



**HF-VT344
Fire Detection Camera**

Quick Start Guide

Product Information

Read all information and instructions in this document carefully before using the device and keep it for further reference.
For more device information and instructions, please visit our website at <https://www.hikvision.com>. You can also refer to other documents (if any) accompanying the device or scan the QR code (if any) on the packaging to get more information.

About this Document
• This Document includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only.
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- CAUTION:** Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
 - Do not dispose of the battery into a fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
 - Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
 - Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
 - Dispose of used batteries according to the instructions.

English

Diagram Reference

1 Cautions

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Correctly install and maintain the camera. Although camera can help save lives by providing an early warning of a fire, they are not a substitute for an insurance policy. Home owners should have adequate insurance to protect their lives and properties.
- The camera is only suitable for safe use in areas below 2000 m above sea level and under non tropical conditions.
- The camera has multiple power supplies. Please disconnect all power supplies during maintenance.
- According to relevant national standards, when supplying power to weak current equipment, the power supply current shall not exceed 8 A and the power shall not exceed 100 W to prevent safety accidents.
- If it is necessary to use it in special environment (such as peak, iron tower, forest, etc.), please add lightning arrester at the equipment inlet.
- Do not aim the lens at strong light (such as light illumination, sunlight or laser beam, etc.), otherwise the image sensor will be damaged.
- Do not touch the image sensor directly. If it is necessary to clean it, please slightly wet the soft and clean cloth with alcohol and gently wipe away the dust; When the product is not used, please add the dust cover to protect the image sensor.
- To ensure the normal detection of the camera, do not use hair spray, insecticide, diluent and other substances that can produce colloidal suspension near the alarm.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- The product is a camera, which can send out audible and visual alarm signals in the event of fire, but cannot extinguish fire.
- Do not be at high volume for a long time near to the ears to prevent hearing impairment.
- Keep the packing so that in case of any problem, pack the alarm in its original packing and send it to the agent or return it to the factory for disposal.
- If the camera does not work properly, contact the dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

2 Appearance

- Speaker
- MicroSD Slot
- RESET Button
- Debug UART
- Visible Camera
- Thermal Imaging Camera
- Sun Shade
- Flash
- Microphone
- Indicator

3 Interface and Wiring

A. Interface

- 4 ~ 20 mA Interface
- RS-485 Interface
- Power Input Interface
- Network Interface
- Alarm Interface
- Audio Output Interface
- Audio Input Interface

B. Wiring

- Pull off the green plug on the connector.
- Turn the micro slotted screwdriver counterclockwise to loosen the screw, place the cable and tighten the screw.
- After wiring, clip the plug into the corresponding green socket.

No.	Sign	Wiring Instruction	No.	Sign	Wiring Instruction
1	IN1	Alarm Input Device 1+	1	D-	RS-485 Signal B
3	GND	Alarm Input Device 1-	2	D+	RS-485 Signal A
2	IN2	Alarm Input Device 2+			
3	GND	Alarm Input Device 2-			
4	OUT1A	Alarm Output Device 1			
5	OUT1B	Alarm Output Device 1			
6	OUT2A	Alarm Output Device 2			
7	OUT2B	Alarm Output Device 2			

4 LED Indicator & Speaker

Device Status	LED Indicator	Speaker
Flame/Smoke Alarm	The red LED is on.	Di...Di..Di...
Normal	The green LED is on.	/
Fault	The yellow LED is on.	/
Abnormal Temperature Alarm	The red LED is on.	Di...Di..Di...
Detector is masked.	/	Di...Di..Di...
Exception	/	Di...Di..Di...

5 Installation

A. Notification

- Install the camera according to the instructions in this guide.
- To prevent injury, the camera must be securely attached to the floor/wall in accordance with the installed instructions.
- Before installation, confirm that the camera and other mounting parts in the box are in good condition.
- Do not install the camera in new or renovated buildings until all work is completed. The installation wall shall be able to bear at least 4 times the total weight of the camera and installation accessories.
- Install multiple alarms if the installation location (such as ceiling) is longer than 32.81 ft (10 meters).
- For bracket installation, please pay attention to the bearing indications on the mounting bracket.
- If it is installed on the cement wall, first install the expansion bolt and then install the bracket. If on the wooden wall, directly install bracket with tapping screws.
- Please install the waterproof tape and the mesh waterproof package according to the specifications. For the specific installation method, please refer to the user manual.
- When moving the camera, do not directly pull the cable at the tail of the camera, or it may affect the waterproof performance or cause wiring problems.

B. Mounting Locations

C. Installation Method

Note: After installation, it can be adjusted from 0 to 360 degrees horizontally, from -45 to 45 degrees vertically.

6 Features

Activate Camera

When powered on for the first time, the detector must be activated before normal use.
IP address: 192.168.1.64

- Connect the camera and the computer with network cable, and modify the computer IP address and detector IP address in the same network segment.
- Power on the detector.
- Enter 192.168.1.64 in the browser to enter the detector webpage, and create the admin password.
- Click **OK** for activation.

Configure and Operate via web

In the browser address bar, enter 192.168.1.64 and log in to the detector webpage. Please scan the QR code in the last part of this guide for detailed user manual.

Measure Temperature

It is used to measure the temperature of the site in real time. When a target triggers the configured temperature measurement rules, it will measure the temperature and give an alarm.

Reset

Press and hold reset button for 10 to 15 seconds when it is energized, all the parameters of the detector will be restored to the factory settings.

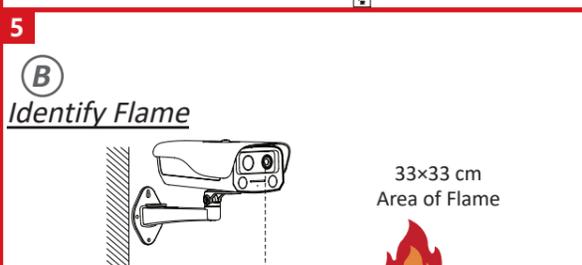
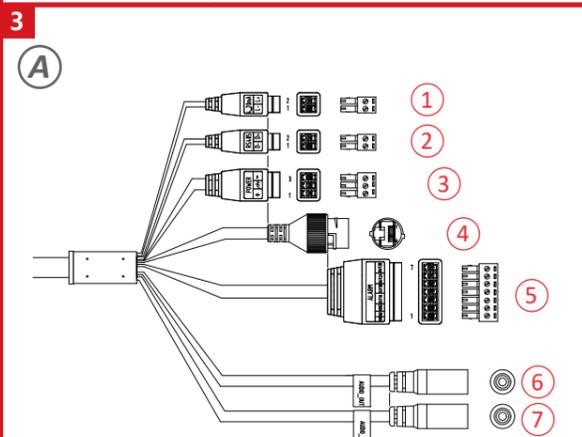
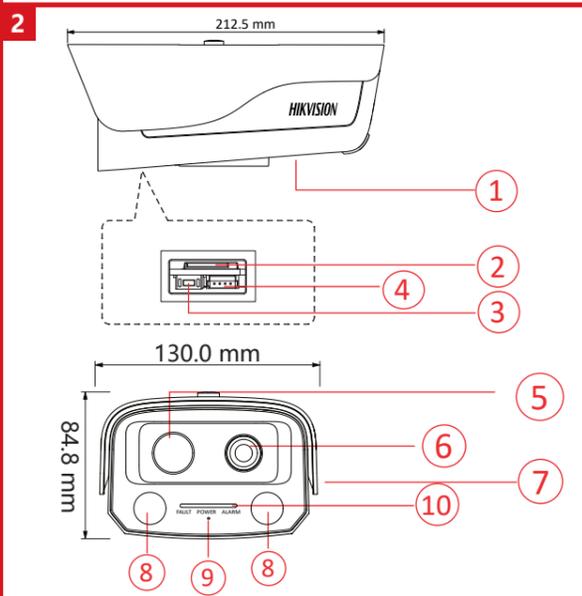
Fire/Smoke Detection

Configure and enable the smoke and fire detection function on the device's web page. When smoke or flames are detected and an alarm is triggered, the device will broadcast a voice alarm prompt and trigger the configured linkage action.

7 Specification

Camera	
Max. Image Size	2560 × 1440
Sensor Type	1/3" Progressive Scan CMOS
Main Stream	50Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Max. Resolution	Max. effective resolution: 256 × 192; Encoding resolution: 1280 × 720
Sub Stream	50Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Min. Illumination	Color: 0.01 Lux @ (F1.6, AGC ON)
Lens	Horizontal: 78.96°, Vertical: 43.17°, Diagonal: 93.31°
Image Settings	Saturation, brightness, contrast, sharpness, AGC and white balance can be adjusted through the client or browser.
WDR	WDR
Shutter	1/25 ~ 1/100,000 s
Image Enhancement	BLC, 3D DNR
Main Stream Video Compression Standard	H.265, H.264
Sub Stream Compression Standard	H.265, H.264
Video Bitrate	256 Kbps ~ 8192 Kbps
Intelligent Alarm	Intrusion detection, line crossing detection, smoke and flame detection
Protocol	TCP/IP, HTTP, HTTPS, DHCP, DNS, RTP, RTSP, RTCP, NTP, IPv4, UDP
Interface Protocol	ONVIF(PROFILE S, PROFILE G), ISAPI, EZVIZ
General	Anti flicker, heartbeat, image, password protection, video occlusion
Storage	Micro SD/SDHC/SDXC card (256 G) disconnection local storage
Exception Detection	Motion Detection, video tampering alarm, network cable disconnection, IP address conflict, invalid access, full memory, memory error
WEB Configuration	Support web preview, configuration and parameter import/export
Power Consumption	<10 W
IR Range	10 m
Accessory Type	Wall mounted support, pendent support, universal joint
Detector	
Image Sensor	Vanadium Oxide (VOx) Microbolometer
Pixel Size	12 μm
Response Waveband	8 ~ 14 μm
Focal Length of Thermal Imaging Lens	3.2 mm
Thermal Imaging Field of View	56.2° × 42.2°
Palette Mode	Support 15 modes including white hot, black hot, fusion 1, rainbow, fusion 2, iron red 1, iron red 2, etc.
Fire and Smoke Detection	Yes
Temperature Exception Detection	Yes
Temperature Measurement Range	-20 °C ~ 400 °C
Thermography Precision	Max (± 8 °C, ± 8 %), within the range of 0.4 ~ 2.5 m from the device
Noise Equivalent Temperature Difference (NETD)	≤50 mK (@25 °C, F1.0)
Temperature Sensing Mode	Support non-contact temperature sensing
High Temperature Alarm	Yes
Alarm Indicator Light	Red: Alarm Green: Normal Yellow: Fault

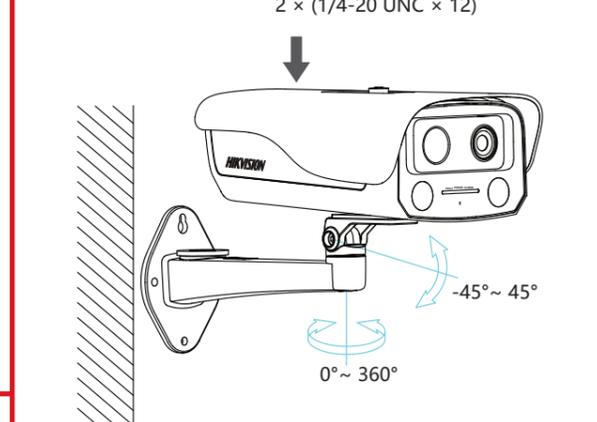
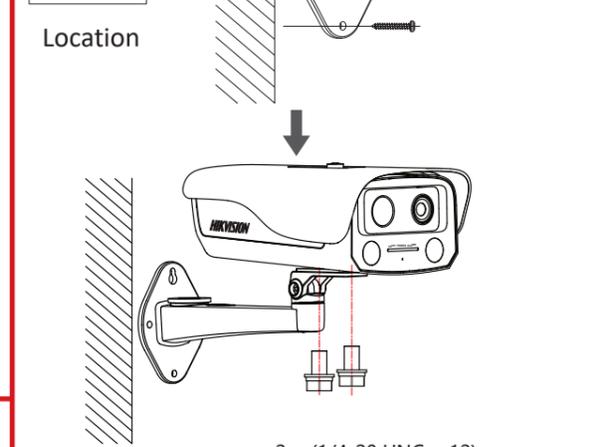
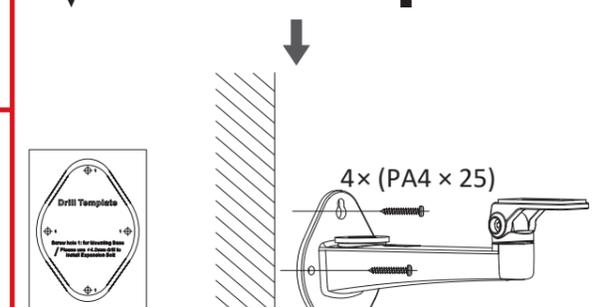
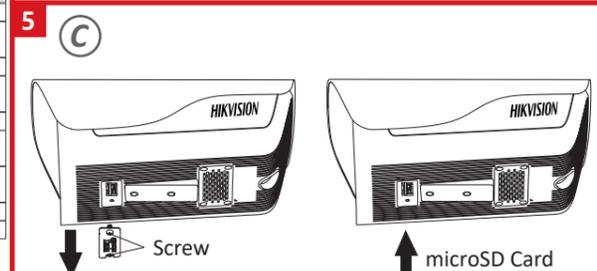
Interface	
Alarm Interface	2 way alarm input (Alarm in), 2 way alarm output (Alarm out, support DC 30 V/2 or AC 125 V/0.5 A)
Ethernet Interface	RJ45 10 M/100 M adaptive Ethernet port × 1
Audio Interface	1 way audio input (Line in), 1 way audio output (Line out), 1 way built-in microphone, 1 way built-in speaker
Professional Intelligence (Deep Learning Algorithm)	
Flame Detection	Yes
Smoke Detection	Yes
General	
Ingress Protection	IP 66
Mounting Height	Indoor: higher than 2.5 m Outdoor: higher than 3.5 m
Power Interface Type	3pin industrial terminal, spacing: 3.81
Power	DC 10V ~ DC 36V, 24W MAX; PoE: 802.3at; CLASS 4 (The power adapter is not included; you will need to configure it yourself)
Working Temperature	-20 ~ 60 °C
Working Humidity	<95% RH
Product Implementation Standard	Q/HKD 054-2024
Weight	1.4 kg (without packaging), 1.7 kg (with packaging)
Dimension (L × W × H)	212.5 × 130.0 × 84.8 mm



Identify Smoke



Occupied Area of Smoke in the Picture > 5%



Scan the QR code for user manual.

