



AGM
GLOBAL
VISION

RATTLER

TS35-640/TS50-640

THERMAL IMAGING RIFLESCOPE



AGM Rattler TS35-640 and Rattler TS50-640 are the compact thermal imaging scopes developed for 24 hours operation under any weather and environmental conditions. Two objective lens options allow the customer to choose perfect unit for your needs where 35mm lens designed for medium range shooting, while the 50mm lens model will be great for long range missions.

Thermal image rifle scope has 640×512, 12μm thermal detector and 1024×768 OLED monitor, which provides clear image under harsh environment conditions like darkness, fog, smoke, dust, rain, snow, wood, camouflage, etc. The device is used as a thermal rifle scope or handheld monocular. The scope is mainly applied to scenarios such as patrolling, hunting, etc.

Powered with two CR123 batteries the AGM Rattler gives up to 4.5 hours of continuous operation time. An external 5V power bank (battery pack) can be easily connected via a USB connector for a significant increase of operating time. Onboard Wi-Fi module for live video streaming and video/images recording via application are also available.

- 640×512 thermal resolution
- 12 μm, 35 mK NETD high sensitivity detector
- Fast 50 Hz imaging
- 1024×768 resolution, 0.39-inch OLED display
- 2x (TS35) and 2.5x (TS50) optical magnification
- 1x, 2x, 4x, 8x digital zoom
- Digital image processing technology
- Video recording and snapshot, built-in EMMC (16 GB)
- Various reticle types and colors
- Stadiametric rangefinder
- Adjustable color palettes
- Wi-Fi data transmission
- Standby mode
- 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

	Rattler TS35-640	Rattler TS50-640
Resolution	640 x 512	640 x 512
Detector	12µm, Uncooled, 50 Hz	12µm, Uncooled, 50 Hz
Lens System	35 mm; F/1.0	50 mm; F/1.0
Magnification	2x - 16x	2.5x - 20x
Field of View	12.5° x 10.0°	8.8° x 7.0°
Digital Zoom	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x
Detection Range (6' object)	1,750 m/yd	2,500 m/yd
Eye Relief	45 mm	45 mm
Display	0.39-inch, OLED, 1024x768, 50 Hz	0.39-inch, OLED, 1024x768, 50 Hz
Reticle	5 types, 4 colors, on/off	5 types, 4 colors, on/off
Boresight Adjustment	Digital Controlled	Digital Controlled
Boresight Increment	0.21 mil / 0.73 MOA	0.15 mil / 0.51 MOA
Distance Measurement	Yes (Stadiametric Rangefinder)	Yes (Stadiametric Rangefinder)
Palettes	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion
Scene Mode	Jungle, Recognition	Jungle, Recognition
Picture In Picture Mode (PIP)	Yes (2x Zoom)	Yes (2x Zoom)
Hotspot	Yes	Yes
Standby Mode	Yes	Yes
Video Recording	Yes	Yes
Picture Snapshot	Yes	Yes
CVBS Output	Yes (via USB)	Yes (via USB)
Defective Pixels Correction (DPC)	Yes	Yes
Uniformity Correction	Auto, Manual, External Correction	Auto, Manual, External Correction
Storage	Built-in EMMC (16 GB)	Built-in EMMC (16 GB)
Battery Type	Two CR123 (3V) Lithium or two RCR123 (up to 4.2V) Rechargeable Batteries	Two CR123 (3V) Lithium or two RCR123 (up to 4.2V) Rechargeable Batteries
Battery Life (Operating, 20°C)	Up to 4.5 hr	Up to 4.5 hr
External Power Supply	5 VDC/2 A, USB Type-C interface	5 VDC/2 A, USB Type-C interface
Operating Temperature Range	-20°C to +55°C (-4°F to +131°F)	-20°C to +55°C (-4°F to +131°F)
Degree of Protection	IP67	IP67
Drop Test Height	1.5m (4.9 feet)	1.5m (4.9 feet)
Weight (w/o battery)	535 g (1.18 lb)	605 g (1.33 lb)
Overall Dimensions	187x 63 x 80 mm (7.4 x 2.5 x 3.1 in)	200 x 73 x 84 mm (7.8 x 2.9 x 3.3 in)
Package Includes	Thermal Imaging Rifle Scope, Mount, USB Cable, Lens Cloth, Manual	Thermal Imaging Rifle Scope, Mount, USB Cable, Lens Cloth, Manual

Specifications are subject to change without notice.



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