

HQ50LN Multi-Spectrum Binocular



HIKMICRO HABROK Pro HQ50LN multi-spectrum binocular is equipped with a 15 mK NETD, 640 × 512 thermal detector @50 mm thermal lens and an advanced 4K digital detector with 60mm 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 @940 nm wavelength, 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 < 15 mK (@25°C, F# = 1.0)
- 50 mm, F1.0 lens with thermal detection range up to 2600 m
- 3840 × 2160 4K ultra high-resolution CMOS detector
- 1920 × 1080 resolution 0.49-inch OLED display
- Built-in 940 nm IR illuminator and Laser Rangefinder of 1000 m measuring distance
- 10.5 h+ continuous operation time with replaceable battery pack
- 975 g lightweight, with a compact and ergonomic design

Specification

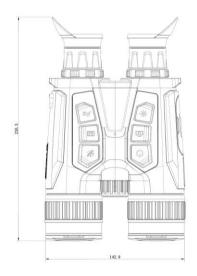
Image Sensor VOx Uncooled Focal Plane Arrays Max. Resolution 640 × 512 Frame Rate 50 Hz Pixel Interval 12 μm Response Waveband 8 μm to 14 μm NETD Less than 15 mK (@25°C), F# = 1.0 Lens (Focal Length) 50 mm, F1.0 Focus Mode Focus Ring Detection Range 2600 m Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.5×) Field of View(H × V), Degrees/m @100 m 8.8° × 5.3°/15.4 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 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 Viewing Range at Night 350 m Replaceable IR Illuminator Yes Palet	Thermal Module	
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) 50 mm, F1.0 Focus Mode Focus Ring Detection Range 2600 m Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.6×) Field of View(H × V), 8.8* × 5.3*/15.4 m × 9.3 m Degrees/m @100 m 5 m Optical Modue 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), 7.3* × 4.1*/12.6 m × 7.2 m Degrees/m @100 m 7.3* × 4.1*/12.6 m × 7.2 m Smart IR Yes IR Illuminator Wavelength 940 nm Viewing Range at Night 350 m Replaceable IR Illuminator Yes FCF (Flat Field Correction) Auto, Manual, External Correction	Image Sensor	VOx Uncooled Focal Plane Arrays
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Response Waveband 3 μm to 14 μm NETD Less than 15 mK (@25°C), F# = 1.0 Lens (Focal Length) 50 mm, F1.0 Focus Mode Focus Ring Detection Range 2600 m Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.6×) Field of View(H × V), Degrees/m @100 m 8.8* × 5.3*/15.4 m × 9.3 m Optical Module Image Sensor 1/1.8" Progressive Scan CMOS Max. Resolution 3840 × 2160 Focal Length 50 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*x 4.1*/12.6 m × 7.2 m Smart IR Yes IR Illuminator Wavelength 940 nm Viewing Range at Night 850 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FCC (Flat Field Correction) Auto, Manual, External Correction	Frame Rate	50 Hz
NETD Less than 15 mK (@25°C), F# = 1.0 Lens (Focal Length) 50 mm, F1.0 Focus Mode Focus Ring Detection Range 2600 m Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.6×) Field of View(H × V), Degrees/m @100 m 8.8° × 5.3°/15.4 m × 9.3 m Optical Module Journal 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 8 II Illuminator Wavelength 940 nm Viewing Range at Night 350 m Replaceable IR Illuminator yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 25 D to +3 D <td>Pixel Interval</td> <td>12 μm</td>	Pixel Interval	12 μm
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Focus Mode Focus Ring Detection Range 2600 m Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.6×) Field of View(H × V), 8.8° × 5.3°/15.4 m × 9.3 m Degrees/m @100 m 8.8° × 5.3°/15.4 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 3 m Focus Mode Focus Ring Magnification 5.5× to 22.0× (4×) Field of View (H × V), 7.3° × 4.1°/12.6 m × 7.2 m Degrees/m @100 m 7.3° × 4.1°/12.6 m × 7.2 m Smart IR Yes IR Illuminator Wavelength 940 nm Viewing Range at Night 350 m Replaceable IR Illuminator Yes Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 8 mm Exit Pupil <t< td=""><td>NETD</td><td>Less than 15 mK (@25°C), F# = 1.0</td></t<>	NETD	Less than 15 mK (@25°C), F# = 1.0
Detection Range 2600 m Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.6×) Field of View(H × V), Degrees/m @ 100 m 8.8° × 5.3°/15.4 m × 9.3 m Degrees/m @ 100 m 7.11.8" Progressive Scan CMOS Max. Resolution 3840 × 2160 Focal Length 60 mm, F2.2 Min. Working Distance 5 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 Viewing Range at Night 950 m Replaceable IR Illuminator Yes Image 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 Mode Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tom Por Yes	Lens (Focal Length)	50 mm, F1.0
Min. Focusing Distance 5 m Magnification 4.3× to 20.0× (4.6×) Field of View(H × V), Degrees/m @100 m 8.8° × 5.3°/15.4 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 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 Viewing Range at Night 950 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 2xit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Yes <th< td=""><td>Focus Mode</td><td>Focus Ring</td></th<>	Focus Mode	Focus Ring
Magnification 4.3 × to 20.0 × (4.6 ×) Field of View(H × V), Degrees/m @100 m 8.8° × 5.3°/15.4 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 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 Viewing Range at Night 350 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 2xit Pupil Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Yes Lingth Yes </td <td>Detection Range</td> <td>2600 m</td>	Detection Range	2600 m
Field of View(H × V), Degrees/m @100 m 8.8° × 5.3°/15.4 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 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 Viewing Range at Night 350 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 8 mm Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes	Min. Focusing Distance	5 m
Degrees/m @100 m 8.8° × 5.3°/15.4 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 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 Viewing Range at Night 350 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 2xit Pupil Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes	Magnification	4.3× to 20.0× (4.6×)
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 Viewing Range at Night 350 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 2sit Pupil Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Cold, warm Comrast Adjustment Yes Image Pro 2.0 Yes Image Pro 2.0 Yes	, ,	8.8° × 5.3°/15.4 m × 9.3 m
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*x 4.1*/12.6 m × 7.2 m Smart IR Yes IR Illuminator Wavelength 940 nm Viewing Range at Night 350 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 4 auto, Manual, External Correction Mode 15 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes	Optical Module	
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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 Viewing Range at Night 350 m Replaceable IR Illuminator Yes Image Display 0.49 inch, OLED, 1920 × 1080 Palettes Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto FFC (Flat Field Correction) Auto, Manual, External Correction Mode 8 mm Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes System		3840 × 2160
Focus Mode Magnification 5.5× to 22.0× (4×) Field of View (H × V), Degrees/m @100 m Smart IR IR Illuminator Wavelength Viewing Range at Night Replaceable IR Illuminator Smappe Usiplay Display 0.49 inch, OLED, 1920 × 1080 FFC (Flat Field Correction) Mode Exit Pupil 8 mm Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Image Pro 2.0 Yes System	Focal Length	60 mm, F2.2
Magnification 5.5× to 22.0× (4×) Field of View (H × V), Degrees/m @100 m 7.3° x 4.1°/12.6 m × 7.2 m Smart IR Yes IR Illuminator Wavelength 940 nm Viewing Range at Night 350 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 Mode 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 Image Pro 2.0 Yes System	Min. Working Distance	3 m
Field of View (H × V), Degrees/m @100 m Smart IR IR Illuminator Wavelength Viewing Range at Night Splay O.49 inch, OLED, 1920 × 1080 FFC (Flat Field Correction) Mode Exit Pupil Exit Pupil Eye Relief Diopter (Range) Fightness Adjustment Contrast Adjustment Contrast Adjustment Contrast Adjustment Zoom Pro Insurance System 7.3°× 4.1°/12.6 m × 7.2 m 7.8°× 4.1°/12.6 m × 7.2 m 7.9°× 4.1°/12.6 m 7.9°× 4.1°/12	Focus Mode	Focus Ring
Degrees/m @100 m Smart IR IR Illuminator Wavelength Viewing Range at Night Replaceable IR Illuminator Image Display	Magnification	5.5× to 22.0× (4×)
IR Illuminator Wavelength940 nmViewing Range at Night350 mReplaceable IR IlluminatorYesImage Display0.49 inch, OLED, 1920 × 1080PalettesThermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, AutoFFC (Flat Field Correction) ModeAuto, Manual, External CorrectionExit Pupil8 mmEye Relief15 mmDiopter (Range)-5 D to +3 DBrightness AdjustmentYesTone AdjustmentCold, warmContrast AdjustmentYesZoom ProYesImage Pro 2.0YesSystem	` ,	7.3°× 4.1°/12.6 m × 7.2 m
Viewing Range at Night350 mReplaceable IR IlluminatorYesImage Display0.49 inch, OLED, 1920 × 1080PalettesThermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, AutoFFC (Flat Field Correction) ModeAuto, Manual, External CorrectionExit Pupil8 mmEye Relief15 mmDiopter (Range)-5 D to +3 DBrightness AdjustmentYesTone AdjustmentCold, warmContrast AdjustmentYesZoom ProYesImage Pro 2.0YesSystem	Smart IR	Yes
Replaceable IR IlluminatorYesImage Display0.49 inch, OLED, 1920 × 1080PalettesThermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, AutoFFC (Flat Field Correction) ModeAuto, Manual, External CorrectionExit Pupil8 mmEye Relief15 mmDiopter (Range)-5 D to +3 DBrightness AdjustmentYesTone AdjustmentCold, warmContrast AdjustmentYesZoom ProYesImage Pro 2.0YesSystem	IR Illuminator Wavelength	940 nm
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 Image Pro 2.0 Yes System	Viewing Range at Night	350 m
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 Image Pro 2.0 Yes System	Replaceable IR Illuminator	Yes
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 Image Pro 2.0 Yes System	Image Display	
FFC (Flat Field Correction) Mode 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 Image Pro 2.0 Yes System	Display	0.49 inch, OLED, 1920 × 1080
Mode 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 Image Pro 2.0 Yes System	Palettes	Thermal: Black Hot, White Hot, Red Hot, Fusion; Optical: Day, Night, Auto
Eye Relief 15 mm Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Cold, warm Contrast Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes System	· ·	Auto, Manual, External Correction
Diopter (Range) -5 D to +3 D Brightness Adjustment Yes Tone Adjustment Cold, warm Contrast Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes System	Exit Pupil	8 mm
Brightness Adjustment Yes Tone Adjustment Cold, warm Contrast Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes System	Eye Relief	15 mm
Tone Adjustment Cold, warm Contrast Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes System	Diopter (Range)	-5 D to +3 D
Contrast Adjustment Yes Zoom Pro Yes Image Pro 2.0 Yes System	Brightness Adjustment	Yes
Zoom Pro Yes Image Pro 2.0 Yes System	Tone Adjustment	Cold, warm
Image Pro 2.0 Yes System	Contrast Adjustment	Yes
System	Zoom Pro	Yes
	Image Pro 2.0	Yes
Record Video 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 Battery Pack
Battery Operating Time	10.5 h (25°C, with hotspot off, LRF and Zoom Pro on)
Type-C Power Supply	5 V/9 V DC, 3 A
	Supports External Power Supply, Support Direct Charging
General	
Protection Level	IP67
Dimension	142.9 mm × 79.7 mm × 230.5 mm (5.6" × 3.1" × 9.1")
Weight	975 g with battery pack
Working Temperature	-30°C to +55°C
Interpupillary Adjustment	60 mm to 74 mm
Range	
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

HM-TSA6-50S2G/W1LVE-HQ50LN

Dimension

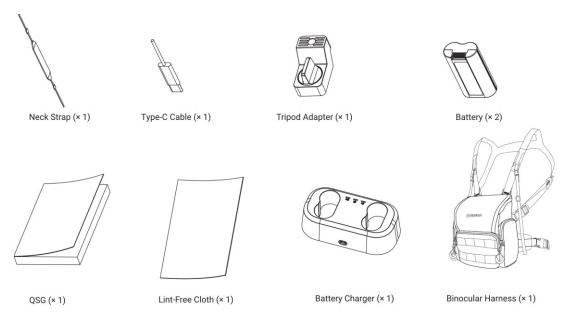






Unit: mm

Accessories



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