

ReachIR

LRF 35-640

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
- 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

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| 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) | 1,800 m/yd |
| Lens System | 35 mm; F/1.0 |
| Magnification | 2.0x – 16x |
| Digital Zoom | 1x, 2x, 4x, 8x |
| Field of View (HxV) | 12.5° × 10.0° |
| Exit Pupil | 4 mm |
| Eye Relief | 15 mm |
| Diopter Adjustment | -5D to +3D |
| Minimum Focusing Distance | 3.5 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 | 190 × 52 × 86 mm (7.5 × 2.0 × 3.4 in) |
| Weight (w/o batteries) | 442 g (0.97 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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