

TQ50CL 3.0 Thermal Monocular



HIKMICRO THUNDER TQ50CL 3.0 Thermal Monocular is equipped with an unparalleled powerful thermal detector, with higher sensitivity and the latest image processing algorithm, ensuring users catch the finest details no matter the weather or light conditions. With a 1920×1080 OLED larger display, THUNDER 3.0 provides a better visual experience.

Key Feature

- 640 × 512 resolution @12 µm thermal detector
- High sensitivity thermal module NETD < 15 mK (@25°C, F# = 1.0)
- 50 mm, F1.0 lens with detection range up to 2600 m
- 1920 × 1080 resolution 0.49-inch OLED display
- Built-in lens laser rangefinder up to 1000m
- HIKMICRO Shutterless Image System (HSIS)
- Rechargeable and Replaceable Li-on Battery, 5h continuous operation
- High shock resistance up to 1000 g/0.4 ms

Specification

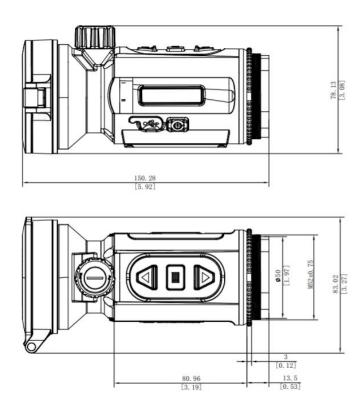
| Thermal Module | |
|---|---|
| Image Sensor | Uncooled Focal Plane Arrays |
| Max. Resolution | 640 × 512 |
| Frame Rate | 50 Hz |
| Pixel Interval | 12 μm |
| Response Waveband | 8 μm to 14 μm |
| Lens (Focal Length) | 50 mm, F1.0 |
| NETD | Less than 15 mK (@25 °C, F# = 1.0) |
| Detection Range | 2600 m |
| Focus Mode | Focus Knob |
| Min. Focusing Distance | 10 m |
| Magnification | 1× |
| Field of View(H × V), Degrees / m @100m | 8.8° × 7.0°/15.4 m × 12.3 m |
| Recommended Magnification of the Day Scope | 1-15x |
| Image Display | |
| Display | 1920 × 1080, 0.49 inch, OLED |
| Palettes | Black Hot, White Hot, Red Hot, Fusion, Red monochrome, Green monochrome |
| Exit Pupil | 25 mm |
| Eye Relief | 20 mm |
| Brightness Adjustment | Yes |
| Tone Adjustment | Cold, Warm |
| HSIS (HIKMICRO Shutterless Image System) | Yes |
| Image Pro 2.0 | Yes |
| System | |
| Record Video | On-board Video Recording |
| Capture Snapshot | Yes |
| Virtual Reticle | Yes |
| Standby Mode | Yes |
| Storage | Built-in EMMC (64GB) |
| Hotspot | Yes |
| Hot Track | Yes |
| Reticle | No |
| Audio Recording | Yes |
| Recoil-activation Recording | Yes |
| Max. Recoil | 1000 g/0.4 ms |
| Local Album | Yes |
| Image Calibration | Yes |

| Zeroing Profiles | 5 | |
|------------------------|---|--|
| Power Supply | | |
| Battery Type | Replacable and Rechargeable Li-ion Battery Pack | |
| Battery Operating Time | ≥5h (25 °C, with hotspot off and LRF on) | |
| | 5 VDC, 2 A | |
| Type-C Power Supply | Supports External Power Supply | |
| | Supports Direct Charging | |
| General | | |
| Protection Level | IP67 | |
| Dimension | 150.3 mm × 83 mm × 78.1 mm | |
| Weight | 540 g with Battery | |
| Working Temperature | -30°C to + 55°C (-22°F to 131°F) | |
| Body Material | Body & Lens Cover: Magnesium Alloy | |
| Center Height | 35.5 mm | |
| Laser Rangefinder | | |
| Safety Class for Laser | Class 1 | |
| Wavelength | 905 nm | |
| Max. Measuring Range | 1000 m | |
| Measurement Accuracy | ±1 m | |
| Min. Measuring Range | 10 m | |
| LRF Module in Lens | Yes | |

· Available Model

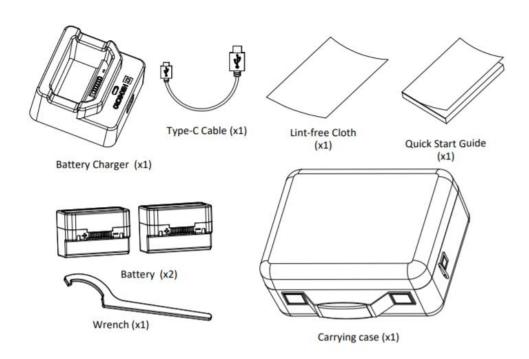
TQ50CL 3.0

Dimension



Unit: mm[inch]

. Accessories



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