

PRODUCT TECH SHEET



SCAN FOR VIDEO

MODEL	STELLAR SQ50L 3.0			 HIKMICRO				
STYLE	Thermal Scope with LRF (3.0 Series)							
RELEASE	Nov 2024	RRP	\$6,499					
								
					DIMENSIONS			
					LENGTH	423mm (16.7")		
					WIDTH	89mm (3.5")		
					HEIGHT	75mm (3.0")		
					WEIGHT	860g (excl batt)		
					PROTECTION			
IP67 (dust and water resistant to 1m for 30 minutes.)								
POWER								
2 x (Internal) Lithium Batteries 1 x (External) 18650 Li-ion Battery								

SUMMARY

The premium **HikMicro STELLAR SQ50L 3.0 Thermal Scope** represents the cutting-edge of thermal scope design, boasting a high-performance 640 × 512 @12µm thermal detector that delivers superior sensitivity (NETD <15mK) and enhanced image clarity with the advanced HikMicro *Shutterless Imaging System* (HSIS) – amazing under day or night conditions.

Additional features like nine hour battery life, fast and accurate zeroing (up to 1.3cm at 100m), a ballistics calculator and the *Image Pro 2.0 Algorithm* that generates rich images by cutting out terrain clutter – all make this a truly exceptional scope.

Equipped with a 50mm lens that provides a colossal 2600m detection range, it has a 15.4m @ 100m field of view which is supported by its lens-embedded 1000m LRF that cuts down on the weight and profile. The **STELLAR SQ50L 3.0 Thermal Scope** is perfect for field and forest hunting, and 12% lighter than the equivalent STELLAR 2.0 version.

KEY FEATURES

- 640 × 512 resolution @12µm thermal detector for amazing thermal detail.
- High sensitivity thermal module NETD <15 mK (@25°C, F# = 1.0), ensuring perfect image quality and detail recognition even in the toughest weather conditions.
- 50mm, F1.0 lens with detection range up to an incredible 2600m.
- 2560 × 2560 resolution 1.03-inch OLED visual scope display for excellent clarity.
- Lens-integrated laser rangefinder up to 1000m with ballistic calculation, enabling accurate distance measurement when stalking or observing under low-light conditions.
- Rechargeable internal Li-ion batteries and a single 18650 external Li-ion battery, providing up to nine (9) hours of continuous operation.
- High shock resistance, up to 1000g/0.4 ms.
- The perfect scope for field shooting where clarity and long-range accuracy are essential.

TECHNICAL DETAILS		[3 Year Warranty]
THERMAL SENSOR:		
Image Sensor	VOx Uncooled Focal Plane Arrays	
Maximum Resolution (Thermal)	640 x 512	
Frame Rate	50Hz	
Pixel Interval	12µm	
Response Waveband	8µm to 14µm	
NETD	Less than 15mK (@25°C), F# = 1.0	
Lens (Focal Length)	50mm, F1.0	
Focus Mode	Focus Ring	
Detection Range	2600m	
Minimum Focusing Distance	6m	
Magnification	3.6× to 26.6× (Supports 1x Step Value for Continuous Zooming)	
Field of View (HxV), Degrees/m @100m	8.8° × 7.0°/15.4m × 12.3m	
IMAGE DISPLAY:		
Display	2560 × 2560, 1.03-inch OLED	
FFC (Flat Field Correction) Mode	Auto, Manual, External Correction	
Palettes	Black Hot; White Hot; Red Hot; Fusion; Red Mono; Green Mono	
Exit Pupil	6mm	
Eye Relief	45mm	
Diopter (Range)	-4 D to +4 D	
Brightness Adjustment	Yes	
Tone Adjustment	Cold, Warm	
Contrast Adjustment	Yes	
Image Pro 2.0	Yes	
HSIS (HikMicro Shutterless Image System)	Yes	
Zoom Pro	Yes	
SYSTEM:		
Capture Snapshot	Yes	
Audio Recording	Yes	
Video Recording	On-board Video Recording	
Recoil-Activated Recording	Yes	
Storage	Built-in EMMC (64GB) stored in Local Album	
Picture in Picture (PiP)	Yes	
Hotspot	Yes	
Hot Track	Yes	
Distance Measurement	Yes (to 1000m with Laser Rangefinder)	
Zeroing Profiles	Five (5)	
Freeze Zeroing	Yes	
Maximum Recoil	1000g / 0.4ms	
Standby Mode	Yes	
Ballistic Calculation	Yes	
LASER RANGEFINDER:		
Safety Class	Safety Class I	
Wavelength	905nm	
Measuring Range	1000m, (Minimum 10m)	
Accuracy	±1 m	
POWER SUPPLY:		
Battery Type	Two fixed, rechargeable Lithium batteries (internal), One replaceable and rechargeable 18650 battery (external)	
Battery Operating Time	Nine hours continuous running (@25°C)	
Type-C Power Supply	DC 5V/2A, USB Type-C interface, Supports QC3.0 <i>* Only the built-in batteries will be charged via the type-C cable. Use the battery charger to charge the external battery</i>	
GENERAL:		
Mounting	Standard 30mm	
Protection Level	IP67 (dustproof, waterproof to 1m for 30 minutes)	
Dimensions	422.5 mm × 88.4 mm × 74.5 mm	
Weight	860 g without external battery; 1005g with battery installed	
Working Temperature	-30°C to +55°C	
Protection Level	IP67	
Centre Height (for Scope Mounting)	36mm	