

**DS-2TS36-75VI/W****Handheld Thermal & Optical Bi-spectrum Multi-function Binocular**

Handheld Thermal & Optical Bi-spectrum Multi-function Binocular is equipped with ultra-low light optical detector, 640 × 512 @25fps thermal detector, 1024 × 768 @25fps OLED display and eyepiece. The device can quickly discover and accurately locate targets on the ground, at sea and river even under extreme environment, such as smoke, fog, rain and snow. It can be widely applied to scenarios like patrol, search and rescue.

**Key Feature**

- High sensitivity thermal module with 640 × 512 resolution
- NETD < 40 mk (@25°C, F# = 1.0)
- Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR
- High quality optical module with 1280 × 960 resolution
- Video recording, replay, snapshot, and search (users can review event on device)
- Wi-Fi hot spot
- Built-in compass, and GPS module, Supports self-positioning

## ▪ Specification

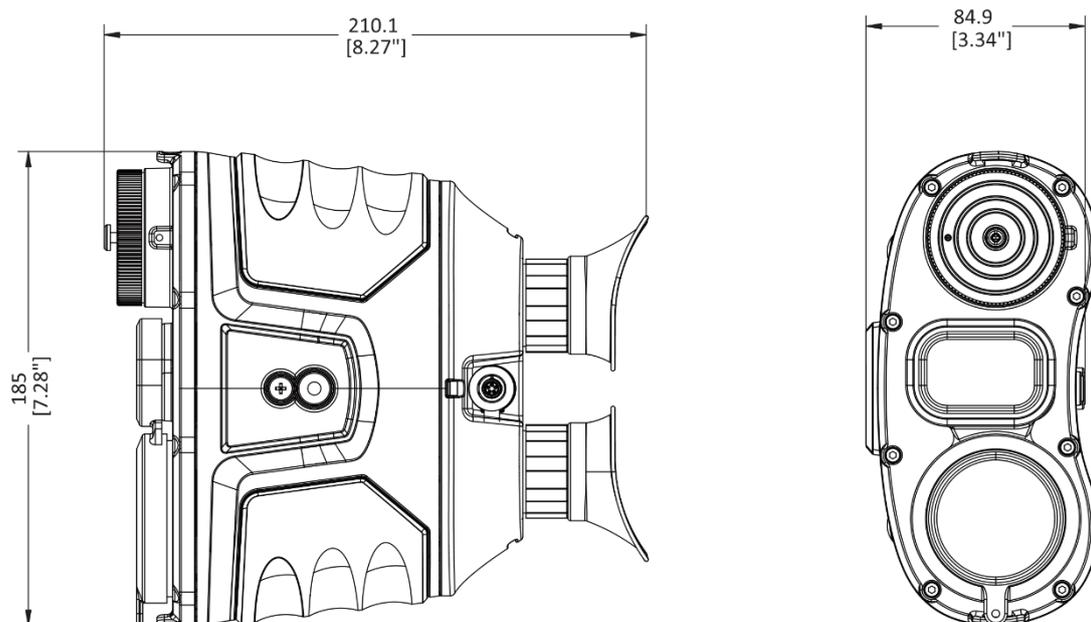
| Thermal Module           |   |
|--------------------------|---|
| NETD                     | < 40mk (@25°C, F# = 1.0)  |
| Field of View            | 8.3° × 6.64° (H × V)  |
| Aperture                 | F1.2  |
| Pixel Pitch              | 17 μm   |
| Response waveband        | 8 μm to 14 μm   |
| MRAD (IFOV)              | 0.23  |
| Digital Zoom             | 4×  |
| Max. Resolution          | 640 × 512   |
| Lens (focal length)      | 75 mm Electric focus  |
| Image Display            |   |
| Thermal/Optical Mode     | Thermal view, B/W optical view, image fusion view are selectable  |
| Image Fusion             | Color fusion, B/W fusion  |
| Monitor                  | 0.39-inch, OLED, 1024 × 768   |
| Palettes                 | Black hot, white hot  |
| Optical Module           |   |
| Max. Resolution          | 1920 × 1080 @25fps  |
| Image Sensor             | 1/1.8" Progressive Scan CMOS  |
| Min. Illumination        | B/W: 0.001 lux @ (F1.0, AGC On)   |
| Lens (focal length)      | 22 mm   |
| Image Enhancement        | 3D DNR, Adaptive AGC  |
| Smart                    |   |
| Object Highlight         | Yes   |
| Automatic Backlight      | The OLED backlight automatically turns off if no human eyes are detected.   |
| System                   |   |
| Record Video             | On-board video recording  |
| Snapshot                 | On-board image capturing  |
| Video Replay             | Yes   |
| Picture Search           | Yes   |
| Wi-Fi                    | Yes   |
| GPS                      | Yes   |
| Storage                  | Built-in memory module (32 GB)  |
| Power Supply             |   |
| Battery Type             | Four 18650 batteries, requires 5 hours to be fully charged  |
| Battery Operating Time   | ≥ 7 h   |
| Battery Capacity Display | Yes   |
| General                  |   |
| Power                    | DC 5 V/2 A, Max.10 W  |
| Weight                   | Approx. 1.5 kg (3.3 lb)   |
| Protection level         | IP67  |
| Dimension (L x W x H)    | 185 mm × 210.1 mm × 84.9 mm (7.28" × 8.27" × 3.34")   |
| Cable Output             | Aviation plug: connecting to BNC, DB9, and USB  |
| Accessories (Supplied)   | Battery charger, battery charger power cable, wiping cloth, two wrist straps, User manual, aviation plug cable, eight batteries |

|                     |                                |
|---------------------|--------------------------------|
| Mounting            | UNC 1/4"-20                    |
| Working Temperature | -30°C to 60°C (-22°F to 140°F) |

▪ **Available Model**

DS-2TS36-75VI/W

**Dimension**

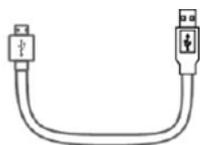


Unit: mm [Inch]

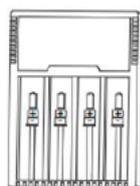
▪ **Packing List**



Thermal Binocular (× 1)



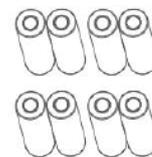
USB Cable (× 1)



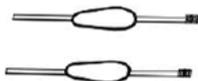
Battery Charger (× 1)



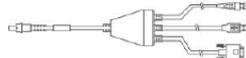
Manual (× 1)



Battery (× 8)



Straps (× 2)



Aviation Plug Cables (× 1)



Non-dust Cloth (× 1)

**COMPLIANCE NOTICE:** The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

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