

PRODUCT TECH SHEET



SCAN FOR VIDEO

MODEL	HABROK 4K - HE25LN			 HIKMICRO	
STYLE	Digital Thermal Multi Spectrum Binoculars				
RELEASE	May 2024	RRP	\$2,499		
					
 reddot winner 2024					
					
DIMENSIONS					
LENGTH	223mm (8.6")				
WIDTH	138mm (5.4")				
HEIGHT	62mm (2.7")				
WEIGHT	795g (excl batt)				
PROTECTION					
IP67 (water resistant to 1m for 30 mins)					
POWER					
2 x 18650 Li-ion Batteries					

SUMMARY

A global phenomenon on release due to their amazing mix of quality and features, the **HikMicro HABROK 4K Binocular Range** delivers powerful and innovative digital and thermal binoculars designed especially for daytime and twilight use.

The **HE25L** binoculars feature two separate optical modules - a *thermal module* consisting of a 25mm, F1.0 lens coupled with a 256 x 192 resolution 12µm sensor operating at a NETD less than 35mK; and an *optical module* that consists of 60mm, F2.2 lens coupled with a 4K UHD, 3840 x 2160 resolution CMOS sensor with 4x digital zoom that delivers unparalleled clarity and detail.

With a 1000m Laser Rangefinder, IR emitter (*invisible, 940nm on this model*), IP67 protection, feature-rich videoing options, 64GB of built-in EMMC memory and a host of other features too long to detail here, this all-in-one device is perfect for any hunting, security or nature studying adventure, no matter whether in forest or field...

KEY FEATURES

- 256 × 192 resolution @12µm thermal detector for crisp thermal detail.
- High sensitivity thermal module NETD <35 mK (@25°C, F# = 1.0), ensuring perfect image quality and detail recognition even in the toughest weather conditions, day or night.
- 25mm, F1.0 **thermal lens** with a thermal detection range up to an amazing 1200m.
- 60 mm, F2.2 **digital optical lens** with 5.5x to 22x digital zoom
- 3840 × 2160 4K Ultra-HD resolution CMOS optical detector for crystal clear optical imagery.
- 1920 × 1080 resolution, 0.49-inch OLED visual heads-up display for excellent clarity.
- Built-in 940 nm IR illuminator (to 350m, with invisible red light) and a 905nm Laser Rangefinder with a 1000m measuring distance, enabling accurate distance measurement when stalking or observing under low-light conditions.
- Approximately 4 hours of continuous operation using twin 18650 Li-ion batteries.
- 795g lightweight, compact and ergonomic design (885g with batteries installed).
- Perfect for forest & field hunting, bird watching, security, rescuing and marine scenarios.

TECHNICAL DETAILS

[3 Year Warranty]

THERMAL MODULE:

Image Sensor
Maximum Resolution (Thermal)
Frame Rate
Pixel Interval
Response Waveband
NETD
Lens (Focal Length)
Focus Mode
Detection Range
Minimum Focusing Distance
Magnification
Field of View (HxV), Degrees/m @100m

VOx Uncooled Focal Plane Arrays CMOS
256 x 192
50Hz
12 µm
8µm to 14µm
Less than 35 mK (@25°C), F# = 1.0
25mm, F1.0
Focus Ring
1200m
3.0m
4.3x to 17.2x (4x)
7.0° x 5.3° / 12.2m x 9.3m

OPTICAL MODULE:

Image Sensor
Maximum Resolution (Optical)
Focal Length
Minimum Working Distance
Focus Mode
Magnification
Field of View (HxV), Degrees/m @100m
Smart IR
IR Illuminator Wavelength
Viewing Range at Night

1/1.8" Progressive Scan
3840 x 2160 (4K/UltraHD)
60 mm, F2.2
8m
Focus Ring
5.5x to 22.0x (4x)
6.9° x 4.1°/12.0 m x 7.2 m
Yes
940nm (invisible IR)
400m

IMAGE DISPLAY:

Display
Palettes (Optical)
Palettes (Thermal)
FFC (Flat Field Correction) Mode
Exit Pupil
Eye Relief
Dioptre (Range)
Brightness Adjustment
Tone Adjustment
Contrast Adjustment
Zoom Pro

0.49 inch, OLED, 1920 x 1080
Day, Night, Auto
Black Hot, White Hot, Red Hot, Fusion
Auto, Manual, External Correction
8mm
15mm
-5 D to +3 D
Yes
Cold, Warm
Yes
Yes (Improves definition)

SYSTEM:

Capture Snapshot
Audio Recording
Video Recording
Standby Mode
Storage
PiP
Hotspot
Hot Track
Digital Magnetic Compass
GPS
Local Album

Yes
Yes
Yes
Yes (includes SMART Auto Screen Off on tilt)
Built-in EMMC (64GB)
Yes
Yes
Yes
Yes
Yes
Yes
Yes

POWER SUPPLY:

Battery Operating Time
Battery Type
Type-C Power Supply

Approximately 4 hours for two batteries (at 25°C, with hotspot off)
2 x Replaceable, Rechargeable 18650 Li-ion Batteries
5V 9A DC, 3A Supports External (USB) Power Supply

GENERAL:

Protection Level
Dimensions
Weight
Working Temperature
Interpupillary Adjustment Range
Mounting Adaptor

IP67 (30 minutes under 1m of water)
223mm x 138mm x 68mm (8.6" x 5.4" x 2.7")
795g (without batteries); 890g with batteries installed
-30°C to +55°C
60mm to 74mm
1/4" Internal Thread -20-UNC

LASER RANGEFINDER:

Safety Class for Laser
Wavelength
Maximum Measuring Range
Measurement Accuracy
Minimum Measuring Range

Class 1
905nm
1000m
±1 m
10m



SECTION FOR HOLE PUNCHES