

# IR518 Monocular Handheld Thermal Imager

**For Detection of Boats & Markers,  
Surveillance, Navigation, SAR, Day  
or Night in most weather conditions**

Enjoy the comfort of seeing into the dark with the Guide IR518 Thermal Imager. Whether looking for a mooring or an approaching vessel, semi-submerged debris or a fixed structure in the water, the IR518 will give you a crisp picture, day or night and in most weather conditions.

**The Model Range** Using the latest thermal imaging technology, the infrared detectors produce images based only on heat differentiation - they require no visible light.

The Guide **IR518** comes in 3 versions:

- **IR518A** with 160 x 120 resolution and a 25mm lens  
Human (1.7m) detection up to 500m  
Boat (2.3m) detection up to 1380m
- **IR518B** with 384 x 288 resolution and a 25mm lens  
Human (1.7m) detection up to 500m  
Boat (2.3m) detection up to 1380m
- **IR518C** with 384 x 288 resolution and a 50mm lens  
Human (1.7m) detection up to 1000m  
Boat (2.3m) detection up to 2760m

NB Range will vary dependent on the user, environmental conditions and set up.

**Use in total darkness** The **IR518** has a 2x digital zoom and adjustable focus to ensure a crisp image in both total darkness and daylight. It can "see through" smoke and easily detects objects hidden in shadows.

**Additional Functions** Unlike many products in this category, the IR518 features a 50Hz update rate, a selectable colour palette, a white hot/black hot polarity switch, adjustable focus and auto standby for power saving. The innovative "hot spot tracking" function identifies and displays the hottest spot on the display to enable the user to find and track any object on the water.



**Video Recording** All units have an integral video recorder with a 4Gb SD card for storing video and single frame shots. Video can be downloaded and played back on another device.

**Portable, rugged and easy to use** Ergonomically designed with only 4 buttons and an "on-screen" menu, the **IR518** is very easy to use. It is lightweight, protected by a rubber armoured sleeve and is rated IP66.

# GUIDE



Guide IR 518C

- See in total darkness
- Rugged rubber "armoured" sleeve
- Comfortable strap
- 2x digital zoom
- Colour palette
- White hot/Black hot polarity
- "Hot spot" tracking feature
- Auto standby
- Adjustable focus
- Integral DVR with 4Gb SD card
- Records in PAL format
- No damage from bright sunlight
- AC/DC adaptor



# IR518 Monocular Handheld Thermal Imager

## Technical Specifications

Detector	IR518-A	IR518-B	IR518-C
<b>Detector Type</b>	Uncooled FPA microbolometer		
<b>Spectral Range</b>	8-14µm		
<b>Detector Pitch</b>	25µm		
<b>Image Resolution (Pixels)</b>	160 x 120	384 x 288	384 x 288
<b>Image Performance</b>			
<b>Lens</b>	25mm f1.0	25mm f1.0	50mm f1.1
<b>Field of View (Degrees)</b>	9.15 x 6.87	21.74 x 16.39	10.97 x 8.24
<b>Focus Range</b>	5m to ∞		
<b>Image Presentation</b>			
<b>Display</b>	LCD Viewfinder , 48mm x 36mm		
<b>Frame Frequency</b>	50Hz		
<b>Digital zoom</b>	2x		
<b>Polarity (Switchable)</b>	White Hot/Black Hot		
<b>Menu Adjustment</b>	Auto/Semi-Auto/Manual Brightness/Contrast		
<b>Colour Palettes</b>	YES		
<b>Standby Mode c/w Auto Eye Activation</b>	Yes		
<b>Manual Focus</b>	Yes		
<b>Video Features</b>			
<b>Video Capture</b>	AVI		
<b>Video Output</b>	PAL		
<b>Still Image Capture</b>	BMP		
<b>Storage - Memory Card (Included)</b>	Removable up to 4Gb SD card		
<b>Interfaces</b>			
<b>Interfaces</b>	Analogue Video Out/USB/RS232		
<b>Physical, Environmental and Power</b>			
<b>Tripod Socket</b>	1/4" Whitworth		
<b>Battery (Included)</b>	4 x AA NiMH Rechargeable		
<b>Battery Operational Time</b>	> 2Hrs Continuous		
<b>Mains Adaptor (Included)</b>	110-240VAC/9VDC		
<b>Operating Temperature (°C)</b>	-20 - +50 (-40 - +60 to Special Order)		
<b>Storage Temperature (°C)</b>	-40 - +60		
<b>Humidity</b>	10% - 95%, non-condensing		
<b>IP Rating</b>	IP66		
<b>Size (mm)</b>	182 x 97 x 68		
<b>Weight (Kg)</b>	0.5 (without batteries)		
<b>Manufacturers Warranty</b>	24 Months		

### All units come complete with

<b>Carry Case</b>	1	<b>Power/Video cable</b>	1
<b>Shoulder Strap</b>	4	<b>Rechargeable batteries</b>	4
<b>Wrist Strap</b>	1	<b>110v/240v to 9vDC Adaptor</b>	1
<b>Integral SD Card</b>	1	<b>CD ROM</b>	1
<b>User Manual</b>	1		

Dealer Stamp

N.B. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Range will vary dependent on the user, environmental conditions and set up.

All specifications are believed to be accurate at the time of going to print. No responsibility can be accepted for differences between this specification and the product shipped.



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