

- Dual-spectrum thermal and digital day/night system
- 12µm high-sensitivity thermal sensor
- Digital image processing technology
- Ultra-low illumination optical channel
- 3840x2160 optical resolution
- Built-in IR illuminator
- Built-in eye-safe laser rangefinder
- Adjustable color palettes
- High resolution OLED display
- Built-in EMMC storage (64 GB)
- Wi-Fi data transmission and standby mode
- On-board video/audio recording and image capture
- Waterproof & shockproof



The AGM ObservIR LRF Thermal & Digital Day/Night Vision binoculars are one of the most technologically advanced optical devices. The main thermal viewing channel has a high-sensitivity 12-micron detector. The digital day/night channel is great for aiding in recognition of targets detected by the thermal channel.

A built-in eye-safe laser rangefinder with a range of up to 1 kilometer allows measuring distances in single measurements and continuous scanning modes with an accuracy of ± 1 meters for quick and error-free assessment of the situation.

The ObservIR LRF binoculars also come with software improvements such as a 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. Powered by removable rechargeable battery packs, the ObservIR LRF delivers extended runtime for all-night observation sessions.

These thermal & digital day/night vision binoculars with LRF are ideal for hunting, scouting, security, and long-range observation.

STANDARD ACCESSORIES: 18650 Rechargeable Battery (4), Battery Charger, Type-C USB Cable, Power Adapter, Tripod Adapter, Neck Strap, Lens Tissue

OPTIONAL ACCESSORIES: Hard Waterproof Case, Cleaning Systems

SPECIFICATIONS	OBSERVIR LRF 25-256	OBSERVIR LRF 35-384	OBSERVIR LRF 35-640	OBSERVIR LRF 50-640	OBSERVIR LRF 60-1280
THERMAL SENSOR					
Thermal Sensor Type	VOx Uncooled Focal Plane Array				
Thermal Resolution, pixels	256 x 192	384 x 288	640 x 512	640 x 512	1280 x 1024
NETD, mK	<35	<15	<15	<15	<18
Frame Refresh Rate, Hz	50	50	50	50	25
Pixel Size, μm	12	12	12	12	12
THERMAL OPTICAL SPECIFICATIONS					
Magnification (x)	4.5 / 9 / 18	4 / 10 / 20	3 / 11 / 22	4.5/9/13.5/20	2.5/5/10/20
Lens System	F25/1.0	F35/1.0	F35/1.0	F50/1.0	F60/1.0
Field of view (H x V)	7.0° x 5.3°	7.5° x 5.7°	7.5° x 5.7°	8.8° x 5.3°	14.6° x 8.8°
Diopter Adjustment	-5 to +3	-5 to +3	-5 to +3	-5 to +3	-5 to +3
Detection Distance, m	1200	1800	1800	2600	3100
DIGITAL SENSOR					
Digital Sensor Type	1/88” Progressive Scan CMOS				
Digital Resolution, pixels	3840x2160				
DIGITAL OPTICAL SPECIFICATIONS					
Magnification (x)	5.5 / 11 / 22	5.5 / 11 / 22	5.5 / 11 / 22	5.5/11/16.5/22	5.5/11/16.5/22
Lens System	F60/2.2	F60/2.2	F60/2.2	F60/2.2	F60/2.2
Field of view (H x V)	7.3° x 4.1°	7.3° x 4.1°	7.3° x 4.1°	7.3° x 4.1°	7.3° x 4.1°
Diopter Adjustment	-5 to +3	-5 to +3	-5 to +3	-5 to +3	-5 to +3
Viewing Range at Night, m	400	400	400	400	400
Interpupillary Adjustment Range, mm	60 to 74	60 to 74	60 to 74	60 to 74	60 to 74
DISPLAY					
Monitor	1920x1080, 0.49 inch, OLED, 50 FPS				
THERMAL FFC (Flat Field Correction)	Auto, Manual, External Correction				
Highest Temperature Spot Tracking	Yes				
Scene Mode	Jungle, Recognition				
Thermal Palettes	Black Hot, White Hot, Red Hot, Fusion				
Digital Palettes	Day, Night, Auto				
VIDEO RECORDER					
Wi-Fi Hotspot, PIP, Hot Track	Yes				
Digital Magnetic Compass	Yes				
GPS	Yes				
Zoom Pro, Image Boost 2.0, Standby Mode	Yes				
Video/Audio Recording	Yes				
Image Capture, Local Album	Yes				
Built-In Memory Capacity	64 GB				
RANGE PERFORMANCE					
Laser Range Finder	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				
OPERATIONAL SPECIFICATIONS					
Battery Type	Two replaceable and Rechargeable Li-ion 18650 Battery				
Battery Life at 25°C, hrs	8	9.5	8	8.5	7.5
Environmental Rating	IP67	IP67	IP67	IP67	IP67
Operating Temperature	-30°C to +55°C	-30°C to +55°C	-30°C to +55°C	-30°C to +55°C	-30°C to +55°C
Dimensions, mm	221x142x71	221x142x71	221x142x71	229x148x80	230x153x83
Weight, kg	0.89	0.91	0.91	0.83	0.89