

PRODUCT TECH SHEET



SCAN FOR VIDEO

MODEL	STELLAR SH50L 3.0			 HIKMICRO				
STYLE	Thermal Scope with LRF (3.0 Series)							
RELEASE	Nov 2024	RRP	\$4,799					
								
					DIMENSIONS			
					LENGTH	419mm (16.5")		
					WIDTH	84mm (3.3")		
					HEIGHT	93mm (3.7")		
					WEIGHT	880g (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 SH50L 3.0 Thermal Scope** is equipped with a highly sensitive 384 x 288 @12µm thermal detector, boasting NETD <15mK, ensuring exceptional clarity even in the most challenging environments. Coupled with a 50mm lens for longer (2600m) but tighter focus, offering a 9.3m x 7.0m field of view at 100m which is complimented by its 1000m LRF.

Powered by the innovative *Image Pro 2.0* processing algorithm and HikMicro's *Shutterless Image System* (HSIS), this thermal scope allows you to detect even the finest details without interruptions, and is assisted by additional electronic features like fast and accurate zeroing (as tight as 1.3cm per 100m), a ballistic calculator and multiple zero profiles.

With a colossal nine hour battery life, the **SH50L** delivers exceptional advantages to hunters on extended field adventures, and is especially perfect for long-range field hunting.

KEY FEATURES

- 384 × 288 resolution @12µm thermal detector for amazing thermal detail.
- High sensitivity thermal module with a NETD of <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 amazing clarity.
- 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)	384 x 288	
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	5m	
Magnification	6.0× to 24.0× (Supports 1x Step Value for Continuous Zooming)	
Field of View (HxV), Degrees/m @100m	5.3° × 4.0°/9.3m × 7.0m	
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)	-5 D to +3 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	418.5 mm × 84 mm × 92.4 mm	
Weight	880 g without external battery; 1025g with battery installed	
Working Temperature	-30°C to +55°C	
Protection Level	IP67	
Centre Height (for Scope Mounting)	36mm	