

# 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-20 mK 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
- CVBS output for streaming to external monitor
- 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
Response Waveband	8 µm to 14 µm
NETD	Less than 20 mK (25°C, F#=1.0)
Detection Range (6' object)	2,600 m/yd
Lens System	50 mm; F/1.0
Magnification	3.0x – 24x
Digital Zoom	1x, 2x, 4x, 8x
Field of View (HxV)	8.7° × 7.0°
Exit Pupil	4 mm
Eye Relief	15 mm
Diopter Adjustment	-5 to +3
Minimum Focusing Distance	5 m
Display	1024x768, 0.39 inch, OLED, 50 FPS
Picture-in-Picture (PiP)	Yes
Hot Tracking	Yes
Palettes	Black Hot, White Hot, Red Hot, Fusion
Scene Modes	Jungle, Recognition
Flat Field Correction (FFC)	Auto, Manual, External Correction
Distance Measurement	Yes (LRF: up to 1000 m, ±1 m accuracy)
Laser Wavelength	905 nm
Laser Safety Class	Class 1
WiFi Hotspot	Yes
Video Recording	Yes
Image Capture	Yes
Audio Recording	Yes
CVBS Output	Yes
Storage	Built-in EMMC (64 GB)
Audio Recording	Yes
Standby Mode	Yes
Battery Type	One 18650 Replaceable rechargeable Lithium battery (two 18650 batteries included)
Battery Life (operating)	Up to 4.5 hours continuous running (@25°C, WiFi and LRF off)
External Power Supply	5 VDC/2 A, USB Type-C interface. Supports external power supply.
Operating Temperature	-30°C to 55°C (-22°F to 131°F)
Protection Level	IP67 (Waterproof)
Dimensions	202 × 61 × 91 mm (8.0 × 2.4 × 3.6 in)
Weight (w/o batteries)	493 g (1.09 lb)

**Package Includes:** Thermal Imaging Monocular, Two 18650 Batteries, Power Adapter, Type-C USB Cable, 18650 Battery Charger, Lens Cloth, Quick Start Guide, User Manual, Hand Strap, Protective Bag.

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



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