HIKVISION

ANPR Network Bullet Camera

Quick Start Guide

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About this Manual

This Manual is applicable to 4Axx 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

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 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

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

Industry Canada ICES-003 Compliance

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

Warning

This is a class A product. In a domestic environment this product may cause radio inter-ference in which case the user may be required to take adequate measures.

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.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 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 to +60°C, or -40°C to +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.)

Table of Contents

1 Appearance Description

This camera series has two appearance types.

1.1 Type I

The overview of the Type I bullet camera is shown below.
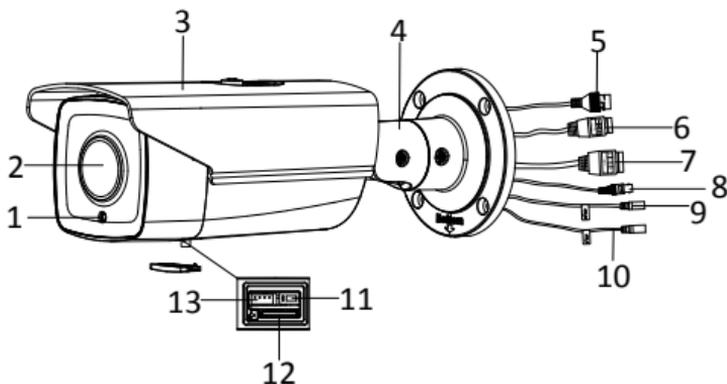
Figure 1-1 Overview of Type I Camera

Table 1-1 Description of Type I Camera

No.	Description
1	Photoresistor
2	Lens
3	Sun Shield

No.	Description
4	3-axis Bracket
5	RJ45 Network Interface
6	Power Cord (12 VDC)
7*	Alarm Input and Output Interface
8	BNC
9*	Audio Output Interface
10*	Audio Input Interface
11	Reset Button
12	Memory Card Slot
13	Serial Port

Note:

- The items marked with the "*" are only supported by certain camera models.
- 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., etc.

1.2 Type II

The overview of the Type II bullet camera is shown below.
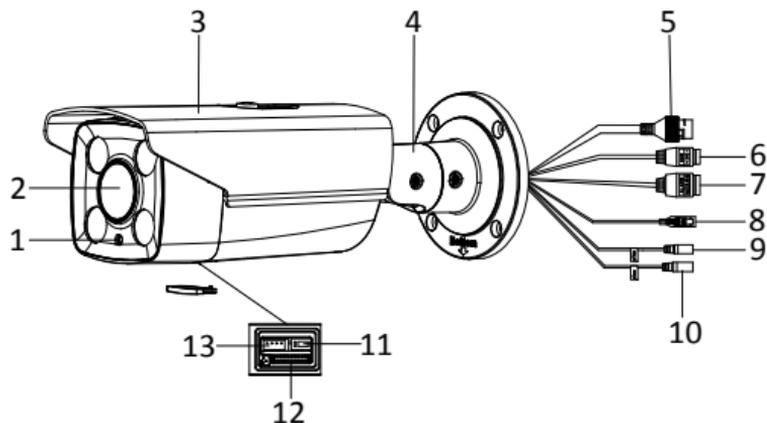
Figure 1-2 Overview of Type II Camera

Table 1-2 Description of Type II Camera

No.	Description
1	Photoresistor
2	Lens
3	Sun Shield
4	3-axis Bracket
5	RJ45 Network Interface
6	Power Cord (12 VDC)
7	Alarm Input and Output Interface
8	BNC

No.	Description
9	Audio Output Interface
10	Audio Input Interface
11	Reset Button
12	Memory Card Slot
13	Serial Port

Note:

● The items marked with the "*" are only supported by certain camera models.

● 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., etc.

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, 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 and white light supplement, you are required to pay attention to the following precautions to prevent IR/white light reflection:

- 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.

2.1 Memory Card Installation

This series of camera supports memory card installation. Follow the steps below to mount and unmount the memory card.

1. Loosen the two lock screws and remove the slot cover.
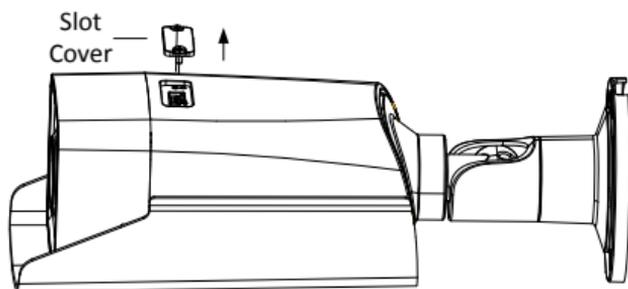
Figure 2-1 Remove Card Cover

2. Insert the memory card into the memory card slot.
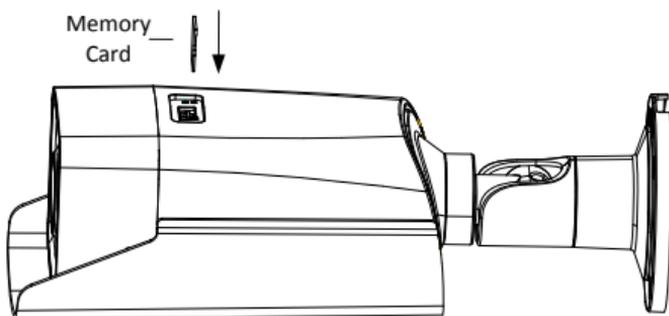
Figure 2-2 Insert the Card

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

4. Screw the slot cover back to the camera.

2.2 Direct Mounting

The camera series shares similar mounting steps. We take Type I camera as the example in demonstration.

Steps:

1. Drill 4 screw holes (hole 1 on drill template) and the cable hole in the ceiling/wall.
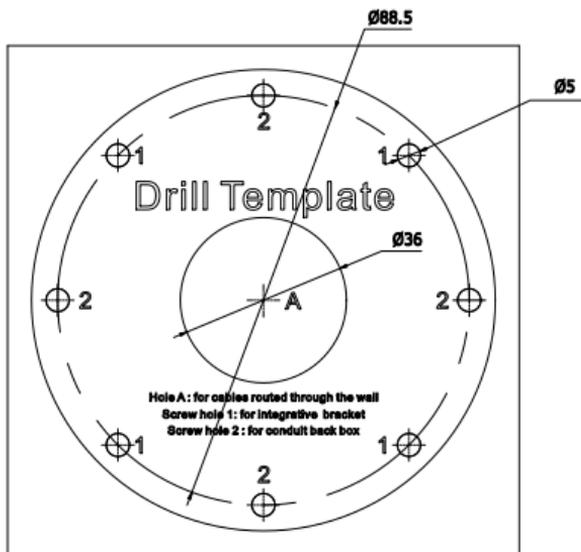

Figure 2-3 Drill Template

2. Fix the camera to the wall/ceiling with the supplied screws.

   Note:

   Insert the expansion screws first if the camera is mounted to the cement wall/ceiling. Use the self-tapping screws directly if camera is mounted to the wooden wall/ceiling.
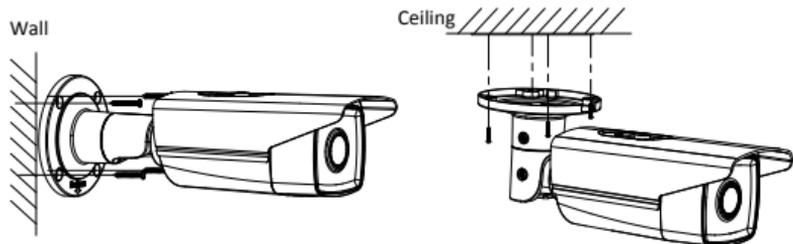
Figure 2-4 Install the Camera

3. Adjust the surveillance angle.

   1). Loosen No.1 lock screw to adjust the tilt angle [0 ° to 100°].

   2). Loosen No.2 lock screw to adjust the pan angle [0° to 360°].

   3). Loosen No.3 lock screw to rotate the camera [0° to 360°].

   4). Tighten the lock screws.

Note:

A wrench is supplied to loosen and tighten the screws.
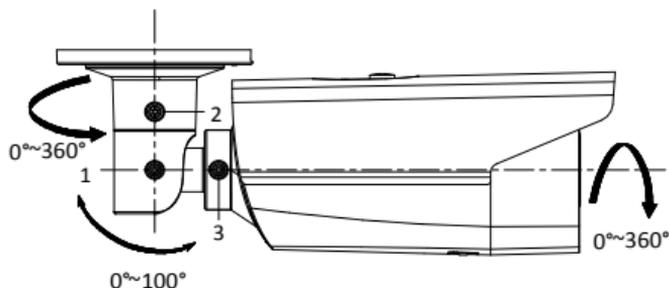
Figure 2-5 Adjust the Surveillance Angle
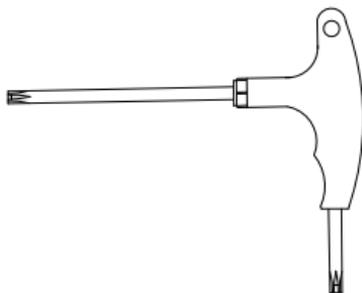
Figure 2-6 Supplied Wrench

4. (Optional) Install the water-proof jacket for network interface.
   Refer to *Section 2.5 Network Cable Water-proof Jacket Installation (Optional)*.

Note:

It is recommended to adopt the water-proof jacket (supplied) for the network interface, especially when the camera is installed outdoor.

2.3 Mounting with a Junction Box

Before You Start:

Junction box is not included in package. You need to prepare one in advance if you adopt this mounting type. The shown junction box is for demonstration.
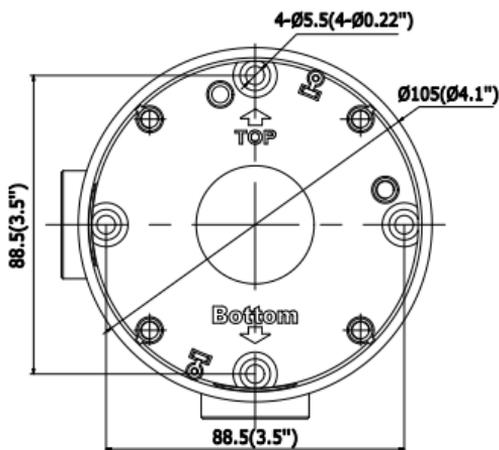
Figure 2-7 Dimension of Junction Box

Steps:

1. Paste the drill template to desired mounting place. Drill the screw hole and cable hole according to the supplied drill template (shown as Figure 2-3).

2. Align the screw holes of the junction box to the drill template, and fix the junction box to the wall with screws.

3. Hang the camera with the safety rope of junction box.

4. Route the cables.

5. Fix the camera to the junction box with screws.

6. Adjust the surveillance angle according to step 3 in *Section2.2.*

7. Install the water-proof jacket according to *Section 2.5.*
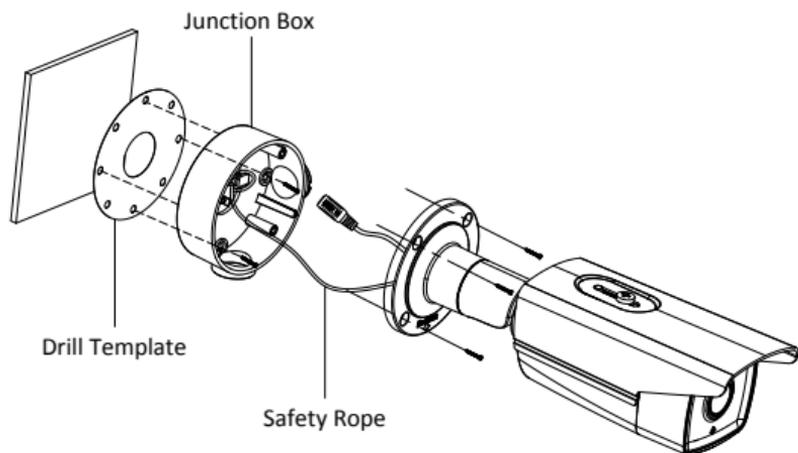
Figure 2-8 Installation with a Junction Box

2.4 Mounting with a Gang Box

Before You Start:

An adapter plate should be purchased separately if you mount the camera to a gang box.

Steps:

1. Install the adapter plate to the gang box.

2. Route the cables.

3. Fix the camera to the adapter plate with screws.

4. Adjust the surveillance angle according to step 3 in *Section 2.2.*

5. Install the water-proof jacket according to *Section 2.5*.
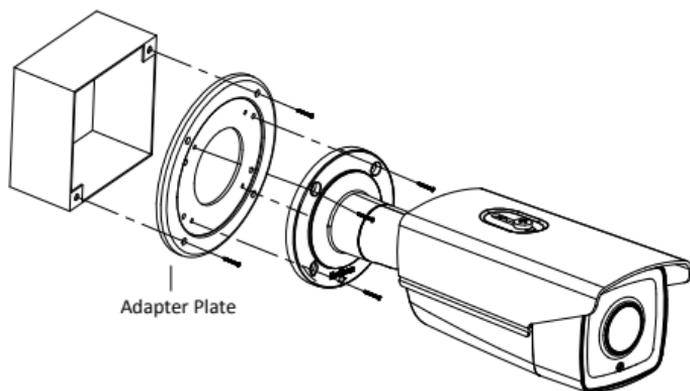
Figure 2-9 Installation with a Gang Box

2.5 Network Cable Water-proof Jacket Installation (Optional)

Purpose:

If the camera is installed outdoor, you can adapt the water-proof accessory for the network cable after the camera is secured on the installation surface.
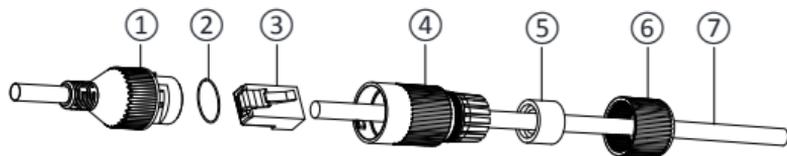

Figure 2-10 Water-proof Accessory Components

Table 2-1 Components

No.	Components
1	Camera's Network Interface Socket
2	O-Type Gasket
3	Network Plug
4	Waterproof Endcap
5	Waterproof Rubber Gasket
6	Lock Nut
7	Network Cable from Router/Switch

Steps:

1. Feed the plugless network cable ⑦ through the lock nut ⑥, waterproof rubber gasket ⑤ (rubber gasket inset ridge must face waterproof endcap), and the water-proof endcap ④ in order.
2. Crimp an RJ-45 network plug ③ onto the end of the cable, taking care to insert the twisted pairs of wires in correct order.
3. Place the O-type gasket ② onto the end of the camera's network interface socket ①.
4. Insert the network plug ③ into the camera's network interface socket ①.

5. Insert the water-proof rubber gasket ⑤ into the waterproof endcap ④, and secure lock nut ⑥ with the water-proof endcap ④.

6. Align the snap on the water-proof endcap ④ with the notch on the camera's network interface socket ①, and then secure the water-proof endcap ④ to the camera's network interface socket ① to finish installation.
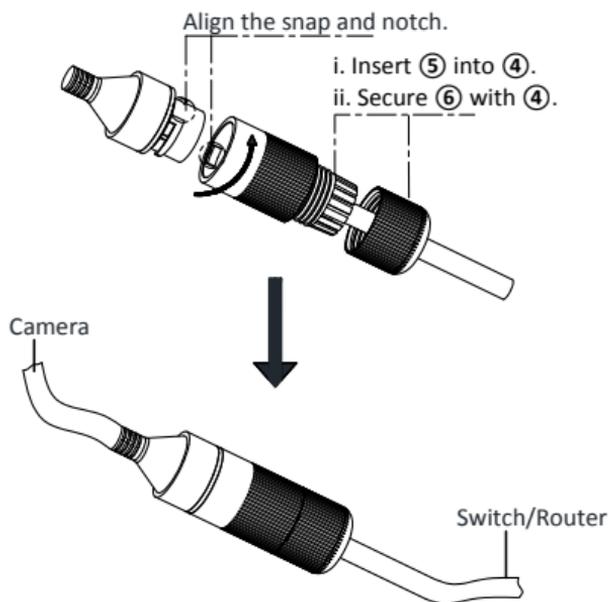
Figure 2-11 Water-proof Accessory Installation

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, please contact with your dealer or the nearest service center.

3.1 Wiring

Please connect to the camera to the network according to the following figures
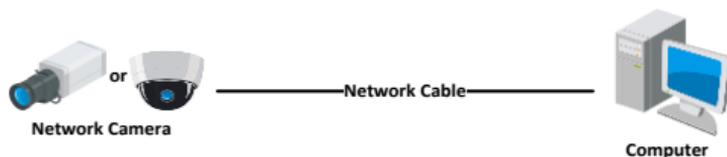
Figure 3-1 Connecting Directly
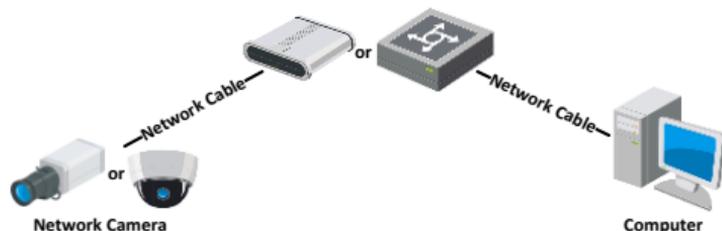
Figure 3-2 Connecting via a Switch or a Router

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. Please 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, and connect the camera to the network.
2. Input the IP address into the address bar of the web browser, and click Enter to enter the activation interface.

   Notes:

   ● The default IP address of the camera is 192.168.1.64.

   ● For the camera enables the DHCP by default, you need to activate the camera via SADP software and search the IP address.
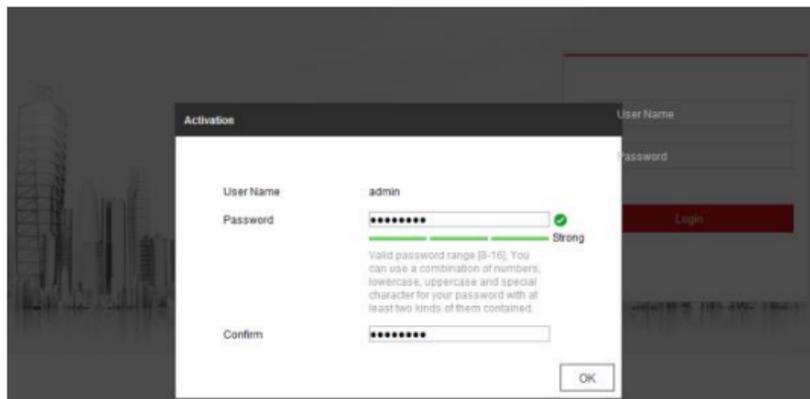
Figure 3-3 Activation Interface(Web)

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.

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, please refer to the User Manual of Network Camera for other two activation methods.

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.
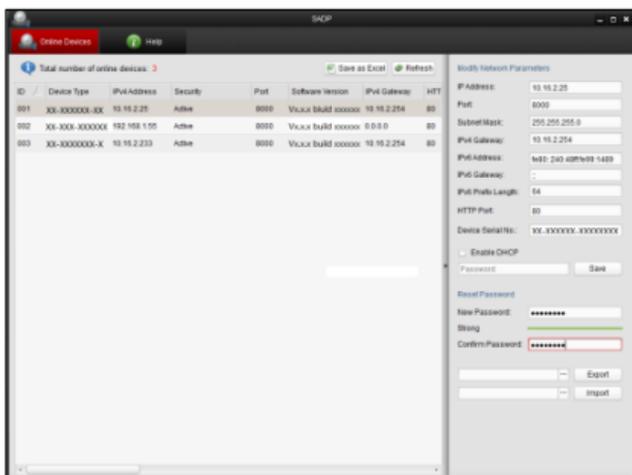
Figure 3-4 SADP Interface

Note:

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

3. Create a password and input the 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.*

4. Click **OK** to save the password.

You can check whether the activation is completed on the popup window. If activation failed, please 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. Then, install the SADP software or client software to search and change the IP of network camera. We will take modifying the IP Address via SADP software as an example to introduce the IP address modification.

Steps:

1. Run the SADP software.

2. Select an active device.

   Note:

   Please refer to Chapter 3.2 to activate the camera if the camera is inactive.

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.

Figure 3-5 Modify the IP Address

4. Input the password to activate your IP address modification.

The batch IP address modification is supported by the SADP; please refer to the User Manual of SADP for details.

4 Accessing via Web Browser

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.

   ● If the camera is not activated, please activate the camera first according to Chapter 3.2.

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. Please follow the installation prompts to install the plug-in.

Note:

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

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.

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