

VOYAGE TB50-384

FUSION THERMAL IMAGING & CMOS BINOCULAR WITH BUILT-IN LASER RANGE FINDER

The AGM Voyage Fusion Binoculars are some of the most technologically advanced and feature-packed optics in the world. The primary engine behind these binoculars lies within the main thermal viewing channel, with its incredible new 12 micron 384x288 thermal detector. This new AGM thermal sensor possesses an industry leading sensitivity rating of sub-20mK (millikelvin). These sensors from AGM will ensure that not only are human-sized heat signatures detectable at up to 1.6 miles (2600m), but also that foliage and other background imagery will be crisp and detailed in closer distances/ranges. Unlike other thermal binoculars on the market, the Voyage also come outfitted with a digital night vision channel as well, which is great for aiding in recognition of targets after the thermal channel has detected a potential target. The built-in 1000m Laser Rangefinder simply takes the Voyage to another level, and this is without even mentioning its 64GB of internal memory and Wi-Fi compatibility.

The potential uses with the new Voyage fusion binoculars seem almost as endless as its firmware features, which include, but are not limited to: inclination sensor, GPS module, 2560x1440 CMOS resolution, Digital Detail Enhancement (DDE), built-in laser rangefinder, 50mm Germanium lens with a 0.9 aperture, 5.5X Base magnification with 16X digital zoom, up to 8 hours of battery life on three removable, rechargeable 18650 batteries, multiple viewing modes, multiple color palettes, USB Type-C port for external power capabilities, a fusion imaging mode, IP67 waterproof rating, picture-in-picture mode, included hard carrying case, neck strap and AGM's 5 Year Warranty!



- Dual-spectrum image fusion and object highlight (detail enhancement and target recognition)
- Selection of thermal view channel, visible light channel, or both combined
- Thermal resolution: 384×288
- Optical resolution: 2560×1440
- NETD less than 20 mK (25°C, F#=0.9)
- Digital Detail Enhancement (DDE)
- Dynamic Noise Reduction (3D DNR)
- Adaptive Automatic Gain Control (AGC)
- Ultra-low illumination (optical channel),
 B/W: 0.001 lux @ (F1.2, AGC On)
- Video recording, replay, picture snapshot and search (capable to review the event on device)
- Wi-Fi hotspot
- Eye-safe laser rangefinder (up to 1,000 m distance detection with measuring accuracy 1 m)
- GPS module
- Digital magnetic compass
- Inclination sensor
- Proximity sensor to save power
- Up to 8 hours continuous operation
- Waterproof, IP67
- 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

| mage Sensor | 12 µm Vanadium Oxide Uncooled Focal Plane Array |
|---------------------------|--|
| Resolution | 384×288 |
| Refresh Rate | 25 Hz |
| Response Waveband | 8 μm to 14 μm |
| NETD | Less than 20 mK (25°C, F#=0.9) |
| Lens (Focal Length) | 50 mm, Manual focus |
| Magnification | 5.5× - 88× |
| Field of View | 5.3° × 4.0° |
| Aperture | F0.9 |
| Digital Zoom | 1×, 2×, 4×, 8×, 16× |
| Detection Range | 2,600 m/yd (6' object)* |
| Focus Mode | Manual focus |
| Minimal Focus Distance | 5 m |
| OPTICAL MODULE | |
| Max. Image Resolution | 2560×1440 |
| lmage Sensor | 1.88" Progressive Scan CMOS |
| Min. Illumination | B/W: 0.001 lux @ (F1.2, AGC On) |
| Lens (Focal Length) | 31 mm |
| Aperture | F1.2 |
| IR Illuminator | Built-in 850 nm Smart IR |
| Night Viewing Range | 400 m/yd * |
| IMAGE DISPLAY | |
| Monitor | 0.39-inch, OLED, 1024×768 |
| Diopter Adjustment | -5 to +3 dpt |
| Interpupillary Distance | 60 mm to 70 mm |
| Eye Relief | 15 mm |
| Image Mode | Optical, White Hot Thermal, Black Hot Thermal, Red Hot Thermal, Image Fusion |
| Optical Mode | Day, Night, Auto, Defog |
| Flat Field Correction | Auto, Manual, External Correction |
| PIP | Yes |
| LASER RANGEFINDER | |
| Measuring Distance | Max. 1,000 m |
| Accuracy | ±1 m |
| Laser Wavelength | 905 nm (Class 1) |

| * Approximate value. Ranges depend on various factors such as | s weather, |
|---|------------|
| temperature differences between objects, environment, etc. | |

| SYSTEM | |
|-------------------------------------|--|
| Storage | Built-in memory module (64 GB) |
| Video Recording | MP4, 1600x1200 |
| Snapshot Capture | JPEG, 1600x1200 |
| Audio Recording | Yes |
| Local Album | Yes |
| Wi-Fi Hotspot | Yes |
| GPS | Yes |
| Digital Compass | Yes |
| Hot Track | Yes |
| Laser Rangefinder | Yes |
| Proximity Sensor | Yes |
| Standby Mode | Yes |
| POWER SUPPLY | |
| Battery Type | Three 18650 batteries |
| Battery Operating Time | Up to 8 hours |
| Battery Capacity Display | Yes |
| External Power Supply | DC 5V/2A, Max.10W, Type-C port |
| GENERAL | |
| Working Temperature | -30°C to 55°C (-22°F to 131°F) |
| Storage Temperature (w/o batteries) | -40°C to 70°C (-40°F to 158°F) |
| Working Humidity | < 90% |
| Protection Level | IP67 |
| Mounting | 1/4"-20 UNC |
| Cable Output | USB Type-C port |
| Accessories (Supplied) | Battery Charger, Power Cable, Lens Cloth, Two Wrist Straps, Neck Strap Six 18650 Batteries, Power Adapter, User Manual, Carrying Case |
| Dimensions (L×W×H) | 217 × 155 × 87 mm (8.5 × 6.1 × 3.5 in) |
| Weight | 1.12 kg (2.5 lb) |

Specifications are subject to change without notice.



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