

# ICI | Trace IR25 Monocular



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We are IR™

# ICI | Trace IR25 Monocular

The ICI Trace IR25 Monocular is a handheld 384x288 resolution thermal imaging monocular with a 25 mm lens. Small in size and lightweight, our uncooled monocular is portable and easy to operate. Its waterproof, rugged design makes the Trace IR25 fit for all-weather reconnaissance and applications including scouting, hunting, search and rescue, anti-smuggling, and weapon sights requirements. View images and take infrared images, record thermal videos, as well as watch live transmissions with your cell phone through a WiFi connection. Includes an Brightness / Eye Relief Adjustment Knob and a 640x480 color LCD display for comfort and viewing convenience. With a drop resistance of 1 m and 5 hours of continuous operation, along with USB charging and a DC 5V / 2A External DC input, the Trace IR Monocular can go anywhere your job or hobbies take you.



## Features

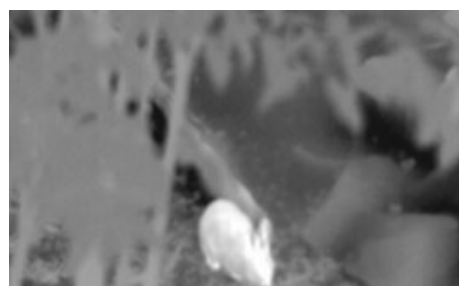
- Superb Imaging
- Color LCD Display, 640x480
- WiFi Connectivity
- Waterproof
- 1 m drop resistant
- Hot spot tracking
- Black Hot, White Hot, Red Hot
- Eye Relief Adjustment Knob
- Small Size
- Lightweight
- Electronic Zoom
- USB Charging
- Cross Hair & Laser Indicator

## Applications

- Scouting
- Hunting
- Animal Conservation
- Population Control
- Handheld Applications
- Weapon Sights
- Cattle Health
- Search and Rescue
- Marine / Maritime

## Specifications

- **Detector Array:** Uncooled FPA Microbolometer
- **Pixel Pitch:** 25  $\mu\text{m}$
- **Pixel Resolution:** 384x288
- **Spectral Band:** 8  $\mu\text{m}$  to 14  $\mu\text{m}$
- **Thermal Sensitivity (NETD):** < 0.1  $^{\circ}\text{C}$  at 30  $^{\circ}\text{C}$  (100 mK)
- **Frame Rate:** 50 Hz
- **FOV:** 21.7 $^{\circ}$  x 16.4 $^{\circ}$
- **Focal Length:** 25 mm (35 mm Optional)
- **Operation Temp:** -20  $^{\circ}\text{C}$  to 50  $^{\circ}\text{C}$
- **Storage Temp:** -40 $^{\circ}\text{C}$  to 60  $^{\circ}\text{C}$
- **Zoom:** 2x, 3x, 4x
- **LCD Display:** Color, 640x480
- **Video Output:** PAL
- **Charge Type:** USB Charging / Power Bank
- **External DC Input:** DC 5V / 2A (Micro USB)
- **Battery:** Li-ion / Rechargeable
- **Operation Time:** 5 hours Continuous Operation
- **Detection Range:** > 1 km
- **Dimensions:** < 180 x 70 x 70mm (H x W x D  $\pm$  .5 mm)
- **Weight:** < 500 g
- **Environmental Rating:** IP66
- **Drop Resistance:** 1 m
- **Waterproof:** Yes
- **Submersible:** No
- **Pixel Operability:** >99%



# Trace IR Monocular Series Specifications

| Models                     | IR19   | IR25                              | IR35  |
|----------------------------|--|-----------------------------------|---|
| Temperature Range          | -20 $^{\circ}\text{C}$ - +50 $^{\circ}\text{C}$            |                                   |   |
| Thermal Sensitivity (NETD) | < 0.1 $^{\circ}\text{C}$ at 30 $^{\circ}\text{C}$ (100 mK) |                                   |   |
| Detector Type              | Uncooled FPA Detector                                      |                                   |   |
| Focal Plane Array          | 384x288, 25 $\mu\text{m}$                                  |                                   |   |
| Focus                      | Fixed Focus  |                                   |   |
| Video Recording            | Yes  |                                   |   |
| Focal Length               | 19 mm  | 25 mm                             | 35 mm   |
| Frame Rate                 | 50Hz   |                                   |   |
| Field of View / FOV        | 29.0 $^{\circ}$ x 71.7 $^{\circ}$                          | 21.7 $^{\circ}$ x 16.4 $^{\circ}$ | 15.7 $^{\circ}$ x 11.8 $^{\circ}$   |
| Spectral Range             | 8 $\mu\text{m}$ to 14 $\mu\text{m}$                        |                                   |   |
| Display                    | Color LCD, 640x480   |                                   |   |
| Battery Type               | Li-ion, Rechargeable                                       |                                   |   |
| Operation Time             | 5 hours continuous operation                               |                                   |   |
| Drop Resistance            | 1M   |                                   |   |
| Dimensions / Weight        | < 180 x 70 x 70 mm   | < 230 x 70 x 70 mm                |   |
| Environment Rating         | IP66   |                                   |   |
| Charging System            | Charge with USB, can be powered with USB power bank        |                                   |   |
| External DC Input          | DC 5V 2A (Micro USB)                                       |                                   |   |
| Video Output               | PAL  |                                   |   |
| Waterproof                 | Yes  |                                   |   |
| Submersible                | No   |                                   |   |
| WiFi                       | No   | Yes                               |   |
| Cross Hair                 | Yes  |                                   |   |
| Laser Indicate             | Yes  |                                   |   |
| Image Polarity             | White Hot / Black Hot / Red Hot                            |                                   |   |
| Image Transmission         | /  |                                   | Live via Wi-Fi, view image, record video<br>Take pictures with cell phone |
| Eye Relief Adjustment /    | Yes, Adjust with knob                                      |                                   |   |
| Zoom                       | 2x, 3x, 4x   |                                   |   |

## > Range performance (with actual targets)

