

DS-2TS16-50VI/W

Handheld Thermal & Optical Bi-spectrum Binocular



Hikvision DS-2TS16-50VI/W Handheld Thermal & Optical Bi-spectrum Binocular is equipped with ultra-low light optical detector, 640 × 512 @25fps thermal detector, 1280 × 960 @25fps OLED display and eyepiece with large field of view. The device can quickly discover and locate hiding objects even under extreme environment, such as smoke, fog, rain and snow. It can be widely applied to scenarios like patrol, law enforcement, search and rescue, drug enforcement, anti-smuggling and suspect capture.

Key Features

- Thermal: 640 × 512 @25fps, optical: 1280 × 960 @25fps
- Adaptive AGC, DDE, 3D DNR, NETD less than 40 mk (25°C, F#=1.0)
- Ultra-low illumination (optical channel), B/W: 0.001 lux @ (F1.0 , AGC On)
- 0.39-inch OLED display
- Automatic OLED backlight
- Manual focus for thermal lens
- Bi-spectrum image fusion and object highlight (detail enhancement and target recognition)
- Video recording, replay, picture snapshot and search (capable to review the event on device)
- Wi-Fi hot spot, GPS, cursor display



Specification

Thermal Module	
Image Sensor	Uncooled Focal Plane Arrays
Max. Resolution	640 × 512 @25fps
Pixel Interval	17μm
Response Waveband	8μm to 14μm
NETD	less than 40 mk (25°C, F#=1.0)
Lens (Focal Length)	50 mm, Manual Focus, Electric focus
MRAD	0.34 mrad
Field of View	12.42° × 9.95° (H × V)
Digital Zoom	4×
Aperture	F1.0
Optical Module	
Max. Image Resolution	1280 × 960 @25fps
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	B/W : 0.001 lux @ (F1.0 , AGC On)
Lens (Focal Length)	12 mm
Image Enhancement	3D DNR, Adaptive AGC
Image Display	
Monitor	0.39-inch, OLED, 1024 × 768
Thermal/Optical Mode	Thermal view, B/W optical view, image fusion view are selectable
Image Fusion	Color fusion, B/W fusion
Pallets	Black hot, white hot
Smart Function	
Hot Track	Yes
Object Highlight	Yes
Automatic Backlight	The OLED backlight automatically turns off if no human eyes are detected.
Cursor Display	A cursor shows in the view for roughly measuring distance from the target.
System	
Storage	Built-in memory module (32GB)
Record Video	On-board video recording
Snapshot	On-board image capturing
Video Replay	Yes
Picture Search	Yes
Wi-Fi	Yes
GPS	Yes

Power Supply	
Battery Type	Four 18650 batteries, requires 5 hours to be fully charged
Battery Operating Time	More than 7 hours
Battery Capacity Display	Yes
General	
Menu language	English
Power	DC 5V/2A
Working Temperature	-30 °C to 55 °C (-22 °F to 131 °F)
Protection Level	IP67
Mounting	UNC 1/4"-20
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
Dimension	164mm × 182.3mm × 73.3mm (6.46" × 7.18" × 2.89")
Weight	Less than 1.0 Kg (2.20 lb)

Detection Range Table

* The table is only for reference, the performance may vary from camera to camera.

Wide Range Coverage

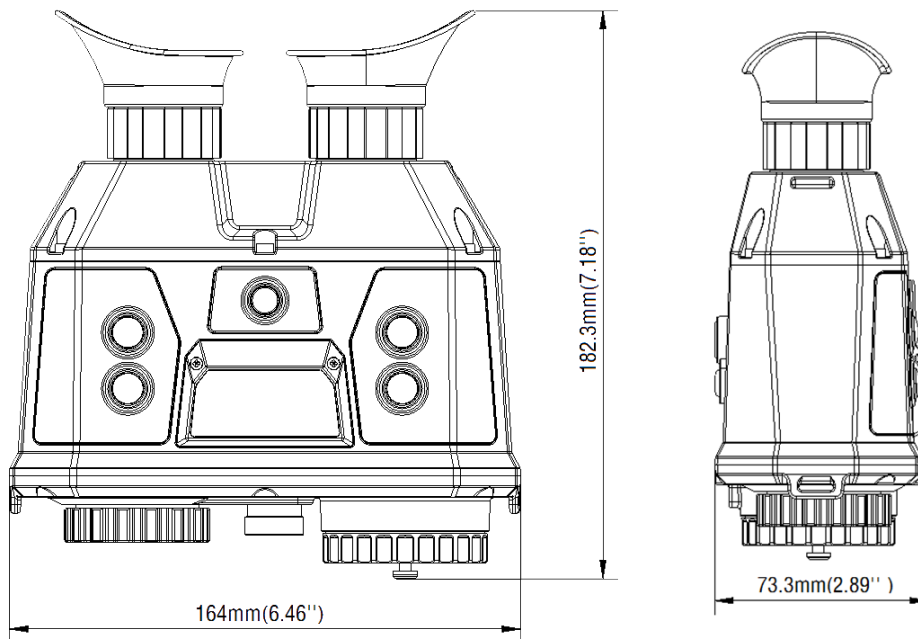
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

Detection Range (Vehicles: 1.4×4.0m)	Detection Range (Humans: 1.8×0.5m)	Recognition Range (Vehicles: 1.4×4.0m)	Recognition Range (Humans: 1.8×0.5m)	Identification Range (Vehicles: 1.4×4.0m)	Identification Range (Humans: 1.8×0.5m)
4510 m	1471 m	1127 m	368 m	564 m	184 m

Available Model

DS-2TS16-50VI/W

Dimension



Distributed by

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