

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, Use 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

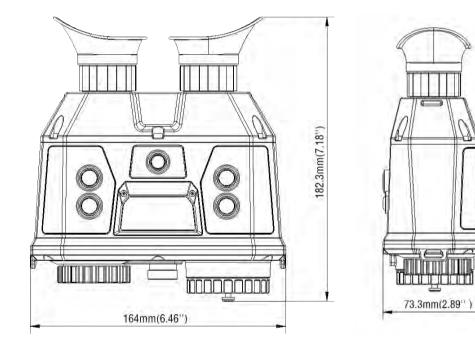
There is range limit for detecting, recognizing, and identifying human/vehicle targets.

Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles:	(Humans:	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
1.4×4.0m)	1.8×0.5m)	1.4×4.0m)	1.8×0.5m)	1.4×4.0m)	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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