HIKVISION



HF-VR343
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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• Please use the Document with the guidance and assistance of professionals trained in supporting the Product.

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⚠
1. CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
2. Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
3. Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
4. 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.
5. Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
6. Dispose of used batteries according to the instructions.

English

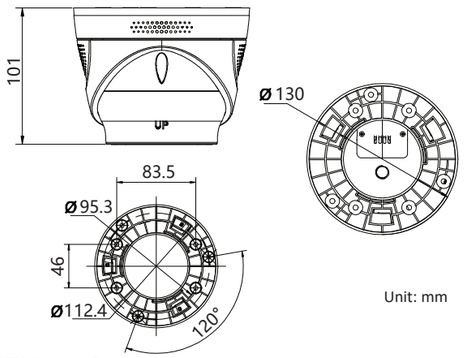
Diagram Reference

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.)

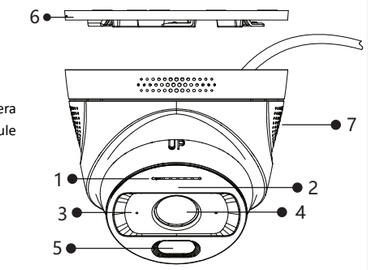
2 Appearance

Device Size



Unit: mm

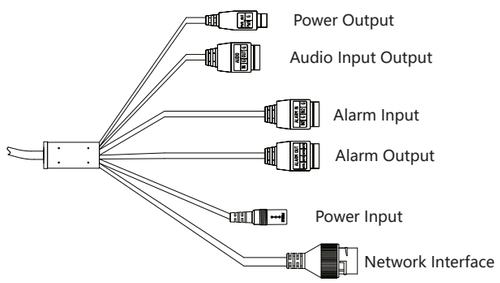
Sphere Appearance



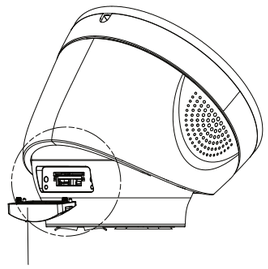
1. Indicator
2. Infrared LED
3. Microphone
4. Visible Light Camera
5. Pyroelectric Module
6. Plastic Base
7. Speaker

3 Interface & Wiring

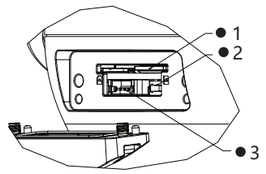
Device Interface



SD Card Interface



View Details A



Details A

1. Micro SD Card
2. Reset Button
3. Debug UART

4 Indicator

Indicator	Status
Red light always on	Alarm
Yellow light always on	Fault
Green light always on	Normal

5 Installation

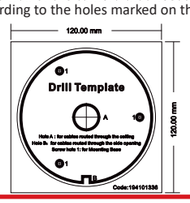
Installation Notification

• 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.

Installing Device

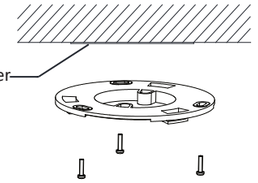
The camera can be installed using ceiling mounted, wall mounted, lifting mounted, and inclined base mounted. DS-1273ZJ-130-TRL wall mounted bracket is recommended for wall mounted, DS-1271ZJ-130-TRL lifting bracket is recommended for lifting mounted. Taking ceiling mounted installation as an example for explanation.

1. Take out the installation sticker that comes with device, stick the sticker onto the wall of the camera that needs to be installed, and drill holes according to the holes marked on the sticker.

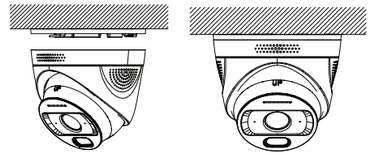


(Unit: mm)

2. Fix the plastic base on the wall with three PA4 × 25 screws.



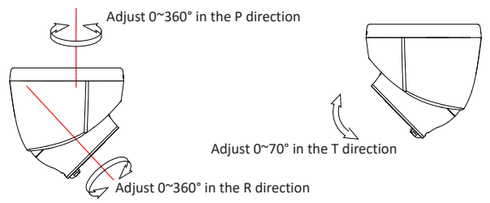
3. Arrange and connect the power and network cables of the camera, and ensure electronic insulation.
4. Aim the camera at the plastic base, tighten it in the indicated direction.



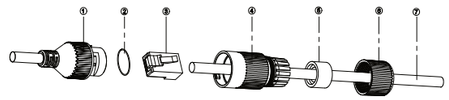
Note: After installing, the UP logo on the sphere needs to be upwards.

Adjusting Camera Angle

Compare the video images on the preview screen, adjust the device angle by rotating the fixed cover and the sphere, and adjust the screen to the desired to follow scene.

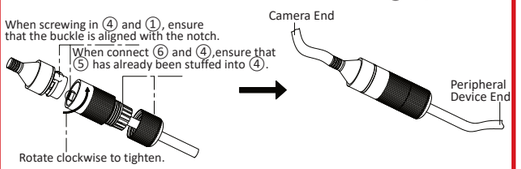


6 Installation of Waterproof Accessories for Ethernet Ports



Steps:
1. Pass ⑦ through ④⑤⑥ in sequence and fix it with ③;
2. Insert ② into the bottom of ①;
3. Insert ③ and ①, then tighten ⑥ and ④, and ④ and ① in sequence to complete the assembly.

①Circle Ethernet Port
②O-shaped Gasket
③Crystal Head
④Waterproof Body
⑤Waterproof Rubber Ring
⑥Fixed Nut
⑦Wire



7 Network Configuration

Connecting Network

Connect to Ethernet using a network cable. After connecting to the network, you can log in to the browser to configure device functions and parameters.

Initializing Device

When the device is first powered on and used, it must be activated before it can be used normally.
Original IP address: 192.168.1.64
The device can be activated through SADP software, client software and browser. Taking initializing device through browser as an example for explanation.

Steps:

1. Connect the computer and device directly with a network cable.
2. Modify the computer IP and device IP to be in the same network segment.
3. Enter 192.168.1.64 in the browser to enter the activation page. And create activation password in the page.
4. Click OK and initialize the device.
5. Enter activation password, go to ***Configuration - Network - Basic Configuration - TCP/IP***, modify device IP address to make it and current network be in the same network segment.

8 Specifications

Camera	
Sensor Type	Infrared pyroelectric: 4.3 um + 3.8 um
Max. Resolution	2688×1520
Main Stream	30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	30 fps (704 × 480，640 × 480, 352 × 240) 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
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
Adjusted Angle	Horizontal: 0° ~ 360°; Vertical: 0° ~ 70°; Rotated: 0° ~ 360°
WDR	120 dB
Shutter	1/25 ~ 1/100,000 s
Day/Night Switch	IR cut filter
Image Enhancement	BLC, 3D DNR
SVC Encoding	H.264, H.265
H.265	Main Profile
H.264	Main Profile/High Profile
Main Stream Video Compression Standard	H.265,H.264
Sub Stream Compression Standard	H.265,H.264
Video Bitrate	256Kbps ~ 8192Kbps
General	Anti flicker, Heartbeat, Mirror, Password protection, Video occlusion
Intelligent Alarm	Smoke and flame detection, Indoor access blocked alarm, On/off duty alarm, Dangerous goods detection, Dangerous behavior detection, Fire Extinguisher Detection, Area Invasion Detection
Exception Detection	Motion detection, Video tampering alarm, Network cable disconnection, IP address conflict, Invalid access, Full memory, Memory error, Sub system exception, Peripheral fault
WEB Configuration	Support web preview, configuration and parameter import/export
Protocol	TCP/IP, HTTP, HTTPS, DHCP, DNS, RTP, RTSP, RTCP, NTP, IPv4, UDP
Storage	Support MicroSD/MicroSDHC/MicroSDXC card(max. 256 G), disconnection local storge, NAS
Interface Protocol	ONVIF(PROFILE S, PROFILE G), ISAPI, EZVIZ
Power Comsumption	HF-VR343:≤10 W HF-VR343-G(4mm)(O-STD):≤12 W HF-VR343(4mm)(O-STD),HF -VR343-WF(4mm)(O-STD):≤10 W
IR Range	30 m
Accessory Type	Wall mounted support, pendent support, universal joint
Detector	
Thermography Alarm Shielded Area	Configure four rectangular areas
Image Sensor	1/2.7" Progressive Scan CMOS
Alarm Indicator Light	One, Red: Alarm; Yellow: Fault; Green: Normal
Detection Range	within 30 meters(0.1 square meter fire pan)
Fire and Smoke Detection	Yes
Function	
Remote Silence	Yes
Interface	
Alarm Interface	2 way alarm input (Alarm in), 2 way alarm out (Alarm out)
Audio Interface	1 built-in microphone, 1 built-in speaker, Supports voice intercom
Auxiliary Power Interface	Supports DC 12V output, power 1W
Ethernet Interface	1 RJ45 10 M/100 M adaptive Ethernet port
General	
Power	DC 9-30 V，18W Max/PoE (802.3at)
Using Environment	-30 ˚C ~ 60 ˚C. Humidity 95% or less (non-condensing)
Dimension (Φ × H)	Φ 130 × H 101 mm
Weight	407g
Execution Standard	Q/HKD 006-2019
Mounting Height	Wall mounted: 2.4 m~2.8 m, Pendent: 3.3 m~6 m
Ingress Protection	IP67
Communication Mode	HF-VR343:LAN HF-VR343-G(4mm)(O-STD):4G HF-VR343(4mm)(O-STD):LAN HF-VR343-WF(4mm)(O-STD):Wifi

Scan the QR code for user manual.

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