

SIDEWINDER

THERMAL IMAGING MONOCULAR



The Sidewinder™ is our premium handheld observational thermal monocular series. All models come equipped with either a 384×288 or 640×512 twelve micron infrared detector and a 1024×768 OLED display, for improved color rendering. The Sidewinder thermal sensors also come equipped with the most sensitive temperature ratings in its class, coming in at sub-20 millikelvin across the entire product family. Other improvements over the Taipan monoculars include a more robust body/housing and a removable, rechargeable 18650 battery. These units also boast an impressive waterproof rating, which ensures users have peace of mind while utilizing these under the vast majority of weather conditions.

The Sidewinders built-in 64 GB memory also sits at the top of its class on the market, with advanced software supporting both video recording and image capturing. The primary uses for these thermal monoculars include, but are not limited to: hunting, law enforcement, search-and-rescue, personal security, conservation, anti-poaching, camping, hiking and different marine applications.

- 12µm, 384×288 or 640×512 resolution detector
- Highest thermal sensitivity (NETD <20mK)
- Advanced image processing (Digital Detail Enhancement, digital Noise Reduction and NLM algorithm)
- 50 Hz image frame rate
- 1024×768 resolution OLED display
- Built-in memory supports video/audio recording and snapshot capturing
- 64 GB memory module
- Wi-Fi hotspot
- 1×, 2×, 4× and 8× digital zoom
- Replaceable and rechargeable Li-Ion battery
- Up to 7 hours continuous running
- External power supply capability
- Waterproof
- Limited 5-year warranty



Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited.

SPECIFICATIONS

Model	Sidewinder TM25-384	Sidewinder TM35-384	Sidewinder TM35-640	Sidewinder TM50-640
Detector Type	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array
Resolution	384x288	384x288	640x512	640x512
Pixel Interval	12 µm	12 µm	12 µm	12 µm
Refresh Rate	50 Hz	50 Hz	50 Hz	50 Hz
Response Waveband	8µm to 14µm	8µm to 14µm	8µm to 14µm	8µm to 14µm
NETD	≤ 20 mk (@25°C), F#=1.0	≤ 20 mk (@25°C), F#=1.0	≤ 20 mk (@25°C), F#=1.0	≤ 20 mk (@25°C), F#=0.9
Detection Range (6' object)	1250 m	1800 m	1800 m	2600 m
Lens (Focal Length)	25 mm	35 mm	35 mm	50 mm
Aperture	F1.0	F1.0	F1.0	F0.9
Field of View (H x V)	10.5° x 7.9°	7.5° x 5.6°	12.5° x 10°	8.7° x 7°
Magnification	2x - 16x	3x - 24x	2x - 16x	2.5x - 20x
Digital Zoom	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x
Diopter Adjustment	-5 to +3 dpt	-5 to +3 dpt	-5 to +3 dpt	-5 to +3 dpt
Monitor	1024x768, OLED	1024x768, OLED	1024x768, OLED	1024x768, OLED
FFC (Flat Field Correction)	Auto, Manual, External Correction	Auto, Manual, External Correction	Auto, Manual, External Correction	Auto, Manual, External Correction
Palettes	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion
Image Boost	Yes	Yes	Yes	Yes
Highest Temperature Spot Tracking	Yes	Yes	Yes	Yes
Wi-Fi Hotspot	Yes	Yes	Yes	Yes
Standby Mode	Yes	Yes	Yes	Yes
Storage	Built-in memory (64 GB)	Built-in memory (64 GB)	Built-in memory (64 GB)	Built-in memory (64 GB)
Record Video/Audio	Yes / Yes (on-board)	Yes / Yes (on-board)	Yes / Yes (on-board)	Yes / Yes (on-board)
Capture Snapshot	Yes	Yes	Yes	Yes
Battery Type	One 18650 Replaceable rechargeable Lithium battery	One 18650 Replaceable rechargeable Lithium battery	One 18650 Replaceable rechargeable Lithium battery	One 18650 Replaceable rechargeable Lithium battery
Battery Operating Time	Up to 7 hours	Up to 7 hours	Up to 5 hours	Up to 5 hours
Power	5 VDC/2 A, 1.75 W	5 VDC/2 A, 1.75 W	5 VDC/2 A, 2.1 W	5 VDC/2 A, 2.1 W
Interface	USB Type-C	USB Type-C	USB Type-C	USB Type-C
Working Temperature	-30°C to 55°C (-22°F to 131°F)	-30°C to 55°C (-22°F to 131°F)	-30°C to 55°C (-22°F to 131°F)	-30°C to 55°C (-22°F to 131°F)
Protection Level	IP67	IP67	IP67	IP67
Dimension	188 x 58 x 65 mm (7.4 x 2.3 x 2.6 in)	188 x 58 x 65 mm (7.4 x 2.3 x 2.6 in)	188 x 58 x 65 mm (7.4 x 2.3 x 2.6 in)	200 x 78 x 68 mm (7.9 x 3.0 x 2.7 in)
Weight	500 g (1.1 lb)	505 g (1.11 lb)	505 g (1.11 lb)	636 g (1.4 lb)

Specifications are subject to change without notice.



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