TQ50CL 4.0
Thermal Clip-On



HIKMICRO THUNDER TQ50CL 4.0 features a high-sensitivity 640×512 thermal detector with a NETD of less than 12 mK. Its 50 mm lens and Image Pro 4.0 reveal fine details, while the AMOLED display delivers clear visuals. With an upgraded 1200 m LRF, HSIS, Sync Pro, and a more compact design, it combines precision with easy handling.

· Key Feature

- 640×512 resolution @12 μm thermal detector
- High sensitivity thermal module NETD<12 mK (@25°C, F# = 1.0)
- 50 mm, F1.0 lens with detection range up to 2600 m
- 1920×1080 resolution 0.49-inch AMOLED display
- Built-in lens laser rangefinder up to 1200 m
- HIKMICRO Shutterless Image System (HSIS) + Sync Pro
- 6h continuous operation
- High shock resistance up to 6000J
- HIKMICRO Image Pro 4.0
- 1 MOA guaranteed precision

· Specification

Thermal Module	
Image Sensor	Uncooled Focal Plane Arrays
Max. Resolution	640×512
Frame Rate	50 Hz
Pixel Interval	12 μm
Response Waveband	8 μm to 14 μm
Lens (Focal Length)	50 mm, F1.0
NETD	Less than 12 mK (25°C, F# = 1.0)
Focus Mode	Focus Knob
Detection Range	2600 m
Min. Focusing Distance	10 m
Magnification	1×
Field of View (H×V), Degrees / m@100 m	8.8°×7.0°/15.4 m×12.2 m @100 m
Recommended Magnification of the Day Scope	1-15×
Magnification of Monocular Mode	3.4×-27.2× (8×)
Image Display	
Display	1920×1080, 0.49-inch, AMOLED
Palettes	Black Hot, White Hot, Red Hot, Fusion, Red monochrome, Green monochrome
Exit Pupil	25 mm
Eye Relief	20 mm
Image Pro 4.0	Yes
Brightness Adjustment	Yes
Tone Adjustment	Cold, Warm
HSIS (HIKMICRO Shutterless Image System)	Yes
Sync Pro	Yes
System	
Record Video	On-board Video Recording
Capture Snapshot	Yes
Virtual Reticle	Yes
Standby Mode	Yes
Storage	Built-in EMMC (64 GB)
Hotspot	Yes
Reticle	No
Audio Recording	Yes
Recoil-activation Recording	Yes
Max. Recoil	6000J

Local Album	Yes
Image Calibration	Yes
Zeroing Profiles	5
Power Supply	
Battery Type	Two HM-3840DC rechargeable Lithium batteries
Battery Operating Time	≥6h (25°C, with hotspot off and LRF on)
Type-C Power Supply	DC 5V/2A Supports External Power Supply Supports Direct Charging
General	
Protection Level	IP67
Dimension	119.5 mm×82 mm×81 mm
Weight	560.3 g with battery
Working Temperature	-30°C to +50°C (-22°F to +122°F)
Body Material	Body & Lens Cover: Magnesium Alloy
Center Height	31 mm
Laser Rangefinder	
Safety Class for Laser	Class 1
Wavelength	905 nm
Max. Measuring Range	1200 m
Measurement Accuracy	±1m: <400 m ±0.3m: >400 m
Min. Measuring Range	10 m
LRF Module in Lens	Yes

· Available Model

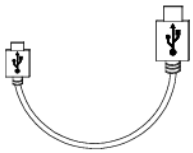
HM-TRA6-50Y3G/WL-TQ50CL 4.0

HM-TRA6-50Y3G/WL1-TQ50CL 4.0

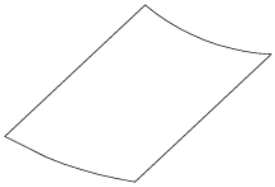
· Dimension



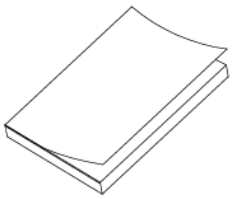
Battery Charger (×1)



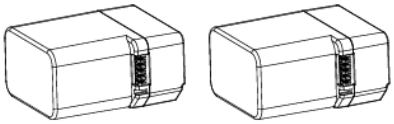
USB Type-C Cable (×1)



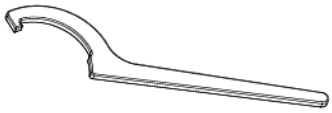
Lint-free Cloth (×1)



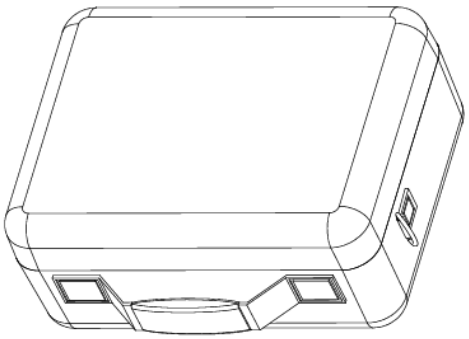
Quick Start Guide (×1)



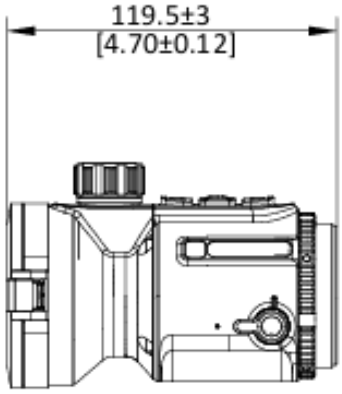
Batteries (×2)

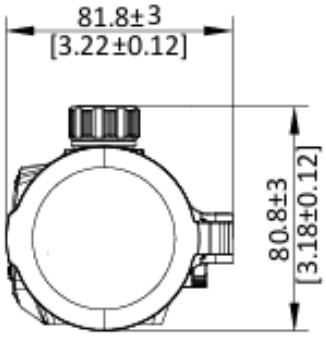


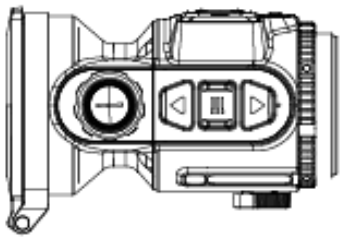
Wrench (×1)



Carrying Case (×1)







Unit: mm [inch]

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HIKMICRO SIGHT

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