

# DHI-HY-FT121LD

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.

#### 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

- · Uncooled VOx thermal sensor technology
- $\cdot$  Flame detection with adjustable and high sensitivity
- $\cdot$  Support GB/T 28182 and ONVIF, convenient for integration
- $\cdot$  WDR, 3D NR, applicable to various monitoring scenes
- $\cdot$  Support tracking flame position
- $\cdot$  Flame detection with adjustable sensitivity
- $\cdot$  Strobe light & audio and remote intercom
- · Built-in 1/1 alarm in/out, flexible alarm linkage
- IP66, PoE
- $\cdot$  Built-in alarm voices, and user can import custom voices
- $\cdot$  2MP 1/2.7" CMOS image sensor, low luminance, and high definition image
- · 12V DC/PoE power supply
- · Built-in IR light; the max. IR LEDs Length is 15 m (49.21 ft)

#### Functions

#### Uncooled VOx Technology

Dahua flame detection cameras use uncooled VOx sensor technology. The detector is small-sized, and highly sensitive allowing the camera to detect the flame on a monitored site.

#### **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.



# DHI-HY-FT121LD

Technical Specification		Illuminator Angle	100°	
Thermal		Audio and Video	Audio and Video	
Detector Type	Vanadium oxide uncooled focal plane detector	Video Compression	H.265; H.264; H.264H; H.264B; MJPEG	
Effective Pixels	120 (H) × 90 (V)		Visible: Main stream: 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); 1920×1080 by default Sub stream: 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288); 352 × 288 by default	
Pixel Pitch	17 µm	Resolution		
Spectral Range	8 μm–14 μm		Visible:	
Sensitivity (NETD)	< 60mK@f/1.0	Video Frame Rate	Main stream: 1 fps–25 fps adjustable, 25 fps by default Sub stream: 1 fps–25 fps adjustable, 15 fps by default	
Focal Length	1.2 mm	Audio Compression	G.711a; G.711mu; AAC; PCM	
Field of View	Horizontal: 90° Vertical: 67.5°	Image Encoding Format	JPEG	
Thermal Focus Control	Fixed-focal	Function		
Field of Depth	> 3 cm	Two-way Audio	Yes	
Aperture	F1.1	Visible and Audible Alarm	Yes	
Flame Detection Distance	10 m: 10 cm × 10 cm	Network Protocol	HTTPS; HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP	
Visible		Interoperability	ONVIF; GB/T28181; CGI; Dahua SDK	
Image Sensor Max. Resolution	1/2.7" CMOS 1920 (H) × 1080 (V)	Browser	IE: IE 9 and later (Edge is not supported) Chrome: 42 and earlier	
Pixel	2 MP	lisse the set	Firefox: 42 and earlier	
Min. Illumination	Color: 0.05 lux B/W: 0.005 lux O lux (IR on)	User/Host Security	Up to 10 (total bandwidth: 100 MB) Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access	
Visible AGC	Auto; Manual		Up to 10 users; supports multi-level user permissions	
Visible Noise Reduction	2D NR; 3D NR	User Management	(2 levels): management group and user group	
S/N Ratio	≥ 55 dB	Malfunction Detection	Network disconnection detection; IP conflict detection	
Electronic Shutter Speed	1 s–1/30,000 s (manual/auto)	Intelligence		
BLC	Yes	Flame Detection	Yes	
WDR	DWDR	Cold/Hot Spot Trace	Yes	
HLC	Yes	Port		
Day/Night	Auto (ICR); Color and B/W	Network Port	1 × RJ-45 (10/100 Base-T)	
Iris Control	Fixed	Alarm Input	1 channel	
Image Flip	90°; 180°; 270°	Alarm Output	1 channel	
Exposure Compensation	Yes	Alarm Linkage	Relay output/Email/Snapshot	
Visible Focus Control	Fixed-focal	Alarm Event	Local audible and visual alarm notification	
Focal Length	4 mm	Power		
Field of View	H: 86° V: 46° D: 101°	Power Supply	12 VDC ± 20%; PoE	
		Power Consumption	Basic: 4.5 W (12 VDC, LED off) Max.: 10.1 W (12 VDC, LED on, heat on)	
Close Focus Distance	1 m (3.28 ft)	Environment		
Aperture	F1.6	Operating Temperature	-20°C to +60°C (-4°F to +140°F)	
Illuminator	IR	Operating Humidity	≤ 95%	
Illuminator On/Off Control	Auto; Manual	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	
Illumination Distance	15 m (49.21 ft)			

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#### Construction

Protection	IP66, anti-surge 2 kV; anti-elctrostatic 6 kV (touched by objects); anti-elctrostatic 8 kV (air)
Product Dimensions	φ110mm × 88.6mm (φ4.33" × 3.49")
Net Weight	≤ 0.85 kg (1.87 lb)
Gross Weight	≤ 1 kg (2.20 lb)
Installation	Ceiling mount
Power	Optional
Lens	Included
Bracket	Junction mount: PFA130-E

## Installation



# **Ordering Information**

Туре	Part Number	Description
Flame Detection	DHI-HY-FT121LDP	Flame Detection Network Camera with PAL standard
Network Camera	DHI-HY-FT121LDN	Flame Detection Network Camera with NTSC standard
Accessories	PFM300-E	DC Adapter
(optional)	PFM301-E	Power

# Dimensions (mm[inch])





#### Accessories

### Optional:



PFM300-E DC Adapter



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