

Multi-functional Handheld Thermal Viewer

Combining infrared camera, GPS, laser range finder (with visual telescope integrated) and electronic compass, the multifunctional locating handheld infrared thermal viewer IR513 enables target observation in sky, on land or sea in both days (visual light telescope) and nights (infrared camera), measurement of target distance, indication of target direction and location. The measuring results will be sent to command system via communication device by connecting it with preformed interface. It is suitable for both moveable and immovable application. With all these features, IR513 is ideal for police, suppressing smuggling, firefighting, law enforcement and costal surveillance.

Features and Benefits

- No need illumination, works in total darkness and any bad visibility situation
- Locates object accurately
- Measures distance in high accuracy
- Helps see object from far distance at day time
- 100mm motorized lens enables long range detection and recognition.



Applications

- Search and rescue
- Security monitoring
- Law enforcement
- Border security
- Routine night-time patrol



Specifications

Detector	
Detector material	UFPA microbolometer
Spectral Range	8-14 μ m
Pitch	25 μ m \times 25 μ m
Pixels	384x288
NETD	\leq 100mk@25 $^{\circ}$ C
Optics	
Lens	100mm/F1.11 Motorized lens
FOV	5.5 $^{\circ}$ \times 4.12 $^{\circ}$
Image Presentation	
Video Output	PAL
Frame Frequency	50Hz
Electronic Zoom	\times 2
Adjust	Auto/Manual brightness & contrast adjustment
Polarity	B&W, B&W inverse
Display	OLED viewfinder
GPS	
GPS Position Precision	$<$ 2.5m
Real-time Turn Over Rate	20Hz
Electronic Compass	
Heading Range	0-360 $^{\circ}$
Inclination Range	\pm 50 $^{\circ}$
Rolling Range	\pm 180 $^{\circ}$
Laser Range	
Detecting Range	50-5000m
Distance Precision	$<$ 5m
Visual Telescope	
Telescope	\times 6
Interface	
Command and Control	RS232
Image Display	RCA/BNC alternative
Power System	
Power Supply	100-240V AC adaptor
Battery Operating Time	$>$ 4hrs
Environmental Parameters	
Operating Temperature	-20 $^{\circ}$ C \sim +50 $^{\circ}$ C (-40 \sim +60 $^{\circ}$ C optional)
Storage Temperature	-40 $^{\circ}$ C \sim +60 $^{\circ}$ C
Encapsulation	IP67, 3m underwater
Physical Characteristics	
Color	Black
Weight	2.1kg
Size	238mm \times 185mm \times 115mm
Detection Range	1.7m people $>$ 2km, 2.3 vehicle $>$ 3.0km
Recognition Range	1.7m people $>$ 1.5km, 2.3 vehicle $>$ 1.8km