Reach IR

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 1024×768 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.

- 12µm, high-sensitivity thermal detector (NETD < 20mK)
- 384x288 or 640x512 resolution
- Fast 50 Hz imaging
- Built-in 1,000-meter laser rangefinder
- New optimized image processing algorithms
- 1x, 2x, 4x, 8x digital zoom
- 1024×768 resolution, 0.39-inch OLED display
- Vide/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 3
- 3-Year Warranty

SPECIFICATIONS

	ReachIR 25-284	ReachIR 35-640	ReachIR 50-640
Detector Type	12µm VOx Uncooled Focal Plane Array	12µm VOx Uncooled Focal Plane Array	12µm VOx Uncooled Focal Plane Array
Resolution	384 × 288	640 × 512	640 × 512
Refresh Rate	50 Hz	50 Hz	50 Hz
NETD NETD	Less than 20 mK (25°C, F#=1.0)	Less than 20 mK (25°C, F#=1.0)	Less than 20 mK (25°C, F#=1.0)
Response Waveband	8 µm to 14 µm	8 µm to 14 µm	8 µm to 14 µm
Lens System	25 mm; F1.0	35 mm; F1.0	50 mm; F1.0
Field of View (HxV)	10.5° × 7.9°	12.5° × 10.0°	8.7° × 7.0°
Magnification	2.5x − 20x	2.0x − 16x	3.0x − 24x
Digital Zoom	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x
Diopter Adjustment	-5 to +3	-5 to +3	-5 to +3
Detection Range (6' object)	1,200 m	1,800 m	2,600 m
Monitor	1024x768, 0.39 inch, OLED, 50 FPS	1024x768, 0.39 inch, OLED, 50 FPS	1024x768, 0.39 inch, OLED, 50 FPS
FFC (Flat Field Correction)	Auto, Manual, External Correction	Auto, Manual, External Correction	Auto, Manual, External Correction
Palettes	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion	Black Hot, White Hot, Red Hot, Fusion
Highest Temperature Spot Tracking	Yes	Yes	Yes
Scene Mode	Jungle, Recognition	Jungle, Recognition	Jungle, Recognition
Distance Measurement	Laser Rangefinder: up to 1,000 m, ±1 m accuracy	Laser Rangefinder: up to 1,000 m, ±1 m accuracy	Laser Rangefinder: up to 1,000 m, ±1 m accuracy
Laser Wavelength	905 nm	905 nm	905 nm
Laser Safety Class	Class 1	Class 1	Class 1
Hotspot	Yes	Yes	Yes
Sleep Mode	Yes	Yes	Yes
Built-in Storage	64 GB EMMC	64 GB EMMC	64 GB EMMC
Video/Audio Recording	Yes / Yes	Yes / Yes	Yes / Yes
Image Capture	Yes	Yes	Yes
PIP	Yes	Yes	Yes
Battery Type	One 18650 rechargeable battery (removable)	One 18650 rechargeable battery (removable)	One 18650 rechargeable battery (removable)
Battery Life	4.5 hours continuous running (@25°C, WiFi and LRF off)	4 hours continuous running (@25°C, WiFi and LRF off)	4 hours continuous running (@25°C, WiFi and LRF off)
Battery Capacity Display	Yes	Yes	Yes
External Power	5 VDC/2 A, USB Type-C interface Supports external power supply	5 VDC/2 A, USB Type-C interface Supports external power supply	5 VDC/2 A, USB Type-C interface Supports external power supply
Working Temperature	-30°C to 55°C (-22°F to 131°F)	-30°C to 55°C (-22°F to 131°F)	-30°C to 55°C (-22°F to 131°F)
Protection Level	IP67 (Waterproof)	IP67 (Waterproof)	IP67 (Waterproof)
Dimensions	185 × 52 × 86 mm (7.3 × 2.0 × 3.4 in)	190 × 52 × 86 mm (7.5 × 2.0 × 3.4 in)	202 × 61 × 91 mm (8.0 × 2.4 × 3.6 in)
Weight (w/o batteries)	424 g (0.93 lb)	442 g (0.97 lb)	493 g (1.09 lb)

Specifications are subject to change without notice.

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