



BT0-49

Multi-Spectrum Binocular



HAWKEYE BT0-49 multi-spectrum binocular is equipped with a 640×512 thermal detector and a 2560×1440 optical detector. With less than 20 mK NETD, which represents high thermal sensitivity, it ensures perfect image quality and detail recognition even in the hardest weather conditions. Its 1000 m Laser rangefinder can accurately measure the distance when you are stalking or observing under low-light conditions.

Key Feature

- 640×512 resolution @12 μm thermal detector
- High sensitivity thermal module NETD < 20 mK (@25° C, F# = 1.0)
- 35 mm lens with thermal detection range up to 1400 m
- 2560×1440 high-resolution optical detector
- 1920×1080 resolution 0.49-inch OLED display
- Built-in 850 nm IR illuminator and Laser Rangefinder of 1000 m measuring distance
- Up to 5h continuous operation
- 780 g lightweight, compact and ergonomic design

Specification

Thermal Module	
Image Sensor	Uncooled
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	1400 m
Min. Focusing Distance	3.5 m
Magnification	3x, 6x, 9x, 12x, 15x, 18x, 21x, and 24x
Field of View (H × V), Degrees/m @100 m	12.5° × 10.1°/ 22.0 m × 17.6 m
Optical Module	
Image Sensor	Optical
Max. Resolution	2560 × 1440
Focal Length	31 mm, F1.2
Min. Working Distance	3 m
Min. Illumination	0.001 lux @ (F1.0 , AGC On)
Focus Mode	Focus Ring
Magnification	3x, 6x, 9x, 12x, 15x, 18x, 21x, and 24x
Field of View (H × V), Degrees/m @100 m	13.9° × 7.8°/24.4 m × 13.6 m
Smart IR	Yes
Viewing Range at Night	300 m (optimum condition)
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
Hot Track	Yes
Digital Magnetic Compass	Yes
GPS	Yes
Local Album	Yes
Power Supply	
Battery Type	Replaceable and Rechargeable Li-ion Battery
Battery Operating Time	Up to 5h (25°C)
Type-C Power Supply	5 V DC, 2 A Supports External Power Supply
General	
Protection Level	IP67
Dimension	138.2 mm × 68.4 mm × 212.4 mm (5.4" × 2.7" × 8.4")
Weight	+/- 780 g
Working Temperature	-30°C to +55°C
Interpupillary Adjustment Range	60 mm to 70 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
Infrared Illuminator	
Emitter	LED
IR Wavelength	850 nm
Beam Angle	Adjustable 7.6 to 11.5°