SH50L 3.0
Thermal Scope

HIKMICRO STELLAR SH50L 3.0 Thermal Scope is equipped with a 384 × 288 @12 μm thermal detector, with much higher sensitivity (NETD<15 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, SH50L 3.0 makes it easier to spot targets quickly and accurately. The built-in 1000 m LRF and ballistic calculation contribute to more accurate shooting. The scope is mainly used for field hunting.

Key Feature

- 384 × 288 resolution @12 μm thermal detector
- High sensitivity thermal module NETD<15 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 laser rangefinder up to 1000 m, with ballistic calculation
- Rechargeable internal batteries and external battery, 9h continuous operation
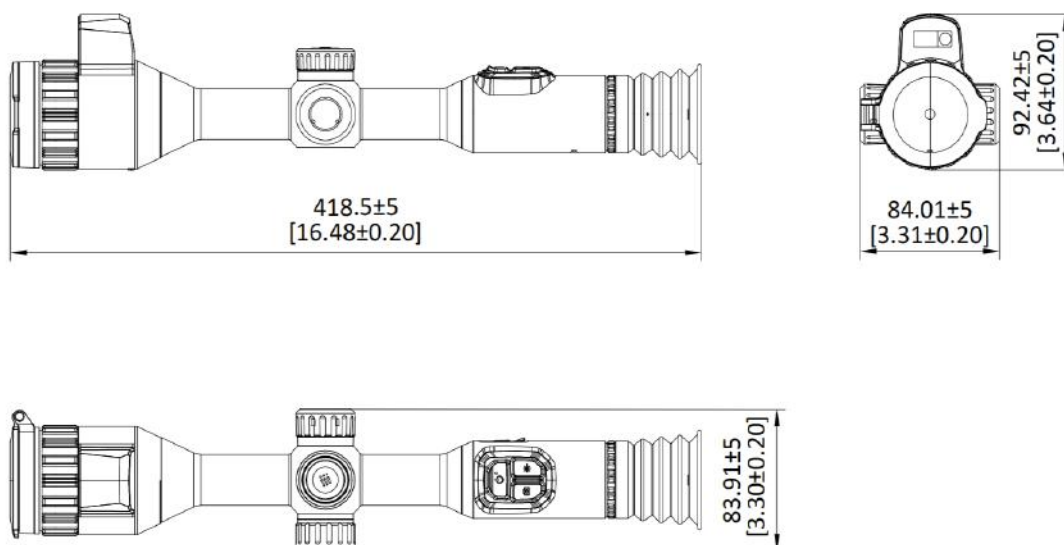- High shock resistance up to 1000 g/0.4 ms

Specification

Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Max. Resolution	384 × 288
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	6.0× to 24.0× Support 1× step value of continuous zooming
Field of View(H × V), Degrees / m @100m	5.3° × 4.0°/9.3 m x 7.0 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
Local Album	Yes
Ballistic Calculation	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	
Mounting	Standard 30 mm
Protection Level	IP67
Dimension	418.5 mm × 84 mm × 92.4 mm
Weight	870 g without external battery
Working Temperature	-30°C to 55°C (-22°F to 131°F)
Center Height	34 mm
Laser Rangefinder	
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

HM-TR83-50S2G/WL-SH50L 3.0

· Dimension

418.5±5
[16.48±0.20]

92.42±5
[3.64±0.20]

84.01±5
[3.31±0.20]

83.91±5
[3.30±0.20]

Unit: mm[inch]

· Accessories

Quick Start Guide
(× 1)

Type-C Cable (×
1)

Lint-free Cloth
(× 1)

Battery (×2)

Battery Charger
(× 1)

Bag (× 1)

Scope Guard (×1)
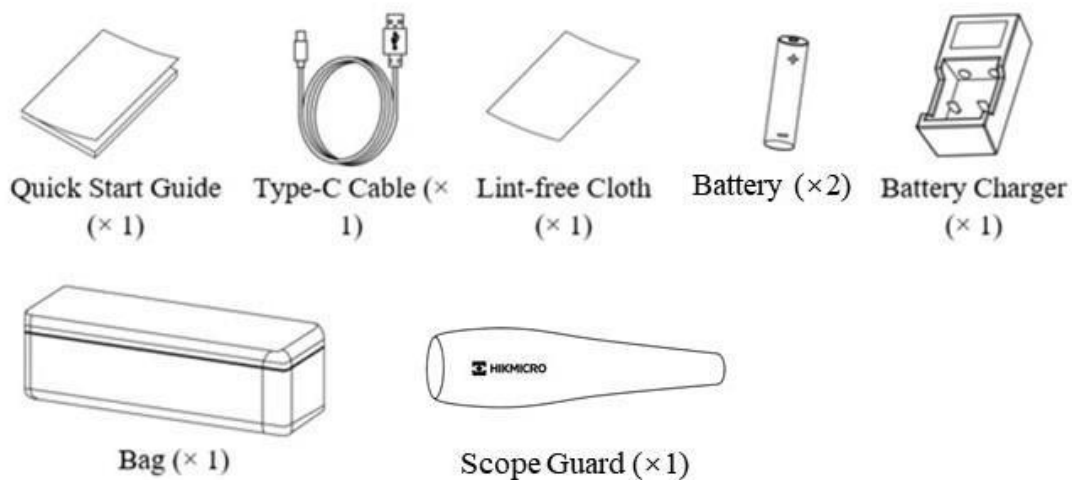
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BATTERY **1** YEAR

FULL PRODUCT **3** YEARS

DETECTOR **10** YEARS