



AGM
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RATTLER TC50-640

THERMAL IMAGING CLIP-ON SYSTEM

The AGM Rattler TC50-640 is a compact thermal imaging clip-on system that allows quick transformation of the day optics into thermal imaging device without any special tools or equipment.

Rattler TC50-640 has high sensitivity 12 μ m thermal detector with 640x512 resolution and 1024x768 OLED monitor, which provides clear image under harsh environment conditions like darkness, fog, smoke, dust, rain, snow, wood, camouflage, etc. The product is mainly applied to scenarios such as patrolling, hunting, etc.

The Rattler TC50-640 can easily be attached in front of rifle scopes with magnification up to 8x for long range use.

Onboard Wi-Fi module for live video streaming and video/images recording via application are also available.

- Quick conversion of daytime optics into thermal imaging scope
- 12 μ m high sensitivity detector
- 640x512 thermal resolution
- 1024x768 resolution 0.39-inch OLED display
- 8x digital zoom
- Video recording and snapshot, built-in EMMC (16 GB)
- Supports distance measurement
- Adjustable color palettes
- Wi-Fi data transmission
- Waterproof, shockproof
- Up to 4.5 hours continuous working
- External power supply capability
- Limited 3-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.

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SPECIFICATIONS

Detector Type	12 µm VOx Uncooled Focal Plane Arrays
Resolution	640 × 512
Refresh Rate	Sensor 50 Hz / OLED 50 Hz
Response Waveband	8 µm to 14 µm
Lens System	50 mm, F1.0
Field of View (HxV)	8.8° × 7.0°
Magnification	1x
Exit Pupil	22 mm
Observation Distance	2,500 m
Monitor	1024×768, 0.39 inch, OLED
Uniformity Correction (Flat Field Correction)	Auto, Manual, External Correction
Palettes	Black Hot, White Hot, Red Hot, Fusion
Highest Temperature Spot Tracking	Yes
Scene Mode	Jungle, Recognition
Distance Measurement	Yes (Stadiometric Rangefinder)
Highest Temperature Spot Tracking	Yes
Standby Mode	Yes
Built-in Storage	16 GB EMMC
Record Video	On-board video recording
Capture Snapshot	Yes
CVBS Output	Yes (via USB)
Battery Type	Two CR123A (3V) Lithium or two RCR123 (up to 4.2V) Rechargeable Batteries
Battery Operating Time	Up to 4.5 hours continuous running (@25°C, WiFi off) Up to 4.0 hours continuous running (@25°C, WiFi on)
Battery Capacity Display	Yes
Power	5 VDC/2 A, USB Type-C interface Supports external power supply
Working Temperature	-20°C to 55°C (-4°F to 131°F)
Protection Level	IP67
Shock and Vibration	750 g/ms
Mounting	Optional Front Quick Release Adapters for different front lens diameter or Quick Release Mount for Picatinny/Weaver rail
Dimension	153 mm × 78 mm × 66 mm (6.0 × 3.1 × 2.6 in)
Weight (w/o batteries)	0.49 kg (1.08 lb)

Specifications are subject to change without notice.



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