

armstrong optical

IR518 Handheld Monocular Thermal Imager



With a choice of either a 160x120 or 384x288 pixel sensor and a 25mm or 50mm lens the **IR518** represents the cutting edge in handheld personal thermal imager technology.

The built-in, removable 4Gb SD memory can be used to store either JPEG images or video files and the IP67 encapsulation makes the **IR518** ideal for all search & rescue, security & surveillance and law enforcement applications.

The lightweight, compact and ruggedised design ensures that the **IR518** will survive most activities and become an invaluable tool for image capture and mission reporting.

Imager:		Optics:	
Detector type	Uncooled FPA	Focal length/ f#	25mm f/1 50mm f/1
Spectral range	8 - 12 μ m	Field of view	160x120 384x288
Sensor size	160x120 or 384x288 pixel		4.6° x 3.4° (50mm) 11° x 8.2° (50mm)
NETD	≤100mK		9.2° x 6.9° (25mm) 21.7°x16.4° (25mm)

Image presentation:		Image storage:	
Video output	PAL/ 50Hz	Type	Removable 4Gb SD card
Brightness/contrast	Auto/manual	File format	JPEG
Polarity	White hot/ black hot	Video recording	Yes
Electronic zoom	X2		
Image display	OLED viewfinder		

Power:		Interfaces:	
Power supply	AA batteries 4.8VDC or 240VAC	Video output	Analog composite video
Operating duration	~3hrs continuous	Control	USB and RS232

Environmental specification:		Physical:	
Operating temperature	-20°C to +50°C	Size	182 x 97 x 68mm
Storage temperature	-40°C to +60°C	Weight	500gm (w/o batteries)
Humidity	10-95% N/C	Tripod mounting	1/4" - 20
Encapsulation	IP67		
Water/shock resistance	1m submersion, 1m drop		