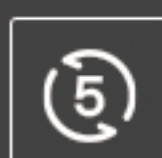


KONG-BHA

INFRARED MULTI-FUNCTION BINOCULARS

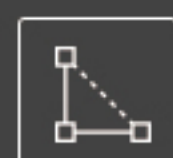
The KONG-BHA/BHAS is a miniaturized intelligent professional observation device integrated with five photoelectric channels: infrared, visible light, low light (short-wave optional), laser rangefinding, and laser indication. All-weather target detection, rangefinding, positioning, and AI recognition functions are supported, with stable operation guaranteed even in GNSS-denied environments.

KEY FEATURES



FIVE-SPECTRUM TARGET DETECTION

It integrates a 1280 uncooled infrared detector, 4K-grade visible light CMOS, 1080P low-light CMOS (or short-wave infrared), 10 km laser rangefinding, and laser indication.



LASER SEE SPOT CAPABILITY

It is optional with short-wave infrared version to detect lasers in wavebands invisible to human eyes.



INTEGRATED AI IMAGE ALGORITHM

It integrates various AI algorithms, such as EIS and target recognition algorithms.



STRONG PRODUCT SCALABILITY

It supports external accessories such as infrared magnifier, north finder, and encoded laser illuminator.



LONG BATTERY LIFE AND LIGHT WEIGHT

The weight of the whole unit, including battery, is 1.8 kg only; the maximum battery life reaches 12 hours with a quick replaceable battery.



MULTIPLE REMOTE CONTROL SOLUTIONS

It is compatible with mobile APPs and self-developed bases to realize remote operation.

1



2



3



TECHNICAL DATA

Model	K-BHA	K-BHAS
Thermal Channel		
Sensor Resolution	1280×1024 pixels, 12μm	
Spectral band	8μm to 14μm	
Focal Length	75mm/F1.0 or 100mm/F1.2(add optical extender)	
FOV(H×V)	11.7°×9.4° or 8.8°×7.0°(add optical extender)	
System Magnification	3.2x or 4.3x(add optical extender)	
Digital Zoom	1~4×	
Color Day Channel		
Sensor Resolution	3840×2160 pixels	
Focal Length	85mm/F2.8	
FOV(H×V)	3.6°×2.9°	
System Magnification	10.5x	
Digital Zoom	1~4×	
Low Light Level Channel		
Sensor Resolution	1920×1080 pixels	/
Low Illumination Capability	<0.001lux	/
Focal Length	65mm/F1.4	/
FOV(H×V)	13.5°×10.8°	/
System Magnification	2.8x	/
Digital Zoom	1~4×	/
SWIR Channel		
Sensor Resolution	/	640×512 pixel, 15μm
Spectral band	/	0.9μm to 1.7μm
Focal Length	/	65mm/F1.4 to F16
FOV(H×V)	/	8.4°×6.8°
System Magnification	/	4.5x
Digital Zoom	/	1~4×
Laser Rangefinder		
Laser Type	1535nm/Class1/Eye-safe	
Range Capability	20~8000m (2.3m×2.3m target)	
Accuracy	±1m	

Model	K-BHA	K-BHAS
Digital Magnetic Compass		
Azimuth Accuracy （RMS）	±0.3°	
Inclination Accuracy （RMS）	±0.3°	
Internal GPS Receiver		
Positioning Mode	BD+GPS+GLONASS+Galileo+QZSS+SBAS	
Horizontal Accuracy (CEP)	3m	
Elevation Accuracy (PE)	8m	
Laser Pointer		
Wavelength	850nm	
Class	Class3B	
Display		
Screen Type	0.6inch OLED	
Resolution	1280×1024	
Eyepiece		
Diopter	-5 ~ +5D	
Spacing	55~75mm	
Storage		
Standard On Board	128GB	
Physical		
Dimensions (W × H × D)	193mm×212mm×103mm	
Weight	≤1.8kg (including battery)	
Power Supply		
Battery Type	4 × 18650 lithium batteries	
Battery life	>12h	
Interfaces		
External Power Supply	12~24V DC	
Power Output	12V/1A	
Video Output	HDMI, PAL	
Wired Data	USB, RS232, LAN	
Wireless	Wi-Fi	
Environmental		
Immersion	IP67	

ACCESSORIES

1 HUB (OPTIONAL)



2 LASER DESIGNATION (OPTIONAL)



3 NORTH SEEKER (OPTIONAL)



4 TELECONVERTER (OPTIONAL)



Infrared range performance Human

Detection

Recognition

Identification

5100m/7200m
(add optical extender)

1700m/2400m
(add optical extender)

900m/1200m
(add optical extender)

7200m/9600m
(add optical extender)

2400m/3200m
(add optical extender)

1200m/1600m
(add optical extender)

Infrared range performance Vechicle

Detection

Recognition

Identification

7200m/9600m
(add optical extender)

2400m/3200m
(add optical extender)

1200m/1600m
(add optical extender)

7200m/9600m
(add optical extender)

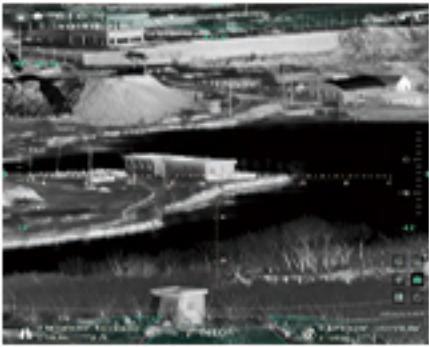
2400m/3200m
(add optical extender)

1200m/1600m
(add optical extender)

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



TV MODE