

# ObservIR LRF 35-384

## THERMAL AND DIGITAL BINOCULARS



The AGM ObservIR LRF Thermal & Digital Day/Night Vision binoculars are some of the most technologically advanced and feature-packed optical devices in the world. The primary engine behind these binocular lies within the main thermal viewing channel, with its sub-15 milikelvin 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 binoculars also come packed with numerous software improvements, and many features that have become commonplace within the AGM thermal product assortment: high-sensitivity thermal detector, 35 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 9.5 hours of battery life on two removable, rechargeable 18650 batteries, USB Type-C port for external power capabilities, IP67 waterproof rating. The package includes four 18650 batteries, wrist strap, tripod adapter and charger.

- Dual-spectrum thermal and digital day/night system
- 12 $\mu$ m high-sensitivity thermal sensor
- 384x288 thermal resolution
- 4x – 20x 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
- 9.5 hours continuous operation on a single charge
- Auto screen-off function to saving energy
- External power supply capability
- Waterproof and dustproof
- 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

Thermal Detector	12µm VOx Uncooled Focal Plane Array
Thermal Resolution	384 x 288
Refresh Rate	50 Hz
NETD	Less than 15 mK (25°C, F#=1.0)
Thermal Channel Lens System	35 mm; F1.0
Thermal Channel Field of View	7.5°x5.7°
Thermal Channel Magnification	4x, 10x, 20x
Diopter Adjustment	-5 to +3
Detection Range (6' object)	1,800 m
FFC (Flat Field Correction)	Auto, Manual, External Correction
Thermal Channel Palettes	Black Hot, White Hot, Red Hot, Fusion
Highest Temperature Spot Tracking	Yes
Scene Mode	Jungle, Recognition
Optical Digital Sensor	3840x2160, 1/8" Progressive Scan CMOS
Optical Channel Magnification	5.5x / 11x / 22x
Optical Channel Field of View	7.3°x 4.1°
Optical Module Lens System	60 mm, F2.2
Optical Channel Palettes	Day, Night, Auto
Viewing Range at Night	400 m
Diopter Adjustment	-5 to +3
Interpupillary Adjustment Range	60 mm to 74 mm
Monitor	1920x1080, 0.49 inch, OLED, 50 FPS
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
Wi-Fi Hotspot	Yes
PIP	Yes
Hot Track	Yes
Digital Magnetic Compass	Yes
GPS	Yes
Zoom Pro	Yes
Image Boost 2.0	Yes
Standby Mode	Yes
Built-in Storage	64 GB EMMC
Video/Audio Recording	Yes / Yes
Image Capture	Yes
Local Album	Yes
Battery Type	Two replaceable and Rechargeable Li-ion 18650 Battery
Battery Life	Up to 9.5 hours continuous running (@25°C, WiFi, IR and LRF off)
Power	5V DC, 2 A Support External Power Supply, Support Direct Charging
Working Temperature	-30°C to 55°C (-22°F to 131°F)
Protection Level	IP67 (Waterproof)
Dimensions	221x142x71 mm (8.7x5.6x2.8 in)
Weight (w/o batteries)	0.91 kg (2.01 lb)

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



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