



AGM
GLOBAL
VISION

RATTLER LRF

THERMAL IMAGING RIFLESCOPE WITH LASER RANGEFINDER

The AGM Rattler LRF is a compact thermal imaging scope developed for 24-hour operation under any weather and environmental conditions. Available in multiple configurations: 384x288(50 Hz) thermal detector or 640x512 (50 Hz) thermal detector, and 35mm or 50mm objective lens. These options allow the customer to choose the perfect unit for their needs. The 35mm lens is designed for medium-range applications, while the 50mm lens will be better suited for long-range engagements.

Equipped with a highly sensitive, 12 μ m thermal detector and 1024x768 OLED monitor, the AGM Rattler LRF provides a clear image under harsh environment conditions including darkness, fog, smoke, dust, rain, snow, brush, camouflage, etc. The device can be used as a thermal riflescope or handheld monocular, and can be applied to scenarios such as patrolling, hunting, static observation, and more.

The built-in laser range finder of the AGM Rattler LRF is designed to determine the exact distance between the observer and the target. Measurement results are displayed on the scopes monitor. One 18650 rechargeable battery gives the device up to 4.5 hours of continuous operation time. An external 5V power bank (battery pack) can be easily connected via a USB to USB-C connector for a significant increase of operating time. The device is equipped with fast EMMC storage for on-board video recording and image capturing. An internal Wi-Fi module for live video streaming and video/image recording via application are also included.

- 12 μ m high sensitivity thermal detector
- Fast 50Hz imaging
- 1x, 2x, 4x, 8x Digital zoom
- Adjustable color palettes
- Built-in laser rangefinder
- High resolution OLED display
- Various reticle types and colors
- On-board video recording and snapshot
- Built-in EMMC storage (16 GB)
- Wi-Fi data transmission
- Standby mode
- Up to 4.5 hours continuous runtime
- External power supply compatibility
- Waterproof & shockproof
- 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.

SPECIFICATIONS

	AGM RATTLER LRF TS35-384	AGM RATTLER LRF TS50-384	AGM RATTLER LRF TS35-640	AGM RATTLER LRF TS50-640
Detector Type	12 µm VOx Uncooled Focal Plane Arrays	12 µm VOx Uncooled Focal Plane Arrays	12 µm VOx Uncooled Focal Plane Arrays	12 µm VOx Uncooled Focal Plane Arrays
Resolution	384 × 288	384 × 288	640 × 512	640 × 512
Refresh Rate	Sensor 50Hz / OLED 50Hz	Sensor 50Hz / OLED 50Hz	Sensor 50Hz / OLED 50Hz	Sensor 50Hz / OLED 50Hz
Response Waveband	8 µm to 14 µm	8 µm to 14 µm	8 µm to 14 µm	8 µm to 14 µm
Lens (Focal Length)	35 mm	50 mm	35 mm	50 mm
Aperture	F1.0	F1.0	F1.0	F1.0
Field of View (HxV)	7.53° × 5.65°	5.28° × 3.96°	12.52° × 10.03°	8.78° × 7.03°
Magnification	3x – 24x	4x – 32x	2x – 16x	2.5x – 20x
Digital Zoom	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x
Observation Distance	1,750 m	2,500 m	1,750 m	2,500 m
Eye Relief	45 mm	45 mm	45 mm	45 mm
Monitor	1024x768, 0.39 inch, OLED	1024x768, 0.39 inch, OLED	1024x768, 0.39 inch, OLED	1024x768, 0.39 inch, 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
Highest Temperature Spot Tracking	Yes	Yes	Yes	Yes
Scene Mode	Jungle, Recognition	Jungle, Recognition	Jungle, Recognition	Jungle, Recognition
Reticle	5 types, 4 colors, on/off	5 types, 4 colors, on/off	5 types, 4 colors, on/off	5 types, 4 colors, on/off
Laser Range Finder	Up to 600 m, ±2 m accuracy	Up to 600 m, ±2 m accuracy	Up to 600 m, ±2 m accuracy	Up to 600 m, ±2 m accuracy
Laser Wavelength	905 nm	905 nm	905 nm	905 nm
Laser Safety Class	Class 1	Class 1	Class 1	Class 1
Boresight Adjustment	Digital Controlled	Digital Controlled	Digital Controlled	Digital Controlled
Boresight Increment	0.13 mil / 0.44 MOA	0.09 mil / 0.31 MOA	0.22 mil / 0.73 MOA	0.15 mil / 0.51 MOA
One Scale Interval (Reticle #4)	2 mil / 6.75 MOA	2 mil / 6.75 MOA	2 mil / 6.75 MOA	2 mil / 6.75 MOA
Hotspot	Yes	Yes	Yes	Yes
Sleep Mode	Yes	Yes	Yes	Yes
Picture In Picture Mode	Yes	Yes	Yes	Yes
Burn Prevention	Yes	Yes	Yes	Yes
Built-in Storage	16 GB EMMC	16 GB EMMC	16 GB EMMC	16 GB EMMC
Record Video	On-board video recording	On-board video recording	On-board video recording	On-board video recording
Capture Snapshot	Yes	Yes	Yes	Yes
CVBS Output	Yes (via USB)	Yes (via USB)	Yes (via USB)	Yes (via USB)
Battery Type	One 18650 (3.7V) Lithium Rechargeable Batteries	One 18650 (3.7V) Lithium Rechargeable Batteries	One 18650 (3.7V) Lithium Rechargeable Batteries	One 18650 (3.7V) Lithium Rechargeable Batteries
Battery Operating Time (WiFi off)	Up to 4.5 hours	Up to 4.5 hours	Up to 4.5 hours	Up to 4.5 hours
Battery Capacity Display	Yes	Yes	Yes	Yes
External Power	5 VDC/2 A, USB Type-C	5 VDC/2 A, USB Type-C	5 VDC/2 A, USB Type-C	5 VDC/2 A, USB Type-C
Working Temperature	-20°C to 55°C (-4°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	-20°C to 55°C (-4°F to 131°F)
Protection Level	IP67	IP67	IP67	IP67
Drop Test Height	1.5 m (4.9 ft)	1.5 m (4.9 ft)	1.5 m (4.9 ft)	1.5 m (4.9 ft)
Dimension (LxWxH)	217 × 66 × 106 mm (8.5 × 2.6 × 4.2 in)	217 × 78 × 106 mm (8.5 × 3.1 × 4.2 in)	217 × 66 × 106 mm (8.5 × 2.6 × 4.2 in)	217 × 78 × 106 mm (8.5 × 3.1 × 4.2 in)
Weight (w/o batteries)	706 g (1.55 lb)	776 g (1.7 lb)	706 g (1.55 lb)	776 g (1.7 lb)

Specifications are subject to change without notice.



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