# Thermal & Night Vision Binocular

# **Product Specifications**

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| LLL Detector  ×2 | Resolution size | 1024×768 13μ m |
| Sensor type | CMOS |
| Frame frequency | 50Hz |
| Infrared Detector | Resolution size | 640×512 12μm |
| Sensor type | Vanadium oxide focal plane |
| Frame frequency | 50Hz |
| LLL lens  ×2 | EFL | 17.4mm |
| F# | 1.3 |
| Distortion rate | ＜0.05% |
| FOV | 41.6° (horizontal) 31.8° (vertical) |
| Infrared lens | EFL | 18mm |
| F# | 1.0 |
| Distortion rate | ＜0.5% |
| FOV | 26° (horizontal) 21° (vertical) |
| Imaging | Registration accuracy | 1 pixel (4 points up and down, center and right in the fusion area) |
| OLED ×2 | 1024×768 |
| EFL ×2 | 15.62mm |
| Eye distance | 20mm |
| Entrance pupil diameter | 5mm |
| function | Imaging mode | IR / light / fusion / profile 4 mode switching |
| Infrared mode | Black hot / white hot |
| Fusion mode | Urban / desert / sea / jungle 4 background switches |
| Outline mode | Personnel target intelligent identification, outline sketched |
| Intelligent recognition | Target automatic box selection, tracking, and lock |
| Physical perception | Support body visual perception, pick and wear without vertigo |
| Stereo vision | Support for binocular stereo vision imaging |
| Fill-in light | Support for infrared fill light |
| Upgrade | Support program upgrade |
| communication | communication mode | FPD-Link |
| Communication type | The 1-way TTL level is 3.3V |
| video | Video Output | Telescope OLED / FPD-Link |
| Video input | battery case with WIFI |
| interface | Power supply / video interface | FPD-Link |
| Communication interface | 1.25 spacing 8pin connector |
| electrical | Power supply | DC 5~8.4V Battery Supply (7.5V) |
| Power consumption | ≤3.5W |
| overall | Start time | ≤8S |
| Boot image | None |
| Operate time | 6h |
| Power supply | Battery case | Four 18650 batteries |
| interaction | Human-device interaction | Knob / button / switch |
| machinery | Weight | ＜550g |
| Dimension | ≤105mm ×114mm ×64mm (length, width and height) |
| environmental | Working temperature | -40℃～+60℃ |
| Working humidity | 0%～90%RH |
| Storage temperature | -45℃ ~ + 70℃  GJB150.3A-2009 |
| Store humidity | 0%～95%RH |
| Packaging content | Container includes | binocular |
| certificate |
| Factory inspection report |
| safety box |
| desiccant |