



# THUNDER TQ50C 2.0

## Thermal Monocular

HIKMICRO THUNDER TQ50C 2.0 Thermal Monocular has a  $640 \times 512$  thermal detector and a  $1024 \times 768$  OLED display. High thermal sensitivity ensures perfect detail recognition even in the hardest weather conditions when the object and background are with minimal temperature difference. With an extended operation time, the scope is mainly applied to scenarios such as hiking, hunting, searching and rescuing.

### Key Features

- $640 \times 512$  resolution with  $12 \mu\text{m}$  sensor
- High sensitivity thermal module  $\text{NETD} \leq 20 \text{ mK}$  ( $25^\circ\text{C}$ ,  $F\# = 1.0$ )
- $1024 \times 768$  resolution 0.39-inch OLED display
- Supports image brightness and tone adjustment
- Up to 6.5 hours of continuous operation
- Replaceable and rechargeable Li-ion battery
- Supports audio and recoil-activated recording
- High shock resistance up to  $1000 \text{ g}/0.4 \text{ ms}$
- Observation Distance up to 2600 m

## Specification

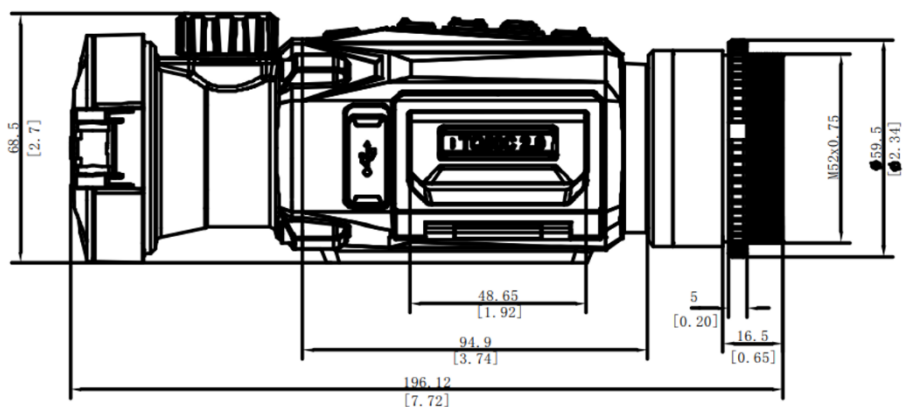
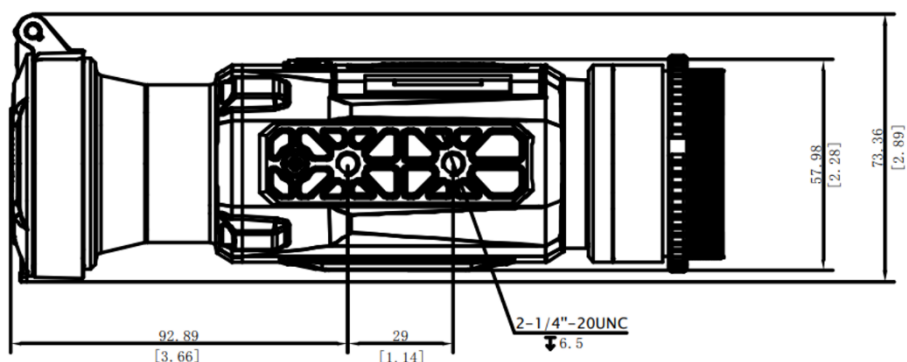
| THERMAL MODULE                            |                                       |
|---|---------------------------------------|
| IMAGE SENSOR                              | Uncooled Focal Plane Arrays           |
| MAX. RESOLUTION                           | 640 × 512                             |
| FRAME RATE                                | 50 Hz                                 |
| PIXEL INTERVAL                            | 12 μm                                 |
| NETD                                      | less than 20 mK (25°C, F# = 1.0)      |
| LENS (FOCAL LENGTH)                       | 50 mm                                 |
| FOCUS KNOB                                | Yes                                   |
| DETECTION RANGE                           | 2600 m                                |
| MIN. FOCUSING DISTANCE                    | 10 m                                  |
| APERTURE                                  | F1.0                                  |
| MAGNIFICATION                             | 1 ×                                   |
| FIELD OF VIEW(H × V),<br>DEGREES/M @100 M | 8.78° × 7.03°/15.36 m × 12.29 m       |
| IMAGE DISPLAY                             |                                       |
| DISPLAY                                   | 1024 × 768, 0.39 inch, OLED           |
| PALETTES                                  | Black Hot, White Hot, Red Hot, Fusion |
| FFC (FLAT FIELD CORRECTION)<br>MODE       | Auto, Manual, External Correction     |
| EXIT PUPIL                                | 22 mm                                 |
| EYE RELIEF                                | 10 mm                                 |
| BRIGHTNESS ADJUSTMENT                     | Yes                                   |
| TONE ADJUSTMENT                           | Cold, Warm                            |
| SYSTEM                                    |                                       |
| RECORD VIDEO                              | On-board video recording              |
| CAPTURE SNAPSHOT                          | Yes                                   |
| STANDBY MODE                              | Yes                                   |
| STORAGE                                   | Built-in EMMC (16 GB)                 |
| DPC                                       | Yes                                   |
| HOTSPOT                                   | Yes                                   |
| HOT TRACK                                 | Yes                                   |
| RETICLE                                   | No                                    |

|                             |  |
|-----------------------------|--|
| DISTANCE MEASUREMENT        | Yes  |
| RECOIL-ACTIVATION RECORDING | Yes  |
| AUDIO RECORDING             | Yes  |
| MAX. RECOIL                 | 1000 g/0.4 ms                                |
| IMAGE CALIBRATION           | Yes  |
| <b>POWER SUPPLY</b>         |  |
| BATTERY TYPE                | Replaceable and Rechargeable Li-ion Battery  |
| BATTERY OPERATING TIME      | ≥ 6.5 h (25°C, with hotspot off)             |
| TYPE-C POWER SUPPLY         | 5 VDC, 2 A<br>Supports external power supply |
| <b>GENERAL</b>              |  |
| PROTECTION LEVEL            | IP67   |
| DIMENSION                   | 196.12mm × 73.36mm × 68.5mm                  |
| WEIGHT                      | 553 g without battery                        |
| WORKING TEMPERATURE         | -30°C to +55°C (-22°F to 131°F)              |

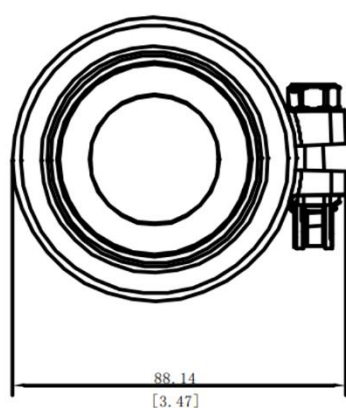
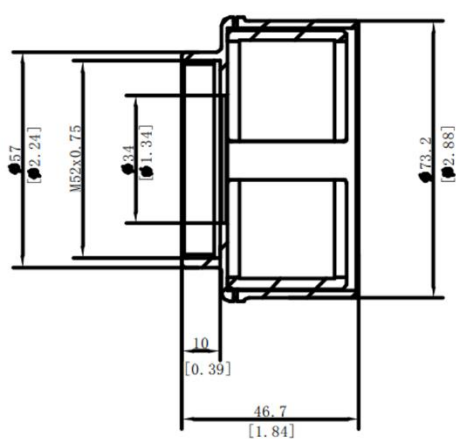
## Available Model

**HM-TR56-50S1G/CW-TQ50C 2.0**

## Dimension

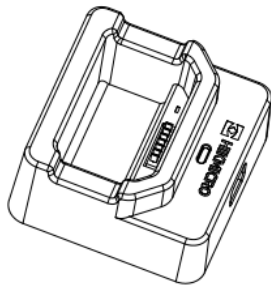


Unit:mm[Inch]

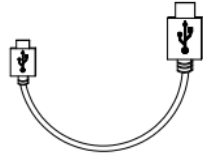


Unit:mm[Inch]

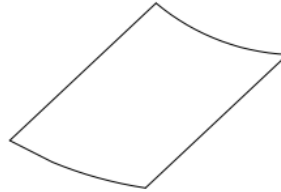
## Accessories



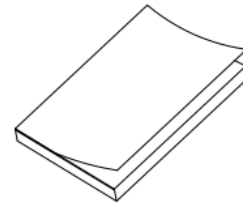
Battery Charger (x1)



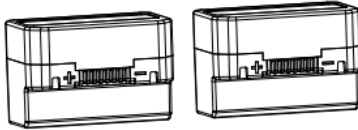
Type-C Cable (x1)



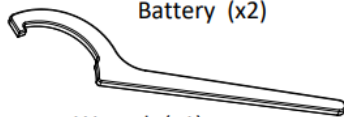
Lint-free Cloth  
(x1)



Quick Start Guide  
(x1)



Battery (x2)



Wrench (x1)



Bag (x1)

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HIKMICRO SIGHT



HIKMICRO Outdoor hikmicro\_outdoor HIKMICRO Outdoor HIKMICRO [info@hikmicrotech.com](mailto:info@hikmicrotech.com) <http://hikmicrotech.com/en>

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, Zhejiang  
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