

# ObservIR LRF 50-640

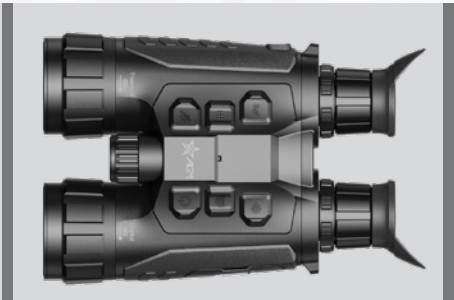
## THERMAL AND DIGITAL BINOCULAR



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, 50 mm objective lens with a 1.0 aperture, 3840x2160 ultra-low light CMOS sensor, various viewing modes, multiple color palettes, 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
- 640x512 thermal resolution
- 3x – 24x thermal magnification
- 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	640 × 512
Refresh Rate	50 Hz
NETD	Less than 15 mK (25°C, F#=1.0)
Thermal Channel Lens System	50 mm; F1.0
Thermal Channel Field of View	8.7° × 7.0°
Thermal Channel Magnification	3.0x – 24x
Diopter Adjustment	-5 to +3
Detection Range (6' object)	2,600 m
Monitor	1920×1080, 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	3840×2160, 1/88" Progressive Scan CMOS
Optical Channel Magnification	5.5x – 22x
Optical Channel Field of View	6.9° × 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	230 × 143 × 80 mm (9.1 × 5.6 × 3.1 in)
Weight (w/o batteries)	0.98 kg (2.16 lb)

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



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