

# Affordable Monocular Handheld Thermal Imager

*With newly adopted thermal vision technology, IR518 series set a new standard for small, light weight thermal imaging cameras. Compact design and hand-sized structure allows for easy carrying and operation. Thermal image and video storage function helps you to store the detection process as an evidence for review. The perfect hermetic structure and encapsulation realize overall protects for IR518 series and makes them perfect for public safety, police office and security operations.*

## Features and Benefits



**IR video recording**  
IR video recording All evidence of crime can be saved and checked for future use

**SD card storage**  
Allows storing thermal images and video clips



**Rugged and Portable design**  
Pocket-size and IP54 compact design, go-everywhere use in all circumstances.

**Different Versions Available**  
3 different versions, multi-choice for different detection requirements



## Applications

- Search and rescue
- Security monitoring
- Portable law enforcement
- Border security
- Routine patrols



# Specifications

Detector		
Detector material	Uncooled FPA microbolometer	
Spectral Range	8-14 $\mu$ m	
Pitch	25 $\mu$ m	
Pixels	384 x 288 / 160 x 120	
NETD	$\leq$ 100mk@25 $^{\circ}$ C / $\leq$ 120mk@25 $^{\circ}$ C	
Optics		
Lens	50mm/F1.1 25mm/F1.0	
FOV	384X288 detector	160X120 detector
	10.97 $^{\circ}$ X 8.24 $^{\circ}$ (50mm) 21.74 $^{\circ}$ X 16.39 $^{\circ}$ (25mm)	9.15 $^{\circ}$ X 6.87 $^{\circ}$ (25mm)
Image Storage		
Type	2GB SD card (4GB SD card optional)	
File Format	JPG	
Image Presentation		
Display	OLED viewfinder	
	852 X 600 Pixels	
	256 level gray	
Video Output	PAL	
Frame Frequency	50Hz	
Electronic Zoom	X2	
Adjust	Auto/Semi-auto/Manual brightness/Contrast adjustment	
Polarity	Black/White hot	
Power System		
AC/DC adapter	110-240VAC/9VDC	
Rechargeable Li-ion Camcorder battery	4AA Lithium 4.8VDC	
Power dissipation	$<$ 4W	
Battery Operating Time	$>$ 2hr	
Interfaces		
Interfaces	Analog video output / USB port/ RS232	
Environmental Specification		
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	