WISUALARM

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

Smart H.265+ & Smart H.264+

Visible and Audible Alarm Notiﬁcation

Flame Tracking

Remote Intercom

Alarm Output

Scene

DHI-HY-FT431LDP-MB

Flame Detection Network Camera

Technical Specification

General

Appearance	Eyeball
Type	Radiometry

Thermal

Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	120 (H) × 90 (V)
Pixel Pitch	17 μm
Spectral Range	8 μm–14 μm
Sensitivity (NETD)	< 60mK (@f/1.0, 300K)
Focal Length	1.2 mm
Field of View	Horizontal: 90° Vertical: 67.5°
Thermal Focus Control	Fixed-focal
Close Focus Distance	0.5 m (1.65 ft)
Aperture	F1.1
Flame Detection Distance	10m, flame size of 10 cm x 10 cm
Thermal Noise Reduction	3D NR
Image Flip	Normal, corridor mode, reflection
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
Temperature Detection Range	-10°C to +200°C (+14°F to 392°F)
Temperature Detection Accuracy	MAX (±5°C, ±5%)
Temperature Detection Mode	1. Support real-time point temperature detection function 2. There are three rules for detecting temperature simultaneously: points, lines, and polygons 3. Supports temperature alarm function 4. Supports cold and hot spot alarm function 5. The temperature detection unit is Fahrenheit and Celsius, which can be set

Visible

Image Sensor	1/2.7" CMOS
Max. Resolution	2688(H)×1520(V)
Pixel	4 MP
Scanning System	Progressive
Min. Illumination	Color: 0.0052 lux B/W: 0.0028 lux 0 lux (IR on)
Visible AGC	Auto; Manual
Visible Noise Reduction	2D NR; 3D NR
S/N Ratio	≥ 55 dB
White Balance	Auto/indoor/outdoor/track/manual/natural/street lamp
Electronic Shutter Speed	1/3 s–1/100000 s (manual/auto)
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)

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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
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

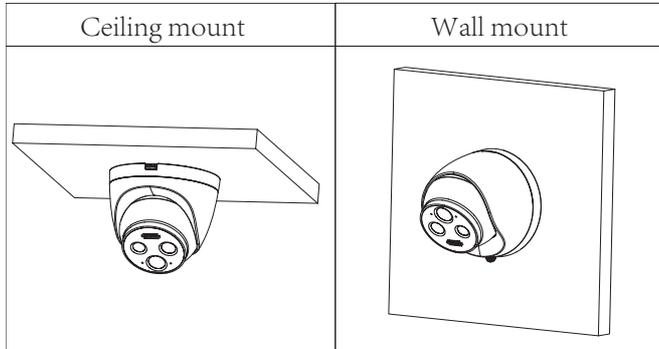|	
Operating Temperature	–10°C to +55°C (+14°F to +131°F)
Operating Humidity	≤ 95%
Storage Temperature	–20°C to +70°C (–4°F to +158°F)

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

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DHI-HY-FT431LDP-MB

Flame Detection Network Camera

Installation

Ceiling mount	Wall mount

Ordering Information

Type	Model	Description
Flame Detection Network Camera	DHI-HY-FT431LDP-MB	Flame Detection Network Camera
Accessories (optional)	PFM300-E	DC Adapter
	PFM301-E	Power
	DH-PFB205W-E	Wall mounted bracket

Dimensions (mm[inch])

114.8 [4.52]

Ø109.9 [Ø4.33]

90.1 [3.55]

Accessories

Optional:

PFM300-E
DC Adapter

PFM301-E
Power

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