

# TrackIR Series

## Handheld Thermal Imaging Monocular



Work indicator could be shut down



Anti light-leakage eyepiece



Super silence button



Noiseless shutter calibration



### Introduce

TrackIR series is Guide's new launched handheld thermal imaging monocular designed for professional hunters. With up to 640 × 480 IR sensor and 1280x960 HD display, it provides adaptable and excellent thermal imaging in any conditions. Support smooth zoom, built-in stadiametric rangefinder, image quality adjustment, picture-in-picture functions. At a high frame rate of 50Hz, TrackIR captures sharp thermal imaging throughout dynamic and rapid motion in distance. It also supports connecting accessories to realize more functions.



### Features and Benefits

- 1280×960 HD display for better comfort of viewing
- High resolution sensor ensures crisper image
- Support smooth zoom (1x ~4x)
- Build-in stadiametric rangefinder
- User-friendly UI with quick menu, easy to operate
- Multiple Color Palettes for good vision in diverse environments
- Rugged and adaptable, IP66, 1-meter drop test
- Can connect external accessories such as laser rangefinder, lighting, mobile power supply and etc

### Application

- Night Hunting
- Search & Rescue
- Law Enforcement
- Night Patrol
- Outdoor Sports
- Personal Security

## Specifications

| Model                          | TrackIR 25mm   | TrackIR 35mm | TrackIR 50mm     | TrackIR Pro 19mm   | TrackIR Pro 25mm | TrackIR Pro 35mm |
|--------------------------------|--|--------------|------------------|--|------------------|------------------|
| <b>Infrared Detector</b>       |  |              |                  |  |                  |                  |
| Detector type                  | VOx  |              |                  |  |                  |                  |
| Detector resolution and pitch  | 400 × 300, 17 μm   |              |                  | 640 × 480, 12 μm   |                  |                  |
| Spectral range                 | 8 to 14 μm   |              |                  |  |                  |                  |
| NETD                           | ≤50mk @ F1 25°C  |              |                  |  |                  |                  |
| <b>Lens</b>                    |  |              |                  |  |                  |                  |
| Focal length                   | 25 mm; F1.2  | 35 mm; F1.2  | 50 mm; F1.2      | 19 mm; F1.0  | 25 mm; F1.0      | 35 mm; F1.0      |
| Focus                          | Manual   |              |                  |  |                  |                  |
| Field of view                  | 15.4° × 11.6°  | 11.1° × 8.3° | 7.8° × 5.8°      | 22.9° × 17.2°  | 17.5° × 13.1°    | 12.5° × 9.4°     |
| <b>Frame Rate</b>              |  |              |                  |  |                  |                  |
| Output frame frequency         | 50 Hz  |              |                  |  |                  |                  |
| <b>Zoom</b>                    |  |              |                  |  |                  |                  |
| Optical zoom                   | 1.7x   | 2.3x         | 3.3x             | 1.1x   | 1.5x             | 2.0x             |
| Digital zoom                   | 1 – 4x   |              |                  | 1 – 8x   |                  |                  |
| Visual effect                  | It's like viewing at a 22" screen at 1 meter   |              |                  |  |                  |                  |
| <b>Power</b>                   |  |              |                  |  |                  |                  |
| Battery type                   | 2 built-in 18650 batteries (6000mAh)   |              |                  |  |                  |                  |
| Battery life                   | ≥ 5 hours  |              |                  | ≥ 4.5 hours  |                  |                  |
| <b>Interface</b>               |  |              |                  |  |                  |                  |
| USB                            | Type C (USB 2.0 standard), supporting power supply and data access   |              |                  |  |                  |                  |
| Video interface                | micro HDMI   |              |                  |  |                  |                  |
| External expansion             | External Display   |              |                  |  |                  |                  |
| Mechanical interface           | UNC ¼"-20 (Tripod mounting), Picatinny   |              |                  |  |                  |                  |
| <b>Display</b>                 |  |              |                  |  |                  |                  |
| Display type                   | 0.4" FLCOS   |              |                  |  |                  |                  |
| Resolution                     | 1280 × 960   |              |                  |  |                  |                  |
| Eyepiece                       | Monocular, exit pupil distance ≥10 mm, diopter adjustment: -4 to + 2   |              |                  |  |                  |                  |
| Eyepiece zoom                  | 13.8x  |              |                  |  |                  |                  |
| Video output                   | Digital video  |              |                  |  |                  |                  |
| <b>Button</b>                  |  |              |                  |  |                  |                  |
| Button functions               | Power / Up / Menu / Down / Photo / Video   |              |                  |  |                  |                  |
| <b>Functions</b>               |  |              |                  |  |                  |                  |
| Smooth zoom                    | Available  |              |                  |  |                  |                  |
| Screen brightness adjustment   | 10 levels  |              |                  |  |                  |                  |
| Detector brightness adjustment | 10 levels  |              |                  |  |                  |                  |
| Detector contrast adjustment   | 10 levels  |              |                  |  |                  |                  |
| Image enhancement              | Available  |              |                  |  |                  |                  |
| Scene modes                    | Enhanced, Highlight and Natural  |              |                  |  |                  |                  |
| Ultra power saving mode        | Available  |              |                  |  |                  |                  |
| Image capturing                | Available  |              |                  |  |                  |                  |
| Video recording                | Available  |              |                  |  |                  |                  |
| WIFI                           | Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters              |              |                  |  |                  |                  |
| Color palettes                 | Black Hot, White Hot, Red Hot, Iron Red, Blue Hot  |              |                  | Black Hot, White Hot, Adjustable Red Hot, Iron Red, Blue Hot |                  |                  |
| Hot spot tracking              | Available  |              |                  |  |                  |                  |
| Working indicator              | On/Off   |              |                  |  |                  |                  |
| Charging indicator             | On/Off   |              |                  |  |                  |                  |
| Compensation modes             | Automatic, shutter and scene compensation  |              |                  |  |                  |                  |
| Rough ranging                  | Available  |              |                  |  |                  |                  |
| Automatic shutdown             | Closed, 15, 30 or 60 mins  |              |                  |  |                  |                  |
| Automatic sleep                | Closed, 5, 10, or 15 mins  |              |                  |  |                  |                  |
| Language settings              | Chinese / English / Russian / German / French  |              |                  |  |                  |                  |
| <b>System</b>                  |  |              |                  |  |                  |                  |
| Time setting                   | Available  |              |                  |  |                  |                  |
| Watermark settings             | Closed, setting of date or date and location   |              |                  |  |                  |                  |
| PIP                            | Upper left, Upper middle, Upper right, Closed  |              |                  |  |                  |                  |
| Restore to default             | Available  |              |                  |  |                  |                  |
| Start up                       | 2 s  |              |                  |  |                  |                  |
| Memory capacity                | 16 GB  |              |                  |  |                  |                  |
| <b>Environmental</b>           |  |              |                  |  |                  |                  |
| Operating temperature range    | -10 °C to 50 °C  |              |                  |  |                  |                  |
| Storage temperature range      | -30 °C to 60 °C  |              |                  |  |                  |                  |
| Humidity                       | 10 % to 95 % non-condensing  |              |                  |  |                  |                  |
| Shock                          | 30 G at 11 ms half sine pulse (as per IEC60068-2-27)   |              |                  |  |                  |                  |
| Vibration                      | 10 Hz - 150 Hz - 10 Hz 0.15 mm (as per IEC60068-2-6)   |              |                  |  |                  |                  |
| Drop                           | 1 m  |              |                  |  |                  |                  |
| Encapsulation                  | IP66   |              |                  |  |                  |                  |
| Certification                  | IP66, FCC, CE, RoHS, EAC, un38.3   |              |                  |  |                  |                  |
| <b>Physical</b>                |  |              |                  |  |                  |                  |
| Weight                         | ≤470 g   | ≤485 g       | ≤535 g           | ≤490 g   | ≤560 g           | ≤560 g           |
| Size (L × W × H)               | 192 × 65 × 71 mm   |              | 214 × 65 × 71 mm | 192 × 65 × 71 mm   |                  | 214 × 65 × 71 mm |
| Standard                       | Power adapter, USB cable (Type C), micro HDMI cable, lens cap, wrist strap, inner bag, shoulder strap, quick start guide |              |                  |  |                  |                  |

# Specifications

