

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 Features

- Thermal: 640 × 512@25fps, optical: 1280 × 960@25fps
- NETD < 40mk (@25 °C,F#=1.0)
- DDE (Digital Detail Enhancement)
- 3D DNR, adaptive AGC (Automatic Gain Control)
- 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
- Up to 7 hours continuous running
- IP67





Specifications

Mode	DS-2TS16-50VI/W	
Parameter	Handheld Observational Thermal & Optical Bi-spectrum Binocular	
Thermal Module		
Image sensor	Uncooled Focal Plane Arrays	
Max. Resolution	640 ×512@25fps	
Pixel Pitch	17μm	
Response waveband	8μm to 14μm	
NETD	< 40mk (@25 °C,F#=1.0)	
Lens (focal length)	50mm, Manual focus	
MRAD (IFOV)	0.34	
Field of View	12.42 °×9.95 °	
Aperture	F 1.0	
Digital Zoom	4×	
Optical Module		
Image Sensor	1/3" Progressive Scan CMOS	
Min. Illumination	B/W: 0.001 lux @ (F1.0, AGC On)	
Max. Resolution	1280 ×960@25fps	
Lens (focal length)	12mm	
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	
Palettes	Black hot, white hot	
Smart		
Hot Track	Yes	
Object Highlight	Yes	
Cursor Display	A cursor shows in the view for roughly measuring distance from the target.	
Automatic Backlight		
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	≥7h	
Battery Capacity Display	Yes	
General		
	5V DC/2 A	
Power	5V DC/2A	



Working Temperature	-30 ℃ to 55 ℃ (-22 ℉ to 131 ℉)	
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 (L x W x H)	164mm × 182.3mm × 73.3mm (6.46" × 7.18" × 2.89")	
Weight	<1.0kg (2.20 lb)	

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.

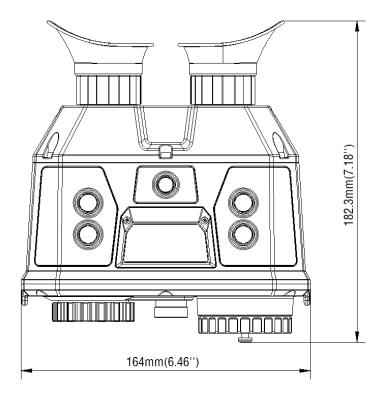
Lens (focal length)	50mm
Detection range (Vehicles)	4510m
Detection range (Humans)	1471m
Recognition range (Vehicles)	1127m
Recognition range (Humans)	368m
Identification range (Vehicles)	564m
Identification range (Humans)	184m

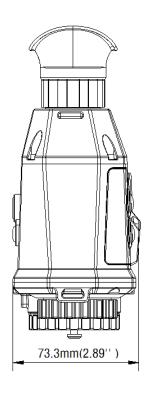
Order Models

DS-2TS16-50VI/W



Dimensions





Distributed by

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