



# HX60L

## Multi-Spectrum Binocular

HIKMICRO HABROK Pro HX60L multi-spectrum binocular is equipped with an 18 mK NETD, 1280 × 1024 thermal detector @60 mm thermal lens and an advanced 4K digital detector with 60 mm lens, ensuring perfect image quality and detail recognition in various weather and light conditions. Combined with a 1000 m Laser rangefinder and replaceable IR emitter @850 nm wavelength, this all-in-one binocular can be applied mainly in forest & field hunting, birding, animal searching, rescuing and marine scenario.

### Key Feature

- 1280 × 1024 resolution @12  $\mu$ m thermal detector
- High sensitivity thermal module NETD < 18 mK (@25°C, F#=1.0)
- 60 mm, F1.0 lens with thermal detection range up to 3100 m
- 3840 × 2160 4K ultra high-resolution, 60 mm, F2.2 digital camera
- 1920 × 1080 resolution 0.49-inch OLED display
- Replaceable 850 nm IR emitter and 1000 m Laser Rangefinder
- 9.5 h+ continuous operation time with replaceable battery pack
- 1050 g lightweight, with a compact and ergonomic design

## •Specification

Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Max. Resolution	1280 × 1024
Frame Rate	25 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)	60 mm, F1.0
Focus Mode	Focus Ring
Detection Range	3100 m
Min. Focusing Distance	3 m
Magnification	2.6 × to 20.0 × (7.7 ×)
Field of View(H × V), Degrees / m @100 m	14.6° × 8.8°/25.6 m × 15.4 m
Optical Module	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Focal Length	60 mm, F2.2
Min. Working Distance	3 m
Focus Mode	Focus Ring
Magnification	5.5 × to 22.0 × (4 ×)
Field of View (H × V), Degrees/ m @100 m	7.3° × 4.1°/12.6 m × 7.2 m
Smart IR	Yes
IR Illuminator Wavelength	850 nm
Viewing Range at Night	400 m
Replaceable IR Illuminator	Yes
Image Display	
Display	0.49 inch, OLED, 1920 × 1080
Palettes	Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto
FFC (Flat Field Correction) Mode	Auto, Manual, External Correction
Exit Pupil	8 mm
Eye Relief	15 mm
Diopter (Range)	-5 D to +3 D
Brightness Adjustment	Yes
Tone Adjustment	Cold, warm
Contrast Adjustment	Yes
Zoom Pro	No

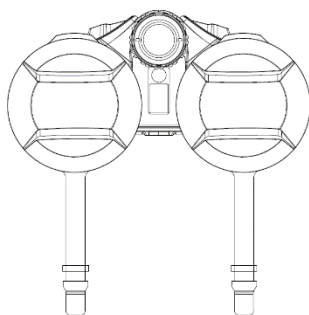
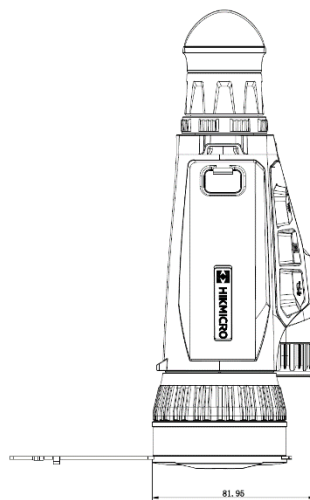
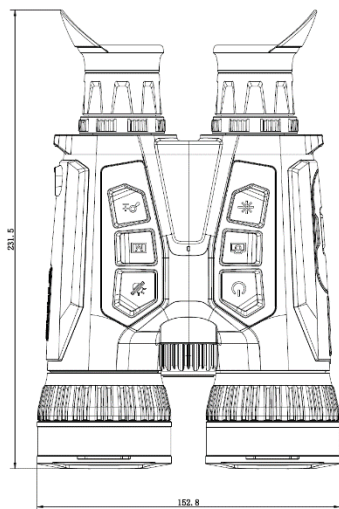
Image Pro 2.0	Yes
<b>System</b>	
Record Video	Yes
Capture Snapshot	Yes
Audio Recording	Yes
Standby Mode	Yes
Storage	Built-in EMMC (64 GB)
PIP	Yes
Hotspot	Yes
Hot Track	Yes
Digital Magnetic Compass	Yes
GPS	Yes
Local Album	Yes
<b>Power Supply</b>	
Battery Type	Replaceable and Rechargeable Li-ion Battery Pack
Battery Operating Time	9.5 h (25°C, with hotspot off, LRF on)
Type-C Power Supply	5 V/9 V DC, 3 A Support External Power Supply, Support Direct Charging
<b>General</b>	
Protection Level	IP67
Dimension	152.8 mm × 81.95 mm × 231.5 mm (6.0" × 3.2" × 9.1")
Weight	1050 g with battery pack
Working Temperature	-30°C to +55°C
Interpupillary Adjustment Range	60 mm to 74 mm
Mounting Adapter	1/4"-20-UNC
<b>Laser Rangefinder</b>	
Safety Class for Laser	Class 1
Wavelength	905 nm
Max. Measuring Range	1000 m
Measurement Accuracy	±1 m
Min. Measuring Range	10 m

Note: The detection range of HX60L (Limited Version) is up to 2900 m.

## • Available Model

HX60L

## •Dimension

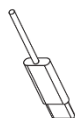


Unit: mm

## Accessories



Neck Strap (× 1)



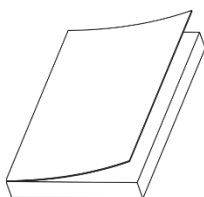
Type-C Cable (× 1)



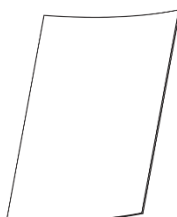
Tripod Adapter (× 1)



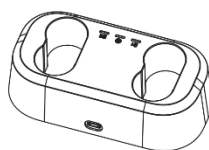
Battery (× 2)



QSG (× 1)



Lint-Free Cloth (× 1)



Battery Charger (× 1)



Binocular Harness (× 1)

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