

DHI-HY-FT443MF

Flame Detection Bullet Network Camera



- · Supports fire spot detection, cold and hot spot tracking and industrial temperature measurement
- · Al functions: smoke and fire detection, smoking detection and perimeter protection
- · 5 Megapixel progressive scan CMOS
- · Supports IP passlist and blocklist, MAC passlist and blocklist
- · Built-in infrared illuminator and white light, with a maximum illumination distance of 50 meters
- · Supports DC12V-24V/POE power supply
- · IP67 rated

System Overview

The DHI-HY-FT443MF Flame Detection Bullet Network Camera is an intelligent thermal imaging product developed specifically to meet the needs of the fire protection industry. It can be applied in both indoor and outdoor fire protection scenarios, fulfilling the requirements for integrated security and fire protection. The main functions it supports include: real-time temperature measurement, fire early warning, cold and hot spot alerts, temperature alarms, smoke and fire detection, smoking detection, and perimeter alarms.

Scene

It is applicable to a wide range of settings with fire emergency plan needs, such as schools, stadiums, airports, factories and warehouses.

Functions

Firefighting Thermal Imaging

Support real-time temperature measurement, fire early warning, cold/hot spot alerts, and temperature alarms.

Offer adjustable 25 pseudo-color modes including Iron Red, Hot Iron, Medical, Arctic, Black Hot, Human Body Screening, Red Trace, Blue Hot, and Green Hot.

Intelligent Detection

Support smart functions such as smoke and fire detection, smoking detection, and perimeter alarm.

Intelligent Encoding (H.265+ & H.264+)

Dahua's intelligent encoding technology employs advanced scene-adaptive bitrate control algorithms to achieve higher encoding efficiency than (H.265 & H.264). It provides high-quality video while significantly reducing storage and transmission costs.

Audible and Visual Warning

Support alarm event linkage for light warning and sound warning (with multiple built-in voice options and support for user-defined voice import), achieving deterrence during the event and effective intervention.

Remote Intercom

The device is equipped with a built-in microphone (MIC) and speaker, enabling remote intercommunication through the platform and APP.

Alarm Output

The device is equipped with built-in alarm input and output interfaces, enabling linkage output.

Technical Specification		Image Flip	Norma
General		Exposure Compensation	Yes
Appearance	Bullet sharp Industrial temperature monitoring	Visible Focus Control	Fixed-focal
Thermal		Focal Length	4 mm (0.16"
Detector Type	Vanadium oxide uncooled focal plane detector	Close Focus Distance	4 mm (0.16")
Effective Pixels	256 (H) × 192 (V)		6 mm (0.24"):
Pixel Pitch	12 µm	Aperture	F1.6
Spectral Range	8 μm–14 μm	Illuminator Type	Infrared
Sensitivity (NETD)	≤50mK@f/1,300K,30Hz	Illuminator On/Off Control	Auto; Manual
Focal Length	3 mm (0.12"), 7 mm (0.28")	Illumination Distance	50 m (160.04 ft
Field of View	3 mm (0.12"): H: 57°; V: 44°; D: 70°	Audio and Video	
ICIA OI VICW	7 mm (0.28"): H: 24°; V: 18°; D: 30°	Video Compression	H.265; H.264; H.
Close Focus Distance	3 mm (0.12"): 0.4 m (1.31 ft) 7 mm (0.28"): 1.3 m (4.27 ft)	Resolution	Main Stream: 51 1080P (1920×10 × 720)
perture	F1.1	Supported Resolutions Sub	D1 (704x576)/V
lame Detection Distance	3 mm: 35 m (114.83 ft) 7 mm: 85 m (278.87 ft)	Video Frame Rate	1fps~25fps adju
Detectable Fire Spot Size	20 cm x 20 cm (7.87" × 7.87")	Audio Compression	MPEG2-Layer2; (
hermal Noise Reduction	3D NR	Image Encoding Format	JPEG
emperature Monitoring vistance	3 mm: 0.5 m-2.5 m (1.64 ft-8.20 ft) 7 mm: 1 m-8 m (3.28 ft-26.25 ft)	Audio Sampling	8K; 16K
emperature Monitoring	-10°C to +500°C (+14°F to 932°F)	Function	
emperature Monitoring	MAX (±5°C, ±5%)	Built-in MIC	Yes
'isible		Built-in Speaker	Yes
nage Sensor	1/2.7" CMOS	Sound and Light Alarm	Yes
ax. Resolution	2592(H)×1944(V)	Indicator	Status for Fault,
xel	5 MP		HTTPS; HTTP; T RTCP; SMTP; FT
	Color: 0.00056 lux	Network Protocol	Internet Protoco
Min. Illumination	B/W: 0.00064 lux 0 lux (IR on)	Privacy Masking	Yes (4 areas)
sible AGC	Auto; Manual	Storage	FTP; NAS; SFTP
isible Noise Reduction	2D NR; 3D NR	Interoperability	ONVIF; CGI; Dahu
5/N Ratio	≥ 45 dB		IE: IE 9 and later
Field of View	4 mm: H: 87°; V: 56°; D: 95° 6 mm: H: 51°; V: 31°; D: 59°	Browser	Chrome: 42 and earlier Firefox: 42 and earlier
Electronic Shutter Speed	1 s to 1/30000 s (manual/auto)	User/Host	Up to 10 (total b
Strong Light Suppression	Yes	Default	Support one-clic
SLC	Yes	Error Detection	Network Discon
WDR	DWDR	Security	Username and p IEEE802.1x; netv
White Balance	Automatic/Indoor/Outdoor/Tracking/Manual/Daylight/ Streetlights	User Management	Supports up to 10 user permission r levels: manageme
Day/Night	Auto (ICR)	Maximum Supported Micro	
Iris Control	Fixed	SD Card	256 GB

Intelligence

Temperature Alarm	Temperature alarm (temperature, temperature difference, temperature rise), real-time temperature monitoring	
Max. Temperature Detection Distance	3 mm: 50 m (164.04 ft) 7 mm: 100 m (328.08 ft)	
Cold/Hot Spot Tracking	Supports auto-tracking of the hottest spot	
Intelligent Alarm	Smoke and Heat, perimeter function, smoke	

Port

Network Port	1 RJ-45 Port, supports 10M/100M/1000M
Alarm Input	3-way wet node, supports DC3V-5V, 5mA
Alarm Output	2-way (dry contact, supports Max DC30V, 1A current/maximum for AC50V potential, 0.5A current
Audio Input	1 channel (RCA connector)
Audio Output	1 channel (RCA connector)
Alarm Linkage	Trigger switch Output / Email / Snapshot

Power

Operating Voltage	DC12-24V (±30%); POE (802.3af)	
Power Supply	DC12V-24V/POE	
Power Consumption	Basic: 4.2W (DC12V); Max.: 13.1W (DC12V)	

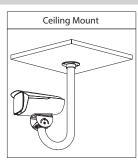
Environment

Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤ 95%

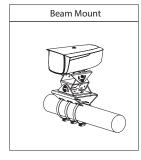
Construction

Protection	IP67
Installation	Wall mount; Ceiling mount; Pole mount
Power Adapter	Optional

Installation

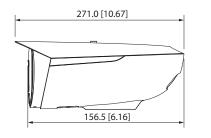


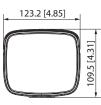


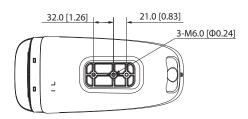




Dimensions (mm[inch])







Accessories

Optional:







PFA150 Pole Mount Bracket



PFB603C Ceiling Mount Bracket



PFB605W Wall Mount Bracket



PFM320D Power Adapter

Ordering Information				
Туре	Model	Description		
Flame Detection Bullet Network Camera	DHI-HYFT443MFP-TD3F4	Thermal: 256 × 192 3 mm lens Visible: 5 MP 4 mm lens		
	DHI-HYFT443MFP-TD7F6	Thermal: 256 × 192 7 mm lens Visible: 5 MP 6 mm lens		
Accessories (optional)	PFM300	Power Adapter		
	PFA150	Pole Mount Bracket		
	PFB603C	Ceiling Mount Bracket		
	PFB605W	Wall Mount Bracket		
	PFM320D	Power Adapter		