

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

	<i>IR518A</i>	<i>IR518B</i>	<i>IR518C</i>
Detector			
Detector material	UFPA microbolometer, Asi		
Spectral Range	8~14 μ m		
Pixels	25 μ m		
Pitch	160 \times 120	384 \times 288	
NETD	\leq 120mk@25 $^{\circ}$ C	\leq 100mk@25 $^{\circ}$ C	
Optics			
Lens	25mm	25mm	50mm
FOV	9.15 $^{\circ}$ \times 6.87 $^{\circ}$	21.74 $^{\circ}$ \times 16.39 $^{\circ}$	10.97 $^{\circ}$ \times 8.24 $^{\circ}$
Focus	Manual		
Dioptr Adjust	-500 $^{\circ}$ ~ +500 $^{\circ}$		
Image Storage			
Type	2GB SD card (4GB SD card optional)		
File Format	BMP/AVI		
Image Presentation			
Display	LCD viewfinder		
	320 \times 240		
	256 level gray		
Video Output	PAL		
Frame Frequency	50Hz		
Electronic Zoom	\times 2		
Adjust	Auto/Semi-auto/Manual brightness/Contrast adjustment		
Polarity	Black/White hot		
Power System			
AC/DC adapter	110~240VAC/12VDC		
Rechargeable Li-ion Camcorder battery	4AA NiMH rechargeable		
Power dissipation	$<$ 5W@25 $^{\circ}$ C		
Battery Operating Time	$>$ 2hr@25 $^{\circ}$ C		
Interfaces			
Interfaces	Analog video output / USB port/ RS232		
Environmental Specification			
Operating Temperature	-20 $^{\circ}$ C ~ +60 $^{\circ}$ C		
Storage Temperature	-40 $^{\circ}$ C ~ +60 $^{\circ}$ C		
Physical Characteristics			
Color	Black		
Detection Range (1.8 \times 0.5, human)	$>$ 0.4Km	$>$ 0.4Km	$>$ 1.0Km
Detection Range (2.3 \times 2.3, vehicle)	$>$ 0.8Km	$>$ 0.8Km	$>$ 1.5Km