



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) |
| Dimensions (LxWxH) | 200 x 66 x 109 mm (7.8 x 2.6 x 4.3 in) | 210 x 74 x 109 mm (8.3 x 2.9 x 4.3 in) | 200 x 66 x 109 mm (7.8 x 2.6 x 4.3 in) | 210 x 74 x 109 mm (8.3 x 2.9 x 4.3 in) |
| Weight (w/o batteries) | 652 g (1.44 lb) | 722 g (1.59 lb) | 652 g (1.44 lb) | 722 g (1.59 lb) |

Specifications are subject to change without notice.



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