

DHI-TPC-M40 Thermal Monocular Camera



Series Overview

M40 captures sharp thermal imaging at a fast framerate for smooth, impeccable vision on running targets and from moving vehicles. Designed to increase situatonal awareness at any tme of day, M40 can detect humans, animals, and objects in complete darkness, haze, or through glaring light, equipping law enforcement professionals, hunters, and outdoor enthusiasts with reliable thermal imaging in tough conditons.

Functions

Advanced Image Processing

Designed to be precise, this thermal camera produces vivid video images through its enhanced detector and Dahua-developed image processing algorithm.

Video Ranging

With its hassle-free distance measurement feature, simply mark the top and bottom of a target on the screen, and the interface will automatically display the distance of the target from the monocular.

Fire Detection

Fire detection is now available for the first time with this monocular through Dahua's core technology. The monocular can automatically detect fires that break out in the scene and track them in real time.

Simultaneous Multi-user Connections

Multiple phones can connect to the monocular through the Wi-Fi at the same time. Through the mobile phone, you can watch the live view, capture images, record videos and configure parameters.

Diopter Adjustment

By adjusting the diopter adjustment knob, the thermal camera can be set to match the eyesight of different users, ensuring that each user sees a clear image.

- Vanadium oxide uncooled focal plane detector.
- Ultra-low power consumption.
- Fire detection and alarm.
- Connects to the mobile app through Wi-Fi.
- · Connects to the external display through the CVBS port.
- Provides a laser for aiming.
- · Calculates distance using video analysis.
- Lightweight and portable.
- IP67 rated.

Laser Eye Protection

The laser pointer is used to indicate a position. To protect the eyes from being injured, the laser pointer is automatically disabled after 10 s.

Portable and Low Power Consumption

With its small and lightweight design, it functions for longer periods while remaining fully charged, making long-term outdoor use more convenient.

Scene

Widely used in outdoor scenarios for hunting, rescue, animal observation, and more.

Technical Specification

General		
Appearance	Thermal Monocular Camera	
Туре	Monitor	
Thermal		
Detector Type	Vanadium oxide uncooled focal plane detector	
Effective Pixels	400 (H) × 300 (V)	
Pixel Pitch	17 μm	
Spectral Range	8 μm-14 μm	
Sensitivity (NETD)	≤35 mK@f/1.0	
Aperture	F1.0	
Focal Length	13 mm; 19 mm; 25 mm	
Field of View	13 mm (H: 24.0°; V: 22.6°) 19 mm (H: 20.4°; V: 15.3°) 25mm (H: 15.5°; V:11.6°)	
Focus Control	Fixed-focal	

Outdoor Series | DHI-TPC-M40

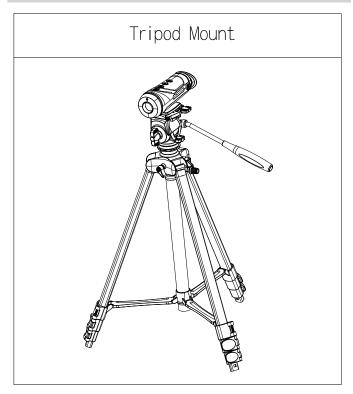
Close Focus I	Distance	13 mm 3 m (9.84 ft) 19 mm 5.8 m (19.02 ft) 25 mm 9.5 m (31.16 ft)		
Detection Range	13 mm	508 m (1,666.67 ft)		
	19 mm	650 m (2,132.55 ft)		
	25 mm	900 m (2,952.76 ft)		
Thermal Digital Zoom		4 levels		
Color Palettes		4 (white hot; alarm; black hot; iron red)		
Display				
Video Compression		H.265		
Frame Rate		50 Hz		
Display Scree	en Dimensions	0.4 inch		
Resolution		1280 (H) × 960(V)		
Function				
Storage		Micro SD card (Max. 256 G)		
Laser Aiming		180 m (590.55 ft), Class 2 (IEC 60825-1)		
Buzzer		Yes		
Intelligend	ce			
Fire Detectio	n	Yes		
Cold/Hot Spot Trace		Yes		
Port				
Analog Outp	ut	1 × CVBS output		
Wi-Fi Hotspot		Yes		
USB		Micro USB		
Power				
Power Supply	ý	5 VDC, 0.5 A or built–in battery		
Battery Capa	city Display	Yes		
Power Consu	Imption	<2.2 W		
Battery Life		>5 h (Wi-Fi hotspot off, @25°C)		
Charging Tim	e	<3 h		
Environment				
Operating Te	mperature	-20 °C to +55 °C (-4 °F to +131 °F)		
Operating Hu	umidity	≤90%		
Storage Temp	Storage Temperature -20 °C to +60 °C (-4 °F to +140 °F)			
Physical Characteristics				
Protection		IP67		
Product Dime	ensions	187.5 mm × 66.5 mm × 68.5 mm (7.38" × 2.61" × 2.69") (L × W × H)		

Packaging Dimensions	228 mm × 186 mm × 124 mm (8.97" × 7.32" × 4.88") (L × W × H)	
Net Weight	450 g (0.99 lb)	
Gross Weight	1.1 kg (2.42 lb)	
Installation	Handheld; tripod	
Power Adapter	Included	
Lens	Included	
Bracket	Optional	
Drop Test Height	2 m (6.56 ft)	

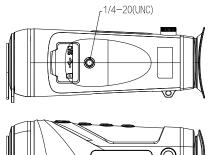
Ordering	Information
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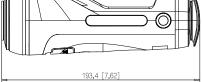
Туре	Model	Description
Thermal Monocular Camera	DHI-TPC-M40-B13-Y	Lens: 13 mm; Color: Yellow
	DHI-TPC-M40-B19-Y	Lens: 19 mm; Color: Yellow
	DHI-TPC-M40-B25-Y	Lens: 25 mm; Color: Yellow
	DHI-TPC-M40-B13-G	Lens: 13 mm; Color: Black
	DHI-TPC-M40-B19-G	Lens: 19 mm; Color: Black
	DHI-TPC-M40-B25-G	Lens: 25 mm; Color: Black

Installation



Dimensions (mm[inch])







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