
Power Supply	110/220 VAC adapter
Power Dissipation	<4.5W
Battery Type	7.2V rechargeable Li-ion battery
Battery Operating Time	>2 hours
Environmental Parameters	
Operating Temperature	-20 $^{\circ}$ C~+50 $^{\circ}$ C (-40 $^{\circ}$ C~+60 $^{\circ}$ C optional)
Storage Temperature	-40 $^{\circ}$ C~+60 $^{\circ}$ C
Physical Characteristics	
Color	Grey
Size	290mm \times 140mm \times 144mm
Weight	2.0Kg
Tripod Mounting	1/4" -20
Detection Range	1.7m people >2.5km, 2.3m vehicle >3.5km
Recognition Range	1.7m people >1.5km, 2.3m vehicle >1.8km