

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 thermal detector, 1024×768 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 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
- Automatic OLED backlight
- Video recording, replay, snapshot, and search (users can review event on device)
- Wi-Fi hot spot, GPS, cursor display
- Up to 7 hours continuous operation



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Specification

Thermal Module		
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
Max. Resolution	640 × 512	
Pixel Pitch	17 μm	
Response waveband	8 μm to 14 μm	
NETD	< 40mk (@25°C, F# = 1.0)	
Lens (focal length)	50 mm	
Field of View	12.42° × 9.95°	
Aperture	F1.0	
MRAD (IFOV)	0.34	
Digital Zoom	4×	
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	1280 × 960@25fps	
Image Sensor	1/3" Progressive Scan CMOS	
Min. Illumination	B/W: 0.001 lux @ (F1.0 , AGC On)	
Lens (focal length)	12mm, Manual focus	
Image Enhancement	3D DNR, Adaptive AGC	
Smart		
Object Highlight	Yes	
Cursor Display	A cursor shows in the view for roughly measuring distance from the target.	
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	≥ 7h	
Battery Capacity Display	Yes	
General		
Power	5 VDC/2 A	
Weight	< 1.0 kg (2.20 lb)	
Protection level	IP67	
Dimension (L x W x H)	164 mm × 182 mm × 74.3 mm (6.46" × 7.17" × 2.93")	
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 55°C (-22°F to 131°F)	

Wide Range Coverage for Different Specifications

Note: The table below is only for reference, the performance varies from model to model, and the specific data is based on 17 µm pixel pitch.

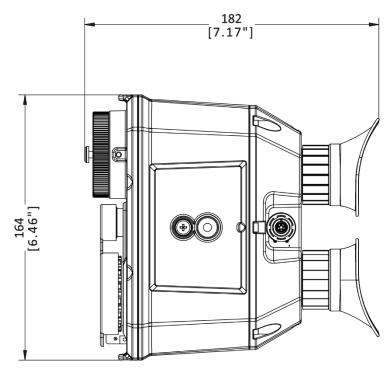
Lens (focal length)	50 mm
Detection range (Vehicles)	4510 m
Detection range (Humans)	1471 m
Recognition range (Vehicles)	1127 m
Recognition range (Humans)	368 m
Identification range (Vehicles)	564 m
Identification range (Humans)	184 m

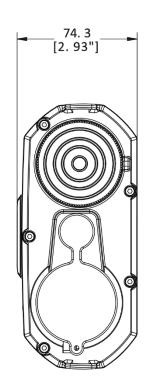
Available Model

DS-2TS16-50VI/W



Dimensions





Unit: mm [Inch]

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