

# KONG-BE PRO

## COOLED MWIR INFRARED MULTI-FUNCTION BINOCULARS

The KONG-BE Pro is a compact intelligent observation device integrated with cooled medium-wave infrared, visible light, laser rangefinding, and laser indication modules. It supports multi-mode observation, ultra-long-distance detection, high-precision positioning and guidance, image capture, video taking, and data transmission.

### KEY FEATURES



#### ALL-WEATHER PRECISE TARGET DETECTION

It adopts a high-performance 640×512 cooled infrared detector and a 1080P-class visible light sensor.



#### HIGH IMAGE QUALITY AND LONG RECOGNITION DISTANCE

Its infrared detector features NETD  $\leq 15$  mK with rich imaging details; equipped with a high-magnification continuous zoom optical lens, it reaches a maximum vehicle recognition distance of 6 km.



#### AI TARGET RECOGNITION

It supports automatic recognition and marking of human and vehicle targets to improve target recognition efficiency during observation.



#### LONG BATTERY LIFE

Its maximum battery life is up to 5 hours.



#### MULTIPLE REMOTE CONTROL SOLUTIONS

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

1



2



3



TECHNICAL DATA

| Thermal Channel           |                              | Internal GPS Receiver     |                                  |
|---------------------------|------------------------------|---------------------------|----------------------------------|
| Sensor Resolution         | 640×512 pixels, 15μm         | Positioning Mode          | BD+GPS+GLONASS+Galileo+QZSS+SBAS |
| Spectral band             | 3.7μm to 4.8μm               | Horizontal Accuracy (CEP) | 5m                               |
| Cooldown Time             | 7 minutes                    | Elevation Accuracy (PE)   | 10m                              |
| Focal Length              | 30~240mm/F4.0                | Laser Pointer             |                                  |
| FOV(H×V)                  | 18.2°×14.6°~2.3°×1.8°        | Wavelength                | 850nm                            |
| System Magnification      | 1.8x ~ 14.6x                 | Class                     | Class3                           |
| Digital Zoom              | 1~4×                         | Display                   |                                  |
| Color Day Channel         |                              | Screen Type               | OLED                             |
| Sensor Resolution         | 1920×1080 pixels             | Resolution                | 1920×1080                        |
| Focal Length              | 12~120mm/F5.5                | Eyepiece                  |                                  |
| FOV(H×V)                  | 25.4°×20.4°~2.6°×2.1°        | Diopter                   | -5 ~ +5D                         |
| System Magnification      | 1.3x ~ 13x                   | Spacing                   | 55~75mm                          |
| Digital Zoom              | 1~4×                         | Storage                   |                                  |
| Laser Rangefinder         |                              | Standard On Board         | 64GB                             |
| Laser Type                | 1535nm/Class1/Eye-safe       | Physical                  |                                  |
| Range Capability          | 50~12000m (2.3m×2.3m target) | Dimensions (W × H × D)    | 280mm×265mm×123mm                |
| Accuracy                  | ±2m                          | Weight                    | ≤3.5kg (no battery)              |
| Digital Magnetic Compass  |                              | Power Supply              |                                  |
| Azimuth Accuracy(RMS)     | ±0.5°                        | Battery Type              | 8 × 18650 lithium batteries      |
| Inclination Accuracy(RMS) | ±0.3°                        | Battery life              | >5h                              |
|                           |                              | Interfaces                |                                  |
|                           |                              | External Power Supply     | 12~24V DC                        |
|                           |                              | Video Output              | HDMI, PAL                        |
|                           |                              | Wired Data                | USB, RS232                       |
|                           |                              | Wireless                  | Wi-Fi                            |
|                           |                              | Environmental             |                                  |
|                           |                              | Immersion                 | IP67                             |

ACCESSORIES

1

DEBUGGING TOOLING CABLE



2

TRIPOD



Infrared range performance

Human

Detection

Recognition

Identification

13500m

4500m

2200m



Infrared range performance

Vechicle

Detection

Recognition

Identification

18000m

6000m

3000m



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.







IR MODE

TV MODE