



DS-2TS03-25UM/W

Handheld Observational Thermal Monocular





















Hikvision DS-2TS03 handheld observational thermal monocular is equipped with a 384×288 infrared detector and a 1024×768 OLED display. It supports functions of observation, hot spot tracking, distance measurement, Wi-Fi hot spot, and so on. The high-sensitivity built-in thermal detector provides you with clear view even in total darkness.

Key Features

- 384 × 288 resolution, high sensitivity detector
- DDE (Digital Detail Enhancement) technique
- 3D DNR, adaptive AGC (Automatic Gain Control)
- 1024 × 768 resolution 0.39-inch OLED display
- Built-in rechargeable Li-ion battery
- Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off)
- Small in size and light in weight



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Application Scenarios

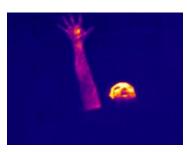
The monocular is mainly applied to scenarios such as patrolling, law enforcement, searching and rescuing, drug enforcement, anti-smuggling, criminal seizing, hiking, travel, and hunting, etc.,



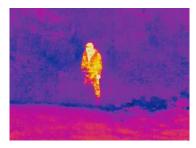
Security checking



Patrolling



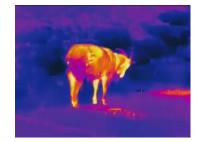
Searching and rescuing



Criminal seizing



Avoid beasts



Hunting

Functions

Distance Measurement:

The device realizes distance measurement function after marking the top and bottom of target, and input the target height.

Hot Spot Mark:

The device detects and marks the hot spot of highest temperature.

Wi-Fi Hot Spot:

Device can capture snapshots, record videos, and set parameters via APP after being connected to your phone.

GPS Function:

The device can be located with GPS system.

Storage:

Built-in memory module supports video recording/snapshot capturing.

Digital Zoom:

Device supports 2× digital zoom.

LED light:

LED light supplement makes the device a torch in the wild field.





Specifications

Parameter Handheld Observational Thermal Monocular Image sensor Uncooled Focal Plane Arrays Max. Resolution 384 × 288 Response waveband 8µm to 14µm Module Lens (focal length) 25mm MRAD 0.68 Field of View 14.88* × 11.19* F number 1.0 Monitor 0.39-inch, OLED, 1024 × 768 Black hot Willer Pallets White hot Red hot Red hot WIFI Support Storage Built-in memory module (16GB) Wight Support System Digital Zoom 2x LED Light Supplement Support Capture Snapshot Support Record Video Support on-board video / image recording GPS Support Battery Operating Time Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off) Battery Capacity Display Support Working Temperature -30 °C to 55 °C (-22 °F to 131 °F)		Model	DS-2TS03-25UM/W
Max. Resolution 384 × 288 Response waveband 8μm to 14μm Module NETD < 50mk (@25°C,F#=1.0) Module Lens (focal length) 25mm MRAD 0.68 68 Field of View 14.88° × 11.19° F number 1.0 Monitor Monitor 0.39-inch, OLED, 1024 × 768 Black hot White hot Red hot Support System Hot Track Support Support Storage Bult-in memory module (16GB) Digital Zoom 2× LED Light Supplement Support Capture Snapshot Support Record Video Support GPS Support Battery Type Lithium Battery Power Battery Operating Time Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off) Battery Capacity Display Support Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)<	Parameter		Handheld Observational Thermal Monocular
Response waveband 8μm to 14μm Module NETD < 50mk (@25°C,F#=1.0)		Image sensor	Uncooled Focal Plane Arrays
NETD		Max. Resolution	384 × 288
Module Lens (focal length) 25mm MRAD 0.68 Field of View 14.88° × 11.19° F number 1.0 Monitor 0.39-inch, OLED, 1024 × 768 Black hot White hot Red hot Red hot WIFI Support Storage Built-in memory module (16GB) Digital Zoom 2× LED Light Supplement Support Capture Snapshot Support Record Video Support Record Video Support on-board video / image recording GPS Support Battery Type Lithium Battery Power Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off) Battery Capacity Display Support Power 5V DC/2A, 2W Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		Response waveband	8μm to 14μm
MRAD 14.88° × 11.19° Field of View 14.88° × 11.19° F number 1.0 Monitor 0.39-inch, OLED, 1024 × 768 Black hot White hot Red hot Support Storage Built-in memory module (16GB) Digital Zoom 2× LED Light Supplement Support Capture Snapshot Support Record Video Support Record Video Support Support Battery Type Lithium Battery Battery Operating Time Support Battery Capacity Display Support Battery Capacity Display Support Ceneral Power 5V DC/2A, 2W Working Temperature -30°C to 55°C (-22°F to 131°F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		NETD	< 50mk (@25°C,F#=1.0)
Field of View 14.88° × 11.19° F number 1.0 Monitor 0.39-inch, OLED, 1024 × 768 Black hot White hot Red hot Red hot Red hot WIFI Support Storage Built-in memory module (16GB) Digital Zoom 2× LED Light Supplement Support Capture Snapshot Support Record Video Support on-board video / image recording GPS Support Battery Type Lithium Battery Power Battery Operating Time Wi-Fi hot spot function off) Battery Capacity Display Support Power 5V DC/2A, 2W Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		Lens (focal length)	25mm
Final Monitor Monito		MRAD	0.68
Monitor Display Black hot White hot Red hot		Field of View	14.88° × 11.19°
Pallets Black hot White hot Red hot		F number	1.0
DisplayPalletsWhite hot Red hotSystemHot TrackSupportWIFISupportStorageBuilt-in memory module (16GB)Digital Zoom2×LED Light SupplementSupportCapture SnapshotSupportRecord VideoSupport on-board video / image recordingGPSSupportBattery TypeLithium BatteryPower SupplyUp to five hours continuous running (with GPS function and Wi-Fi hot spot function off)Battery Capacity DisplaySupportPower5V DC/2A, 2WWorking Temperature-30 °C to 55 °C (-22 °F to 131 °F)Protection levelIP67Drop Test Height2 m (6.56 feet)		Monitor	0.39-inch, OLED, 1024 ×768
SystemHot TrackSupportWIFISupportStorageBuilt-in memory module (16GB)Digital Zoom2×LED Light SupplementSupportCapture SnapshotSupportRecord VideoSupport on-board video / image recordingGPSSupportBattery TypeLithium BatteryBattery Operating TimeUp to five hours continuous running (with GPS function and Wi-Fi hot spot function off)Battery Capacity DisplaySupportPower5V DC/2A, 2WWorking Temperature-30 °C to 55 °C (-22 °F to 131 °F)Protection levelIP67Drop Test Height2 m (6.56 feet)	Image		Black hot
Hot Track Support Support Storage Built-in memory module (16GB) Digital Zoom 2× LED Light Supplement Capture Snapshot Record Video GPS Support Support Support Support Support Attery Type Lithium Battery Battery Type Lithium Battery Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off) Battery Capacity Display Support Power Working Temperature Protection level Protection level Drop Test Height Vip 10 five hours continuous running (with GPS function and Wi-Fi hot spot function off) Protection level Drop Test Height Z m (6.56 feet)	Display	Pallets	White hot
WIFI Support Storage Built-in memory module (16GB) Digital Zoom 2× LED Light Supplement Support Capture Snapshot Support Record Video Support on-board video / image recording GPS Support Battery Type Lithium Battery Battery Operating Time Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off) Battery Capacity Display Support Power 5V DC/2A, 2W Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)			Red hot
System Storage		Hot Track	Support
Digital Zoom 2x		WIFI	Support
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Capture Snapshot Support Record Video Support on-board video / image recording GPS Support Battery Type Lithium Battery Battery Operating Time Wi-Fi hot spot function off) Battery Capacity Display Support Power Sv DC/2A, 2W Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		Digital Zoom	2×
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GPS Support Battery Type Battery Operating Time Supply Battery Capacity Display Power Battery Capacity Display Power Support Power Power Power SV DC/2A, 2W Working Temperature Protection level Drop Test Height Power Support Support For (-22 °F to 131 °F) Protection level Drop Test Height Protection level Drop Test Height		Capture Snapshot	Support
Power Supply Battery Operating Time Up to five hours continuous running (with GPS function and Wi-Fi hot spot function off) Battery Capacity Display Support Power 5V DC/2A, 2W Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		Record Video	Support on-board video / image recording
Power Supply Battery Operating Time		GPS	Support
Supply Battery Operating Time Wi-Fi hot spot function off) Battery Capacity Display Support Power 5V DC/2A, 2W Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		Battery Type	Lithium Battery
Power 5V DC/2A, 2W		Battery Operating Time	
Working Temperature -30 °C to 55 °C (-22 °F to 131 °F) Protection level IP67 Drop Test Height 2 m (6.56 feet)		Battery Capacity Display	Support
GeneralProtection levelIP67Drop Test Height2 m (6.56 feet)	General	Power	5V DC/2A, 2W
Drop Test Height 2 m (6.56 feet)		Working Temperature	-30 °C to 55 °C (-22 °F to 131 °F)
Drop Test Height 2 m (6.56 feet)		Protection level	IP67
Dimension (L x W x H) 185 mm × 74 mm × 66 mm (7.28 " × 2.91 " × 2.60 ")		Drop Test Height	2 m (6.56 feet)
		Dimension (L x W x H)	185 mm × 74 mm × 66 mm (7.28 " × 2.91 " × 2.60 ")
Weight 460 g (0.20 lb)		Weight	460 g (0.20 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 space-between.

Lens (focal length)	10mm	15mm	25mm	35mm	50mm	75mm
Detection range (Vehicles)	902m	1353m	2255m	3157m	4510m	6765m
Detection range (Humans)	294m	441m	735m	1029m	1471m	2206m
Recognition range (Vehicles)	225m	338m	564m	789m	1127m	1691m
Recognition range (Humans)	74m	110m	184m	257m	368m	551m
Identification range (Vehicles)	113m	169m	282m	395m	564m	846m
Identification range (Humans)	37m	55m	92m	129m	184m	276m

Order Models

DS-2TS03-25UM/W

Dimensions

