

Cooled Binocular Thermal Viewer

IR300 is the 3rd generation cooled ultra-compact high performance handheld thermal viewer in the market. It is a multi-application binocular thermal imager, used for handheld or fixed monitoring, large capacity battery runs for 3hrs continuously. With cooled FPA detector, long focal length dual-FOV lens and creationary electronics, it is applicable to all kinds of long range detection missions. It is an excellent tool for police and other law enforcement agencies.

Features and Benefits

- 320×256 pixels high-resolution, 30 μ m cooled FPA technology
- WFOV enables fast searching in a wide range, and NFOV enables accurate targeting.
- 300mm motorized lens enables ultra-long range detection and recognition.
- Handheld, on tripod or integration
- GPS, electronic compass optional
- Two OLED viewfinder presents high quality of image, reduces eyes tiredness



Applications

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



Specifications

Detector	
Detector Material	Cooled FPA microbolometer HgCdTe
Spectral Range	3~5 μ m
Pixels	320 \times 256
Pitch	30 μ m \times 30 μ m
NETD	\leq 30mK@25 $^{\circ}$ C
Optics	
Lens	300mm/75mm F3.1 Motorized lens
WFOV	7.3 $^{\circ}$ \times 5.5 $^{\circ}$
NFOV	1.8 $^{\circ}$ \times 1.4 $^{\circ}$
Image Presentation	
Video Output	PAL
Frame Frequency	50Hz
Adjust	Auto/Manual brightness & contrast adjustment
Electronic Zoom	\times 2
Polarity	B&W, B&W inverse
Display	OLED Dual-view finder
GPS	
GPS Position Precision	$<$ 3m
Real-time Turn Over Rate	20Hz
Electronic Compass	
Heading Precision	\pm 0.5 $^{\circ}$
Inclination Precision	\pm 0.2 $^{\circ}$
Inclination Range	\pm 50 $^{\circ}$
Interfaces	
Command and Control	RS232
Video Output	RCA/BNC alternative
Power System	
Power Supply	110/220VAC adapter
Battery Operating Time	3hrs
Power Dissipation	\leq 25W
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	Black
Size	410.2mm \times 157.8mm \times 155.3mm
Weight	2.75kg(excluding battery)
Detection Range	2.3m vehicle $>$ 5.5km
Recognition Range	2.3m vehicle $>$ 3km

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