

# ReachIR

## LRF 50-640

### THERMAL IMAGING MONOCULAR WITH BUILT-IN LASER RANGEFINDER

The ReachIR is new premium handheld observational thermal monocular series. All models come equipped with twelve micron infrared detector and a 1024x768 OLED display, for improved color rendering. The ReachIR thermal sensors also come equipped with the most sensitive temperature ratings in its class, coming in at sub-20 millikelvin across the entire product family. Other important options include a 1,000-meter integrated laser rangefinder (LRF), robust body and a removable, rechargeable 18650 battery. These units also boast an impressive waterproof rating, which ensures users have peace of mind while utilizing these under the vast majority of weather conditions.

New optimized image processing algorithms give thermal monocular highly optimized images and remarkable details. The ReachIRs built-in 64 GB memory also sits at the top of its class on the market, with advanced software supporting both video/audio recording and image capture. The primary uses for these thermal monoculars include, but are not limited to: hunting, law enforcement, search-and-rescue, personal security, conservation, anti-poaching, camping, hiking and different marine applications.

- 640x512, 12-micron sensor
- Sub-20mK thermal sensitivity
- Fast 50 Hz imaging
- Built-in 1,000-meter laser rangefinder
- New optimized image processing algorithms
- 1x, 2x, 4x, 8x digital zoom
- 1024x768 resolution, 0.39-inch OLED display
- Video/audio recording and image capture
- 64 GB built-in memory
- Wi-Fi hotspot
- Standby mode
- Replaceable and rechargeable 18650 Lithium battery
- Up to 4 hours continuous running
- Auto screen-off function
- Robust magnesium alloy housing
- Waterproof
- 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

Detector Type	12µm VOx Uncooled Focal Plane Array
Resolution	640 × 512
Refresh Rate	50 Hz
NETD	Less than 20 mK (25°C, F#=1.0)
Response Waveband	8 µm to 14 µm
Lens System	50 mm; F1.0
Field of View (HxV)	8.7° × 7.0°
Magnification	3.0x – 24x
Digital Zoom	1x, 2x, 4x, 8x
Diopter Adjustment	-5 to +3
Detection Range (6' object)	2,600 m/yd
Monitor	1024x768, 0.39 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
Distance Measurement	Laser Rangefinder: up to 1,000 m, ±1 m accuracy
Laser Wavelength	905 nm
Laser Safety Class	Class 1
Hotspot	Yes
Sleep Mode	Yes
Built-in Storage	64 GB EMMC
Video/Audio Recording	Yes / Yes
Image Capture	Yes
PIP	Yes
Battery Type	One 18650 rechargeable battery (removable)
Battery Operating Time	Up to 4 hours continuous running (@25°C, WiFi and LRF off)
Battery Capacity Display	Yes
External Power	5 VDC/2 A, USB Type-C interface Supports external power supply
Working Temperature	-30°C to 55°C (-22°F to 131°F)
Protection Level	IP67 (Waterproof)
Dimensions	197 × 60 × 95 mm (7.76" × 2.36" × 3.74")
Weight (w/o batteries)	450 g (1.0 lb)

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



MAIN OFFICE | 173 West Main Street | PO Box 962 | Springerville, AZ 85938, USA  
Tel. +1.928.333.4300 | [info@agmglobalvision.com](mailto:info@agmglobalvision.com) | [www.agmglobalvision.com](http://www.agmglobalvision.com)

EUROPEAN OFFICE | #6 Andrey Lyapchev Blvd | Sofia, P.C. 1756 | Bulgaria  
Tel. +35.988.560.0326 | [info@agmglobalvision.eu](mailto:info@agmglobalvision.eu) | [www.agmglobalvision.eu](http://www.agmglobalvision.eu)

[www.agmglobalvision.com](http://www.agmglobalvision.com)