TQ50CL 4.0

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

· Specification

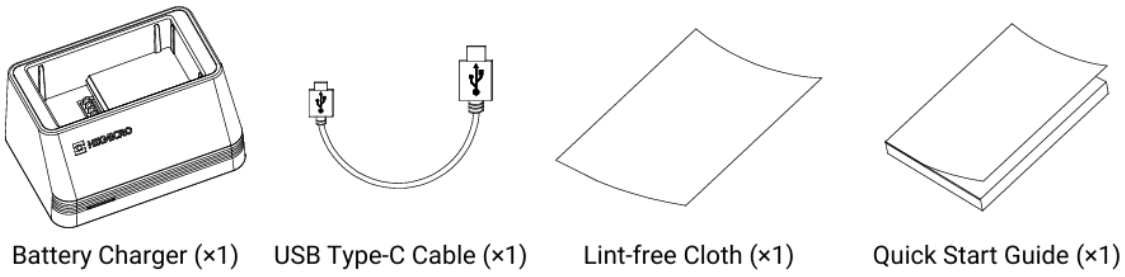
Thermal Module	
Image Sensor	Uncooled Focal Plane Arrays
Max. Resolution	640 x 512
Frame Rate	50Hz
Pixel Interval	12μm
Response Waveband	8μm to 14μm
Lens (Focal Length)	50mm, F1.0
NETD	Less than 12mK (25 °C, F#=1.0)
Focus Mode	Focus Knob
Detection Range	2600m
Min. Focusing Distance	10m
Magnification	1x
Field of View(H × V), Degrees / m @100m	8.8° × 7.0°/15.4m x 12.2m @100m
Recommended Magnification of the Day Scope	1-15x
magnification of monocular mode	3.4x-27.2x (8x)
Image Display	
Display	1920x1080, 0.49 inch, AMOLED
Palettes	Black Hot, White Hot, Red Hot, Fusion, Red monochrome, Green monochrome
Exit Pupil	25mm
Eye Relief	20mm
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

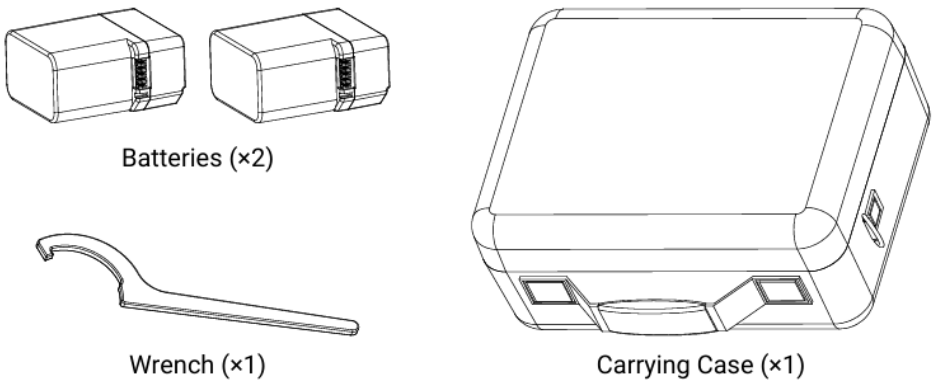
Battery Operating Time	≥6h (25 °C, with hotspot off and LRF on)
Type-C Power Supply	5 VDC, 2 A Supports External Power Supply Supports Direct Charging
General	
Protection Level	IP67
Dimension	119.5mm × 82mm × 81mm
Weight	560.3g with Battery
Working Temperature	-30 °C to +50°C (-22 °F to +122°F)
Body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

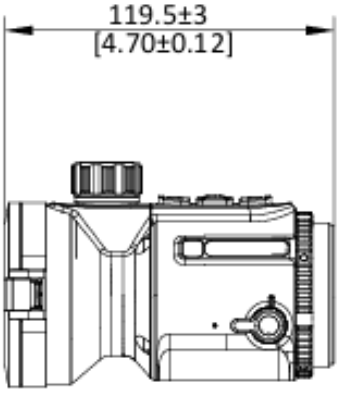
· Available Model

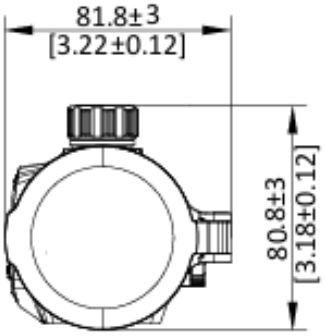
HM-TRA6-50Y3G/WL-TQ50CL 4.0
HM-TRA6-50Y3G/WL1-TQ50CL 4.0

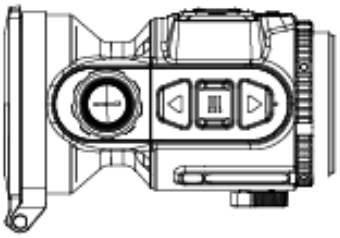
· Dimension











· Accessory

- **Included**

HM-CB-T4

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HIKMICRO SIGHT

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