

## Product Datasheet - Technical Specifications



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# HQ35L 5.5-22x60

## Multi-Spectrum Binocular



HIKMICRO HABROK 4K HQ35L 5.5-22x60 multi-spectrum binocular is equipped with a 20 mK NETD, 640 × 512 thermal detector @35 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 two replaceable IR emitters, this all-in-one binocular can be applied mainly in forest & field hunting, birding, animal searching, rescuing and marine scenario.

### Key Feature

- 640 × 512 resolution @12 μm thermal detector
- High sensitivity thermal module NETD < 20 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
- 1920 × 1080 resolution 0.49-inch OLED display
- Two 850 nm & 940 nm replaceable IR illuminators and Laser Rangefinder of 1000 m distance
- 8 h+ continuous operation time with replaceable battery
- 798 g lightweight, with a compact and ergonomic design

## •Specification

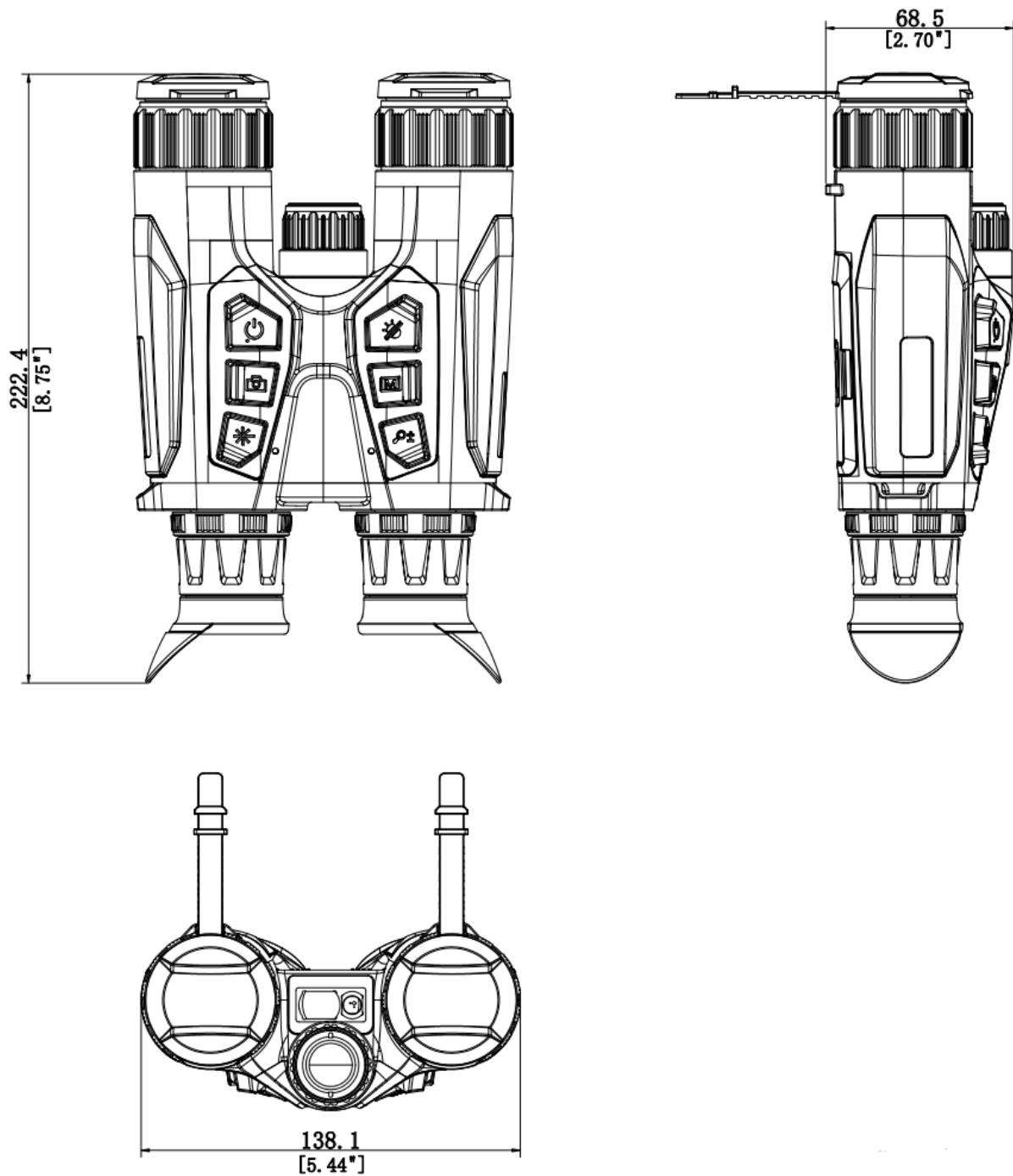
| Thermal Module                            |                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------|
| Image Sensor                              | VOx Uncooled Focal Plane Arrays                                           |
| Max. Resolution                           | 640 × 512                                                                 |
| Frame Rate                                | 50 Hz                                                                     |
| Pixel Interval                            | 12 μm                                                                     |
| Response Waveband                         | 8 μm to 14 μm                                                             |
| NETD                                      | Less than 20 mK (@25°C), F#=1.0                                           |
| Lens (Focal Length)                       | 35 mm, F1.0                                                               |
| Focus Mode                                | Focus Ring                                                                |
| Detection Range                           | 1800 m                                                                    |
| Min. Focusing Distance                    | 3.5 m                                                                     |
| Magnification                             | 3.0 × to 22.0 × (7.3 ×)                                                   |
| Field of View(H × V), Degrees / m @100 m  | 12.5° × 10.1° / 22.0 m × 17.6 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                 | 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; 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                                  | 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                                                                   |
| GPS                             | Yes                                                                   |
| Local Album                     | Yes                                                                   |
| Power Supply                    |                                                                       |
| Battery Type                    | Replaceable and Rechargeable Li-ion 18650 Battery                     |
| Battery Operating Time          | ≥8 h (25°C, with hotspot off)                                         |
| Type-C Power Supply             | 5 V DC, 2 A<br>Support External Power Supply, Support Direct Charging |
| General                         |                                                                       |
| Protection Level                | IP67                                                                  |
| Dimension                       | 138.1 mm × 68.5 mm × 222.4 mm (5.44" × 2.7" × 8.75")                  |
| Working Temperature             | -30°C ~ +55°C                                                         |
| Weight                          | 798 g without battery                                                 |
| 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

HQ35L 5.5-22x60

## •Dimension



Unit: mm [Inch]

## Accessories



Neck Strap (× 1)



Type-C Cable (× 1)



Tripod Adapter (× 1)



Battery (× 4)



Replaceable IR Illuminator (850 nm) (× 1)



QSG (× 1)



Lint-Free Cloth (× 1)



Battery Charger (× 1)



Binocular Harness (× 1)

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