

SQ50L 3.0

Thermal Scope



HIKMICRO STELLAR SQ50L 3.0 Thermal Scope is equipped with a 640×512 @ $12 \mu\text{m}$ thermal detector, with much higher sensitivity ($\text{NETD} < 15 \text{ mK}$) and the latest image processing algorithm (Image Pro 2.0) and shutterless system (HSIS), ensuring users catch the finest details no matter the weather or light conditions without interruption. With a 2560×2560 1.03" OLED larger display, SQ50L 3.0 makes it easier to spot targets quickly and accurately. The built-in lens 1000 m LRF and ballistic calculation contribute to more accurate shooting. The scope is mainly used for field and forest hunting.

Key Feature

- 640×512 resolution @ $12 \mu\text{m}$ thermal detector
- High sensitivity thermal module $\text{NETD} < 15 \text{ mK}$ (@ 25°C , $F\# = 1.0$)
- 50 mm, F1.0 lens with detection range up to 2600 m
- 2560×2560 resolution 1.03-inch OLED display
- HIKMICRO Shutterless Image System (HSIS)
- Built-in lens laser rangefinder up to 1000 m, with ballistic calculation
- Rechargeable internal batteries and external battery, 9h continuous operation
- High shock resistance up to 1000 g/0.4 ms

Specification

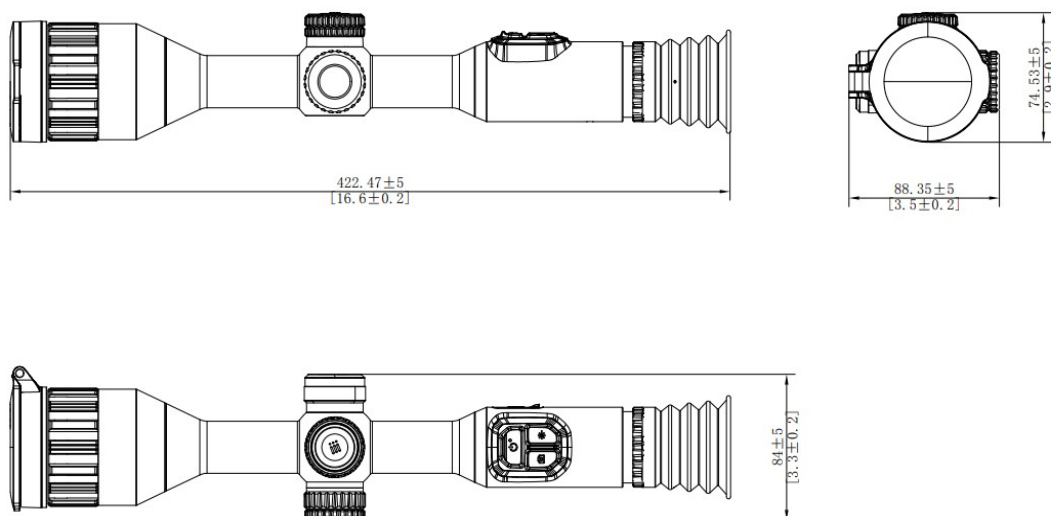
Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Max. Resolution	640 × 512
Frame Rate	50 Hz
Pixel Interval	12 μm
Response Waveband	8 μm to 14 μm
NETD	Less than 15 mK (@25°C, F# = 1.0)
Lens (Focal Length)	50 mm, F1.0
Focus Mode	Focus Ring
Detection Range	2600 m
Min. Focusing Distance	5 m
Magnification	3.6× to 26.6× Support 1× step value of continuous zooming
Field of View(H×V), Degrees / m @100 m	8.8° × 7.0°/15.4 m × 12.3 m
Image Display	
Display	2560 × 2560, 1.03-inch OLED
Palettes	Black Hot, White Hot, Red Hot, Fusion, Red Monochrome, Green Monochrome
Exit Pupil	6 mm
Eye Relief	45 mm
Diopter (Range)	-4D to 4D
Brightness Adjustment	Yes
Tone Adjustment	Cold, Warm
Contrast Adjustment	Yes
Zoom Pro	Yes
Image Pro 2.0	Yes
HSIS (HIKMICRO Shutterless Image System)	Yes
System	
Record Video	On-board Video Recording
Capture Snapshot	Yes
Audio Recording	Yes
Recoil-activation Recording	Yes
Standby Mode	Yes
Storage	Built-in EMMC (64 GB)
PIP	Yes
Hotspot	Yes
Hot Track	Yes
Distance Measurement	Yes
Zeroing Profiles	5

Freeze Zeroing	Yes
Max. Recoil	1000 g/0.4 ms
Ballistic Calculation	Yes
Local Album	Yes
Power Supply	
Battery Type	Two rechargeable Lithium batteries (internal), one replaceable and rechargeable 18650 battery (external)
Battery Operating Time	9 hours continuous running (@-25°C, Zoom Pro, LRF on)
Type-C Power Supply	DC 5 V/2 A, USB Type-C interface supports QC3.0 * Only the built-in battery will be charged via the type-C cable. Use the battery charger to charge the external battery.
General	
Protection Level	IP67
Mounting	Standard 30 mm
Dimension	422.5 mm × 88.4 mm × 74.5 mm
Working Temperature	-30°C to 55°C (-22°F to 131°F)
Weight	860 g without external battery
Center Height	36 mm
Laser Rangefinder	
LRF Module in Lens	Yes
Safety Class for Laser	Class 1
Wavelength	905 nm
Max. Measuring Range	1000 m
Measurement Accuracy	±1 m
Min. Measuring Range	10 m

• Available Model

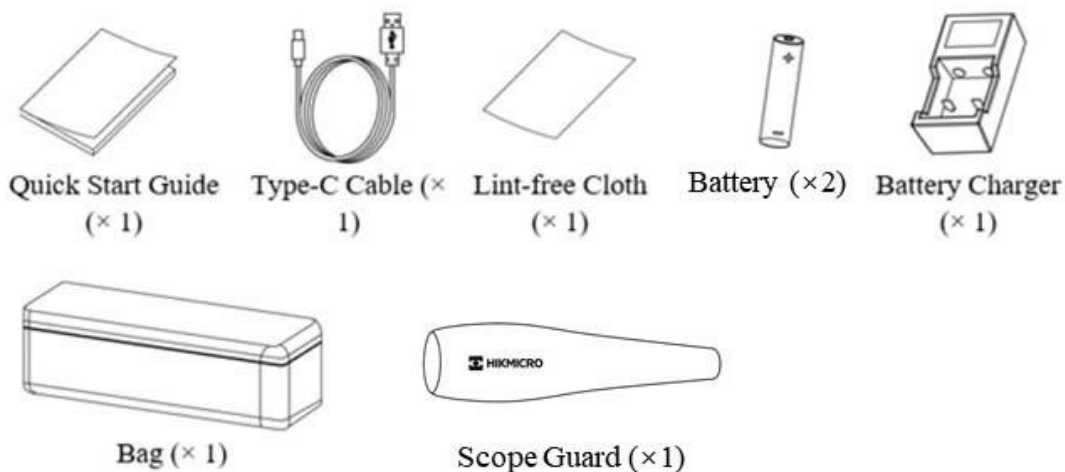
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▪ Dimension



Unit: mm[inch]

▪ Accessories



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