

Vanguard IR510

Handheld Thermal Imager

Perfect for Detection of Boats & Markers, Navigation, MOB, Day or Night in most weather conditions

GUIDE

The Vanguard IR510 is the lightest handheld thermal imager available today. Using the latest display technology and a LCOS 320 x 240 display, the IR10 provides superb image quality whether looking for a mooring, an approaching vessel, semi-submerged debris or a fixed structure in the water. The unit has an internal Li-on battery providing up to 10 hours continuous use.

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

The Model Range The Vanguard IR510 range comprises:

- **IR510B** with 160x120 resolution and a 15mm lens
Human (1.7m) detection up to 300m
Boat (10m) detection up to 2000m
- **IR510C** with 384x288 resolution and a 19mm lens
Human (1.7m) detection up to 350m
Boat (10m) detection up to 2350m

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

Use in total darkness The Vanguard IR510 has a 2x and 4x digital zoom and an adjustable recticle 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 IR510 features a 50Hz update rate, a white hot/black hot polarity switch, a red hot palette and auto-standby for power saving. The unit incorporates a micro USB port for charging and there is a battery pack (optional) for extending battery life. There is also a useful LED light for illumination

Video Recording All units have a standard analogue Video output supporting 50Hz data with no lag.

Portable, rugged and easy to use Ergonomically designed and with only 4 buttons, the Vanguard IR510 is very easy to use. It is lightweight, protected by a rubber armoured sleeve and is rated IP67.



- **Lightweight and compact**
- **Up to 10 hours continuous use**
- **320 x 240 LCD Screen**
- **2x and 4x digital zoom**
- **50Hz frame rate**
- **Adjustable focus**
- **White hot/Black hot plus**
- **"Red hot" Alert function**
- **Power saving mode**
- **Analogue video output**
- **No damage from bright sunlight**



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Technical Specifications

Detector	Vanguard IR510B	Vanguard IR518C
Detector Type	Uncooled Asi microbolometer	
Spectral Range	8-14µm	
Detector Pitch	25µm	
Image Resolution (Pixels)	160 x 120	384 x 288
Image Performance		
Lens	15mm	19mm
Field of View (Degrees)	15.39° x 11.57°	28.36° x 21.46°
Image Presentation		
Display	LCD Viewfinder , 320 x 240	
Frame Frequency	50Hz	
Digital zoom	2x an 4x	
Polarity (Switchable)	White Hot/Black Hot <i>plus</i> Red Hot	
Standby Mode	Yes	
Focus	Set to Infinity	
Interfaces		
Video	Standard Analogue Video Output	
Physical, Environmental and Power		
Tripod Socket	1/4" Whitworth	
Battery	Internal Li-on	
Battery Operational Time	Up to 10 hours continuous	
Charger	Via micro USB	
Operating Temperature (°C)	-20 - +50	
Humidity	5% - 95%	
IP Rating	IP66	
Size (mm)	66 x 62 x 158	
Weight (Kg)	305g	
Manufacturers Warranty	36 Months	

All units come complete with

Soft Case	1	USB cable	1
Wrist Strap	1	Power Supply with multi plugs	1
User Manual	1	CD ROM	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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