



User Manual

HK Series
Network Dome Camera

Thank you very much for choosing ANPVIZ.

Our products are supported by the world's first video monitoring manufacturers.
and they have adopted military level of protection.

It is our top priority to ensure your data safety and offer you a satisfactory service.

We strongly recommend that you set up an appropriate password for your device and save it
also set up security questions and reserved email to ensure you can reset password by yourself.

If you have any questions, please feel free to email us at support@anpvizsecurity.com

Or visit <https://www.anpvizsecurity.com/download/>

Please download Client software and user manuals from our download center
<https://www.anpvizsecurity.com/downloadcenter.html>

■ About this Manual

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. Please use this user manual under the guidance of professionals.

■ Legal Disclaimer

REGARDING TO THE PRODUCT WITH INTERNET ACCESS, THE USE OF PRODUCT SHALL BE WHOLLY AT YOUR OWN RISKS. OUR COMPANY SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER ATTACK, HACKER ATTACK, VIRUS INSPECTION, OR OTHER INTERNET SECURITY RISKS. HOWEVER, OUR COMPANY WILL PROVIDE TECHNICAL SUPPORT IF REQUIRED. SURVEILLANCE LAWS VARY BY JURISDICTION. PLEASE CHECK ALL RELEVANT LAWS IN YOUR JURISDICTION BEFORE USING THIS PRODUCT IN ORDER TO ENSURE THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. OUR COMPANY SHALL NOT BE LIABLE IN THE EVENT THAT THIS PRODUCT IS USED WITH ILLEGITIMATE PURPOSES. IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

■ Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 Low Voltage Directive 2015/35/EU, 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, please see: 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, please see: www.recyclethis.info.

■ 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.



Warnings: Follow these safeguards to prevent serious injury or death.



Cautions: 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.
- In put voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 SC 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
- If smog 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, replace the lens cap to protect the sensor from dust
- 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 to $+60^{\circ}\text{C}$, or -40°C to $+60^{\circ}\text{C}$ if the camera model has an "H1" 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.

■ 1. Appearance Description

Type I:

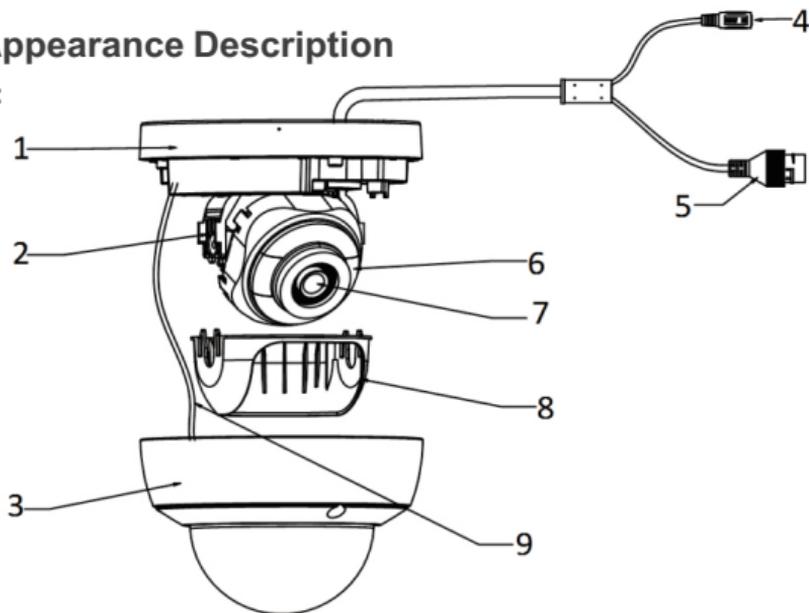


Figure 1-1 Figure 1-1 Camera Overview

Table 1-1 Camera Description

No.	Description
1	Mounting Base
2	Panning Adjusting Bracket
3	Front Cover
4	Power Cord
5	Network Cable
6	IR LED
7	Lens
8	Black Liner
9	Safety Rope

■ 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 12 VDC or PoE. 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. 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 to cause the 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 Installation

For camera models that support memory card as local storage, you can follow the steps to mount and unmount the memory card.

Steps:

1. Loosen the screws on the bubble. Remove the bubble to expose the memory card slot.

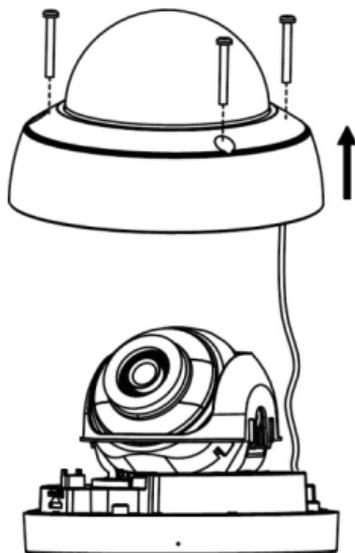


Figure 1-1 Remove Bubble

Notes:

- In case of losing, screws on bubble cannot be screwed out thoroughly.
- The bubble is fastened to the camera with a safety rope, and DO NOT pull the rope to remove the bubble. Otherwise, the camera will be damaged.

2. Find the memory card slot to insert the memory card.

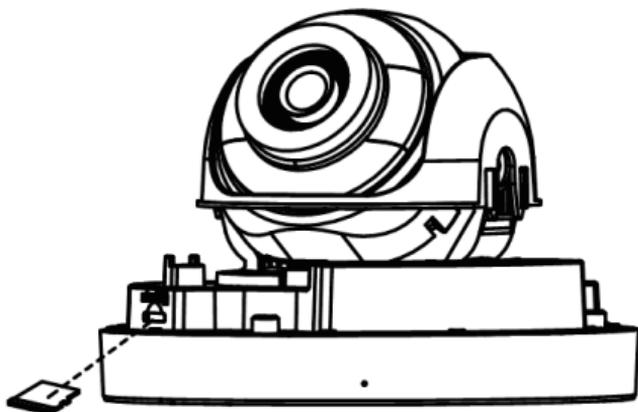


Figure 1-1 Insert Memory Card

3. (Optional) To unmount the memory card, push to get it ejected.

■ 2.2 Ceiling Mounting

Step:

1. Paste the drill template to the desired mounting place.
2. Drill the screw holes on the ceiling according to the drill template.

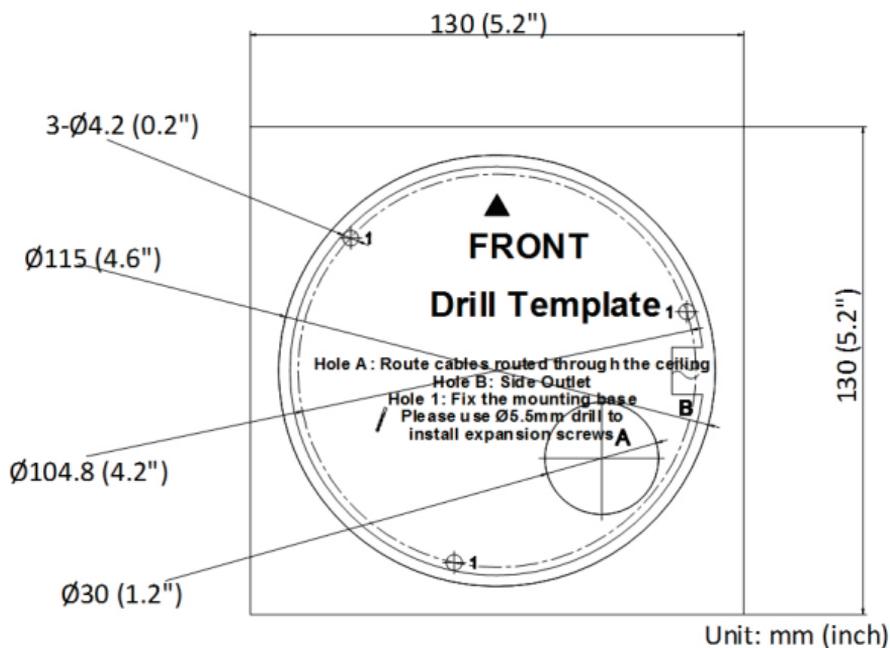


Figure 2-3 Drill Template

Notes:

- If you choose to route cable through the ceiling, cut a cable hole according to Hole A on drill template.
- You can also route cable from the side outlet as shown in .
- If you install the camera for outdoor scenes, install the waterproof jacket to the network cable. See Section .

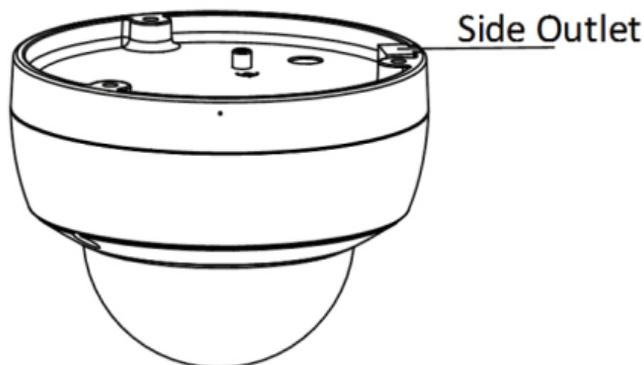
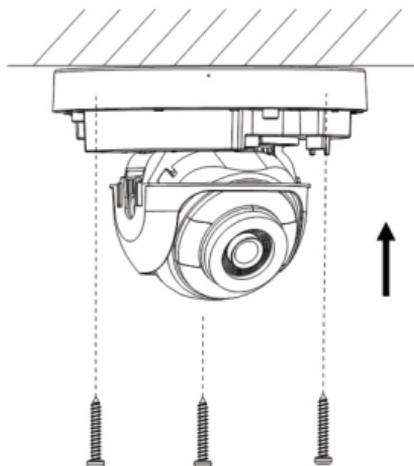


Figure 2-4 Side Outlet

3. Route the cables and fix the mounting base on the ceiling with three screws.



4. Adjust surveillance angle.

- 1). Loosen one tilting adjusting screw to adjust the tilting position. Tighten the screw after adjustment.
- 2). Hold the black liner to adjust the panning position.

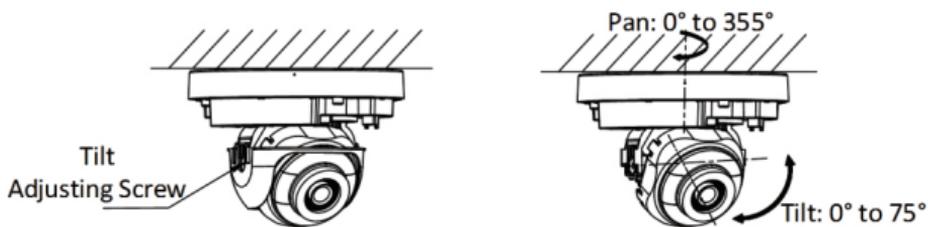


Figure 2-6 2-Axis Adjustment

5. Install the bubble back to the camera.

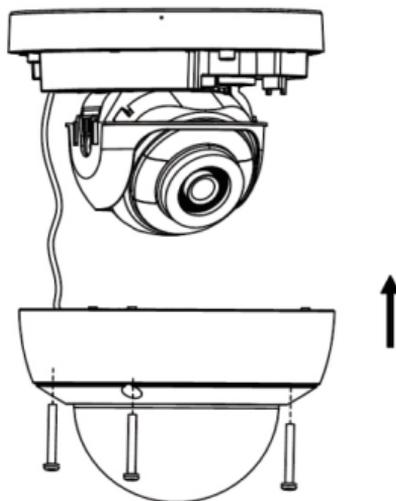


Figure 2-7 Install Bubble

■ 2.3 Mounting with Brackets

This camera series supports mounting with wall mounting bracket and pendant mounting bracket.

■ 2.3.1 Wall Mounting with Junction Box

The wall mounting bracket with junction box is not included in the package. You need to prepare one, if you adopt this mounting type.

Steps:

1. Mark the screw holes on desired mounting place.
2. Fix the bracket to the wall with four expansion bolts.

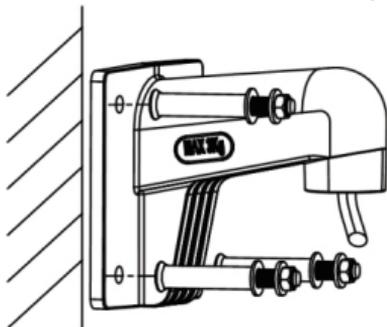


Figure 2-8 Fix the Bracket

3. Route the cables.

Note:

If you install the camera for outdoor scenes, install the waterproof jacket to the network cable. See Section .

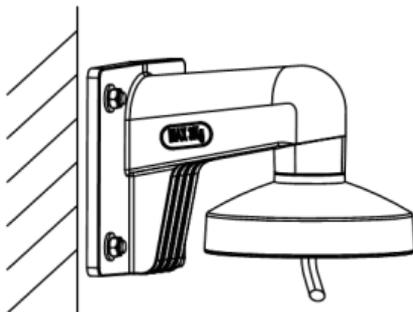


Figure 2-9 Cable Routing

1. Unscrew the bubble of the camera.
2. (Optional) Insert the memory card to the camera, if your camera supports memory card installation. Refer to Section .
3. Fix the camera to the cap of the wall mounting bracket.

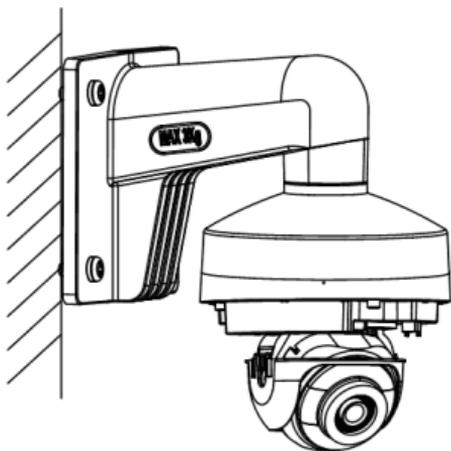


Figure 2-10 Fix the Camera to Wall Mounting Bracket

1. Adjust the surveillance angle of camera. Refer to Step 4 in Section .
2. Install the bubble back to the camera.

■ 2.3.2 Pendant Mounting

The pendant mounting bracket is not included in the package. You need to prepare one in advance, if you adopt this mounting type.

Steps:

1. Mark the screw holes on the desired mounting place.
2. Drill four screw holes for expansion bolts.
3. Route the cables and fix the pendant mounting bracket to ceiling.

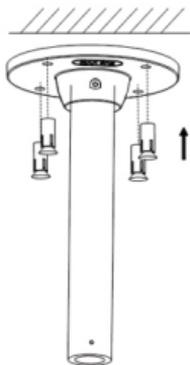


Figure 2-11 Fix the Pendant Mount

4. Unscrew the bubble of the camera.
5. (Optional) Insert the memory card to the camera, if your camera supports memory card installation. Refer to Section .
6. Fix the camera to the cap of the pendant mounting bracket with three supplied self-tapping screws.

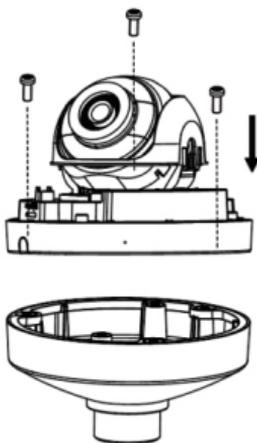


Figure 2-12 Fix the Camera to Cap

7. Screw the cap to the pendant mounting bracket.

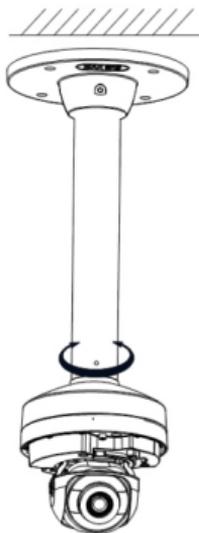


Figure 2-13 Install the Cap

1. Adjust surveillance angle of camera. Refer to Step 4 in Section 2.2.
2. Install the bubble back to the camera.

■ 2.4 Waterproof Measures

If the camera is installed outdoor, you should use the waterproof accessory or tapes to waterproof the cables. Otherwise, the cables might get wet or a short circuit occurs.

■ 2.4.1 Install Network Cable Waterproof Jacket

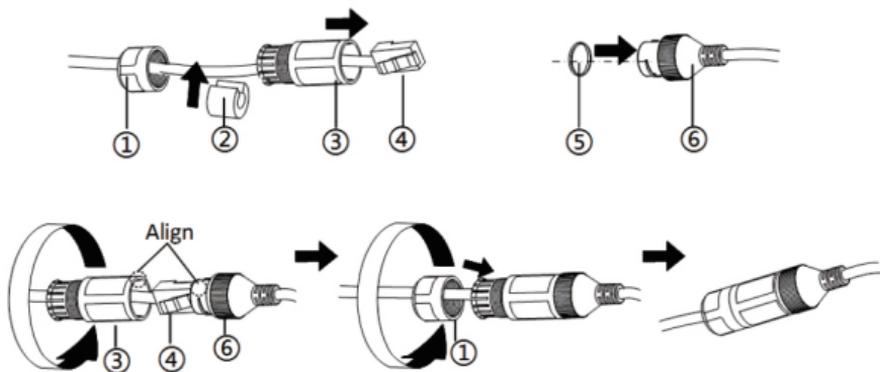


Figure 2-14 Install Waterproof Jacket

Step:

1. Feed the network cable through ① and ③ in order.
2. Fix ② on the network cable between ① and ③.
3. Place ⑤ onto the end of ⑥, and plug the RJ45 male connector into RJ45 female connector.
4. Screw ③ to ⑥ clockwise.
5. Push ② into ③.
6. Secure ① with the ③ in clockwise direction.

■ 2.4.2 Waterproof Other Cables

After routing and connecting the cables, use the waterproof tapes to wrap up the cables. Connected cables and spare cables both should be wrapped up as the figures below.

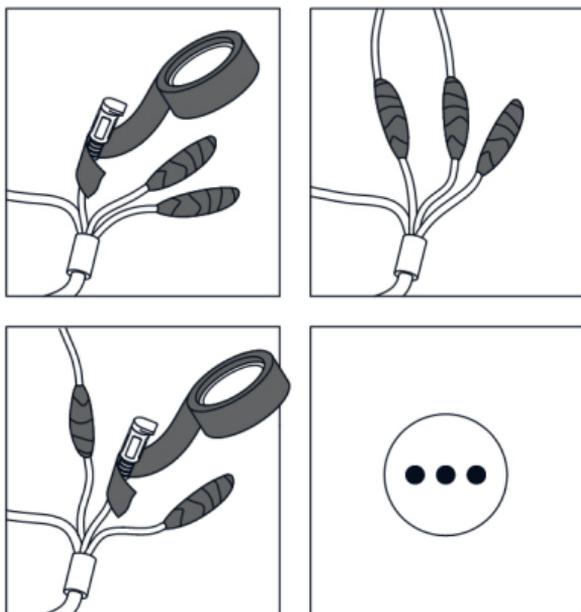


Figure 2-15 Waterproof Cables

■ 3. Activate and Access Network Camera

Scan the QR code to get Activate and Access Network Camera. Note that mobile data charges may apply if Wi-Fi is unavailable



■ 4. Operate IP Cameras via IE Browser

You can configure the IP cameras In the LAN network via the IE browser.

1.Power on the camera with a DC 12 V adapter and connect it to the same router as your computer with a network cable.

2.Install the SADP software and search the camera.

can download SADP software from our website:

<https://www.anpvizsecurity.com/software-tools-app-a00062a1.html>.

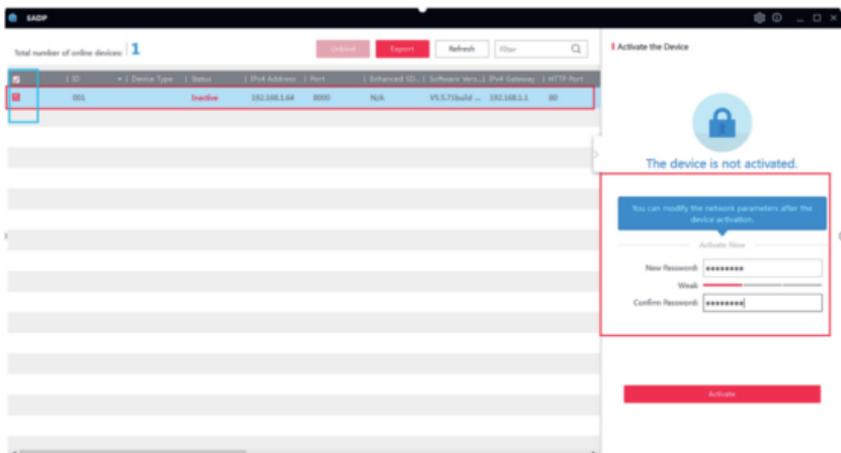
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- ① User Start Guide
- ② Firmware
- ③ **Software/Tools/App**
- ④ Disc package file

Software/Tools/App

	Uprime series	HK Series
Search Tool	Search Tools (for Windows)	SADP (for Windows)
	Search Tools (for Mac OS)	SADP (for Mac OS 32bit)
	A/DevTools (for Windows)	SADP (for Mac OS 64bit)

3.Check the box of the camera and then activate the camera by creating a login password.

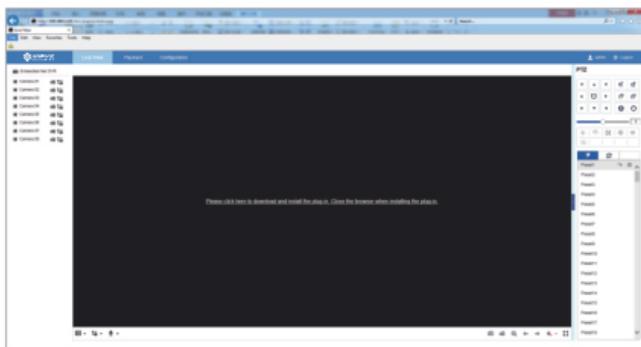


The screenshot shows the SADP software interface. On the left, there is a table titled "Total number of online devices: 1". The table has columns for ID, Device Type, Status, IP Address, Port, Enhanced ID, Software Ver., and MAC Address. The first row shows a device with ID 955, Device Type 955, Status "Inactive", IP Address 192.168.3.84, Port 8080, Enhanced ID N/A, Software Ver. V5.5.73build_1, and MAC Address 192.168.3.2. A red box highlights the first row. On the right, there is a section titled "Activate the Device" with a lock icon. Below the icon, it says "The device is not activated." and "You can modify the network parameters after the device activation." There are three password input fields: "Activate Name", "New Password", and "Confirm Password", each with a red box around it. A red "Activate" button is at the bottom.

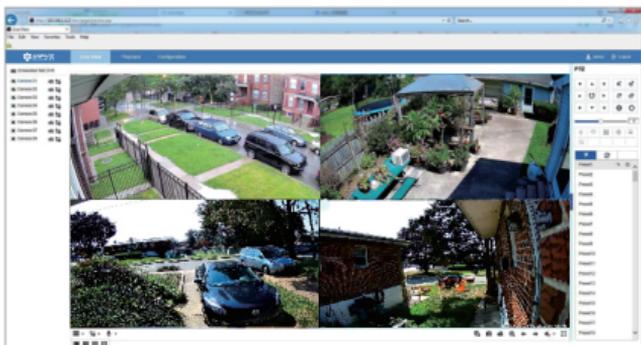
4. Double click the camera's address or you can input the IP address on the IE browser to enter the login page. The default account name is admin and the password is the one you just set up.



5. Download and install the plug-in to view live video and manage the camera. Close the browser when installing the plug-in.



6. Re-open the IE browser and log in the camera. Choose the channel you want to access and set up the camera by clicking Configuration.

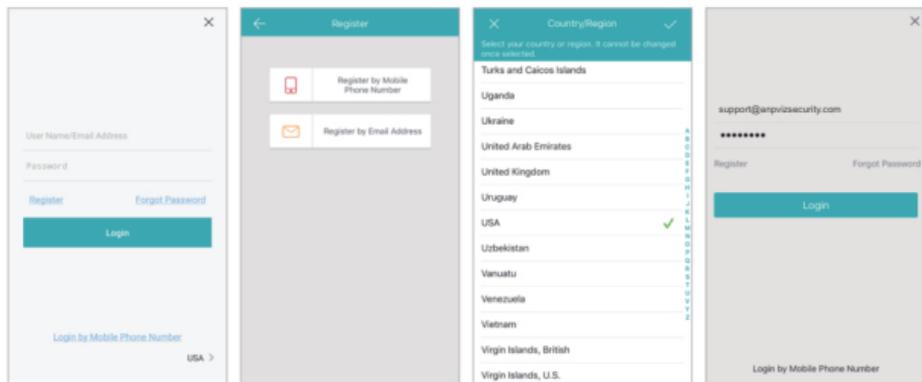


■ 5. Remote Live Stream via Smart phones

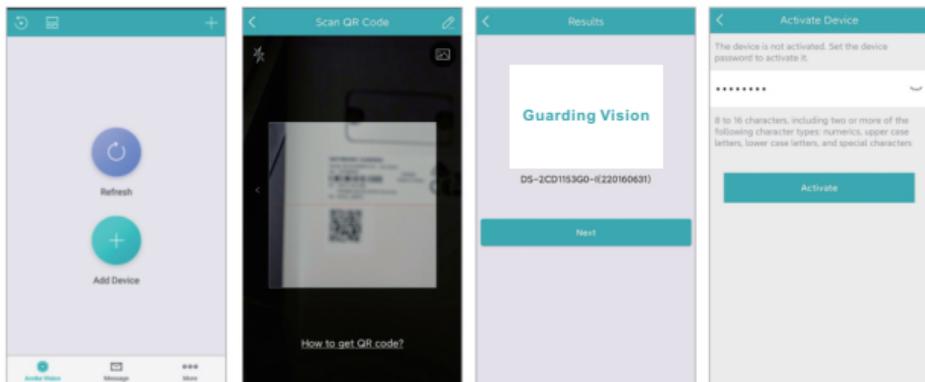
You can view the IP camera remotely via your mobile phone with the GuardingVision App.

1. Power on the camera with a DC 12 V adapter and connect it to the same router as your computer with a network cable. Make sure the router has connected to the Internet.
2. Download GuardingVision App from Google Play or Apple Store. Click Register to sign up an account with your phone number or email address. Please click Login after you have registered the account successfully.

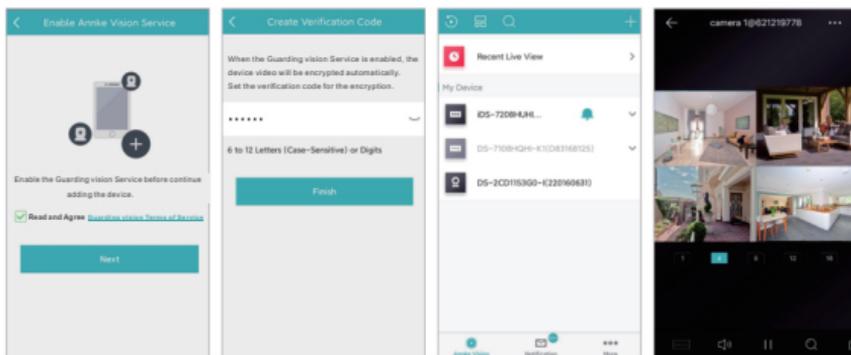
Note: Please select the correct country/region (the same location as your device) when you register an account. It cannot be changed once selected



3. Select **Add Device** , or click the icon "+" in the upper right corner to add a device. Scan the camera's QR code on the device label. Click **Next** and create a password to active the device if it has not been activated.



4. Click Read and Agree GuardingVision terms of service to enable GuardingVision service before continuing to add the device. Create a verification code and finish the adding process. After that, the device will be shown in the device list. Click the device name to get live view.



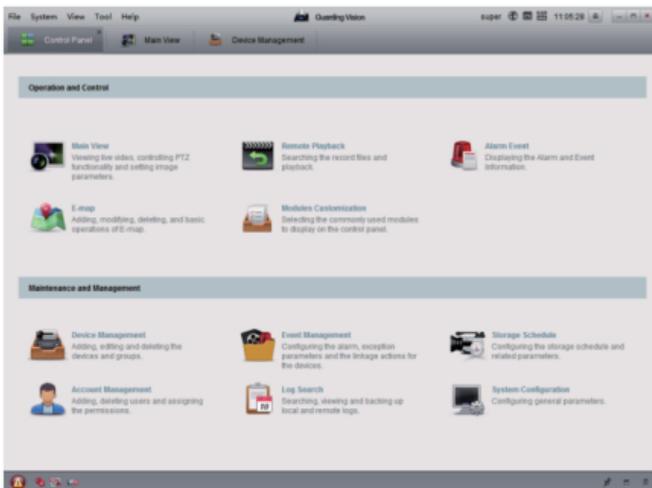
Note: For your security, a serial number can only be added by one account, but an account can be used on multiple mobile phones. You can share your device with others.

■ 6. Operate IP Camera via Computer Software

1. Power on the camera and connect it to the same router as your computer with a network cable.
2. Install the desktop software **Guarding Vision/IVMS 4200** and search the camera. You can download **Guarding Vision/IVMS 4200** from our website:
<https://www.anpvizsecurity.com/software-tools-app-a00062a1.html>

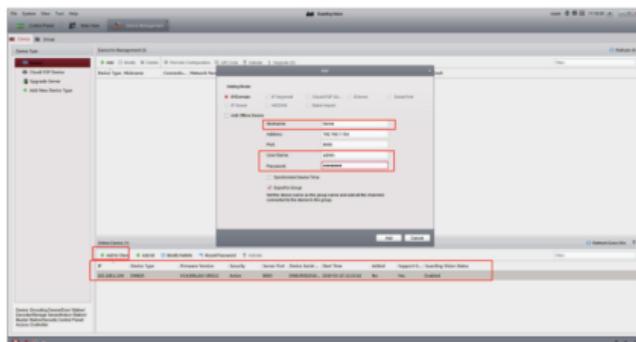
Software/Tools/App		
	Uprime series	HK Series
Search Tool	Search Tools (for Windows)	SACP (for Windows)
	Search Tools (for Mac OS)	SACP (for Mac OS 32bit)
	AJDevTools (for Windows)	SACP (for Mac OS 64bit)
App	  	  
PC Client	UC Client	IVMS-4200 (for Windows)
		 IVMS-4200-2.0.0-B-12 9uk82020423.png (for Mac)
Web Plug-in	WBCWebNg	
Others		Hikvision Brand product App store

3. Launch Guarding Vision/IVMS 4200 software. The control panel and live view interface of Guarding Vision/IVMS 4200 are shown below.



4. Go to **Control Panel-Device Management-Device**. At the bottom of the screen and in the **Online Devices** section, the screen will display all devices on the network. Create a password to activate the device if the device's status is inactive.

5. Click **Add to Client**. Input Nickname, User Name and Password (the password is the same as your activated password instead of the verification code). Click **Add** to add the device to the client software (as shown in the picture below).

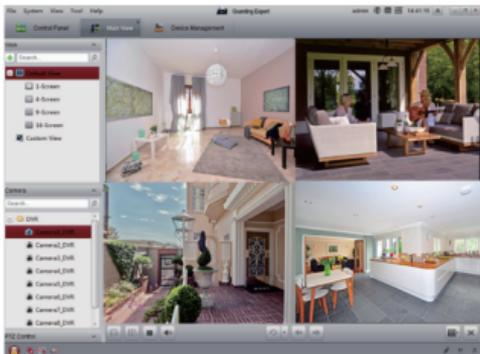


Note: If you want to access the camera remotely via the desktop software Guarding Vision, please choose **Guarding Vision/IVMS 4200 Device** and log in your cloud account to view remote live stream.

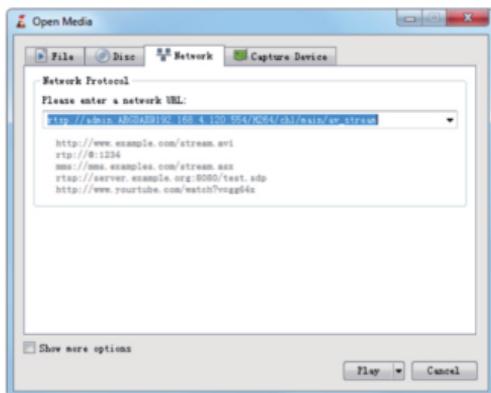
6. Go to **Control Panel-Main View**.

If you have added the IP camera, you can get a live view in the screen (as shown in the picture below).

For more information, Please press **F1** to get user manual



■ 7.View Live Stream with Other Software thats Supports RTSP Protocol



The IP camera supports RTSP protocol. The camera can be accessed via the VLC player. Blue Iris, tinyCam and other software that supports RTSP.

The correct description of RSTP is as below:

`rtsp://[username]: [password]@[ip]: [port]/[codec]/[channel]/[subtype]/av_stream`

User name: admin (default)

Password: The password is the login password used to active your device.

IP: You can get the camera's IP address on the SADP software.

Port: 554

Codec: H264 (H.265)

Channel: ch1 (or the channel which you want to add, for example ch2)

Sub type: main (sub)

Fox example:

`rtsp://admin:qwer1234@192.168.1.64:554/H264/ch1/main/av_stream`

■ 8. Connect IP Cameras to ANPVIZ NVRs

1. Please confirm that the resolution of the IP camera is not higher than the resolution that the NVR supports.

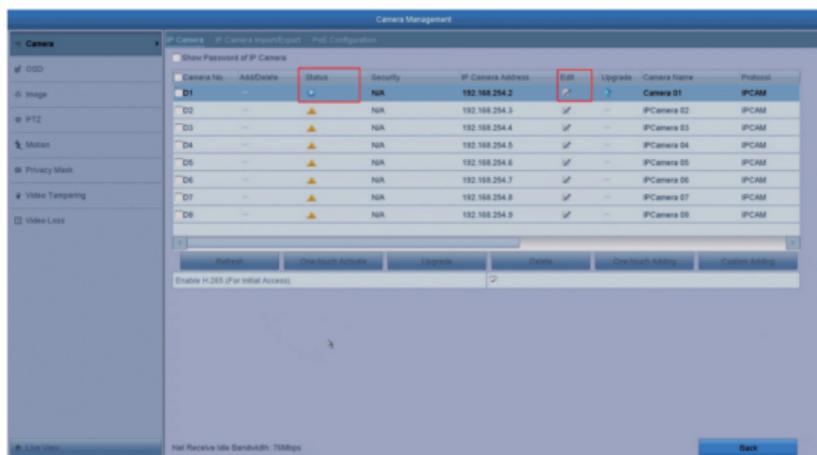
For example, the maximum resolution that the NVR108-8P NVR supports is 8MP. You can only connect the IP camera with up to 8MP resolution.

2. Make sure the NVR is activated and can be used normally.

3. Connect the IP camera to the NVR's PoE interface with a network cable.

4. Enter the NVR menu: Main Menu -> Camera Management -> Camera -> IP Camera.

5. Click the Refresh button. If the IP camera is not activated or the activation password of the IP camera is the same as the NVR the NVR will automatically activate the IP camera and add it to the NVR channel. The status display shows that the addition is successful.



If the activation password of the IP camera is different from the NVR it is advised to modify the activation password of the IP camera and the NVR through SADP first, and then connect the NVR.

■ 9. Connect the IP Cameras to Other Brands' NVRs via ONVIF Protocol

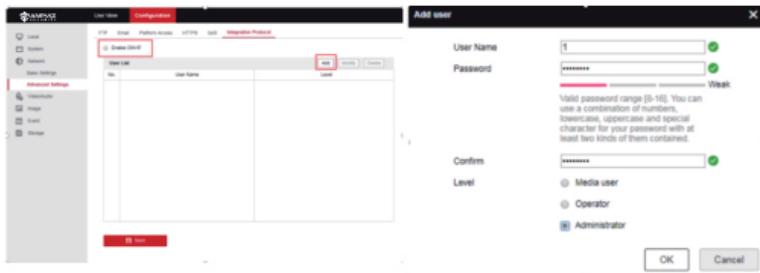
1. Please confirm that the resolution of the IP camera is not higher than the highest resolution that the NVR supports.

2. Power on the camera and connect it to the same router as your computer with a network cable (instead of connecting the camera to the NVR's POE port).

3. Install the SADP software and then active the IP camera. Log in the camera via the IE browser.

4. After logging in the camera, please go to Configuration -> Network -> Advance Setting -> Integration Protocol.

Check the **Enable ONVIF** box. Click **Add** to create an **ONVIF account** and password. The ONVIF account and **password** will be used when you add the IP camera to the third-party NVR or DVR.



5. Add IP camera to a third-party NVR. Here we take Dahua NVR as an example. Right click the mouse to enter the main menu. Click Setting -> Remote -> Device Search to detect the camera's IP address. Select the camera and click Manual Add.



6. Input the correct ONVIF user name and password of the IP camera (instead of the login user name and password). The status will be green if the addition is successful. Click Apply and you will see the live view.



Anviz Security Electronics Co.,Ltd.
Tech Support Email Address: support@anzvizsecurity.com

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