

KONG-BHF

HD FUSION BINOCULARS

The KONG-BHF meets all-weather observation requirements with wide FOV fusion imaging and excellent detection range. Configured with four optical channels, it delivers accurate rangefinding and positioning in a portable lightweight layout.

KEY FEATURES

DUAL HIGH-DEFINITION MULTISPECTRAL IMAGING

It integrates a 1024×768 infrared detector and a 12 μm 1280×960 low-light CMOS.

INTELLIGENT FUSION IMAGING

Built-in infrared and low-light intelligent fusion algorithm ensures low image latency.

LIGHTWEIGHT DESIGN

Whole unit weight of 1.4 kg only

LONG BATTERY LIFE

The maximum continuous operating time can reach 8 hours.

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TECHNICAL DATA

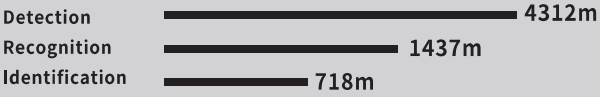
Thermal Channel	
Sensor Resolution	1024×768 pixels，12μm
Frame Rate	25Hz
Spectral band	8μm to 14μm
Focal Length	45mm/F1.1
FOV(H×V)	15.5°×11.6°
System Magnification	2.1×
Digital Zoom	1~4×
Low Light Level Channel	
Sensor Resolution	1280×960 pixels
Low Illumination Capability	<0.001lux
Focal Length	50mm/F1.0
FOV(H×V)	17.4°×13.1°
System Magnification	1.8×
Digital Zoom	1~4×
Laser Rangefinder	
Laser Type	1535nm/Class1/Eye-safe
Range Capability	50~3000m（2.3m×2.3m target）
Accuracy	±1m
Digital Magnetic Compass	
Azimuth Accuracy（RMS）	±1°
Inclination Accuracy（RMS）	±1°

Internal GPS Receiver	
Positioning Mode	BD+GPS+GLONASS+Galileo+QZSS+SBAS
Horizontal Accuracy (CEP)	5m
Elevation Accuracy (PE)	10m
Laser Pointer	
Wavelength	850nm
Class	Class1/Eye-safe
Display	
Screen Type	OLED
Resolution	1024×768
Eyepiece	
Diopter	-4 ~ +4D
Spacing	60~70mm
Storage	
Standard On Board	64GB
Physical	
Dimensions (W × H × D)	201mm×182mm×94mm
Weight	≤1.4kg (including battery)
Power Supply	
Battery Type	3 × 18650 lithium batteries
Battery life	> 8h
Interfaces	
External Power Supply	6~12V DC
Video Output	PAL
Wired Data	USB，RS232
Environmental	
Immersion	IP67

Infrared range performance Human



Infrared range performance Vechicle



The calculation of these indicators is based on the target detectability division method defined in the Johnson criterion. The humanoid target is defined as 1.7m high and 0.5m wide, and the vehicle target as 2.3m by 2.3m. The calculations assume standard environmental conditions and are based on the sensor specifications listed in the product. Actual performance may vary due to environmental factors, atmospheric conditions, or operational settings.



FUSION MODE



IR MODE



LOW LIGHT MODE