

DHI-HY-FT431LFP

Flame Detection Network Camera



SK C€

System Overview

Together with Visible and Thermal technology, this flame detection network camera provides an all-in-one solution for video surveillance. This camera has the ability to detect flame from long range, supports cold and hot spot alarm function and industrial temperature measurement alarm functions, enables flame tracking and positioning, and provides intelligent visual and audible warning. Featuring remote intercom and alarm input/output functionality, it realizes convenient linkage.

Functions

Flame Detection

Integrating thermal and video surveillance, detect flame based on abnormal temperature and conform details through the camera.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Sound and LED Indication

Supports the light alarm and voice alarm when flame is detected, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

Remote Intercom

Built-in MIC and speaker enable remote intercom between software platform and App.

Alarm Output

Built-in alarm input and output port to realize linkage output.

- \cdot Industry leading uncooled VOx focal plane detector with high sensitivity
- · Supports fire detection alarm, cold and hot spot alarm, and industrial temperature measurement alarm functions
- · Supports sound and LED indication, and supports binocular fusion
- · Visible light adopts a 4MP 1/2.7 inch CMOS image sensor, which has good low illumination effect and high image clarity
- · Support IP whitelist and blacklist, MAC whitelist and blacklist, multilevel user management, humanized monitoring, confidentiality, and permission management
- · Supports H.265 encoding with high compression ratio, achieving ultralow bitstream transmission
- · Supports 1-way alarm input and 1-way alarm output functions, sup ports max. 256 G Micro SD card
- \cdot Built in MIC and high volume speakers, high decibel alarm sound 70dB $\geq 1m$ (A-weighted)
- · Built in high-efficiency infrared fill light, with a maximum infrared monitoring distance of 25 meters
- \cdot Supports DC12V/POE power supply mode for easy engineering instal lation
- · Supports IP67 protection level

Scene

This device is applicable to most places where both fire alarm and video surveillance are needed, such as:

- ·Community
- ·Shopping mall
- ·Warehouse
- ·Libraries and archive rooms
- ·Garbage rooms

Technical Specification		Electronic Shutter Speed	1/3 s-1/100000 s (manual/auto)
General		BLC	Yes
Appearance	Bullet	WDR	DWDR
Туре	Radiometry	HLC	Yes
Thermal		Day/Night	Auto (ICR); Color and B/W
Detector Type	Vanadium oxide uncooled focal plane detector	Iris Control	Fixed
Effective Pixels	120 (H) × 90 (V)	Image Flip	Normal (0 °), corridor mode (90 °/270 °), Mirror/Flip (180 °)
Pixel Pitch	17 μm	Exposure Compensation	Yes
Spectral Range	8 μm-14 μm	Visible Focus Control	Fixed-focal
Sensitivity (NETD)	< 60mK (@f/1.0, 300K)	Focal Length	4 mm
Focal Length	1.2 mm		H: 85°
Field of View	Horizontal: 90° Vertical: 67.5°	Field of View	V: 44° D: 99°
Thermal Focus Control	Fixed-focal	Close Focus Distance	1 m (3.28 ft)
Close Focus Distance	0.5 m (1.65 ft)	Aperture	F1.6
Aperture	F1.1	Illuminator Type	2 (IR LED)
Flame Detection Distance	10 m, flame size of 10 cm x 10 cm	Illuminator On/Off Control	Auto; Manual
Thermal Noise Reduction	3D NR	Illumination Distance	25 m (80.35 ft)
Image Flip	Normal, corridor mode, reflection	Audio and Video	
Color Palettes	Supports 12 adjustable pseudo colors including White Heat, Lava, Iron Red, Hot Iron, Medical, Arctic, Rainbow, Black Heat, Human Screening, Red Paint, Blue Heat, and Green Heat	Video Compression	H.265; H.264; H.264H; H.264B; MJPEG Visible: Main stream: (4M (2688×1520)/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720), default
Temperature Measurement Range	-10°C to +200°C (+14°F to 392°F)	Resolution	(1920 × 1080) Sub stream: (D1 (704 × 576)/VGA (640x480)/CIF (352x288)), default (704x576)
Temperature Measurement Accuracy	MAX ($\pm 5^{\circ}$ C, $\pm 5\%$) 1. Support real-time point temperature measurement	Video Frame Rate	Visible: Main stream: 1 fps–25 fps adjustable, 25 fps by default Sub stream: 1 fps–25 fps adjustable, 25 fps by default
Temperature Measurement	function 2. There are three rules for measuring temperature simultaneously: points, lines, and polygons	Audio Compression	MPEG2-Layer2; G.711a; G.711mu; AAC; PCM; G.722.1; G.726
Mode	Supports temperature alarm function Supports cold and hot spot alarm function	Image Encoding Format	JPEG
	5. The temperature measurement unit is Fahrenheit and Celsius, which can be set	Audio Sampling	8K; 16K
Visible		Function	
Image Sensor	1/2.7" CMOS	Built-in MIC	Yes
Max. Resolution	2688(H)×1520(V)	Built-in Speaker	Yes
Pixel	4 MP	Sound and Light Alarm	Yes
Scanning System	Progressive Color 0.0052 http://	Network Protocol	HTTPS; HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Min. Illumination	Color: 0.0052 lux B/W: 0.0028 lux 0 lux (IR on)	Privacy Masking	Yes (4 areas)
Visible AGC	Auto; Manual	Storage	FTP; NAS; SFTP
Visible Noise Reduction	2D NR; 3D NR	Interoperability	ONVIF; CGI; Wisualarm
S/N Ratio	≥ 55 dB	Browser	IE: IE 9 and later (Edge is not supported) Chrome: 42 and earlier Firefox: 42 and earlier
	Auto/indoor/outdoor/track/manual/natural/street		

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Default	Support one-click restore
Security	Username and password; MAC address; HTTPS; IEEE802.1x; network access control
User Management	Up to 10 users
Malfunction Detection	ICON network disconnection detection; IP conflict detection
Intelligence	

Heat Detection	Yes
Heat Detection Distance (recommend)	10 m (32.81 ft)

Port

Network Port	1 RJ-45 PoE 10M/100M Ethernet ports
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Alarm Linkage	Trigger switch output/email/snapshot

Power

Power Supply	DC12V(±30%)/POE
Power Consumption	Basic: 1.8 W Max.: 5.16 W

Environment

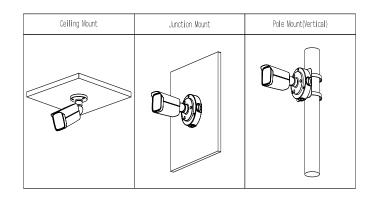
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤ 95%

Construction

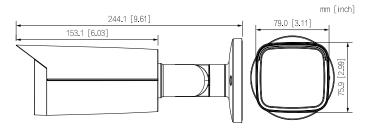
Protection	IP67
Product Dimensions	244.1 mm×79.0 mm×75.9 mm (9.61" × 3.11" ×2.99")
Packaging Dimensions	307.0 mm×155.0 mm×143.0 mm (12.09" × 6.10" × 5.63")(L × W × H)
Net Weight	0.8 kg (1.77 lb)
Gross Weight	1.1kg (2.43 lb)
Installation	Wall mount; Ceiling mount; Vertical pole mount
Power Adapter	Optional
Lens	Standard
Certifications	CE; UKCA

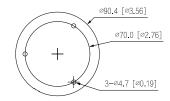
Ordering Information		
Туре	Part Number	Description
Flame Detection Network Camera	DHI-HY-FT431LFP-TD1F4	Flame Detection Network Camera
Accessories (optional)	PFM321D	12 VDC 1A Power Adapter
	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
	DHI-TF-P100	Dahua micro SD Card P100 256GB

Installation



Dimensions (mm[inch])





Accessories

Optional:







PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket DHI-TF-P100 Micro SD Card P100 256GB



PFM321D 12 VDC 1A Power Adapter