

# ObservIR LRF 25-256

## THERMAL AND DIGITAL BINOCULAR



The AGM ObservIR LRF Thermal & Digital Day/Night Vision binocular is some of the most technologically advanced and feature-packed optics in the world. The primary engine behind these binocular lies within the main thermal viewing channel, with its high-sensitivity 12 micron detector. Unlike other thermal binoculars on the market, the ObservIR LRF also come outfitted with a digital day/night channel as well, which is great for aiding in recognition of targets detected by the thermal channel. The built-in 1,000m laser rangefinder simply takes the ObservIR LRF to another level, and this is without even mentioning its 64GB of internal memory and Wi-Fi compatibility.

The ObservIR LRF monoculars also come packed with numerous software improvements, and many features that have become commonplace within the AGM thermal product assortment: high-sensitivity thermal detector, 25mm Germanium lens with a 1.0 aperture, 3840x2160 ultra-low light CMOS sensor, various viewing modes, multiple color palettes, up to 4X digital zoom, picture-in-picture mode, built-in laser rangefinder, GPS module, long-range IR illuminator, up to 8 hours of battery life on removable, rechargeable 18650 batteries, USB Type-C port for external power capabilities, IP67 waterproof rating. The package includes four 18650 batteries, wrist strap and charger.

- Dual-spectrum thermal and digital day/night system
- 12 $\mu$ m high-sensitivity thermal sensor
- 256x192 thermal resolution
- 1x, 2x, 4x digital zoom
- Digital image processing technology
- Ultra-low illumination optical channel
- 3840x2160 optical resolution
- Built-in IR illuminator
- Eye-safe 1,000 m laser rangefinder
- 1920x1080 resolution, 0.49-inch OLED display
- Digital Magnetic Compass
- Built-in GPS module
- Video/audio recording and snapshot capture
- Built-in 64 GB EMMC storage
- Wi-Fi hotspot
- Standby mode
- 8-hour continuous operation on a single charge
- Auto screen-off function to saving energy
- External power supply capability
- Rugged housing with rubber overmolding
- Waterproof and dustproof



## SPECIFICATIONS

Thermal Detector	12µm VOx Uncooled Focal Plane Array
Thermal Resolution	256 x 192
Refresh Rate	50 Hz
NETD	Less than 35 mK (25°C, F#=1.0)
Thermal Channel Lens System	25 mm; F1.0
Thermal Channel Field of View	7.0° x 5.3°
Thermal Channel Magnification	4.5x – 18x
Digital Zoom	1x, 2x, 4x
Diopter Adjustment	-5 to +3
Detection Range (6' object)	1,200 m
Monitor	1920x1080, 0.49 inch, OLED, 50 FPS
FFC (Flat Field Correction)	Auto, Manual, External Correction
Palettes	Black Hot, White Hot, Red Hot, Fusion
Highest Temperature Spot Tracking	Yes
Scene Mode	Jungle, Recognition
Optical Digital Sensor	3840x2160, 1/88" Progressive Scan CMOS
Optical Channel Magnification	5.5x – 22x
Optical Channel Field of View	6.9° x 4.1°
Optical Module Lens System	60 mm, F2.2
Display Mode	Day, Night, Auto
Distance Measurement	Laser Rangefinder: up to 1,000 m, ±1 m accuracy
Laser Wavelength	905 nm
Laser Safety Class	Class 1
Infrared Light	Built-in 850nm Smart IR. Power and beam angle adjustment.
Viewing Range at Night	400 m
Wi-Fi Hotspot	Yes
Sleep Mode	Yes
Built-in Storage	64 GB EMMC
Video/Audio Recording	Yes / Yes
Image Capture	Yes
Interpupillary Adjustment Range	60 mm to 74 mm
Battery Type	Two 18650 rechargeable battery (removable)
Battery Life	Up to 8 hours continuous running (@25°C, WiFi, IR and LRF off)
Power	5 VDC/2 A, USB Type-C interface. Supports external power supply.
Working Temperature	-20°C to 55°C (-4°F to 131°F)
Protection Level	IP67 (Waterproof)
Dimensions	221x142x71 mm (8.7x5.6x2.8 in)
Weight (w/o batteries)	0.89 kg (1.96 lb)

Specifications are subject to change without notice.  
Images are for illustration purposes only.



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