

# FQ50 2.0 Thermal Monocular



HIKMICRO FALCON FQ50 2.0 handheld Thermal Monocular camera is equipped with a  $640 \times 512$  @ $12 \mu m$  thermal detector with much higher sensitivity (NETD <  $15 \mu M$ ), 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. 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 NETD < 15mK (@25° C, F#=1.0)
- 640 × 512 resolution with 12 μm sensor
- 50 mm, F0.9 lens with detection range up to 2600 m
- 1920 × 1080 resolution 0.49-inch OLED display
- HIKMICRO Shutterless Image System (HSIS)
- 6.5 h+ continuous operation time with replaceable and rechargeable battery
- 570 g lightweight, with a compact and traditional cylindrical shape design

# **Specification**

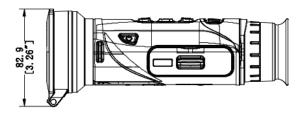
Image Sensor         VOx Uncooled Focal Plane Arrays           Max. Resolution         640 x 512           Frame Rate         50 Hz           Pixel Interval         12 µm           Response Waveband         8 µm to 14 µm           NETD         Less than 15 mK (@25°C), F#=1.0           Lens (Focal Length)         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         2.600 m           Pield of View(H × V), Degrees / m @100 m         8.8* × 7.0*/15.4 m × 12.2 m           Detection Range         2600 m           Image Display         1920 × 1080, 0.49 inch, OLED           Contrast Adjustment         Yes           Pialettes         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         Yes	Thermal Module	
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Brightness Adjustment 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) Image Pro 2.0 Yes  System Storage Built-in Memory Module (64 GB) Record Video Yes Capture Snapshot Local Album Yes Standby Mode Yes PIP Yes Hotspot Hotspot Lot 2.4/5 G WiFi Waveband Hot Track Pisande Measurement Yes Audio Recording Yes Power Supply Battery Type Replaceable and rechargeable 21700 battery	Display	1920 × 1080, 0.49 inch, OLED
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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  System  Storage Built-in Memory Module (64 GB)  Record Video Yes  Capture Snapshot Yes  Local Album Yes  Standby Mode Yes  PIP Yes  Hotspot Audio Recording Yes  Distance Measurement Yes  Audio Recording Yes  Power Supply  Battery Type Replaceable and rechargeable 21700 battery	Brightness Adjustment	Yes
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Tone Adjustment Zoom Pro Yes  HSIS (HIKMICRO Shutterless Image System) Image Pro 2.0 Yes  System  Storage Built-in Memory Module (64 GB)  Record Video Yes  Capture Snapshot Ves  Local Album Yes  Standby Mode Yes  PIP Yes  Hotspot Hotspot Hot Track Ves  Distance Measurement Yes  Audio Recording Yes  Replaceable and rechargeable 21700 battery	Eye Relief	15 mm
Zoom ProYesHSIS (HIKMICRO Shutterless Image System)YesImage Pro 2.0YesSystemStorageBuilt-in Memory Module (64 GB)Record VideoYesCapture SnapshotYesLocal AlbumYesStandby ModeYesPIPYesHotspot2.4/5 G WiFi WavebandHot TrackYesDistance MeasurementYesAudio RecordingYesPower SupplyBattery TypeReplaceable and rechargeable 21700 battery	Diopter (Range)	-5 D to +3 D
HSIS (HIKMICRO Shutterless Image System) Image Pro 2.0  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  Replaceable and rechargeable 21700 battery	Tone Adjustment	Cold, Warm
Image System) 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 Loty 2.4/5 G WiFi Waveband Hot Track Pistance Measurement Yes  Audio Recording Yes  Replaceable and rechargeable 21700 battery	Zoom Pro	Yes
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	,	Yes
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	Image Pro 2.0	Yes
Record Video Yes Capture Snapshot Yes Local Album Yes Standby Mode Yes PIP Yes Hotspot 4.4/5 G WiFi Waveband Hot Track Ves Distance Measurement Yes Audio Recording Yes Power Supply Battery Type Replaceable and rechargeable 21700 battery	System	
Capture Snapshot Local Album Yes Standby Mode Yes PIP Yes Hotspot 2.4/5 G WiFi Waveband Hot Track Ves Distance Measurement Audio Recording Power Supply Battery Type Replaceable and rechargeable 21700 battery	Storage	Built-in Memory Module (64 GB)
Local Album  Standby Mode  Yes  PIP  Yes  Hotspot  2.4/5 G WiFi Waveband  Hot Track  Yes  Distance Measurement  Audio Recording  Yes  Power Supply  Battery Type  Replaceable and rechargeable 21700 battery	Record Video	Yes
Standby Mode 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	Capture Snapshot	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	Local Album	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	Standby Mode	Yes
Hot Track  Postance Measurement  Yes  Audio Recording  Yes  Power Supply  Battery Type  Replaceable and rechargeable 21700 battery	PIP	Yes
Distance Measurement Audio Recording Yes  Power Supply  Battery Type Replaceable and rechargeable 21700 battery	Hotspot	2.4/5 G WiFi Waveband
Audio Recording  Power Supply  Battery Type  Replaceable and rechargeable 21700 battery	Hot Track	Yes
Power Supply  Battery Type Replaceable and rechargeable 21700 battery	Distance Measurement	Yes
Battery Type Replaceable and rechargeable 21700 battery	Audio Recording	Yes
· · · · · · · · · · · · · · · · · · ·	Power Supply	
Battery Operating Time ≥6.5 h (@25°C, WiFi, Zoom Pro on)	Battery Type	Replaceable and rechargeable 21700 battery
	Battery Operating Time	≥6.5 h (@25°C, WiFi, Zoom Pro on)

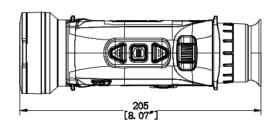
Type-C Power Supply	5 V DC, 2 A
	Supports External Power Supply, Support Direct Charging
General	
Work Temperature/Humidity	From -30°C to 55°C (-22°F to 131°F); Humidity: 90% or Less
Protection Level	IP67
Dimension	205 mm × 69.6 mm × 82.9 mm
Weight	569.5 g with Battery

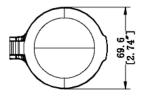
### **Available Model**

HM-TSB6-50S2G/W1-FQ50 2.0

## **Dimension**

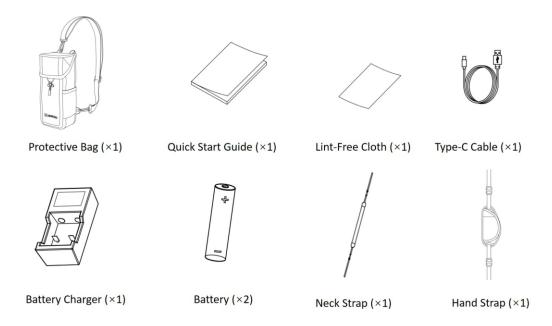






Unit: mm [Inch]

#### **Accessories**



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.



















