

ICI | Trace IR19 Monocular



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We are IR™

ICI | Trace IR19 Monocular

The ICI Trace IR19 Monocular is a 384x288 resolution handheld thermal imaging monocular with a 19 mm lens. Small in size and lightweight, our uncooled monocular is portable and easy to operate. Its waterproof, rugged design makes the Trace IR19 fit for all-weather reconnaissance and applications including scouting, hunting, search and rescue, anti-smuggling, and weapon sights requirements. Take and view infrared images as well as record thermal videos. 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 IR19 Monocular can go anywhere your job or hobbies take you.



Features

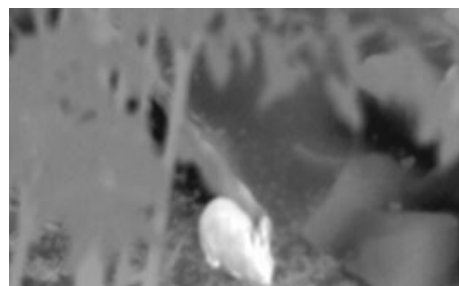
- Superb Imaging
- Color LCD Display, 640x480
- Waterproof
- 1 m drop resistant
- Hot spot tracking
- Black Hot, White Hot, Red Hot
- Eye Relief Adjustment Knob
- Small Size
- Lightweight
- Electronic Zoom
- USB Charging
- Cross Hair & Laser Indicator

Specifications

- **Detector Array:** Uncooled FPA Microbolometer
- **Pixel Pitch:** 25 μm
- **Pixel Resolution:** 384x288
- **Spectral Band:** 8 μm to 14 μm
- **Thermal Sensitivity (NETD):** < 0.1 $^{\circ}\text{C}$ at 30 $^{\circ}\text{C}$ (100 mK)
- **Frame Rate:** 50 Hz
- **FOV:** 29.0 $^{\circ}$ x 71.7 $^{\circ}$
- **Focal Length:** 19 mm
- **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%

Applications

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



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 μm		
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 μm to 14 μm		
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 Take pictures with cell phone
Eye Relief Adjustment /	Yes, Adjust with knob		
Zoom	2x, 3x, 4x		

> Range performance (with actual targets)

