

HF-VH243-R(8)  
Fusion Detection Camera

## Quick Start Guide

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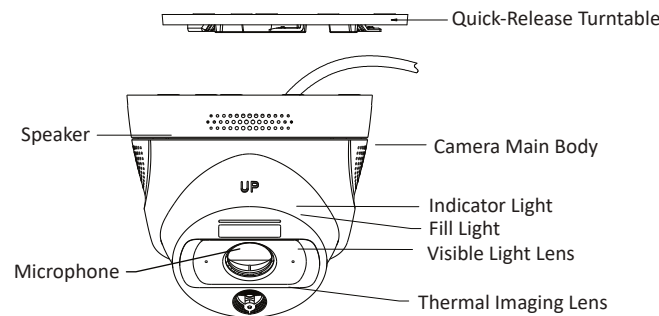
Address: No.555 Qianmo Road, Binjiang District, Hangzhou City, Zhejiang Province, China

UD48479B

## Cautions

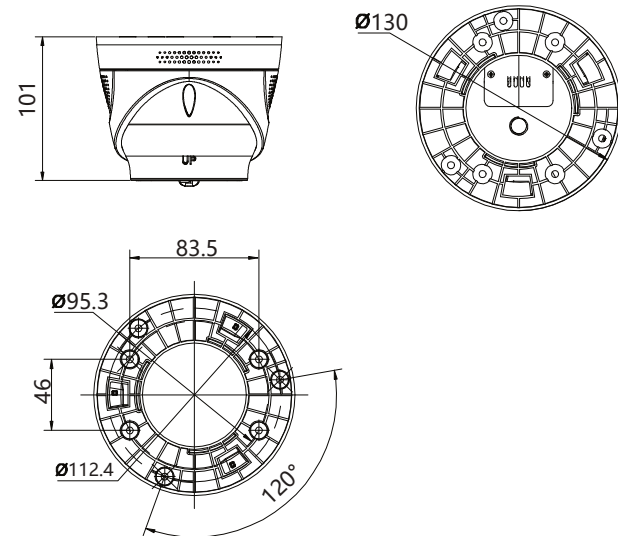
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The product functions can be normally achieved only when the product is correctly installed and effectively maintained. This product is designed to assist you in disaster prevention, but it cannot replace on-site inspection by you, nor can it prevent the occurrence or expansion of accidents. In daily use, you should still remain vigilant, strengthen safety awareness, and carefully pay attention to your personal and property safety.
- Do not drop objects onto the product or shake the product vigorously. Keep the product away from locations with magnetic interference. Avoid installing the product in a place where the surface vibrates or where the product is vulnerable to impact. Otherwise, the product may be damaged.
- In a residential environment, this product may cause radio interference. In such cases, the user may be required to take practical measures against the interference.
- The serial port on the device is only used for debugging and is not intended for users.
- Please do not use the product in environments with high temperatures, low temperatures, or high humidity. For specific temperature and humidity requirements, please refer to the product's parameter table.
- Do not aim the product's lens at strong light sources, such as the sun, incandescent lamp, or other high-temperature targets, as this may damage the lens or thermal imaging detector.
- Do not expose the device to dripping or splashing, nor place items such as vases containing liquid on the top.
- Do not place the device in an environment with corrosive gases, as corrosive gases can damage the device.
- Do not place an exposed flame source, for example, a lit candle, on the device.
- Avoid placing the product in direct sunlight, poorly ventilated locations, or near heat sources such as heaters or heating sources (Neglecting this may lead to a fire hazard).
- When cleaning the device lens or cover, use a sufficiently soft dry cloth or other substitute to wipe the inner and outer surfaces. Do not use alkaline cleaners. Avoid scratching the lens or cover with hard objects.
- Network security issues may arise when the device is connected to the Internet. Please enhance your personal information and data security protection. When you discover potential network security risks, please contact us immediately.
- Please understand that you are responsible for the configurations, all passwords, and relevant security issues of the product. You are also responsible for keeping your username and password safe.
- Keep all of the original packaging materials of the device safe, so that it can be used to re-package the device to be sent back to the distributor or manufacturer should any issues arise. The company assumes no responsibility for accidental damage caused by the use of non-original packaging materials during transportation.

## ■ Device Appearance

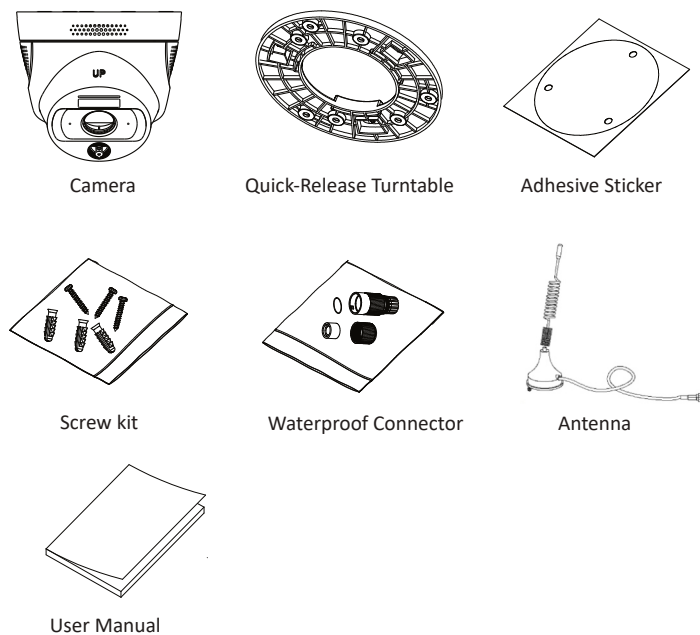


## ■ Device Size

\*Unit: mm



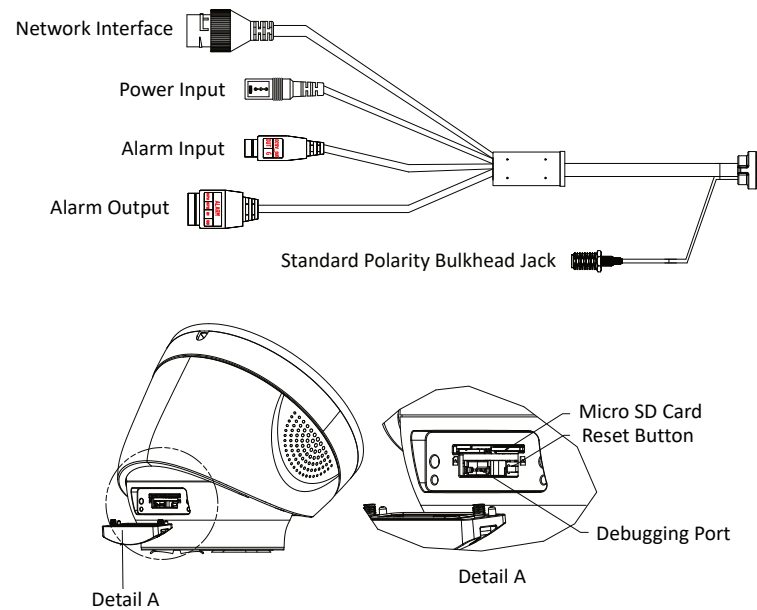
## ■ Pack List



## ■ Indicator

| Indicator                | Status                                 |
|--------------------------|----------------------------------------|
| Red/blue light always on | Alarm (red/blue light mode selectable) |
| Yellow light always on   | Fault                                  |
| Green light always on    | Normal                                 |

## ■ Interface



## Installation

## ■ Installation Notification

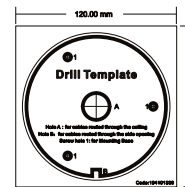
- Please install the device in strict accordance with the installation instructions set forth in this guide.
- Prior to installation, please make sure that all the contents in the packaging are intact and that all the parts are present.
- For safety, the device must be securely mounted to a wall or ceiling.
- The installation wall should have a certain thickness and be able to bear at least 4 times the weight of the device and installation accessories.
- For cement walls or ceilings, first install expansion screws (the installation hole positions of the expansion screws need to match the bracket), then install the bracket.
- Self-tapping screws can be used directly when installing the bracket into wooden walls.

**\*Do not lift the camera by the cable.**

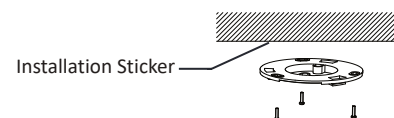
## ■ Installing Device

The device can be used for ceiling mounting, wall mounting, and lifting. DS-1273ZJ-130-TRL wall mounting bracket is recommended for wall mounting. DS-1271ZJ-130-TRL lifting bracket is recommended for lifting. Three installation methods are similar. Take ceiling mounted installation as an example.

- 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.

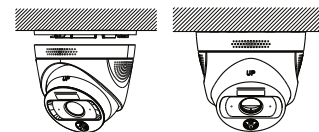


- 2 Use three PA4 × 25 screws to secure the device base to the wall.



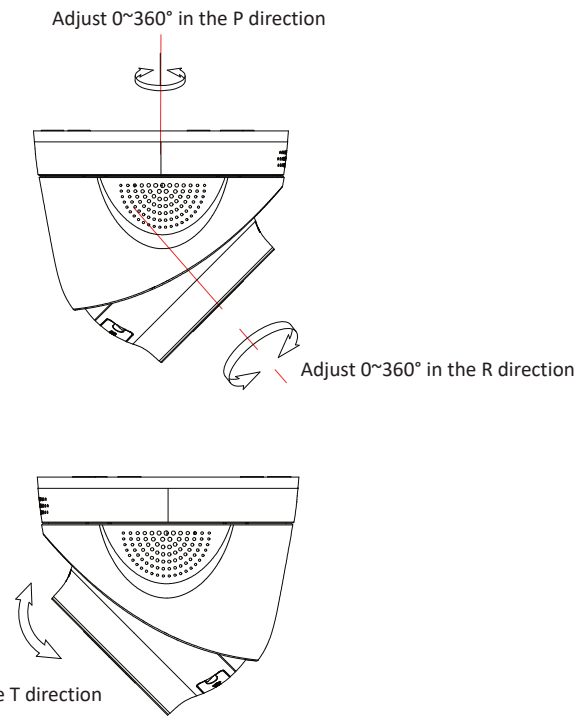
- 3 Set up and connect the power cables and network cables of the camera, and keep the power cables insulated.

- 4 Align the camera body with the plastic base, tighten it in the indicated direction.

**\*After installation, ensure that the "UP" marking on the dome is oriented upward.**

## ■ Adjusting Sphere Direction

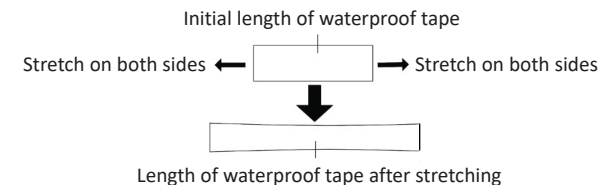
Adjust the cover and sphere to the scene. Compare the video image on the web page and adjust the camera angle by rotating the cover and sphere.



## ■ Installing Waterproof Tape

Some devices already have waterproof tape on them. The instructions for installing waterproof tape are as follows.

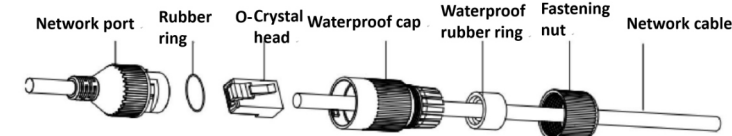
- 1) Please remove the release paper from the back of the supplied waterproof tape.
- 2) Stretch both ends of the waterproof tape to about twice the initial length.



## ■ Installing Waterproof Network Port Cover

Some devices come with a waterproof network port cover. For outdoor installation and use, the supplied waterproof network port cover must be installed to prevent short circuits due to water ingress. Please install it as needed. The installation steps for waterproof network port cover are as follows.

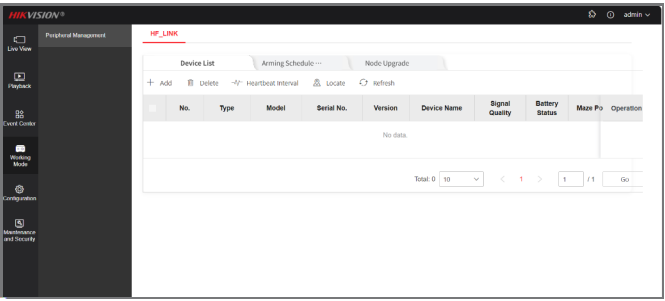
- 1 If the network cable has already been laid, cut the crystal head at the end connected to the device, and thread the network cable through the fastening nut, waterproof rubber ring, and waterproof cap as shown in the figure.
- 2 Insert the waterproof rubber ring into the waterproof cap to enhance sealing performance.
- 3 Terminate the network cable with a crystal head and place the rubber O-ring on the device's network port.
- 4 Insert the prepared network cable into the network port, fit the waterproof cap over the network port end, and screw the fastening nut clockwise into the waterproof cap. When screwing the waterproof cap into the network port, keep the network port's latch aligned with the notch on the waterproof cap to complete the installation of the waterproof network port cover properly.



## Pairing

### Web Control Operation

1. Enter address 192.168.1.64 in the browser and click to navigate to it.
2. After entering the page, click Working Mode → Peripheral Management, then click the + icon to add manually.
3. Follow the instructions to power on the node device. After powering on, press and hold for 5s until it beeps 3 times, and then short press once.



4. When added, the node device will emit a voice prompt. Support customizing device name, type, etc on the website page.
5. Click Configuration→Network→Platform Access→Hik-Connect, then click "Enable" and refresh the registration status. After Hik-Connect status shows "Online", the camera will be synchronized and displayed on Hik-Protect APP.

*\*If the node device status turns red after 60s with a long beep, it means pairing failed. This may be caused by poor signal of the node device. You can try pairing again.*

### Hik-Protect Operation

Prerequisite: On the website page, click Configuration→Network→Network Settings to enable DHCP, and click Configuration→Network→Platform Access→Hik-Connect to enable Hik-Connect and set verification code.

1. Scan the QR code below to download Hik-Protect APP.

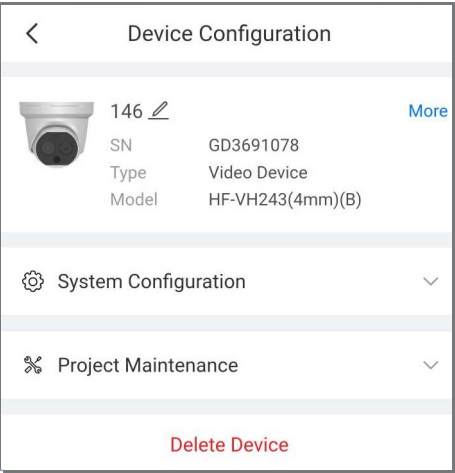
*\* iOS users need to be redirected to the App Store to download.*



Hik-Protect

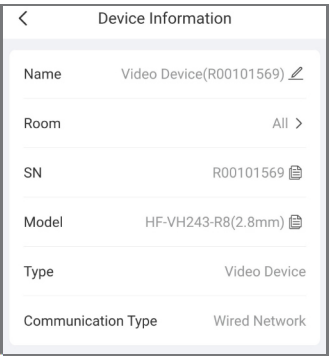
2. In the APP, tap + icon in the upper right corner to scan or add camera manually.
3. Follow the instructions to add camera. Support customizing camera name and room.
4. Follow the instructions to power on the node device. After powering on, press and hold for 5s until it beeps 3 times, and then short press once.
5. When added, the node device will emit a voice prompt. Tap "Settings" to configure the device name and parameters.

*\*When adding a video device through Hik-Protect, the node information will be synchronized to the web page.*

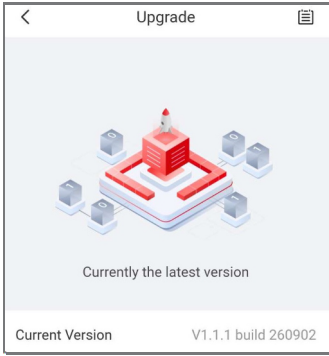


## Camera Settings

Open the APP and enter "Device Setting" page to perform more operations, such as editing device information and upgrading.



Edit Device Information



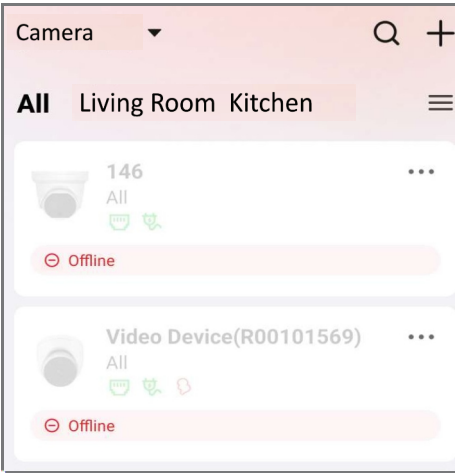
Upgrade Device

*\*On APP device list page, tap the detectors paired with the camera to perform operations above on them.*

## Function

### Interconnected Alarm (Smoke Detector as Example)

When alarm is triggered by a smoke detector interconnected with the camera, the smoke detector will immediately send a push notification to the camera, and camera to the APP. At this time, the camera activates the alarm with a steady red light, and speaker emits customized beeps.



### Locate Alarm Source

Prerequisite: Audio alarm linkage for camera is configured on the website page. When one of the node devices triggers an alarm, it will beep first and then the interconnected node devices and camera will alarm in linkage. Tap [Locate] button on the web page or in the APP to locate the alarm source. At this time, only the alarm source beeps.

*\*After locating the alarm source and confirming the on-site alarm situation, you can press [Mute] button to silence it.*

### Silence

Tap [Silence] button on the web page or in the APP to silence the alarm source. At this time, the alarm source and associated devices remain silence until a new alarm is triggered. The silence duration is 12min. During this process, the camera will emit corresponding voice prompts.

*\*Silencing is not supported during pairing.*

## Specification

| Camera                                 |                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Max. Image Size                        | 2560 × 1440                                                                                                       |
| Sensor Type                            | 1/2.7" Progressive Scan CMOS                                                                                      |
| Main Stream                            | 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)                                                                     |
| Sub Stream                             | 25 fps (704 × 576, 640 × 480, 352 × 288)                                                                          |
| Min. Illumination                      | Color: 0.015 Lux@(F1.6, AGC ON)                                                                                   |
| Lens                                   | 2.8mm: horizontal FOV113.31°; vertical 59.85°; diagonal FOV 136.26°                                               |
| 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                                    | Digital WDR                                                                                                       |
| 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 ~ 8 Mbps                                                                                                  |
| General                                | Reset, anti flicker, heartbeat, image, password protection, video occlusion, IP address filtering                 |
| Intelligent Alarm                      | on/off duty alarm                                                                                                 |
| WEB Configuration                      | Support web preview, configuration                                                                                |
| Storage                                | Support microSD /microSDHC /microSDXC card, up to 256 G                                                           |
| Protocol                               | TCP/IP, HTTP, HTTPS, DHCP, DNS, RTP, RTSP, RTCP, NTP, IPv4, UDP                                                   |
| Interface Protocol                     | ONVIF(PROFILE S, PROFILE G), ISAPI                                                                                |
| Power Consumption                      | ≤ 6.5 W                                                                                                           |
| IR Range                               | 30 m                                                                                                              |
| Accessory Type                         | Wall mount、pendant mount、junction box                                                                             |
| Detector                               |                                                                                                                   |
| Temperature Sensing Mode               | Non-contact temperature sensing                                                                                   |
| Thermography Alarm Shielded Area       | Customized 4 rectangular regions                                                                                  |
| High Temperature Alarm                 | Yes                                                                                                               |
| Alarm Indicator Light                  | Red/Blue：Alarm（Red/Blue light mode optional）<br>Green：Normal<br>Yellow：Fault                                      |
| Temperature Measurement Range          | -20 ℃ ~ 120 ℃                                                                                                     |
| Thermography Precision                 | ±3°                                                                                                               |
| Function                               |                                                                                                                   |
| Remote Silence                         | Yes                                                                                                               |
| Interface                              |                                                                                                                   |
| Alarm Interface                        | 1 way alarm in, 1 way alarm out                                                                                   |
| Audio Interface                        | 1 built-in microphone, 1 built-in speaker                                                                         |
| Auxiliary Power Interface              | DC 12V                                                                                                            |
| Ethernet Interface                     | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                     |
| General                                |                                                                                                                   |
| Power                                  | DC 12V<br>POE: IEEE802.3af, CLASS 2                                                                               |
| Using Environment                      | Temperature: -30 ℃ ~ 60 ℃<br>Humidity: less than 95% (no condensing)                                              |
| Dimension (Φ × H)                      | Φ 130 × H 101 mm                                                                                                  |
| Weight                                 | 450g                                                                                                              |
| Execution Standard                     | Q/HKD 006-2019                                                                                                    |
| Mounting Height                        | Wall mounted: 2.4 m~2.8 m; Pendant: 3.3 m~6 m                                                                     |
| Ingress Protection                     | IP66                                                                                                              |
| Wireless Communication                 | HF-VH243-R: LAN, 433MHz<br>HF-VH243-R8: LAN, 868MHz                                                               |

## English Regulatory Compliance and Safety 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.

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