

PRODUCT TECH SHEET



SCAN FOR VIDEO

MODEL	FALCON 2.0 – FQ50			 HIKMICRO
STYLE	Thermal Monocular (<u>no</u> LRF)			
RELEASE	Feb 2025	RRP	\$4,299	
				
				
DIMENSIONS				
LENGTH		205mm (8.1")		
WIDTH		70mm (2.8")		
HEIGHT		83mm (3.3")		
WEIGHT		570g (incl batt)		
PROTECTION				
IP67 (water resistant to 1m for 30 mins)				
POWER				
1 x 21700 External Li-Ion Battery				

SUMMARY

The **HIKMICRO FALCON 2.0 - FQ50** is the 2025 revised edition of the popular cylindrical-shaped HIKMICRO FALCON handheld Thermal Monocular, and now comes equipped with an upgraded 640 × 512 @12 μm thermal detector with much higher sensitivity (NETD <15 mK), ensuring the finest details are caught – no matter the weather or light conditions.

The screen is bigger too using a 0.49" 1920 × 1080 Full HD resolution OLED display that uses the innovative shutterless system (HSIS) to provide an immersive and smooth viewing experience.

The 50mm, F0.9 lens on this model delivers a massive 2600m detection range with 8x magnification (2.7x ~ 21.6x) and a huge 15.4m x 12.2m viewing window at 100m, with the added advantage of the newly-designed upper rear focus wheel for true one-hand operation.

Maintaining the traditional pocket-sized cylindrical design, the **FALCON 2.0 - FQ50** is perfect for forest & field hunting, birding, animal searching, rescuing and marine scenarios.

KEY FEATURES

- 640 × 512 resolution @12μm thermal detector for amazing thermal detail.
- High sensitivity thermal module NETD <15mK (@25°C, F# = 1.0), ensuring perfect image quality and detail recognition even in the toughest weather conditions.
- 50mm F0.9 lens with a 15.4m x 12.2m wide field of view at 100m, plus a detection range up to a massive 2600m, with identification up to 650m.
- 1920 × 1080 resolution 0.49-inch OLED display with HSIS (Shutterless Image System) for clarity.
- Picture and video recording using on-board, in-built 64GB memory.
- Powered by one 21700 external Li-ion battery, providing around 6.5 hours of operation even with WiFi and Zoom Pro on! The battery can be swapped out when discharged for the second of the two supplied batteries.
- Waterproof with an IP67 rating (to 1m for 30 minutes) for tackling the toughest of conditions.
- Three Year HikMicro Warranty for peace-of-mind.

TECHNICAL DETAILS**[3 Year Warranty]****THERMAL MODULE:**

Image Sensor	VOx Uncooled Focal Plane Arrays
Maximum Resolution (Thermal)	640 x 512
Frame Rate	50Hz
Pixel Interval	12µm
Response Waveband	8µm to 14µm
NETD	Less than 15mK (@25°C), F# = 1.0
Lens (Focal Length)	50mm, F0.9
Focus Mode	Rear Upper Focus Wheel
Detection Range	2600m
Minimum Focusing Distance	5.0m
Magnification	2.7× to 21.6× (8x)
Field of View (HxV), Degrees/m @100m	8.8° × 7.0°/15.4m × 12.2m

IMAGE DISPLAY:

Display	1920 × 1080, 0.49-inch OLED
HSIS (HIKMICRO Shutterless Image System)	Yes (provides an immersive, smooth image)
Palettes	Black Hot, White Hot, Red Hot, Fusion, Red Mono, Green Mono.
Exit Pupil	8mm
Eye Relief	15mm
Diopter (Range)	-5 D to +3 D
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Zoom Pro	Yes
Image Pro 2.0	Yes
Tone Adjustment	Cold, Warm

SYSTEM:

Capture Snapshot	Yes
Audio Recording	Yes
Video Recording	Yes
Local Album	Yes
File Storage	Built-in EMMC (64GB)
PiP	Yes
Hotspot	Yes (2.4G and 5G Dual Waveband)
Hot Track	Yes
Distance Measurement	Yes (Stadiametric, not Laser)
Standby Mode	Yes

POWER SUPPLY:

Battery Type	One replaceable and rechargeable 21700 battery (2 x Supplied)
Battery Operating Time	6.5 hours continuous running with WiFi and Zoom Pro functions turned on (@25°C)
Type-C Power Supply	5V DC, 2A. Supports External Power Supply
Boot Time	3 Seconds

GENERAL:

Dimensions	205 mm × 69.6 mm × 82.9 mm
Weight	570 g with external battery installed
Working Temperature	-30°C to +55°C
Protection Level	IP67



Connect to the **HikMicro SIGHT App** for greater functionality.

