

Product Datasheet - Technical Specifications



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LH15 3.0

Thermal Monocular



The LH15 3.0 is the perfect choice for your first 20mK thermal monocular. Equipped with a high-performance thermal detector and delivering a 320x240 image resolution, it features a 15mm F1.0 free-focus lens, offering 2.2x base magnification, an 11.7° field of view, and an impressive detection range of up to 750m. With its compact design and exceptional image quality, the LH15 3.0 is ideal for forest environments and mid-range applications.

● Key Feature

- High-sensitivity thermal module with NETD < 18 mK (@25°C, F# = 1.0).
- 15 mm, F1.0 lens with thermal detection range up to 750 m
- AI-powered Image Pro 3.0 and Zoom Pro algorithms
- HIKMICRO Shutterless Imaging System (HSIS)
- 0.39-inch OLED display with 1024 × 768 resolution
- Replaceable and rechargeable 18650 battery provides up to 5 hours of continuous operation at -20°C
- Lightweight design at 296.5 g, with a pocket-sized build

• Specification

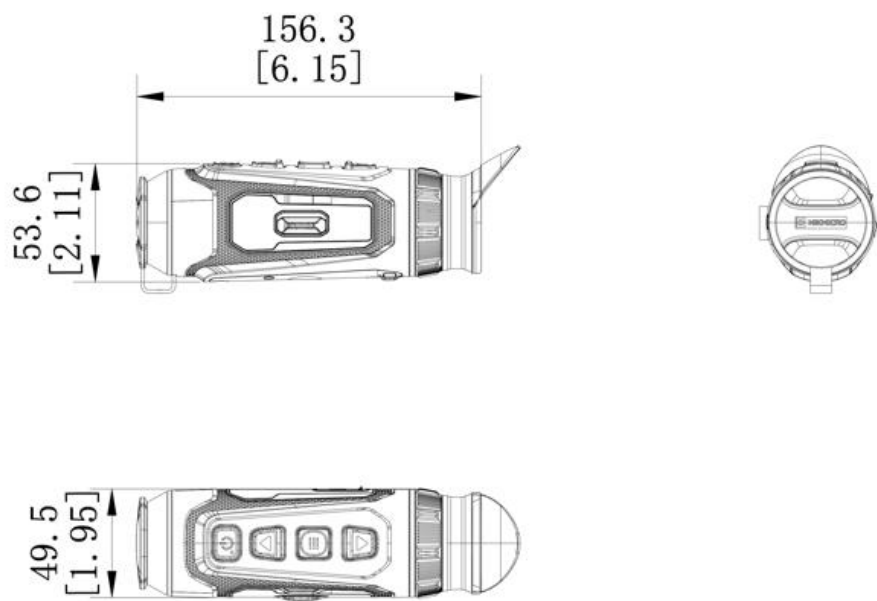
Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Max. Resolution	320×240
Frame Rate	50 Hz
Pixel Interval	12 μm
Response Waveband	8 μm to 14 μm
NETD	Less than 18 mK (@25°C),F#=1.0
Lens (Focal Length)	15 mm, f1.0
Focus Mode	Focus Free
Detection Range	750 m
Min. Focusing Distance	7.0 m
Magnification	2.2× - 17.6× (8×)
Field of View(H × V), Degrees / m @100m	11.7°×8.8°/20.5 m×15.4 m
Image Display	
Display	1024×768, 0.39 inch, AMOLED
Palettes	Black Hot, White Hot, Red Hot, Fusion, Red Monochrome, Green Monochrome
Exit Pupil	6mm
Eye Relief	20mm
Diopter (Range)	-5D to +3D
Brightness Adjustment	Yes
Tone Adjustment	Cold, Warm
Contrast Adjustment	Yes
Zoom Pro	Yes
HSIS (HIKMICRO Shutterless Image System)	Yes
Image Pro 3.0	Yes
Sync Pro	Yes
System	
Record Video	Yes
Capture Snapshot	Yes
Audio Recording	Yes
Standby Mode	Yes
Built-in Memory	Built-in EMMC (64 GB)
PIP	Yes
Hotspot	2.4 GHz/5 GHz Wi-Fi Waveband
Hot Track	Yes
Distance Measurement	Yes
Local Album	Yes

Power Supply	
Battery Type	Replaceable and Rechargeable Li-ion 18650 Battery
Battery Operating Time	5.5-hour continuous running with hotspot on (@25°C)
	5-hour continuous running with hotspot on (@-20°C)
Type-C Power Supply	5V DC, 2A Supports External Power Supply, Support Direct Charging
General	
Protection Level	IP67
Dimension	156.3 mm×53.6 mm×49.5 mm (6.15"×2.11"×1.94")
Weight	296.5 g with battery
Working Temperature	From -30°C to 45°C (-22°F to 113°F);
	Humidity: 90% or Less

▪ Available Model

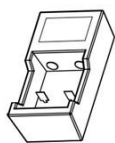
HM-TSF2-15Y1G/W1-LH15 3.0

▪ Dimension



Unit:mm [Inch]

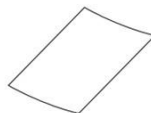
▪ Accessories



Battery Charger (×1)



Battery (×2)



Lint-Free Cloth (×1)



Type-C Cable (×1)



Quick Start Guide(×1)

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