

## VOYAGE TB50-384

## FUSION THERMAL & DIGITAL DAY/ NIGHT VISION BINOCULAR WITH BUILT-IN LASER RANGE FINDER

The AGM Voyage TB50-384 Fusion Thermal & Digital Day/Night Vision binocular is some of the most technologically advanced and feature-packed optics in the world. The primary engine behind this binocular 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). This sensor 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 Voyage fusion binoculars seem almost as endless as its features, which include, but are not limited to: high-sensitivity sub-20mK thermal detector, 50mm Germanium lens with a 0.9 aperture, 2560x1440 ultra-low light CMOS sensor, various viewing modes, including fusion imaging and multiple color palettes, 5.5X base magnification with 16X digital zoom, picture-in-picture mode, built-in laser rangefinder, GPS module, inclination sensor, Digital Detail Enhancement (DDE), up to 8 hours of battery life on three removable, rechargeable 18650 batteries, USB Type-C port for external power capabilities, IP67 waterproof rating, included hard carrying case, neck strap and of course AGM's 5 Year Transferable 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**

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Image Sensor	12 µm Vanadium Oxide Uncoole 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	
Image 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, Blac 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	d on various t	factors sucl	າ as weather,
temperature differe	nces between o	objects, envir	onment, et	С.

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. Images are for illustration purposes only.



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