

Thermal Network Bullet Camera

Quick Start Guide

A1 SECURITY CAMERAS

Quick Start Guide

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About this Manual

This Manual is applicable to **Thermal Network Bullet 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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to comply with the limits for class A 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

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to you
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.

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.



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safeguards to prevent
serious injury or death.

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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

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- 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 between $-40^{\circ}\text{C} \sim 65^{\circ}\text{C}$), , 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

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- 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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There are two kinds of thermal network bullet cameras: Type I bullet camera, and Type II bullet camera. The appearance description of two cameras are shown below.

1.1 Type I Camera Appearance

The overview of Type I thermal network bullet camera and its components are shown below:

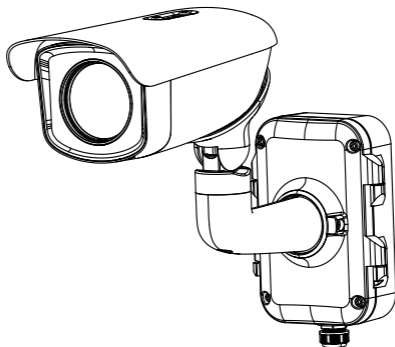


Figure 1-1 Type I Camera Overview

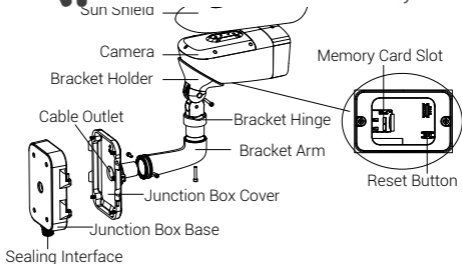


Figure 1-2 Type I Camera Components Overview

1.2 Type II Camera Appearance

The overview of Type II thermal network bullet camera is shown in below:

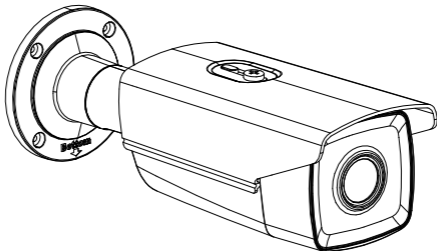


Figure 1-3 Type II Camera Overview

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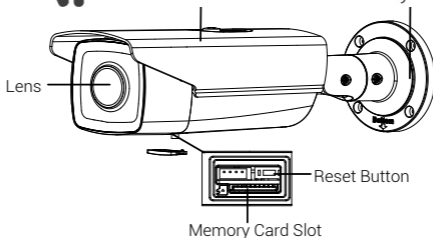


Figure 1-4 Camera Components and Cables

1.3 Cable Description

The bullet camera cables, including power cable, coaxial video cable, alarm cable, and audio cable are shown below. The Type I camera supports network cable and optical fiber. The Type II camera supports network cable.

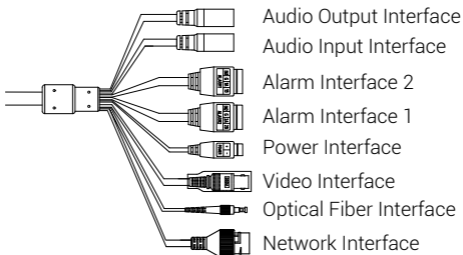


Figure 1-5 Cable Description

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Name	Description
Power Interface	24V AC and 12V DC are supported. For 12V DC power supply, make sure that the positive/negative terminals are connected correctly.
Network Interface	Connect to the LAN interface. PoE+ is supported for type II camera. Use switch that supports PoE+ function.
Alarm Interface	Two-way alarm input and alarm output are supported. Alarm In: IN1 and G/IN2 and G, Alarm Out: 1A and 1B/2A and 2B.
Audio Interface	Audio In: Pickup Audio Out: Loudspeaker
Video Interface	Local video signal output



- The cables may vary according to different models. Here we list all types of cables for reference. Take the actual product for the cables
- Alarm cables can be classified as 2-ch alarm input and 2-ch alarm output. ALARM-IN1 and ALARM-IN2 are alarm input interfaces, and G indicates grounding interface. (1A, 1B) and (2A, 2B) indicate two alarm output interfaces.
- To reset the camera to default parameters, you need to press and hold the RESET button and power on the camera. After the power on of the camera, you must still press and hold the Reset button for about 10 seconds.

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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 your camera.
- Make sure all the related equipment is power-off during the installation.
- Check the specification for the installation environment.
- Make sure that the wall is strong enough to withstand eight times the weight of the camera and the bracket.

For the camera that supports IR, mind the following precautions to prevent IR reflection:

- Do NOT remove the protective film until you finish the installation. For any dust or grease on the cover, clean them 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.
- Do NOT drag the camera with its waterproof cables, or the waterproof performance is affected.



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Make sure you install the memory card in the same way you disassemble the camera, so that the leak-free sealing performance will not be affected.

2.1.1 Type I Camera Memory Card Installation

Steps:

1. Unscrew the memory card slot cover and remove it.

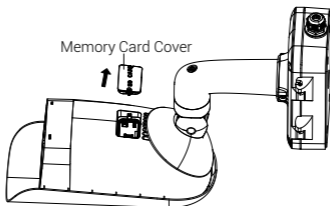


Figure 2-1 Removing Card Slot Cover (Type I Camera)

2. Insert the memory card into the memory card slot.

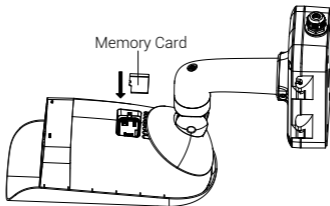


Figure 2-2 Inserting Memory Card (Type I Camera)

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2.1.2 Type II Camera Memory Card Installation

Steps:

1. Unscrew the memory card slot cover and remove it.

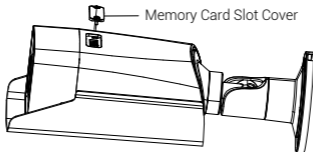


Figure 2-3 Removing Card Slot Cover (Type II Camera)



A rubber seal ring is on the top of the memory card slot cover. Do NOT lose the ring for the waterproof performance.

2. Insert the memory card into the memory card slot.

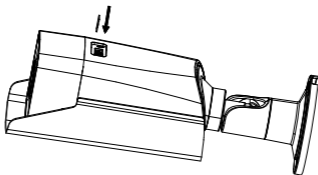


Figure 2-4 Inserting Memory Card (Type II Camera)

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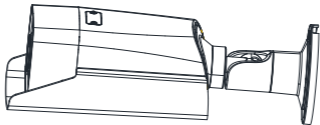


Figure 2-5 Fixing Memory Card Slot Cover (Type II Camera)

For fixed lens camera, the auto-focus function, and remote manual focus function are not supported.

Select the proper installation site, and proper lens focal length according to the Wide Range Coverage list below:

Table 2-1 Wide Range Coverage

Lens (focal length)	7mm	10mm	15mm	25mm	35mm	50mm	75mm
Detection range (Vehicles)	631m	902m	1353m	2255m	3157m	4510m	6765m
Detection range (Humans)	206m	294m	441m	735m	1029m	1471m	2206m
Recognition range (Vehicles)	158m	225m	338m	564m	789m	1127m	1691m
Recognition range (Humans)	51m	74m	110m	184m	257m	368m	551m
Identification range (Vehicles)	79m	113m	169m	282m	395m	564m	846m
Identification range (Humans)	26m	37m	55m	92m	129m	184m	276m



This table is for reference only, and the actual detection range may vary according to different camera settings, mounting condition, monitor and so on.

2.3 Installing Camera

2.3.1 Installing Type I Camera

Before you start:

There are three methods of Type I camera installation: wall mounting, ceiling mounting, and stand mounting.

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Figure 2-6 Type I Camera Installation Methods

Steps:

1. Loosen the screws on the junction box cover.
2. Draw the latches from the latch hole of the junction box and take apart the cover from the junction box.

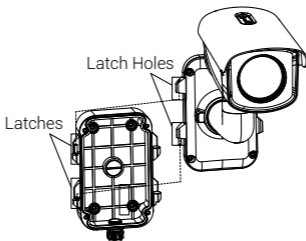


Figure 2-7 Take Apart Junction Box

3. Attach the drill template (supplied) to the place where you want to fix the camera, and then drill four screw holes (recommended depth: 40mm) in the ceiling/wall according to the drill template.
4. Drill a cable hole according to the *A mark* of the drill template.

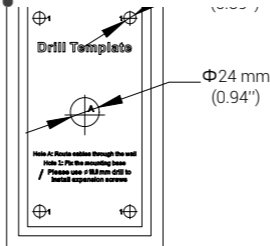


Figure 2-8 Drill Template (Type I Camera)

5. Align the hole of drill template with the screw hole of the junction box base to place the junction box onto the wall.
6. Route the screw through the sealing ring, and fix the junction box base on the wall with the screws.

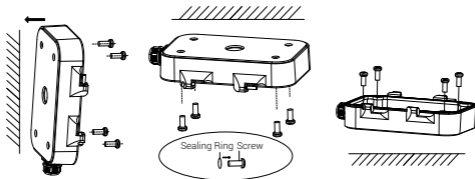


Figure 2-9 Installing Junction Box Base

7. Route the cables through the cable hole.
8. Insert the latches into the latch holes to fix the bracket and camera with the junction box.



Figure 2-10 Installing Junction Box Cover

9. Fix the delivered screws to secure the junction box.
10. Connect the corresponding cables to power on the camera and get the live view.
11. Adjust the camera according to the figure below.

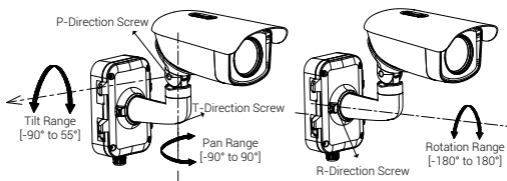


Figure 2-11 3-Axis Adjustment

2.3.2 Installing Type II Camera

Steps:

1. Attach the drill template (supplied) to the place where you want to fix the camera, and then drill the screw holes in the ceiling/wall according to the drill template.

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2. (C) The First Name in Security on surface, and a cable hole according to the drill template. Otherwise, skip the step if you route the cable via the side opening.

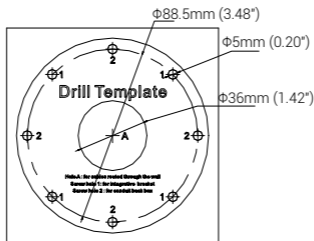


Figure 2-12 Drill Template (Type II Camera)

3. (Optional) Fix the camera to the junction box.
- 1) Attach the drill template (supplied) to the place where you want to fix the junction box, and then drill four holes in the ceiling/wall according to the drill template.
 - 2) (Optional) If you want to route cables through the installation surface, drill a cable hole according to the drill template. Otherwise, skip the step if you route the cable via the side opening.

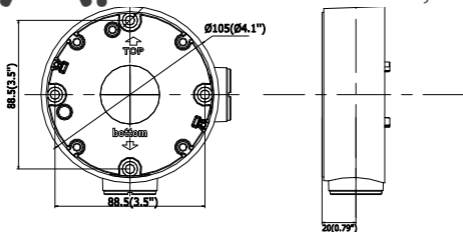


Figure 2-13 Drill Template

- 3) Make sure the *Top* are on the top and the *bottom* are at the bottom. Fix the junction box to the installation surface with the supplied screws.
- 4) Fix the bullet camera to the junction box with the supplied screws, as shown in Figure 2-14.

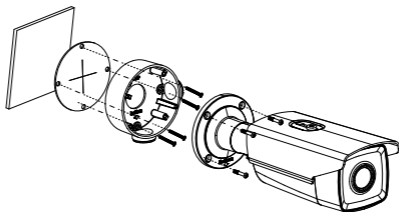


Figure 2-14 Install the Camera onto the Junction Box

4. Fix the bullet camera to the installation surface with the supplied screws, as shown in Figure 2-15.

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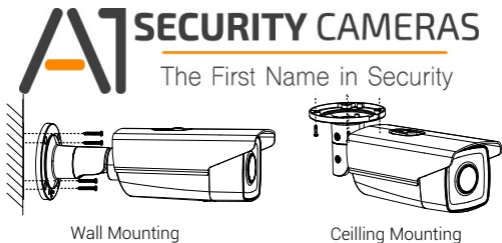


Figure 2-15 Install the Bracket onto the Wall

5. Adjust the camera to the optimal surveillance angle.
- 1) Loosen the pan adjusting screw to adjust panning position [0° to 360°]. Tighten the screw.
 - 2) Loosen the tilt adjusting screw to adjust the tilting position [0° to 100°]. Tighten the screw.
 - 3) Loosen the rotation adjusting screw to adjust the rotation position [0° to 360°]. Tighten the screw.

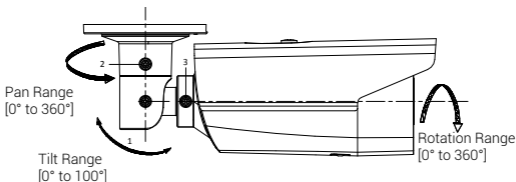


Figure 2-16 3-axis Adjustment



Please loosen the screws slightly until you can adjust the camera. Do NOT remove the screws from the bracket.

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2.4 Installation of Network Cable Water-proof Jacket

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.

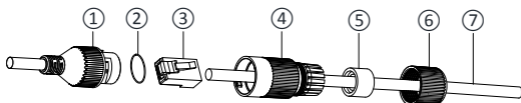


Figure 2-17 Water-proof Accessory Components

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

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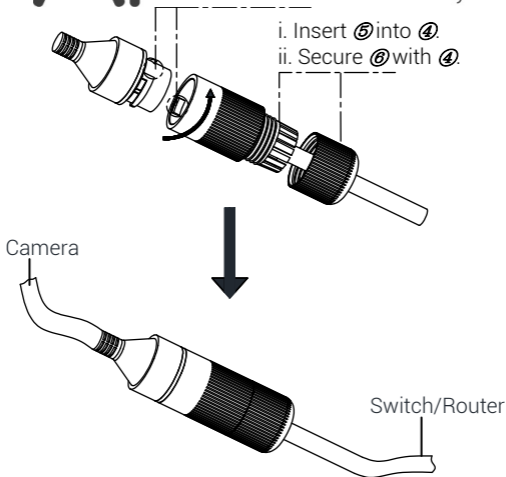


Figure 2-18 Water-proof Accessory Installation

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.

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4. In the network interface socket, insert the network cable. The First Name in Security
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.

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 2-19 Connecting Directly

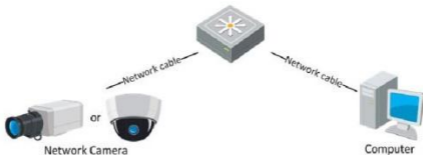


Figure 2-20 Connecting via a Switch or a Router

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3.2 The First Name in Security

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.

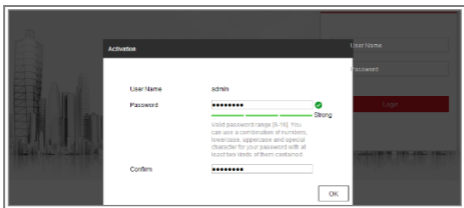


Figure 2-21 Activation Interface(Web)

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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.

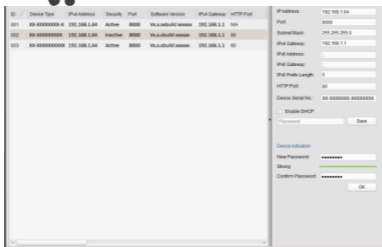


Figure 2-22 SADP Interface

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.

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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.

Modify Network Parameters

IP Address: 192.168.1.64

Port: 8000

Subnet Mask: 255.255.255.0

IPv4 Gateway: 192.168.1.1

IPv6 Address: ..

IPv6 Gateway: ..

IPv6 Prefix Length: 0

HTTP Port: 80

Device Serial No.: XX-XXXXXXX-XXXXXXX

☐ Enable DHCP

Password Save

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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.

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).

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4. The First Name in Security



Figure 2-24 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.



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



Figure 2-25 Download Plug-in



Figure 2-26 Install Plug-in (1)

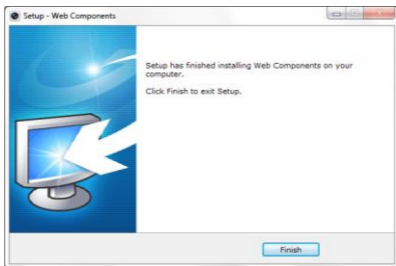


Figure 2-27 Install Plug-in (2)

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



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

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Frequently Asked Questions (FAQ)

Device Running Error

Question:

- The device fails to start up or reboots repeatedly.

Answer:

- Examine the power supply of the positioning system and see whether it meets the requirements.
- Select the power supply as close as possible.
- Examine the power cord and see whether it meets the requirements.

Device Upgrading

Question:

Device fails to upgrade.

Answer:

- Examine if the device upgrading fails because of the poor network.
- Examine if the upgrading program matches with the device type.

Others

Question:

The device live view is vague.

Answer:

- Examine if you removed the protective film.
- Examine if the lens is dirty or not.

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Question:

Live view fails with good network connection.

Answer:

- Examine if the IE plug-in is well installed. Change the Website Blocker settings if necessary.
- For cross-domain routing, enable the UPnP of device, or set manual mapping to port No. 80, 8000, or 554.
- Examine if the live view channel amount exceeds the upper limit.
- Examine the network bandwidth.

Question:

Focus fails when you test outdoor device in indoor situation.

Answer:

- Restore the device to default settings.
- Adjust the **Min. Focusing Distance** in **Configuration > Image > Display Settings > Focus**

Material	Temperature (°C/°F)	Emissivity
Water	0 to 100/32 to 212	0.95~0.98
Soil (Dry)	20/68	0.92
Soil (Moist)	20/68	0.95
Wood	17/62.6	0.962
Sand	20/68	0.9
Sandstone	19/66.2	0.909~0.935
PVC (Polyvinyl Chloride)	70/158	0.93
Pitch	20/68	0.967
Paint	70/158	0.92~0.94
Wallpaper	20/68	0.85~0.90
Cloth	20/68	0.98
Concrete	20/68	0.92
Pavement	5/41	0.974
Smooth Porcelain	20/68	0.92
Ceramic	17/62.6	0.94
Plaster	17/62.6	0.86
Brick	35/95	0.94
Ebonite	0 to 100/32 to 212	0.89
Carbon	20 to 400/68 to 752	0.95~0.97
Granite (Rough)	20/68	0.879
CRS (Cold Rolled Steel)	70/158	0.09
Cupric Oxide	50/122	0.88
Copper	20/68	0.07
Copper Oxide	50/122	0.6~0.7

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