

DHI-HY-FT431LDP

Flame Detection Network Camera



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 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.

Visible and Audible Alarm Notification

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.

Flame Tracking

Identifying and positioning flame.

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.

- · Industry leading uncooled VOx focal plane detector with high sensitivity
- · Supports fire detection alarm, cold and hot spot alarm, and industrial temperature detection alarm functions
- · Supports sound and light alarm linkage, 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 multi-level user management, humanized monitoring, confi dentiality, 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, convenient linkage
- Built in MIC and high volume speakers, high decibel alarm sound 70dB
 ≥ 1m (A-weighted)
- Built in high-efficiency infrared fill light, with a maximum infrared monitoring distance of 15 meters
- · Support DC12V/POE power supply mode for easy engineering installation
- · Supports IP66 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

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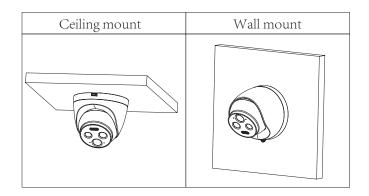
Technical Specification		BL
General		W
Appearance	Eyeball	HL
Туре	Radiometry	Da
Thermal		Iris
Detector Type	Vanadium oxide uncooled focal plane detector	Im
Effective Pixels	120 (H) × 90 (V)	
Pixel Pitch	17 μm	Ex
Spectral Range	8 μm–14 μm	Vis
Sensitivity (NETD)	< 60mK (@f/1.0, 300K)	Fo
Focal Length	1.2 mm	Fie
Field of View	Horizontal: 90° Vertical: 67.5°	Clo
Thermal Focus Control	Fixed-focal	Ap
Close Focus Distance	0.5 m (1.65 ft)	Illu
Aperture	F1.1	Illu
Flame Detection Distance	10m, flame size of 10 cm x 10 cm	Illu
Thermal Noise Reduction	3D NR	A
Image Flip	Normal, corridor mode, reflection	Vic
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	Re
Temperature Detection Range	-10°C to +200°C (+14°F to 392°F)	
Temperature Detection Accuracy	MAX (±5°C, ±5%)	Vic
Temperature Detection Mode	 Support real-time point temperature detection function There are three rules for detecting temperature simultaneously: points, lines, and polygons Supports temperature alarm function Supports cold and hot spot alarm function The temperature detection unit is Fahrenheit and Celsius, which can be set 	Au Im Au Fu
Visible		Bu
Image Sensor	1/2.7" CMOS	Bu
Max. Resolution	2688(H)×1520(V)	So
Pixel	4 MP	
Scanning System	Progressive	Ne
Min. Illumination	Color: 0.0052 lux B/W: 0.0028 lux 0 lux (IR on)	Pri Sto
Visible AGC	Auto; Manual	Int
Visible Noise Reduction	2D NR; 3D NR	
S/N Ratio	≥ 55 dB	Bro
White Balance	Auto/indoor/outdoor/track/manual/natural/street lamp	Us
Electronic Shutter Speed	1/3 s–1/100000 s (manual/auto)	De

BLC	Yes
WDR	DWDR
HLC	Yes
Day/Night	Auto (ICR); Color and B/W
Iris Control	Fixed
Image Flip	Normal (0 °), corridor mode (90 °/270 °), Mirror/Flip (180 °)
Exposure Compensation	Yes
Visible Focus Control	Fixed-focal
Focal Length	4 mm
Field of View	H: 85° V: 44° D: 99°
Close Focus Distance	1 m (3.28 ft)
Aperture	F1.6
Illuminator Type	1 (IR LED)
Illuminator On/Off Control	Auto; Manual
Illumination Distance	15 m (49.21 ft)
Audio and Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG
Resolution	Visible: Main stream: (4M (2688×1520)/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720), default (1920 × 1080) Sub stream: (D1 (704 × 576)/VGA (640x480)/CIF (352x288)), default (704x576)
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
Audio Compression	MPEG2-Layer2; G.711a; G.711mu; AAC; PCM; G.722.1; G.726
Image Encoding Format	JPEG
Audio Sampling	8K; 16K
Function	
Built-in MIC	Yes
Built-in Speaker	Yes
Sound and Light Alarm	Yes
Network Protocol	HTTPS; HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Privacy Masking	Yes (4 areas)
Storage	FTP; NAS; SFTP
Interoperability	ONVIF; GB/T28181; CGI; Imou
Browser	IE: IE 9 and later (Edge is not supported) Chrome: 42 and earlier Firefox: 42 and earlier
User/Host	Up to 10 (total bandwidth: 100 MB)
Default	Support one-click restore

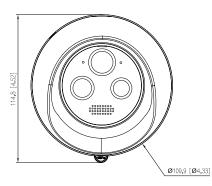
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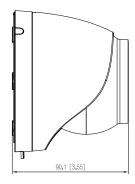
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access	
User Management	Up to 10 users	
Malfunction Detection	ICON network disconnection detection; IP conflict detection	
Intelligence		
Heat Detection	Yes	
Heat Detection Distance (recommend)	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.: 3 W	
Environment		
Operating Temperature	-10°C to +55°C (+14°F to +131°F)	
Operating Humidity	≤ 95%	
Storage Temperature	-20°C to +70°C (-4°F to +158°F)	
Construction		
Protection	IP66	
Product Dimensions	φ109.9 mm × 90.1 mm (φ4.32" × 3.54")	
Packaging Dimensions	157 mm*157 mm*138 mm (6.17" × 6.17" × 5.43")(L × W × H)	
Net Weight	0.35 kg (0.78 lb)	
Gross Weight	0.5 kg (1.12 lb)	
Installation	Wall mount; Ceiling mount; Vertical pole mount	
Power Adapter	Optional	
Lens	Standard	
Certifications	CE; FCC	

Installation



Dimensions (mm[inch])





Ordering Information				
Туре	Part Number	Description		
Flame Detection Network Camera	DHI-HY-FT431LDP	Flame Detection Network Camera		
Accessories (optional)	РҒМ300-Е	DC Adapter		
	PFM301-E	Power		
	DH-PFB205W-E	Wall mounted bracket		

Accessories

Optional:





PFM300-E DC Adapter PFM301-E Power

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