

## Product Datasheet - Technical Specifications



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# HE25L 2.0

## Multi-Spectrum Binocular



HIKMICRO HABROK 4K 2.0 HE25L 2.0 is a powerful and innovative digital and thermal binocular designed especially for daytime use. Combined with a 256 thermal detector, an advanced 4K digital detector for a 5.5x to 22x @60 mm lens, and a 1000m laser rangefinder, this all-in-one binocular can be mainly applied in forest & field hunting, birding, animal searching, adventuring, and rescuing in various weather conditions.

### Key Feature

- 256 × 192 resolution @12  $\mu\text{m}$  thermal detector
- High sensitivity thermal module NETD < 18 mK (@25°C, F# = 1.0)
- 25 mm, F1.0 lens with thermal detection range up to 1200 m
- 3840 × 2160 4K ultra high-resolution CMOS detector
- 60 mm, F2.2 digital lens with 5.5x to 22x digital zoom
- HIKMICRO Shutterless Image System (HSIS)
- 940 nm & 850 nm replaceable IR illuminators and Laser Rangefinder of 1000 m distance
- 895g lightweight, with a compact and ergonomic design

## • Specification

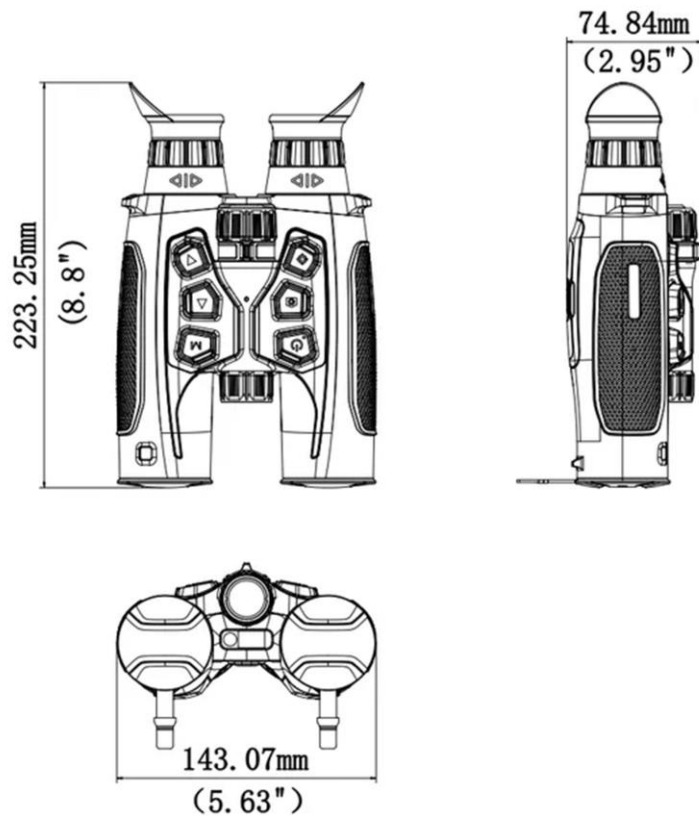
| Thermal Module                          |                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                            | VOx Uncooled Focal Plane Arrays                                                                                            |
| Max. Resolution                         | 256 × 192                                                                                                                  |
| 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)                     | 25 mm, F1.0                                                                                                                |
| Focus Mode                              | Rear Focus Wheel                                                                                                           |
| Detection Range                         | 1200 m                                                                                                                     |
| Min. Focusing Distance                  | 3 m                                                                                                                        |
| Magnification                           | 4.3x~17.2x (4x)<br>Support 2x, 3x, 4x, 5x Zooming Value, Support Zoom in and out                                           |
| Field of View(H × V), Degrees / m @100m | 7.0° × 5.3°/12.2 m × 9.3 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~22.0x (4x)<br>Support 2x, 3x, 4x, 5x Zooming Value, Support Zoom in and out                                           |
| Field of View (H × V), Degrees/m @100 m | 7.3° x 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, Fusion, Red Monochrome, Green Monochrome; Optical: Day, Night, Auto, Green, Yellow |
| Exit Pupil                              | 8 mm                                                                                                                       |
| Eye Relief                              | 15 mm                                                                                                                      |
| Diopter (Range)                         | -5D~+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                                                                    |
| <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                            |
| Battery Operating Time                   | ≥6.5 h (25 °C, with hotspot and LRF on)                                |
| Type-C Power Supply                      | 5V DC, 2 A<br>Supports External Power Supply, Supports Direct Charging |
| <b>General</b>                           |                                                                        |
| Protection Level                         | IP67                                                                   |
| Dimension                                | 143.1mm × 74.8 mm × 223.3 mm (5.63" × 2.95" × 8.8")                    |
| Working Temperature                      | -30°C~+55°C                                                            |
| Weight                                   | 895g without Batteries                                                 |
| 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                                                                   |

## ▪ Available Model

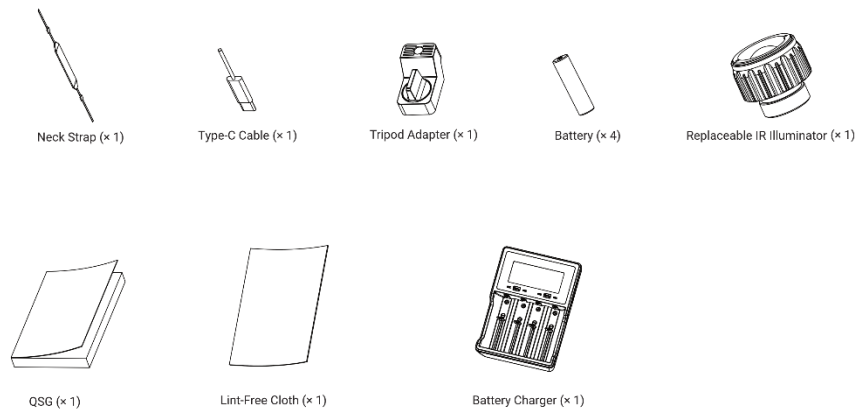
HE25L 2.0

## ▪ Dimension



Unit: mm (Inch)

## ▪ Accessories



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