



THUNDER TQ50 2.0

Thermal Image Scope

HIKMICRO THUNDER TQ50 2.0 Thermal Image Scope has a 640×512 thermal detector and a 1024×768 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 $12 \mu\text{m}$ sensor
- High sensitivity thermal module $\text{NETD} \leq 20 \text{ mK}$ (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 $1000 \text{ g}/0.4 \text{ ms}$
- Observation Distance up to 2600 m

Specification

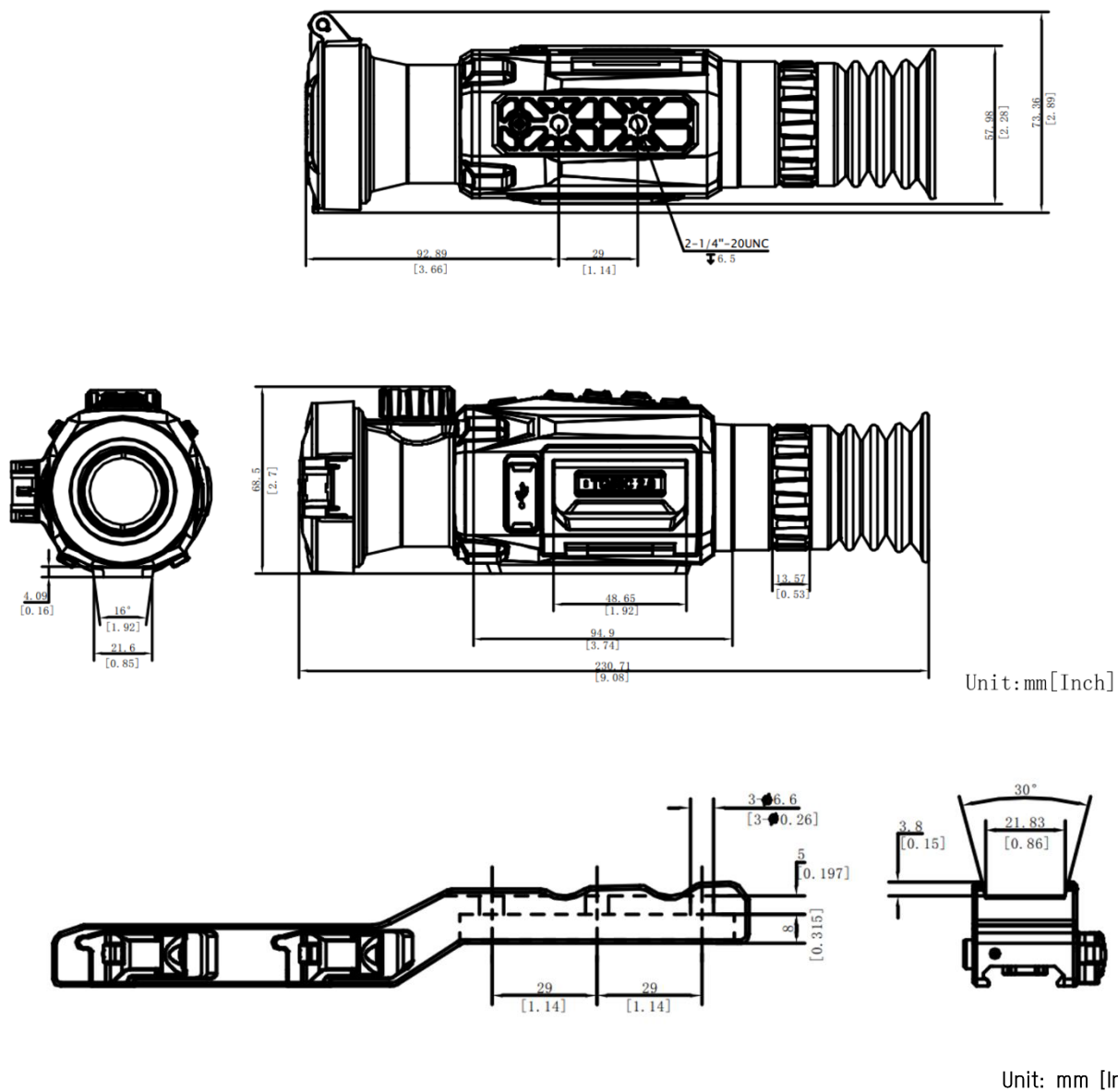
THERMAL MODULE	
IMAGE SENSOR	Uncooled Focal Plane Arrays
MAX. RESOLUTION	640 × 512
FRAME RATE	50 Hz
PIXEL INTERVAL	12 μm
NETD	less than 20 mK (25°C, F# = 1.0)
LENS (FOCAL LENGTH)	50 mm
FOCUS KNOB	Yes
DETECTION RANGE	2600 m
MIN. FOCUSING DISTANCE	10 m
APERTURE	F1.0
MAGNIFICATION	2.6 ×
FIELD OF VIEW(H × V), DEGREES/M @100 M	8.78° × 7.03°/15.36 m × 12.29 m
IMAGE DISPLAY	
DISPLAY	1024 × 768, 0.39 inch, OLED
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

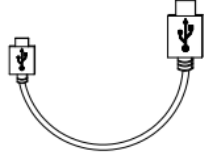


Unit: mm [Inch]

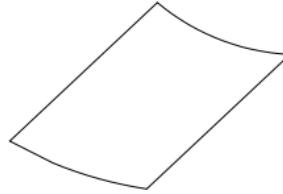
Accessories



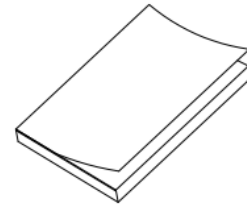
Battery Charger (x1)



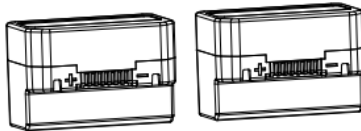
Type-C Cable (x1)



Lint-free Cloth (x1)



Quick Start Guide (x1)



Battery (x2)



Bag (x1)

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 SIGHT



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