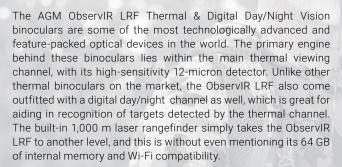


## ObservIR LRF 50-640

## THERMAL AND DIGITAL BINOCULARS



Providing an unrivaled image quality in compact housing, the ObservIR LRF 50-640 features a 50mm Germanium lens and a 640x512 thermal sensor with a high refresh rate of 50Hz. The ObservIR LRF binoculars also come packed with numerous software improvements, and many features that have become commonplace in AGM products: high-sensitivity thermal detector, 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 8.5 hours of battery life on removable, rechargeable battery pack, USB Type-C port for external power capabilities, IP67 waterproof rating. The package includes two battery packs, wrist strap, tripod adapter and charger.



- Dual-spectrum thermal and digital day/night system
- 12µm high-sensitivity thermal sensor
- Superior sub-15 milikelvin thermal sensitivity
- 640x512 thermal resolution
- 4.5x 20x thermal magnification
- Digital image processing technology
- Ultra-low illumination optical channel
- 3840×2160 optical resolution
- Built-in IR illuminator
- Eye-safe 1,000 m laser rangefinder
- 1920×1080 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
- 8.5 hours of 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 Channel Image Sensor                | 12µm VOx Uncooled Focal Plane Array   |
|---|---|
| Thermal Channel Resolution                  | 640 × 512   |
| Thermal Channel Refresh Rate                | 50 Hz   |
| NETD  | Less than 15 mK (25°C, F#=1.0)  |
| Thermal Channel Lens System                 | 50 mm; F/1.0  |
| Thermal Channel Magnification               | 4.5x, 9x, 13.5x, 20x  |
| Thermal Channel Field of View               | 8.8° × 5.3°   |
| Thermal Channel Detection Range (6' object) | 2,600 m   |
| Thermal Channel Palettes                    | Black Hot, White Hot, Red Hot, Fusion   |
| Thermal Scene Modes                         | General, Compressed   |
| FFC (Flat Field Correction)                 | Auto, Manual, External Correction   |
| Hot Tracking (Thermal Channel)              | Yes   |
| Optical Digital Sensor                      | 3840×2160, 1/1.8" Progressive Scan CMOS   |
| Optical Channel Magnification               | 5.5x, 11x, 16.5x, 22x   |
| Optical Channel Field of View               | 7.3° × 4.1°   |
| Optical Channel Lens System                 | 60 mm, F/2.2  |
| Optical Channel Modes                       | Day, Night, Auto  |
| Optical Channel Viewing Range at Night      | 400 m   |
| Diopter Adjustment                          | -5D to +3D  |
| Interpupillary Adjustment Range             | 60 mm to 74 mm  |
| Display                                     | 1920×1080, 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   |
| Digital Magnetic Compass                    | Yes   |
| GPS   | Yes   |
| Zoom Pro                                    | Yes   |
| Image Boost 2.0                             | Yes   |
| Standby Mode                                | Yes   |
| Storage                                     | Built-in EMMC (64 GB)   |
| Video/Audio Recording                       | Yes / Yes   |
| Image Capture                               | Yes   |
| Local Album                                 | Yes   |
| Battery Type                                | One Replaceable and Rechargeable NE-7255 Li-ion Battery 7.18 V/5400 mAh   |
| Battery Life (operating)                    | Up to 8.5 hours continuous running (@25°C, WiFi, IR and LRF off)  |
| Power                                       | 5 VDC/9 VDC, 3 A; USB Type-C interface; Supports external power supply; Support direct charging; Supports fast charging |
| Operating Temperature                       | -30°C to 55°C (-22°F to 131°F)  |
| Protection Level                            | IP67 (Waterproof)   |
| Dimensions                                  | 229 × 148 × 80 mm (9.0 × 5.8 × 3.1 in)  |
| Weight (w/o batteries)                      | 0.83 kg (1.83 lb)   |

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



MAIN OFFICE | 2407 E Interstate 30, Suite 100, Grand Prairie | TX 75050, USA Tel. +1.928.333.4300 | info@agmglobalvision.com | www.agmglobalvision.com

EUROPEAN OFFICE | #6 Andrey Lyapchev Blvd | Sofia, P.C. 1756 | Bulgaria Tel. +35.988.560.0326 | info@agmglobalvision.eu | www.agmglobalvision.eu