

# FQ50L 2.0

## Thermal Monocular



HIKMICRO FALCON FQ50L 2.0 handheld thermal monocular camera is equipped with a  $640 \times 512$  @ $12 \mu\text{m}$  thermal detector with much higher sensitivity ( $\text{NETD} < 15 \text{ mK}$ ), ensuring the finest details caught no matter the weather or light conditions. A  $0.49''$   $1920 \times 1080$  larger OLED display and the innovative shutterless system (HSIS) provide an immersive and smooth viewing experience. The laser rangefinder ensures precise distance measurement within the range of 1000 m. Maintaining the traditional premium cylindrical shape design, the monocular can be applied mainly in forest & field hunting, birding, animal searching, rescuing and marine scenarios.

### Key Feature

- High sensitivity thermal module  $\text{NETD} < 15\text{mK}$  (@ $25^\circ \text{C}$ ,  $F\#=1.0$ )
- $640 \times 512$  resolution with  $12 \mu\text{m}$  detector
- 50 mm, F0.9 lens with detection range up to 2600 m
- $1920 \times 1080$  resolution 0.49-inch OLED display
- HIKMICRO Shutterless Image System (HSIS)
- 6 h+ continuous operation time with replaceable and rechargeable battery
- 583 g lightweight, with a compact and traditional cylindrical shape design
- Built-in lens laser rangefinder up to 1000 m

# Specification

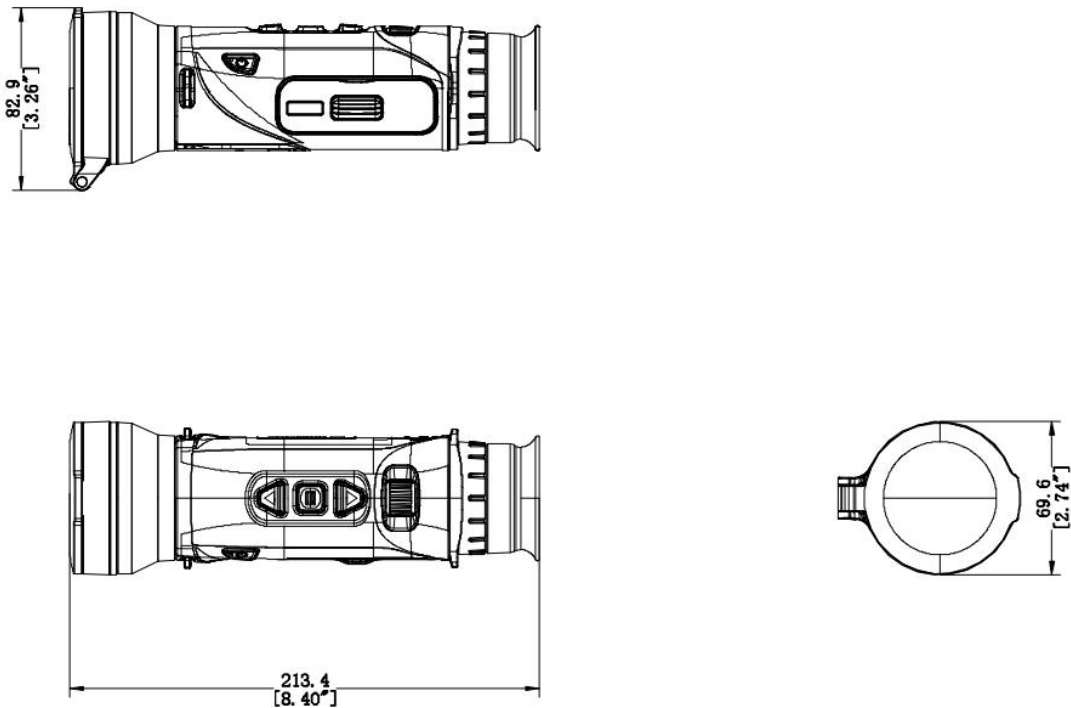
| Thermal Module                           |   |
|--|---|
| Image Sensor                             | VOx Uncooled Focal Plane Arrays   |
| Max. Resolution                          | 640 × 512   |
| Frame Rate                               | 50 Hz   |
| Pixel Interval                           | 12 μm   |
| Response Waveband                        | 8 μm to 14 μm   |
| NETD                                     | Less than 15 mK (@25°C), F#=1.0   |
| Lens (Focal Length)                      | 50 mm, F0.9   |
| Focus Mode                               | Rear Focus Wheel  |
| Min. Focusing Distance                   | 5.0 m   |
| Magnification                            | 2.7 × to 21.6 × (8 ×)   |
| Field of View(H × V), Degrees / m @100 m | 8.8° × 7.0°/15.4 m × 12.2 m @100 m                                      |
| Detection Range                          | 2600 m  |
| Image Display                            |   |
| Display                                  | 1920 × 1080, 0.49 inch, OLED  |
| Contrast Adjustment                      | Yes   |
| Brightness Adjustment                    | Yes   |
| Palettes                                 | Black Hot, White Hot, Red Hot, Fusion, Red Monochrome, Green Monochrome |
| Exit Pupil                               | 8 mm  |
| Eye Relief                               | 15 mm   |
| Diopter (Range)                          | -5 D to +3 D  |
| Tone Adjustment                          | Cold, Warm  |
| Zoom Pro                                 | Yes   |
| HSIS (HIKMICRO Shutterless Image System) | Yes   |
| Image Pro 2.0                            | Yes   |
| System                                   |   |
| Storage                                  | Built-in Memory Module (64 GB)  |
| Record Video                             | Yes   |
| Capture Snapshot                         | Yes   |
| Local Album                              | Yes   |
| Standby Mode                             | Yes   |
| PIP                                      | Yes   |
| Hotspot                                  | 2.4/5 G WiFi Waveband   |
| Hot Track                                | Yes   |
| Distance Measurement                     | Yes   |
| Audio Recording                          | Yes   |

| Power Supply              |  |
|---------------------------|--|
| Battery Type              | Replaceable and rechargeable 21700 battery                             |
| Battery Operating Time    | ≥6 h (@25°C, WiFi, Zoom Pro, LRF on)                                   |
| Type-C Power Supply       | 5 V DC, 2 A<br>Supports External Power Supply, Support Direct Charging |
| General                   |  |
| Work Temperature/Humidity | From -30°C to 55°C (-22°F to 131°F); Humidity: 90% or Less             |
| Protection Level          | IP67   |
| Dimension                 | 213.4 mm × 69.6 mm × 82.9 mm   |
| Weight                    | 583 g with Battery   |
| 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   |

## Available Model

HM-TSB6-50S2G/W1-FQ50L 2.0

## Dimension



Unit: mm [Inch]

## Accessories



Protective Bag (×1)



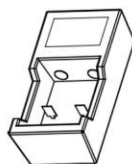
Quick Start Guide (×1)



Lint-Free Cloth (×1)



Type-C Cable (×1)



Battery Charger (×1)



Battery (×2)



Neck Strap (×1)



Hand Strap (×1)

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.



Hikmicro Hunting.Global   HIKMICRO Outdoor   [www.hikmicrotech.com](http://www.hikmicrotech.com)   [hikmicro\\_hunting\\_global](https://www.instagram.com/hikmicro_hunting_global)   HIKMICRO   [info@hikmicrotech.com](mailto:info@hikmicrotech.com)

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, Zhejiang  
© Hangzhou Microimage Software Co., Ltd. All rights reserved. | Data subject to change without notice!