

HH35L 2.0

Multi-Spectrum Binocular



The HIKMICRO HABROK 4K 2.0 HH35L 2.0 is a multi-mode binocular combining thermal and digital imaging capabilities. It features a 384×288 thermal detector (NETD < 15 mK) with a 35 mm F1.0 lens for detection up to 1800 m, alongside a 4K CMOS sensor and 60mm F2.2 digital lens offering 4x to 20x zoom. Integrated with a shutterless imaging system and a 1000 m laser rangefinder, it delivers high-performance observation for hunting, wildlife monitoring, exploration, and search-and-rescue operations in varied conditions.

Key Feature

- 384×288 resolution @12 μm thermal detector
- High sensitivity thermal module NETD < 15 mK (@25°C, F# = 1.0)
- 35 mm, F1.0 lens with thermal detection range up to 1800 m
- 3840×2160 4K Ultra high-resolution CMOS detector
- 60 mm, F2.2 digital lens with 4.0x to 20.0x digital zoom
- HIKMICRO Shutterless Image System (HSIS)
- 940 nm & 850 nm replaceable IR illuminators and Laser Rangefinder of 1000 m distance
- 900 g lightweight, with a compact and ergonomic design

• Specification

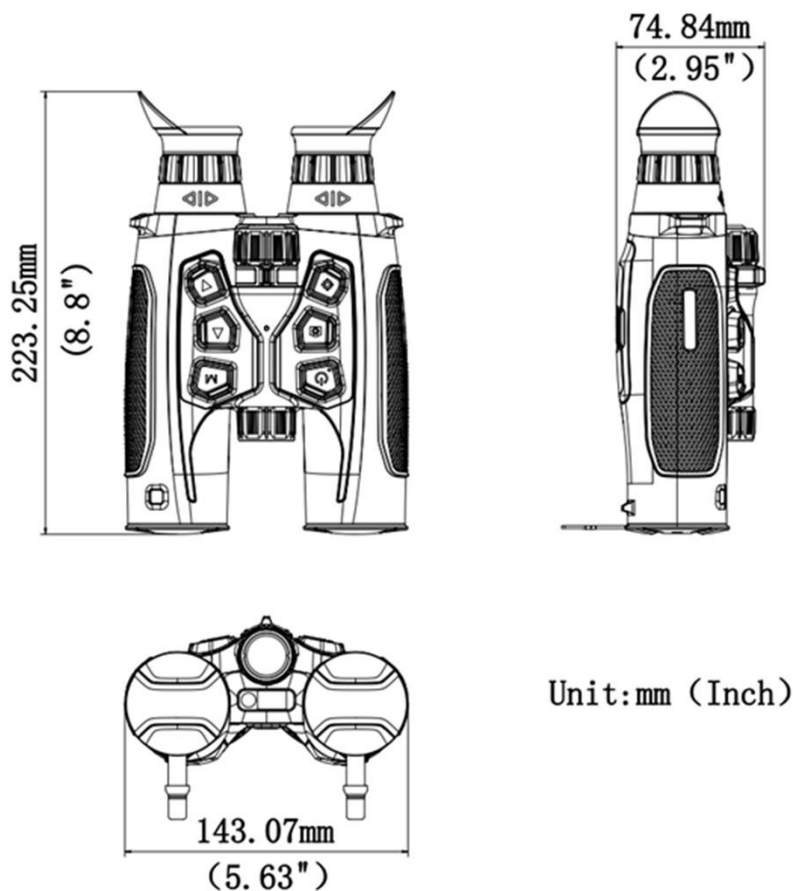
Thermal Module	
Image Sensor	VOx Uncooled Focal Plane Arrays
Max. Resolution	384 × 288
Frame Rate	50 Hz
Pixel Interval	12 μm
Response Waveband	8 μm to 14 μm
NETD	Less than 15 mK (@25°C), F#=1.0
Lens (Focal Length)	35 mm, F1.0
Focus Mode	Rear Focus Wheel
Detection Range	1800 m
Min. Focusing Distance	5 m
Magnification	4.0x to 20.0x (5x) Support 2×, 3x, 4x, 5x Zooming Value, Support Zoom in and out
Field of View(H × V), Degrees/m @100m	7.53°× 5.65°/13.16 × 9.87@100 m
Optical Module	
Image Sensor	1/1.8 Progressive Scan CMOS
Max. Resolution	3840 × 2160
Focal Length	60 mm, F2.2
Min. Working Distance	8 m
Focus Mode	Rear Focus Wheel
Magnification	5.5x to 22.0x (4x) Support 2×, 3x, 4x, 5x Zooming Value, Support Zoom in and out
Field of View (H × V), Degrees/m @100 m	7.3° × 4.1°/12.8 m × 7.2 m
Smart IR	Yes
IR Illuminator Wavelength	940 nm (default) and 850 nm (replaceable)
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, Red Monochrome, Green Monochrome, Fusion; Optical: Day, Night, Auto, Green, Yellow
Exit Pupil	8 mm
Eye Relief	15 mm
Diopter (Range)	-5D to +3D
Brightness Adjustment	Yes
Tone Adjustment	Cold, Warm
Contrast Adjustment	Yes

Electric Image Stabilization	Supports Both Thermal and Digital Channels, Starting from 2x
Zoom Pro	Yes
HSIS (HIKMICRO Shutterless Image System)	Yes
System	
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
Local Album	Yes
Power Supply	
Battery Type	Replaceable and Rechargeable Li-ion Battery
Battery Operating Time	≥6.5 h (25°C, with hotspot and LRF on)
Type-C Power Supply	5 V DC, 2 A Supports External Power Supply, Support Direct Charging
General	
Protection Level	IP67
Dimension	143.1mm × 74.8 mm × 223.3 mm (5.63" × 2.95" × 8.8")
Weight	900 g without Batteries
Working Temperature	-30°C to +55°C
Interpupillary Adjustment Range	60 mm to 74 mm
Mounting Adapter	1/4"-20-UNC
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

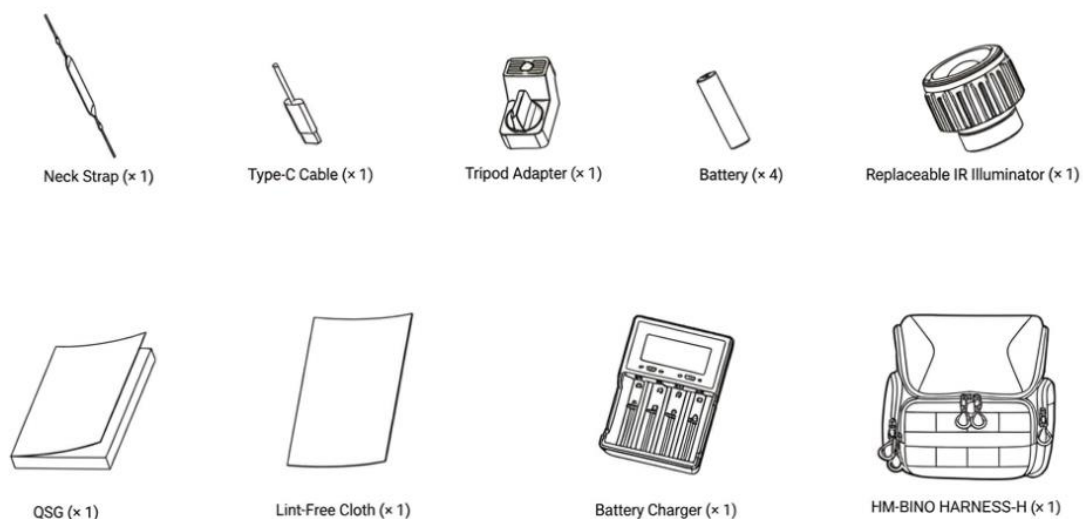
• Available Model

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▪ Dimension



▪ Accessories



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