



## **THUNDER TQ50 2.0**

### Thermal Image Scope

HIKMICRO THUNDER TQ50 2.0 Thermal Image Scope 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× 512 resolution with 12 μm sensor
- High sensitivity thermal module NETD ≤ 20 mK (25°C, F# = 1.0)
- 1024 × 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 g/0.4 ms
- Observation Distance up to 2600 m

# Specification

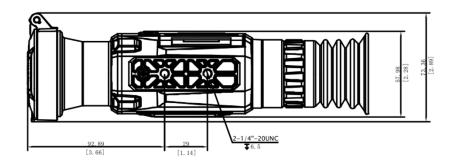
THERMAL MODULE		
IMAGE SENSOR	Uncooled Focal Plane Arrays	
MAX. RESOLUTION	640 × 512	
FRAME RATE	50 Hz	
PIXEL INTERVAL	12 µm	
NETD	less than 20 mK (25°C, F# = 1.0)	
LENS (FOCAL LENGTH)	50 mm	
FOCUS KNOB	Yes	
DETECTION RANGE	2600 m	
MIN. FOCUSING DISTANCE	10 m	
APERTURE	F1.0	
MAGNIFICATION	2.6 ×	
FIELD OF VIEW(H × V), DEGREES/M @100 M	8.78° × 7.03°/15.36 m × 12.29 m	
IMAGE DISPLAY		
DISPLAY	1024 × 768, 0.39 inch, 0LED	
PALETTES	Black Hot, White Hot, Red Hot, Fusion	
FFC (FLAT FIELD CORRECTION) MODE	Auto, Manual, External Correction	
EXIT PUPIL	6 mm	
EYE RELIEF	45 mm	
DIOPTER (RANGE)	-5 D to 5 D	
BRIGHTNESS ADJUSTMENT	Yes	
TONE ADJUSTMENT	Cold, Warm	
SYSTEM		
RECORD VIDEO	On-board video recording	
CAPTURE SNAPSHOT	Yes	
DIGITAL ZOOM	1x, 2x, 4x, 8x	
STANDBY MODE	Yes	
STORAGE	Built-in EMMC (16 GB)	
PIP	Yes	
DPC	Yes	

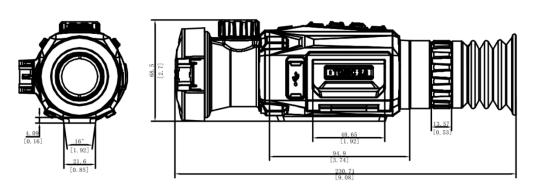
HOTSPOT	Yes
HOT TRACK	Yes
DISTANCE MEASUREMENT	Yes
RECOIL-ACTIVATION RECORDING	Yes
AUDIO RECORDING	Yes
MAX. RECOIL	1000 g/0.4 ms
POWER SUPPLY	
BATTERY TYPE	Replaceable and Rechargeable Li-ion Battery
BATTERY OPERATING TIME	≥ 6.5 h (25°C, with hotspot off)
TYPE-C POWER SUPPLY	5 VDC, 2 A
	Supports external power supply
GENERAL	
PROTECTION LEVEL	IP67
DIMENSION	230.71 mm × 73.36 mm × 68.5 mm
WEIGHT	530 g without battery
WORKING TEMPERATURE	-30°C to +55°C (-22°F to 131°F)

# Available Model

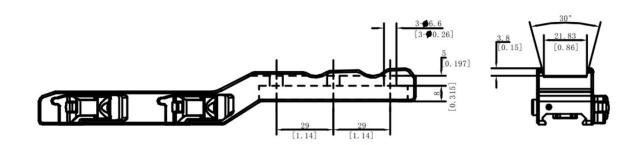
HM-TR56-50S1G/W-TQ50 2.0

# Dimension





Unit:mm[Inch]



Unit: mm [Inch]

# Accessories Type-C Cable (x1) Battery Charger (x1) Battery (x2) Bag (x1)

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