



# Network PT Dome Camera

Quick Start Guide

**UD04331B**

### **Quick Start Guide**

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#### **About this Manual**

This Manual is applicable to 2Fxx Network Camera.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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## **Regulatory Information**

### **FCC Information**

**FCC compliance:** This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### **FCC Conditions**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### **EU Conformity Statement**



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info)



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info)

### Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.



### Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warnings” and “Cautions”

**Warnings:** Serious injury or death may occur if any of the warnings are neglected.

**Cautions:** Injury or equipment damage may occur if any of the cautions are neglected.

	
<b>Warnings</b> Follow these safeguards to prevent serious injury or death.	<b>Cautions</b> Follow these precautions to prevent potential injury or material damage.



### Warnings

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 24 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket. When the product is mounted on wall or ceiling, the device shall be firmly fixed.

- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.



### Cautions

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period, please replace the lens cap to protect the sensor from dirt.
- Do not aim the camera at the sun or extra bright places. Blooming or smearing may occur otherwise (which is not a malfunction), and affect the endurance of sensor at the same time.
- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold (the operating temperature shall be -30°C ~ +60°C, or -40°C ~ +60°C if the camera model has an “H” in its suffix), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.
- Keep the camera away from liquid while in use.

- While in delivery, the camera shall be packed in its original packing, or packing of the same texture.
- Regular part replacement: a few parts (e.g. electrolytic capacitor) of the equipment shall be replaced regularly according to their average enduring time. The average time varies because of differences between operating environment and using history, so regular checking is recommended for all the users. Please contact with your dealer for more details.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- If the product does not work properly, please contact your 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.)

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# 1 Appearance Description

Please refer to the chapter below to have a close eye on the camera appearance and components.

## 1.1 Overview

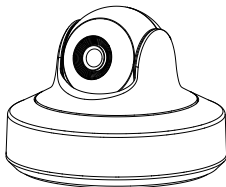


Figure 1-1 Overview (1)

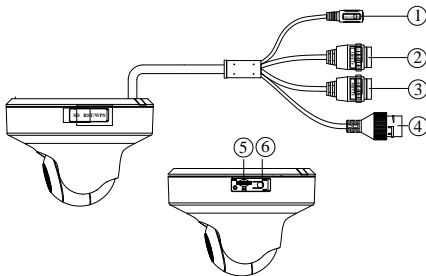


Figure 1-2 Overview (2)

Table 1-1 Description

No.	Description
1	Power Supply Interface (12 VDC)
2	Audio In/Out
3	Alarm In/Out
4	10M / 100M self-adaptive Ethernet interface & PoE
5	Micro SD/ SDHC/SDXC card slot
6	WPS (Wi-Fi Protected Setup) / Reset Button



The figures shown in this manual are for reference only. The appearance and interfaces of the camera are subject to the actual model.

## 1.2 Installing the Micro SD Card

### **Steps:**

1. Pull the removable cover on the mounting base outwards to open the cover.
2. Insert the micro SD card into the card slot.



Micro SDHC / SDXC card is also supported.

3. Fix the cover back to the mounting base.

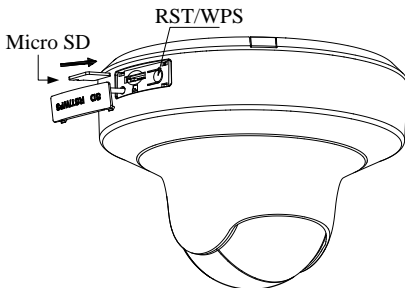


Figure 1-3 Install the SD Card



Press RESET about 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., and so on.

4. Move the cover back and press to secure the cover.

## 1.3 WPS Connection

A wireless router with the WPS function is required to if you want to enable the WPS function of the camera. Follow the steps below to establish a WPS connection.

1. Press the WPS button on the router.
2. Press the WPS button (about 2s) on the camera within 120s you enable the WPS of the router to join in the wireless network.



- The WPS button works as a reset button only when you press it when the camera is powering on.
- Press the WPS button on the camera, and then press the WPS button on the router will work as well, and the expire time of WPS connection on the camera is 120s.

## 2 Installation

---

### *Before you start:*

- Make sure the device in the package is in good condition and all the assembly parts are included.
- The standard power supply is 12V DC or 24V AC, please make sure your power supply matches with your camera.
- Make sure all the related equipment is power-off during the installation.
- Check the specification of the products for the installation environment.
- Make sure that the wall is strong enough to withstand four times the weight of the camera and the bracket.

For the camera that supports IR, you are required to pay attention to the following precautions to prevent IR reflection:

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.
- Make sure that there is no reflective surface too close to the camera lens. The IR light from the camera may reflect back into the lens causing reflection.
- The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDs. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

## 2.1 Ceiling Mounting

### Steps:

1. Stick the supplied drill template on the ceiling.
2. Drill the cable hole and screw holes according to the drill template.
3. Hammer the expansion plugs to the screw holes.

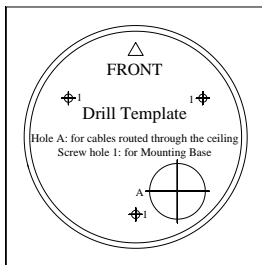


Figure 2-1 Drill Template

4. Rotate the adapter plate counterclockwise on the bottom of the camera to remove the adapter plate.
5. Align the adapter plate with the drilled screw holes, and fix the adapt plate with the expansion screws.



Make sure the “FRONT” sign on the adapter plate is align with the one on the drill template.

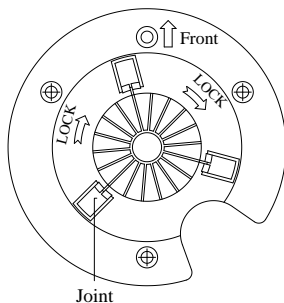


Figure 2-2 Adapter Plate

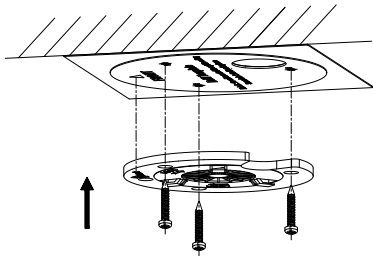


Figure 2-3 Install the Adapter Plate



6. Route the cables through the cable hole and connect the corresponding cables including power cable, network cable, alarm cables, and audio cables.
7. Align the notches on the camera with those on the adapter plate, and rotate the camera clockwise to secure the camera with the adapter plate.

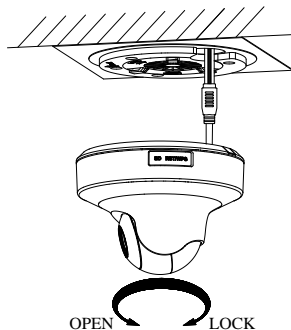


Figure 2-4 Connect the Cables

8. Power on the camera, visit the camera via web browser, and adjust the surveillance angle via the PTZ interface. You can adjust the pan angle from  $-90^{\circ}$  to  $+90^{\circ}$ , and adjust the tilt angle from  $0^{\circ}$  to  $75^{\circ}$ .



Figure 2-5 PTZ Control Interface

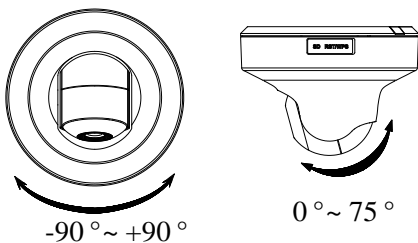


Figure 2-6 Adjust Surveillance Angel

## 2.2 Ceiling Mounting with a Junction Box

You have to buy a junction box separately if you want to install the camera with a junction box.

### Steps:

1. Stick the drill template to the ceiling.
2. Drill the screw holes and cable hold according to the drill template.
3. Hammer the expansion plugs to the screw holes.
4. Fix the junction box to the ceiling with screws.

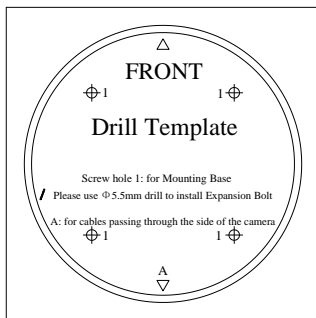


Figure 2-7 Drill Template of the Junction Box

5. Hammer two screws half-deep to the two No.1 screw holes. See figure below.

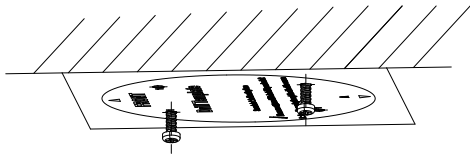


Figure 2-8 Hammer the Screws

6. Align two joints of the junction box to the two inserted screws, and rotate the junction box counterclockwise to fix the junction box.
7. Use the other two screws to secure the junction box.

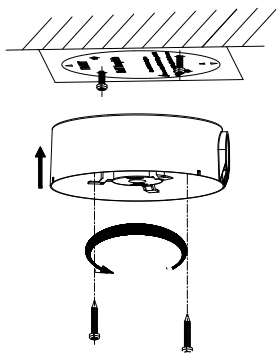


Figure 2-9 Install the Junction Box

8. Connect the power cable, network cable, alarm cable and audio cable.
9. Align the notches on the camera with the joints on the junction box, and rotate the camera clockwise to secure the camera.

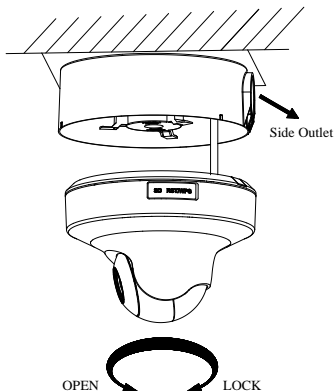


Figure 2-10 Fix the Camera

10. Adjust the surveillance angle according to step 8 of chapter 2.1.

## 2.3 Wall Mounting

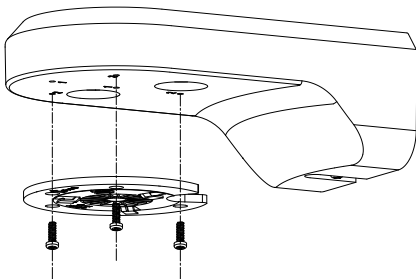
You have to buy a wall mount separately if you select wall mounting.

1. Install the wall mounting to the wall.

2. Rotate the adapter plate counterclockwise on the bottom of the camera to remove the adapter plate.
3. Fix the adapter plate to the wall mount with the supplied screws.



Align the No.2 screw holes on the adapter plate with the No.2 screw holes on the wall mount, and align the cable holes as well when installing the adapter plate.



**Figure 2-11 Install the Adapter Plate**

4. Connect the power cable, network cable, alarm cable and audio cable.
5. Align the notches on the camera with the joints on the junction box, and rotate the camera clockwise to secure the camera.

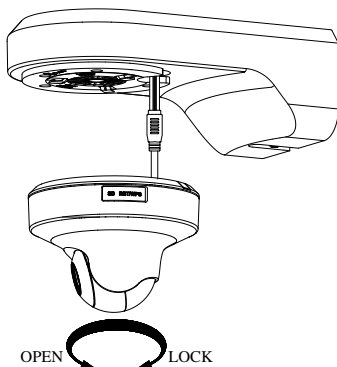


Figure 2-12 Install the Camera

6. Align the bracket base to the wall, and hammer the expansion plugs to the wall.
7. Fix the bracket base with the supplied expansion screws.

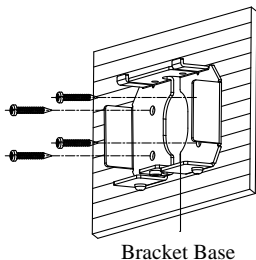


Figure 2-13 Fix the Bracket Base to the Wall

8. Route the cables.
9. Fix the camera to the bracket base with the supplied screws in the wall mount package.

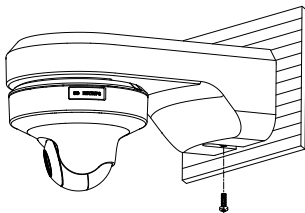


Figure 2-14 Fix the Camera

10. Adjust the surveillance angle according to step 8 of chapter 2.1.



## 2.4 Routing the Cable through Side Outlet

You may select to route the cables through the side outlet, please follow the steps below.

1. Pull up the cap of the wiring duct to remove the cap.

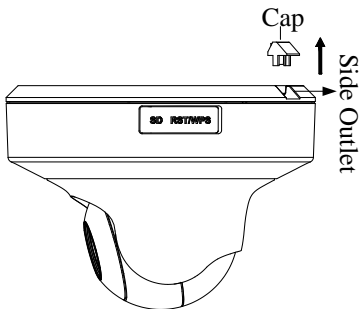


Figure 2-15 Remove the Cap

2. Route the cables through the side outlet.

## 3 Setting the Network Camera over the LAN

### **Note:**

You shall acknowledge that the use of the product with Internet access might be under network security risks. For avoidance of any network attacks and information leakage, please strengthen your own protection.

If the product does not work properly, contact your dealer or the nearest service center for help.

### 3.1 Wiring

Connect the camera to network according to the following figures.

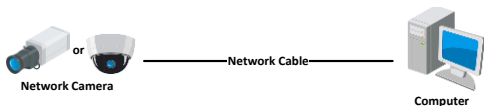


Figure 3-1 Connecting Directly

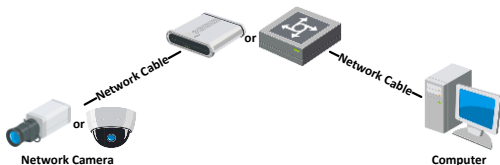


Figure 3-2 Connecting via a Switch or a Router

## 3.2 Activating the Camera

You are required to activate the camera first by setting a strong password for it before you can use the camera.

Activation via Web Browser, Activation via SADP, and Activation via Client Software are all supported. We will take activation via SADP software and Activation via Web Browser as examples to introduce the camera activation.

### **Note:**

Refer to the User Manual of Network Camera for Activation via Client Software.

### 3.2.1 Activation via Web Browser

#### **Steps:**

1. Power on the camera. Connect the camera to your computer or the switch/router which your computer connects to.
2. Input the IP address into the address bar of the web browser, and press Enter to enter the activation interface.

#### **Notes:**

- The default IP address of the camera is 192.168.1.64.
- The computer and the camera should belong to the same subnet.
- For the camera enables the DHCP by default, you need to use the SADP software to search the IP address.



Figure 3-3 Activation Interface(Web)

3. Create a password and input the password into the password field.



**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Confirm the password.
5. Click **OK** to save the password and enter the live view interface.

### 3.2.2 Activation via SADP Software

SADP software is used for detecting the online device, activating the camera, and resetting the password.

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Get the SADP software from the supplied disk or the official website, and install the SADP according to the prompts.

Follow the steps to activate the camera.

### Steps:

1. Run the SADP software to search the online devices.
2. Check the device status from the device list, and select the inactive device.

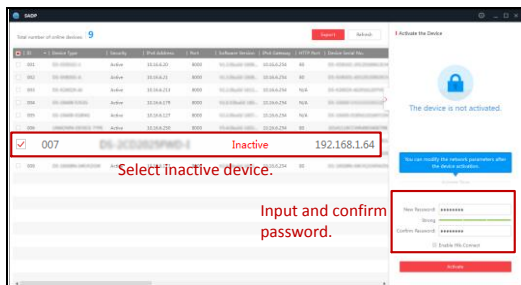


Figure 3-4 SADP Interface

### Note:

The SADP software supports activating the camera in batch. Refer to the user manual of SADP software for details.

3. Create and input the new password in the password field, and confirm the password.



**STRONG PASSWORD RECOMMENDED**– *We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.*

**Note:**

You can enable the Hik-Connect service for the device during activation. Refer to Chapter 5.1 for detailed information.

4. Click **Activate** to start activation.

You can check whether the activation is completed on the popup window. If activation failed, make sure that the password meets the requirement and try again.

## 3.3 Modifying the IP Address

**Purpose:**

To view and configure the camera via LAN (Local Area Network), you need to connect the network camera in the same subnet with your PC.

Use the SADP software or client software to search and change the IP address of the device. We take modifying the IP Address via SADP software as an example to introduce the IP address modification.

For IP address modification via client software, refer to the user manual of client software.

## Steps:

1. Run the SADP software.
2. Select an active device.
3. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of Enable DHCP.

Modify Network Parameters

☐ Enable DHCP  
☒ Enable Hik-Connect

Device Serial No.:

XX-XXXXXXXX-XXXXXXXXXXXXXXXX

IP Address:

192.168.1.64

Port:

8000

Subnet Mask:

255.255.255.0

Gateway:

192.168.1.1

IPv6 Address:

::

IPv6 Gateway:

::

IPv6 Prefix Length:

0

HTTP Port:

80

Security Verification

Admin Password:

Modify

[Forgot Password](#)

Figure 3-5 Modify the IP Address

**Note:**

You can enable the Hik-Connect service for the device during activation. Refer to Chapter 5.1 for detailed information.

4. Input the admin password and click **Modify** to activate your IP address modification.

The batch IP address modification is supported by the SADP. Refer to the user manual of SADP for details.



## 4 Accessing via Web Browser

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### **System Requirement:**

Operating System: Microsoft Windows XP SP1 and above version

CPU: 2.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

Web Browser: Internet Explorer 8.0 and above version, Apple Safari 5.0.2 and above version, Mozilla Firefox 5.0 and above version and Google Chrome 18 and above version

### **Steps:**

1. Open the web browser.
2. In the browser address bar, input the IP address of the network camera, and press the **Enter** key to enter the login interface.

#### **Note:**

- The default IP address is 192.168.1.64. You are recommended to change the IP address to the same subnet with your computer.

3. Input the user name and password.

The admin user should configure the device accounts and user/operator permissions properly. Delete the unnecessary accounts and user/operator permissions.

#### **Note:**

The device IP address gets locked if the admin user performs 7 failed password attempts (5 attempts for the user/operator).

### 4. Click **Login**.



Figure 4-1 Login Interface

### 5. Install the plug-in before viewing the live video and managing the camera. Follow the installation prompts to install the plug-in.

#### **Note:**

You may have to close the web browser to finish the installation of the plug-in.

[Please click here to download and install the plug-in. Close the browser when installing the plug-in.](#)

Figure 4-2 Download Plug-in

### 6. Reopen the web browser after the installation of the plug-in and repeat steps 2 to 4 to login.

#### **Note:**

For detailed instructions of further configuration, please refer to the user manual of network camera.

## 5 Operating via Hik-Connect App

---

### ***Purpose:***

Hik-Connect is an application for mobile devices. With the App, you can view live image of the camera, receive alarm notification and so on.

### ***Note:***

Hik-Connect service is not supported by certain camera models.

## 5.1 Enable Hik-Connect Service on Camera

### ***Purpose:***

Hik-Connect service should be enabled on your camera before using the service.

You can enable the service through SADP software or web browser.

### 5.1.1 Enable Hik-Connect Service via SADP Software

#### ***Steps:***

1. Check the checkbox of **Enable Hik-Connect** on:
  - 1). "Activate the Device" page during camera activation, refer to Chapter 3.2.2.
  - 2). Or "Modify Network Parameters" page during modifying IP address, refer to Chapter 3.3.
2. Create a verification code or change the verification code.

The screenshot shows a 'Tips' dialog box with a red title bar. The main text states: 'To enable Hik-Connect service, you need to create a verification code or change the verification code.' Below this, there are two input fields. The first is labeled 'Verification Code' and contains six dots. To its right, a text block specifies: '6 to 12 letters or numbers, case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.' The second input field is labeled 'Confirm Verification Code' and also contains six dots. At the bottom, a note says: 'The Hik-Connect service will require internet access. Please read the ["Terms of Service"](#) and ["Privacy Policy"](#) before enabling the service.' At the bottom right, there are two buttons: 'Confirm' (red) and 'Cancel' (gray).

Figure 5-1 Verification Code Setting (SADP)

**Note:**

The verification code is required when you add the camera to Hik-Connect app.

3. Click and read "Terms of Service" and "Privacy Policy".
4. Confirm the settings.

### 5.1.2 Enable Hik-Connect Service via Web Browser

**Before you start:**

You need to activate the camera before enabling the service. Refer to Chapter 3.2.

### Steps:

1. Access the camera via web browser. Refer to Chapter 4.
2. Enter platform access configuration interface: Configuration > Network > Advanced Settings > Platform Access

☒ Enable

Platform Access Mode Hik-Connect

Server IP dev.hik-connect.com ☐ Custom

Register Status Offline

Verification Code ••••••

6 to 12 letters (a to z, A to Z) or numbers (0 to 9), case sensitive. You are recommended to use

Save

Figure 5-2 Platform Access Configuration (Web)

3. Select Platform Access Mode as Hik-Connect.
4. Check the checkbox of Enable.
5. Click and read "Terms of Service" and "Privacy Policy" in pop-up window.
6. Create a verification code or change the verification code for the camera.

### Note:

The verification code is required when you add the camera to Hik-Connect app.

7. Save the settings.

## 5.2 Hik-Connect Setup

### Steps:

1. Download and install the Hik-Connect app by searching “Hik-Connect” in App Store or Google Play™.
2. Launch the app and register for a Hik-Connect user account.
3. Log in Hik-Connect app after registration.

## 5.3 Adding Camera to Hik-Connect

### Before you start:

You need to enable the Hik-Connect service on camera before adding it to your Hik-Connect account. Refer to Chapter 5.1.

### Steps:

1. Use a network cable to connect the camera with a router if the camera does not support Wi-Fi.



Figure 5-3 Connect a Router

### Note:

After the camera connects to the network, please wait one minute before any operation on the camera using Hik-Connect app.

2. In the Hik-Connect app, tap “+” on the upper-right corner and then scan the QR code of the camera to add the camera.

You can find the QR code on the camera or on the cover of the Quick Start Guide of the camera in the package.

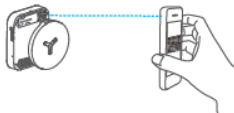



Figure 5-4 Scan QR Code

**Note:**

If the QR code is missing or too blur to be recognized, you can also add the camera by tapping the  icon and inputting the camera's serial number.

3. Input the verification code of your camera.

**Note:**

- The required verification code is the code you create or change when you enabling Hik-Connect service on camera.
- If you forget the verification code, you can check the current verification code on **Platform Access** configuration page via web browser.

4. Follow the prompts to set the network connection and add the camera to your Hik-Connect account.

**Note:**

For detailed information, refer to the user manual of the Hik-Connect app.

## 5.4 Initializing the Memory Card

### ***Steps:***

Check the memory card status by tapping on the Storage Status in the Device Settings interface.

If the memory card status displays as Uninitialized, tap to initialize it. The status will then change to Normal. You can then start recording any event triggered video in the camera such as motion detection.





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