

## Long Range Monocular Handheld Thermal Imager

*Backed by the world class IR thermal vision technology, IR519 allows for complete visibility in total darkness over long distance. Rugged and easy to use, it enables swift detailed imaging, provides superior reliability and enhances security for either mobile or fixed applications. Absolutely, it is the industry standard for security professionals, law enforcement agencies and safety departments.*

### Features and Benefits

- No need illumination, works in total darkness and any bad visibility situation.
- 100mm lens together with 384X288 high pixel resolution enables long detection range
- 2×, 4× electronic zoom helps for object detecting and targeting.
- Latest display technology, high image quality
- Long production history, reliable quality and performance



### Applications

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



# Specifications

Detector	
Detector Material	Uncooled FPA microbolometer
Spectral Range	8~14 $\mu$ m
Pixels	384 $\times$ 288
Pitch	25 $\mu$ m $\times$ 25 $\mu$ m
NETD	$\leq$ 100mk@25 $^{\circ}$ C
Optics	
Lens	100mm/F1.1 Motorized lens
FOV	5.50 $^{\circ}$ $\times$ 4.12 $^{\circ}$
Image Presentation	
Video Output	PAL
Frame Frequency	50Hz
Adjust	Auto/Manual brightness & contrast adjustment
Electronic Zoom	$\times$ 2, $\times$ 4 interpolating
Polarity	B&W, B&W inverse
Display	OLED viewfinder
Interfaces	
Command and Control	RS232/RS485
Image Display	RCA/BNC alternative
Power System	
Power Supply	110/220VAC adapter
Power Dissipation	$\leq$ 4W
Battery Operating Time	$>$ 3hrs
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	232mm $\times$ 103mm $\times$ 126mm
Weight	1.68kg
Detection Range	1.7m people $>$ 2.5km, 2.3m vehicle $>$ 3.5km
Recognition Range	1.7m people $>$ 1.5km, 2.3m vehicle $>$ 1.8km

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