Network Camera

Quick Operation Guide

V4.0.3

Hangzhou Hikvision Digital Technology Co., Ltd.

http://www.hikvision.com

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

There is variety of structures of network cameras in our company. Appearances of all these cameras are listed in this manual. Find the model of your camera in the following list. Then according to the structure **Type** on the left of your camera **Model**, you can find corresponding chapter for instructions of your camera.

Type	Model
Box camera III	DS-2CD883F-E(W), DS-2CD855F-E, DS-2CD854F(WD)-E(W), DS-2CD853F-E(W), DS-2CD864F(WD)-E(W), DS-2CD863PF(NF)-E(W), DS-2CD893PFWD(NFWD)-E(W), DS-2CD833F-E(W), DS-2CD893PF(NF)-E(W)
Dome camera III	DS-2CD733F-E(I)(Z), DS-2CD793PF(NF)-E(I)(Z), DS-2CD793PFWD(NFWD)-E(I)(Z), DS-2CD763PF(NF)-E(I)(Z), DS-2CD764FWD-E(I)(Z), DS-2CD764F-E(I)(Z), DS-2CD753F-E(I)(Z), DS-2CD754F-E(I)(Z), DS-2CD754FWD-E(I)(Z)(B), DS-2CD783F-E(I)(Z), DS-2CD755F-E(I)(Z)
Dome camera IV	DS-2CD7233F-E(I)Z(H)(S), DS-2CD7253F-E(I)Z(H)(S), DS-CD7254F-E(I)Z(H)(S), DS-CD7254FWD- E(I)Z(H)(S), DS-2CD7255F- E(I)Z(H)(S), DS-2CD7283F-E(I)Z(H)(S), DS-2CD7293PFWD(NFWD)- E(I)Z(H)(S), DS-2CD7263NF(PF)- E(I)Z(H)(S), DS-2CD 7264FWD- E(I)Z(H)(S), DS-2CD7293PF(NF)- E(I)Z(H)(S)
Bullet Camera I	DS-2CD8253F- E(I)(Z)(S), DS-2CD8233F-E(I)(Z)(S), DS-2CD8264FWD-E(I)(Z)(S), DS-2CD8264F-E(I)(Z)(S), DS-2CD8254F- E(I)(Z)(S), DS-2CD8254FWD- E(I)(Z)(S), DS-2CD8283F- E(I)(Z)(S), DS-2CD8255F- E(I)(Z)(S)
Bullet Camera II	DS-2CD833-EI3, DS-2CD864-EI3, DS-2CD855-EI3
Cube Camera I	DS-2CD8133F-E(I)(W), DS-2CD8153F-E(I)(W)
Cube Camera II	DS-2CD8464F-E(I)(W), DS-2CD8433F-E(I)(W)
Mini Dome Camera	DS-2CD7164-E,DS-2CD7153-E, DS-2CD7133-E

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

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Table of Contents

Chapter 1 Appearance Description

There are ten physical structures of network cameras, Box camera I, Box camera II, Box camera III, Dome camera I, Dome camera II, Dome camera III, Dome camera IV, Bullet Camera, Cube Camera and Mini Dome Camera.

1.1 Appearance Description of Box Camera

1.1.1 Box Camera I

Camera description:

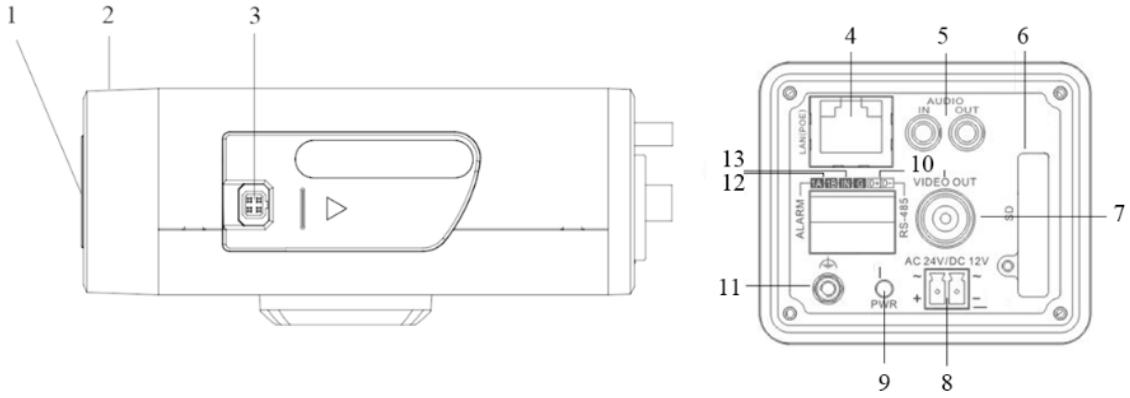


Figure 1-1 Overview

Table 1-1 Description

No.	Description
1	CS Lens mount
2	Back focus ring
3	Auto-iris interface
4	10M/100M self-adaptive Ethernet interface
5	AUDIO IN: Audio input interface AUDIO OUT: Audio output interface
6	SD: SD card slot
7	VIDEO OUT: Video output interface
8	Power supply interface
9	PWR: Power LED indicator
10	D+, D-: RS-485 interface
11	Ground
12	1A, 1B: Alarm output interface

13	IN, G: Alarm input interface

Note: The type of auto-iris interface is shown in Figure 1-2, and the definition of each pin is shown below:

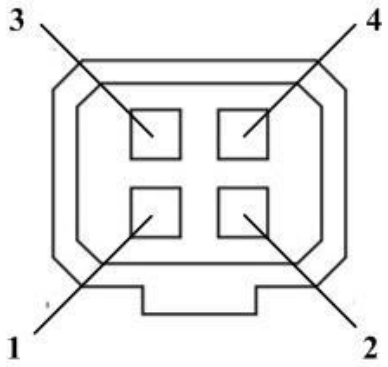


Figure 1-2 Auto-iris Interface

Table 1-2 Pins

	DC-driven
1	Damp-
2	Damp+
3	Drive+
4	Drive-

Damp+, Damp-, Drive+ and Drive- pins are used when the auto-iris is driven by DC.

Camera wiring Diagram:

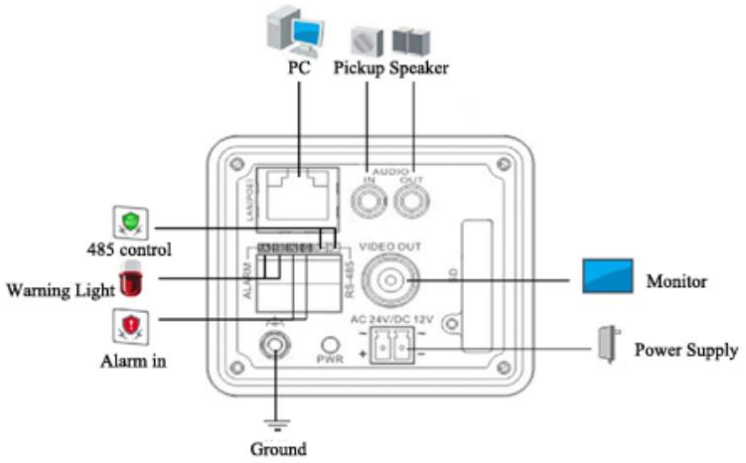


Figure 1-3 Wiring Diagram

1.1.2 Box Camera II

Camera description:

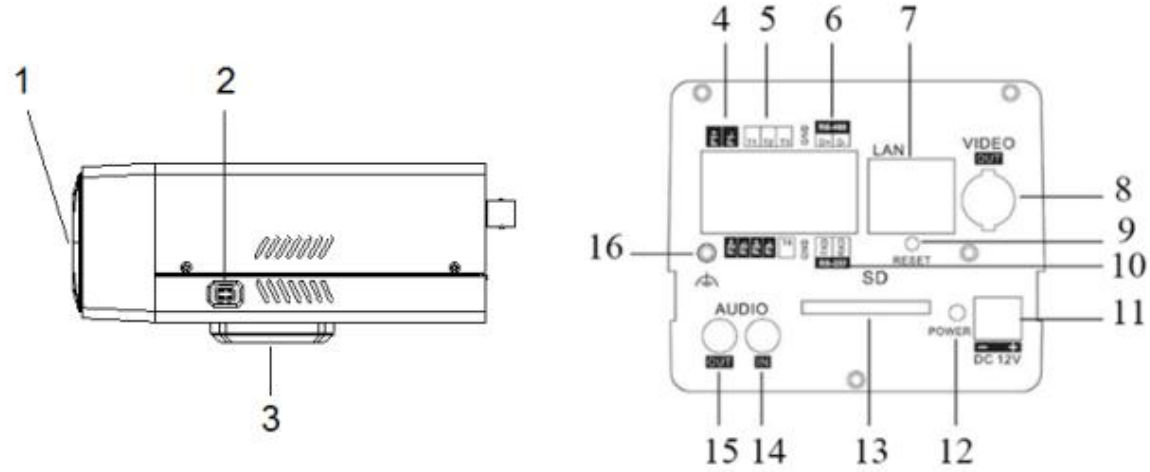


Figure 1-4 Overview

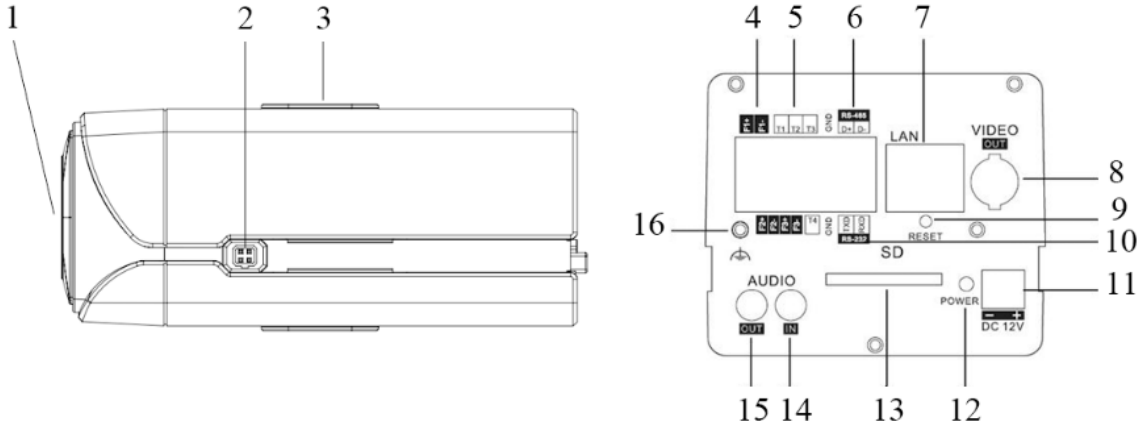


Figure 1-5 Overview

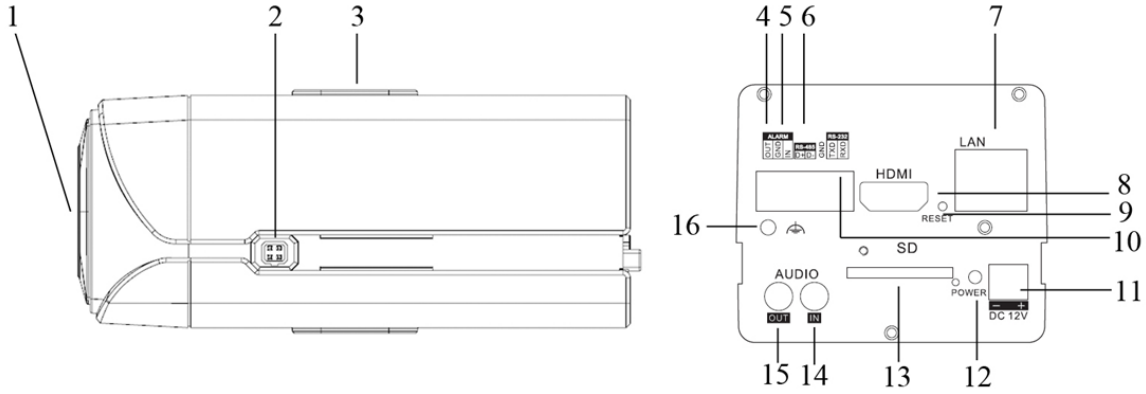


Figure 1-6 Overview

Table 1-3 Description

No.	Description
1	CS Lens mount

2	Auto-iris interface
3	Bracket mounting holes
4	F1+ F1-, F2+ F2- ,F3+ F3-: Alarm output interface
5	T1,T2,T3, T4,GND: Alarm input interface
6	D+, D-: RS-485 interface
7	10M/100M self-adaptive Ethernet interface
8	VIDEO OUT/HDMI: Video output interface
9	RESET: Reset button
10	TXD, RXD, GND: RS-232 interface
11	Power supply interface
12	POWER: Power LED indicator
13	SD: SD card slot
14	AUDIO IN: Audio input interface
15	AUDIO OUT: Audio output interface
16	Ground

Notes:

- After the powering on of the camera, pressing and holding the RESET button for about 10 seconds can reset all the parameters to the default settings.
- The type of auto-iris interface is shown in Figure 1-7, and the definition of each pin is shown below:

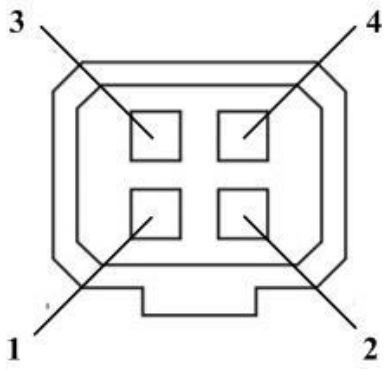


Figure 1-7 Auto-iris Interface

Table 1-4 Pins

	DC-driven
1	Damp-
2	Damp+
3	Drive+
4	Drive-

Damp+, Damp-, Drive+ and Drive- pins are used when the auto-iris is driven by DC.

Camera wiring Diagram:

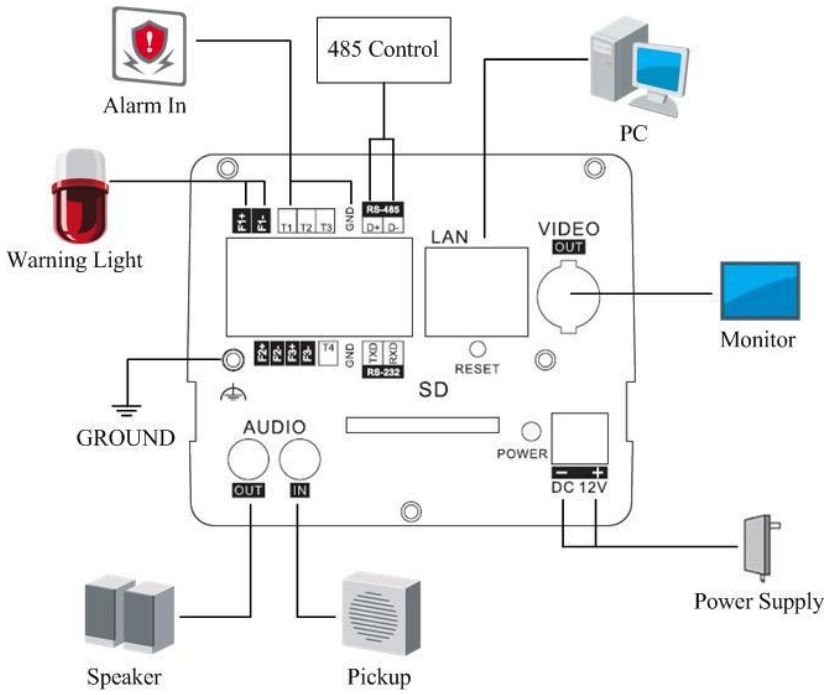


Figure 1-8 Wiring Diagram

1.1.3 Box Camera III

Camera description:

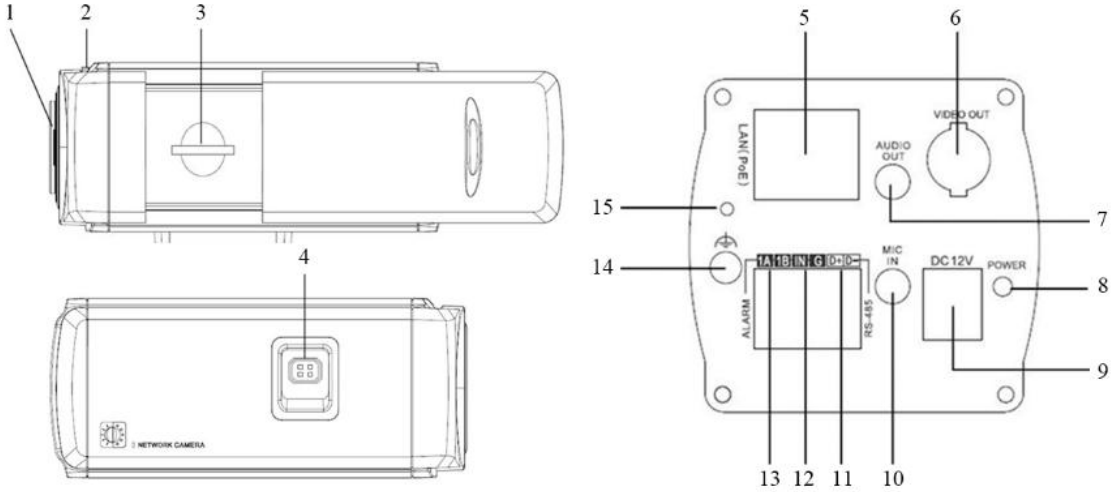


Figure 1-9 Overview

Table 1-5 Description

No.	Description
1	Lens mount

2	Back focus ring
3	SD card slot
4	Auto-iris interface
5	10M/100M self-adaptive Ethernet interface
6	VIDEO OUT: Video output interface
7	AUDIO OUT: Audio output interface
8	POWER: Power LED indicator
9	Power supply interface
10	MIC IN: Audio input interface
11	D+, D-: RS-485 interface
12	IN, G: Alarm input interface
13	1A, 1B: Alarm output interface
14	Ground
15	RESET: Reset button

Notes:

- After the powering on of the camera, pressing and holding the RESET button for about 10 seconds can reset all the parameters to the default settings.
- The type of auto-iris interface is shown in Figure 1-10, and the definition of each pin is shown below:

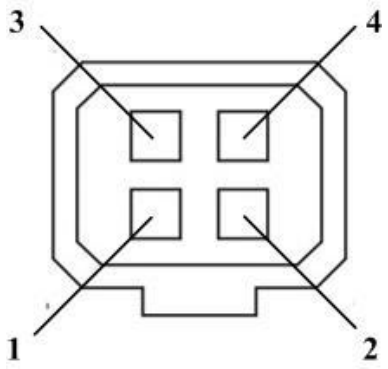


Figure 1-10 Auto-iris Interface

Table 1-6 Pins

	DC-driven
1	Damp-
2	Damp+
3	Drive+
4	Drive-

Damp+, Damp-, Drive+ and Drive- pins are used when the auto-iris is driven by DC.

Camera wiring Diagram:

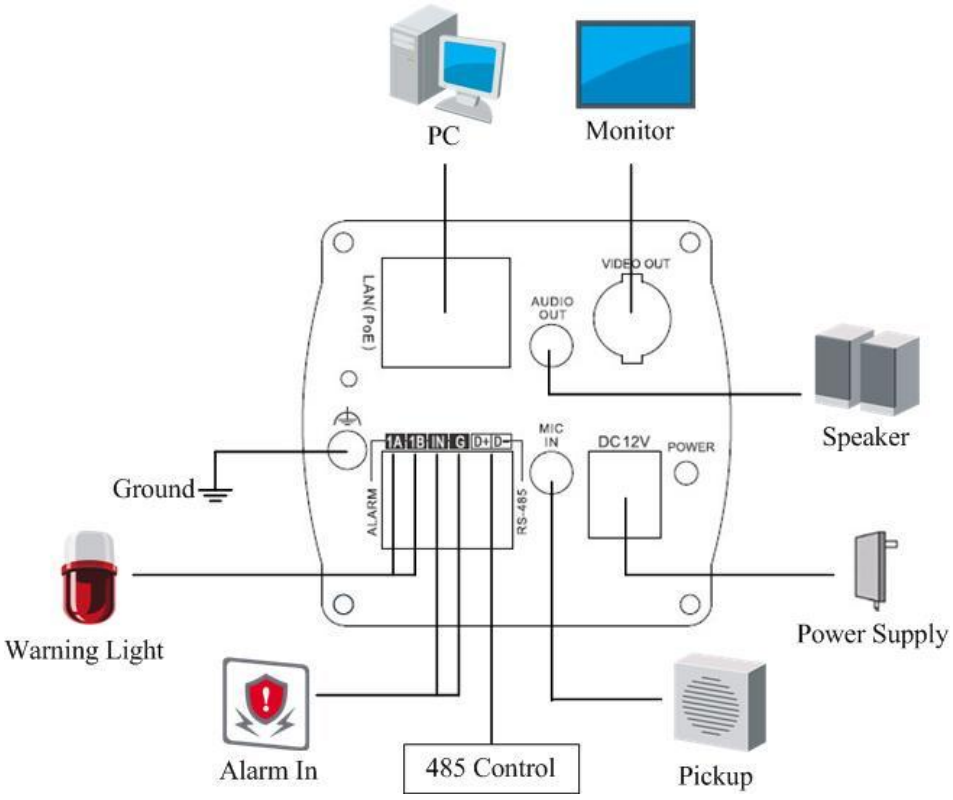


Figure 1-11 Wiring Diagram

1.2 Appearance Description of Dome Camera

1.2.4 Dome Camera I

Camera description:

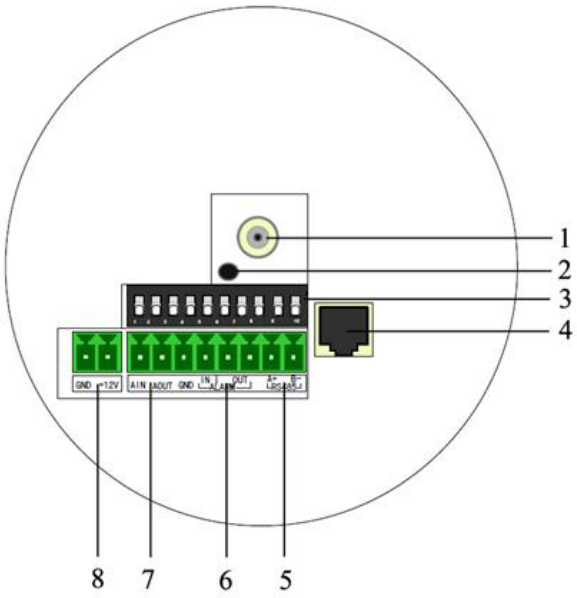


Figure 1-12 Overview

Table 1-7 Description

No.	Description
1	Video output interface
2	Power LED indicator
3	DIP switch
4	10M/100M self-adaptive Ethernet interface
5	D+, D-: RS-485 interface
6	Alarm IN: Alarm input interface Alarm OUT: Alarm output interface
7	AIN: Audio input interface AOUT: Audio output interface
8	Power supply interface

The function of positions 1-5 of DIP switch is shown below:

Position / Function	ON	OFF
1	SHARP: Sharpness	SOFT
2	AES: Auto Shutter	AI: Auto Iris
3	BLC: Back Light Compensation	OFF
4	FL: Anti-flicker	ON
5	NAGC: Normal AGC	SAGC: Special AGC

Camera wiring Diagram:

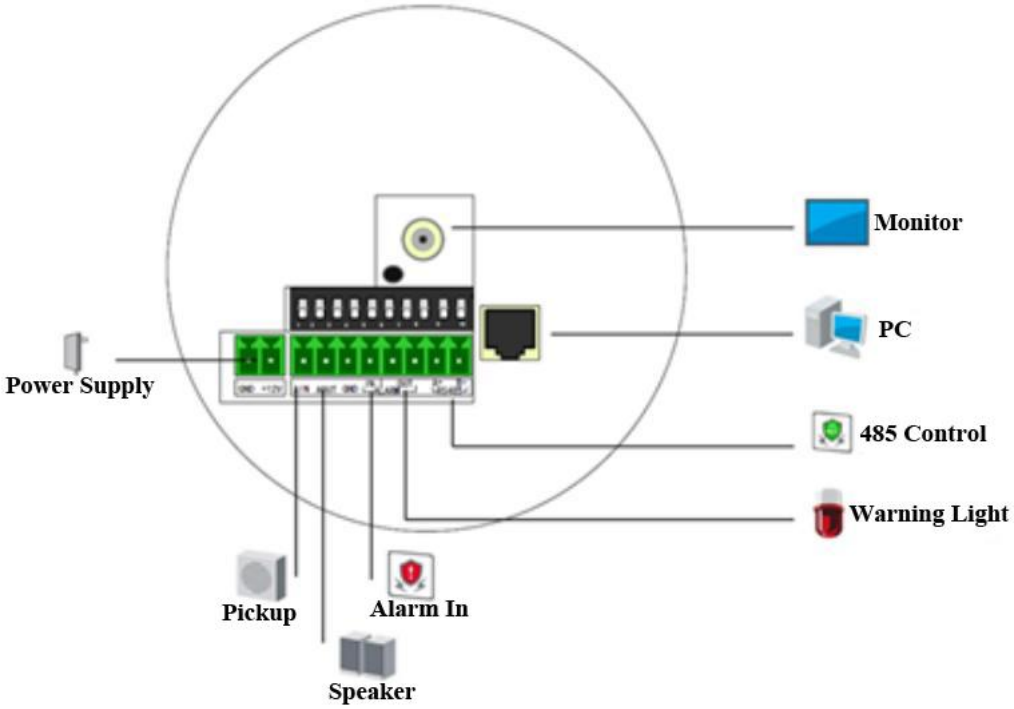


Figure 1-13 Wiring Diagram

1.2.5 Dome Camera II

Camera description:

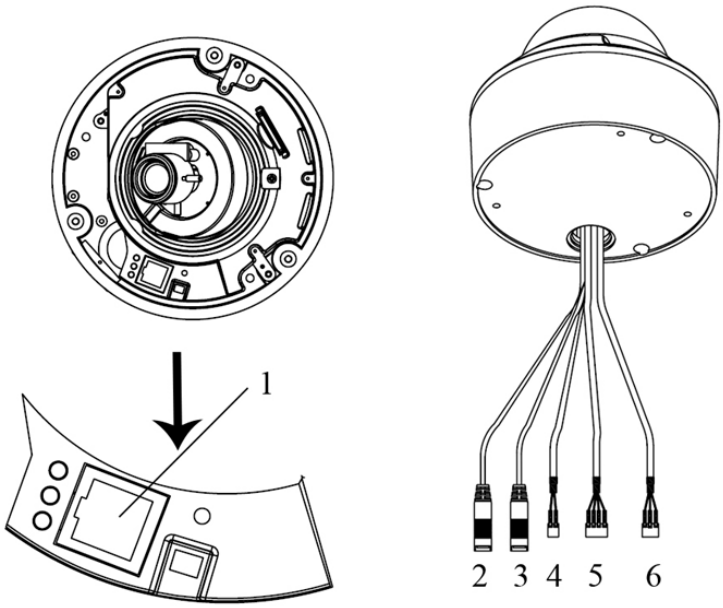


Figure 1-14 Overview

Table 1-8 Description

No.	Description
1	10M/100M self-adaptive Ethernet interface
2	AUDIO IN: Audio input interface
3	AUDIO OUT: Audio output interface
4	D+, D-: RS-485 interface
5	IN, G: Alarm input interface 1A, 1B: Alarm output interface
6	Power supply interface

Camera wiring Diagram:

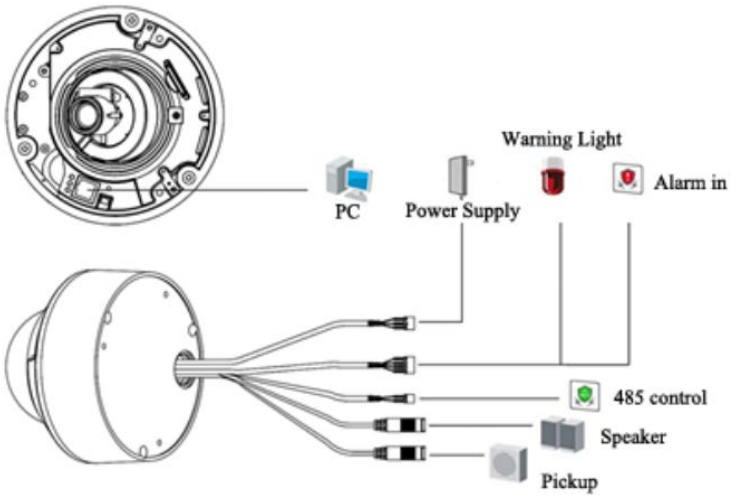


Figure 1-15 Wiring Diagram

1.2.6 Dome Camera III

Camera description:

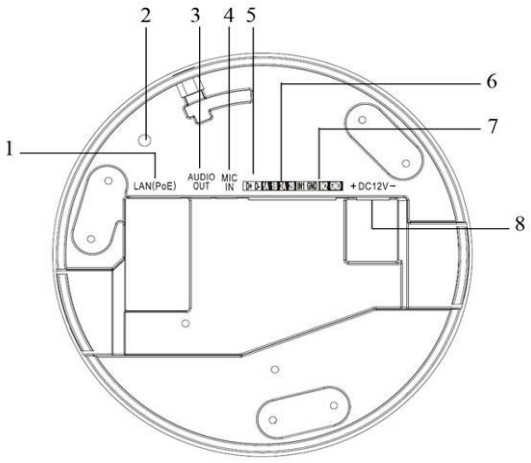


Figure 1-16 Overview

Table 1-9 Description

No.	Description
1	10M/100M self-adaptive Ethernet interface
2	INITIAL SET: Reset button
3	AUDIO OUT: Audio output interface
4	MIC IN: Audio input interface
5	D+, D-: RS-485 interface
6	1A, 1B, 2A, 2B: Alarm output interface
7	IN1, GND, IN2, GND: Alarm input interface
8	Power supply interface

Note: After the powering on of the camera, pressing and holding the INITIAL SET button for about 10 seconds can reset all the parameters to the default settings.

Camera wiring Diagram:

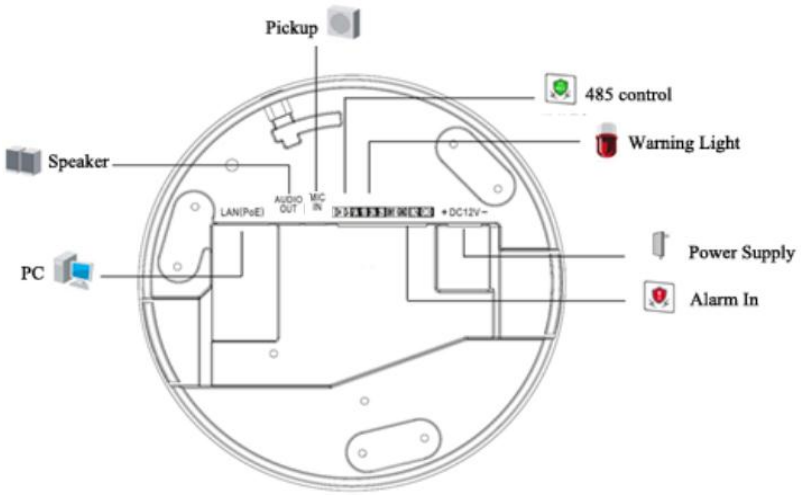


Figure 1-17 Wiring Diagram

1.2.7 Dome Camera IV

Camera description:

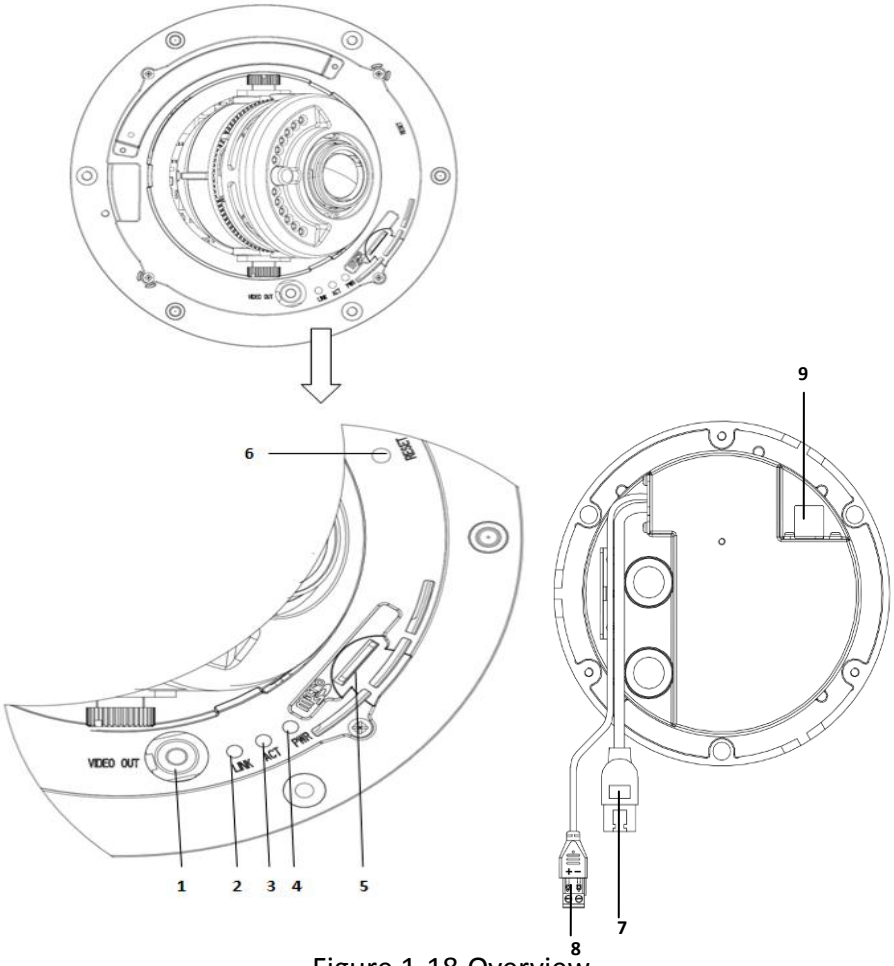


Figure 1-18 Overview

Table 1-10 Description

No.	Description
1	Video output interface
2	LINK: Indicator is solid yellow when network is connected.
3	ACT: Indicator flashes blue when network connection is functioning properly.
4	PWR: Indicator is solid red when the device is powered on.
5	Micro SD slot
6	RESET: Reset button
7	10M/100M self-adaptive Ethernet interface
8	Power supply interface
9	Extended interface

Notes:

- The extended interface can be connected to alarm input/output interface, audio input/output

interface, RS-485 interface, etc.

- After the powering on of the camera, pressing and holding the RESET button for about 10 seconds can reset all the parameters to the default settings.

Camera wiring Diagram:

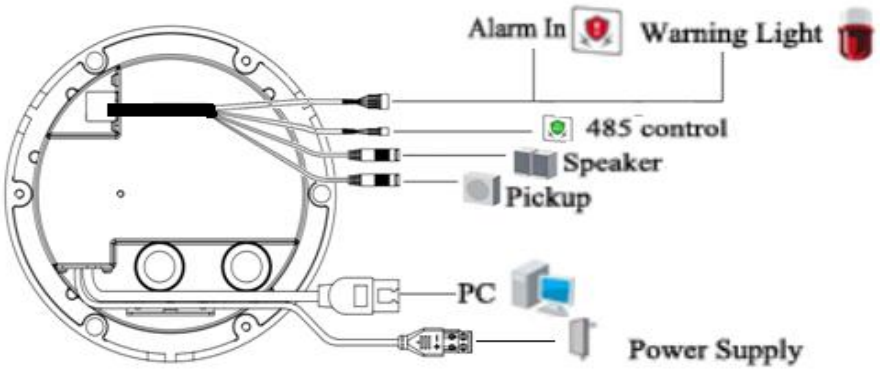


Figure 1-19 Wiring Diagram

1.3 Appearance Description of Bullet Camera

1.3.1 Bullet Camera I

Camera description:

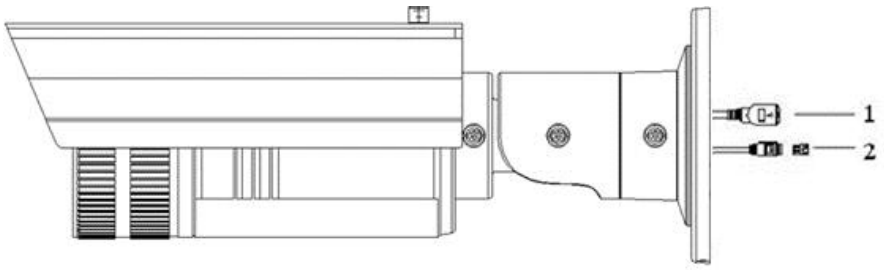


Figure 1-20 Overview

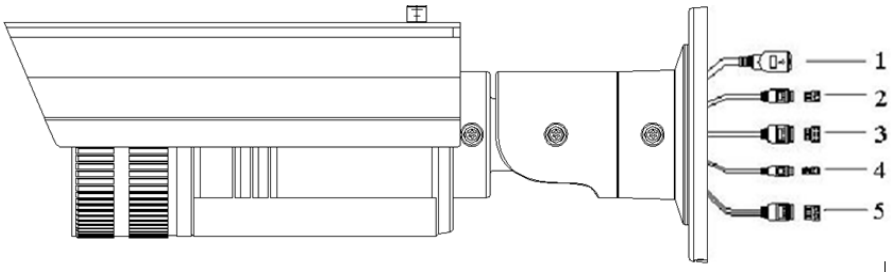


Figure 1-21 Overview

Table 1-11 Description

No.	Description
1	10M/100M self-adaptive Ethernet interface
2	Power supply interface
3	IN, G: Alarm input interface 1A, 1B: Alarm output interface
4	D+, D-: RS-485 interface
5	AUDIO IN, G: Audio input interface AUDIO OUT, G: Audio output interface

Camera wiring Diagram:

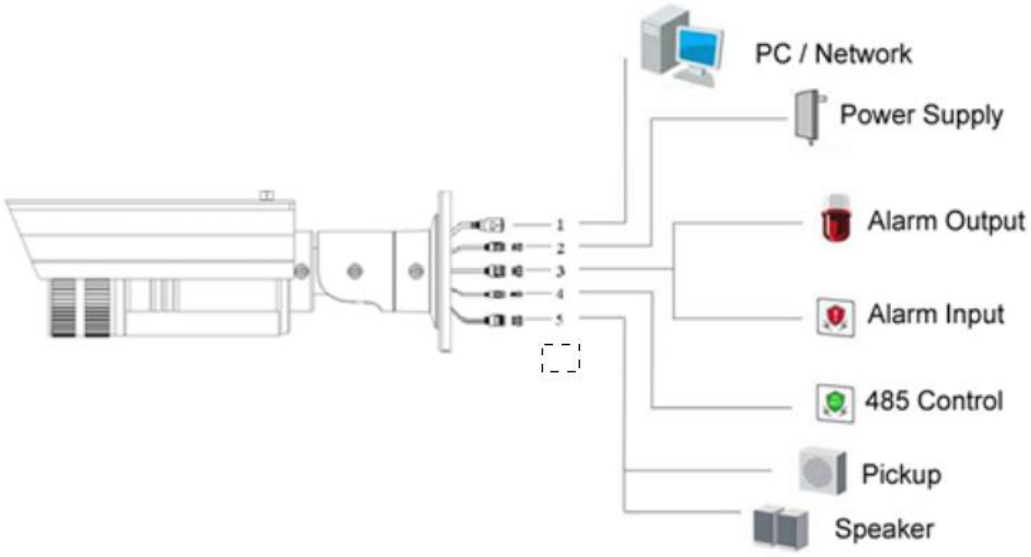


Figure 1-22 Wiring Diagram

1.3.2 Bullet Camera II

Camera description:

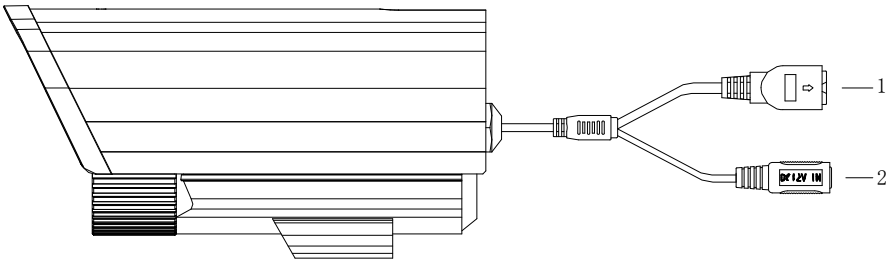


Figure 1-23 Overview

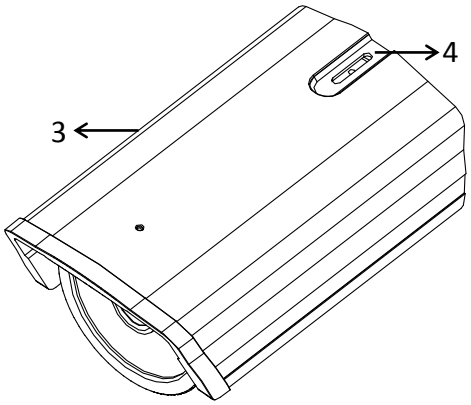


Figure 1-24 Overview

Table 1-12 Description

No.	Description
1	10M/100M self-adaptive Ethernet interface
2	Power supply
3	Sun shade
4	Adjusting screw

1.4 Appearance Description of Cube Camera

1.4.1 Cube Camera I

Camera description:

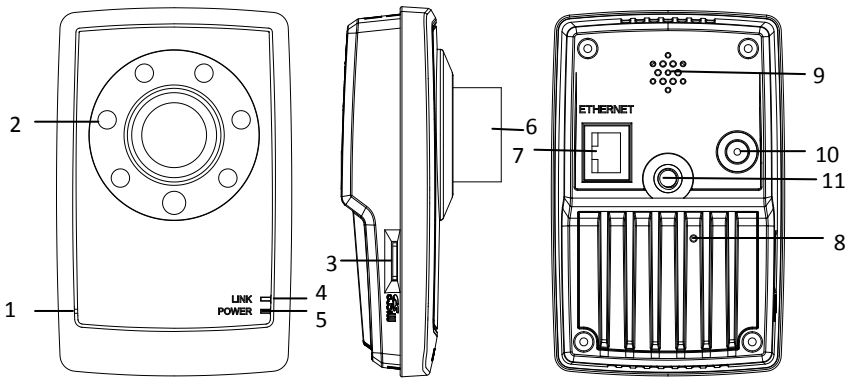


Figure 1-25 Overview

Table 1-13 Description

No.	Description
1	Microphone
2	Infrared light (Optional)
3	Micro SD card slot

4	LINK: Network status LED indicator. LED indicator is solid yellow when network connection is functioning properly.
5	Power LED indicator, It is solid red when power is applied to the unit.
6	Lens
7	ETHERNET: 10M / 100M self-adaptive Ethernet interface
8	RESET: Reset button
9	Speaker
10	Power supply interface
11	Screw hole, used to fix the camera to the bracket

Note:

After the powering on of the camera, pressing and holding the RESET button for about 10 seconds can reset all the parameters to the default settings.

Camera wiring Diagram:

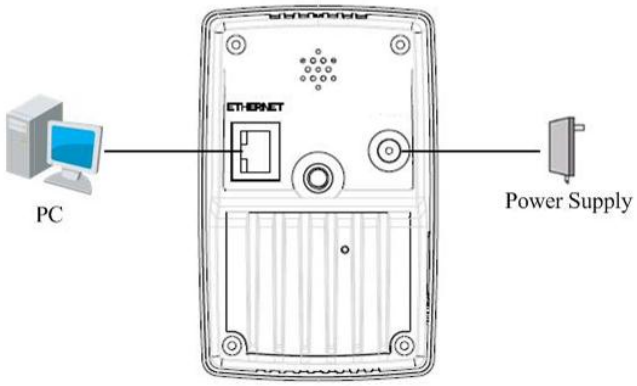


Figure 1-26 Wiring Diagram

1.4.2 Cube Camera II

Camera description:

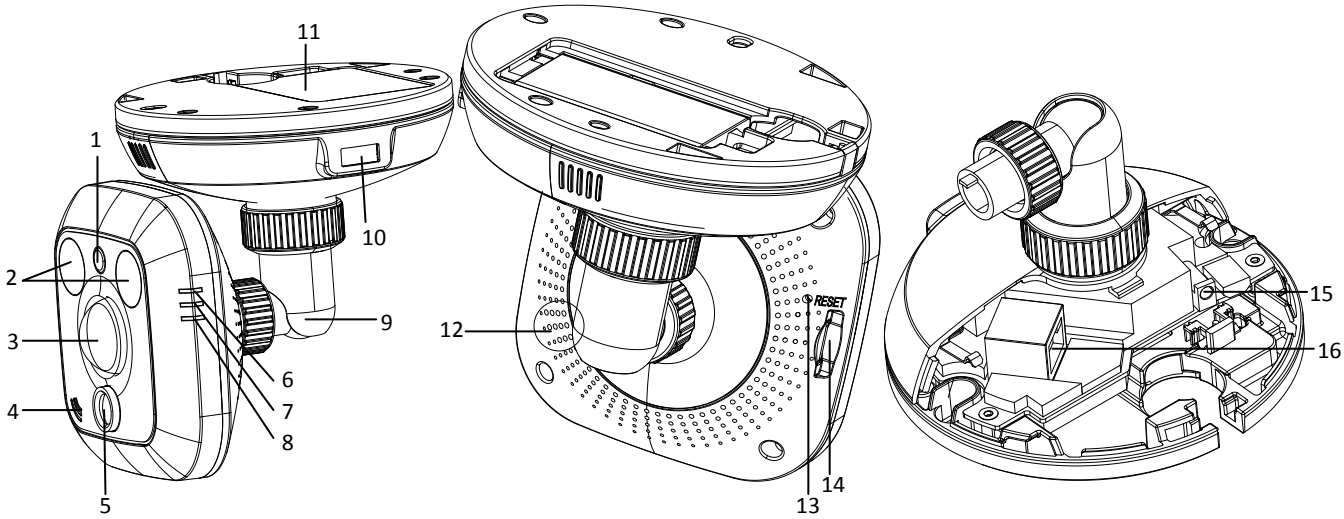


Figure 1-27 Overview

Table 1-14 Description

No.	Description
1	Photosensitive resistance
2	Infrared light
3	PIR sensor
4	Microphone
5	Lens
6	Alarm: Indicator is solid red when the camera is armed with PIR and access control and it is solid blue when the camera is unarmed.
7	Indicator flashes blue when movement or presence is detected in its field of view.
8	Link: Indicator flashes orange when network connection is functioning properly.
9	Tri-axial adjustment bracket
10	USB interface
11	Battery
12	Speaker
13	RESET: Reset button
14	Micro SD card slot
15	Power supply interface
16	10M / 100M self-adaptive Ethernet interface & PoE

Note:

After the powering on of the camera, pressing and holding the RESET button for about 10 seconds can reset all the parameters to the default settings.

Camera wiring diagram:

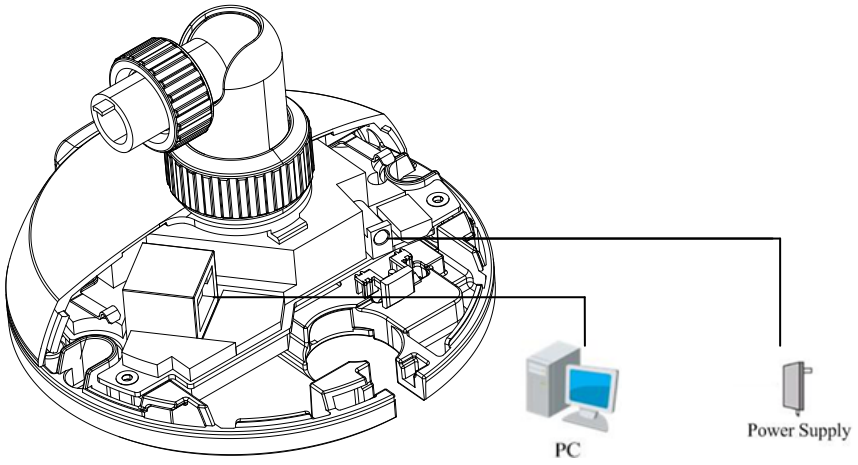


Figure 1-28 Wiring Diagram

1.5 Appearance Description of Mini Dome Camera

Camera description:

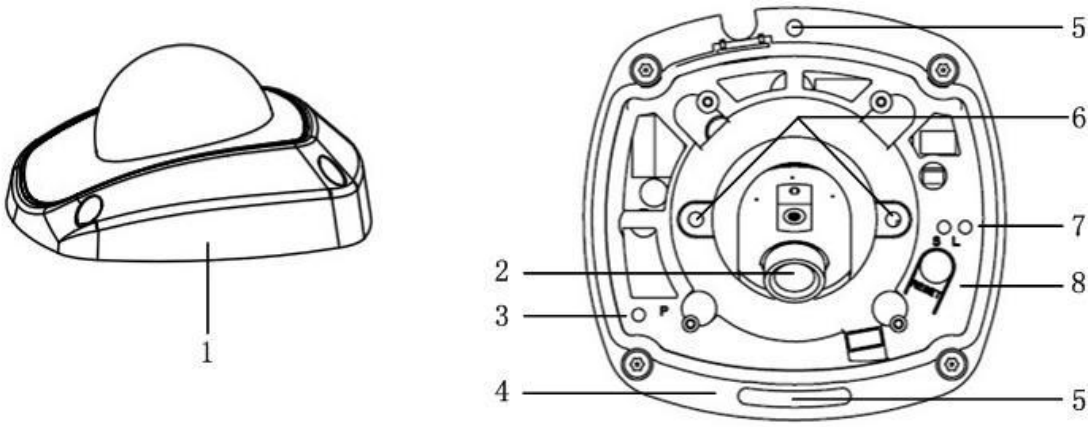


Figure 1-29 Overview

Table 1-15 Description

No.	Description
1	Cover
2	Lens
3	P: Power LED indicator, It is solid red when power is applied to the unit.
4	Base plate
5	Set screw hole
6	Set screw of lens
7	S & L: Network status LED indicator. When the network is connected, the “S” LED is solid yellow, while the “L” LED flashes orange.
8	RESET: Reset button.

Note:

After the powering on of the camera, pressing and holding the RESET button for about 10 seconds can reset all the parameters to the default settings.

Camera wiring Diagram:

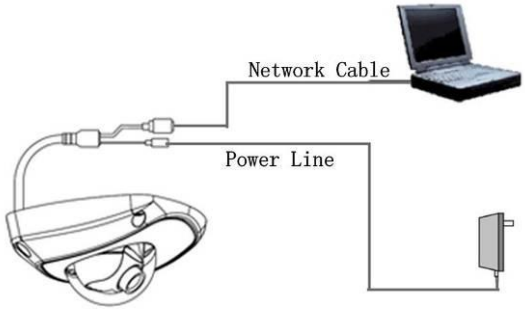


Figure 1-30 Wiring Diagram

Chapter 2 Setting the Network Camera over the LAN

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 or iVMS-4200 software to search and change the IP of network camera.

- The following figure shows the cable connection of a network camera and a PC:

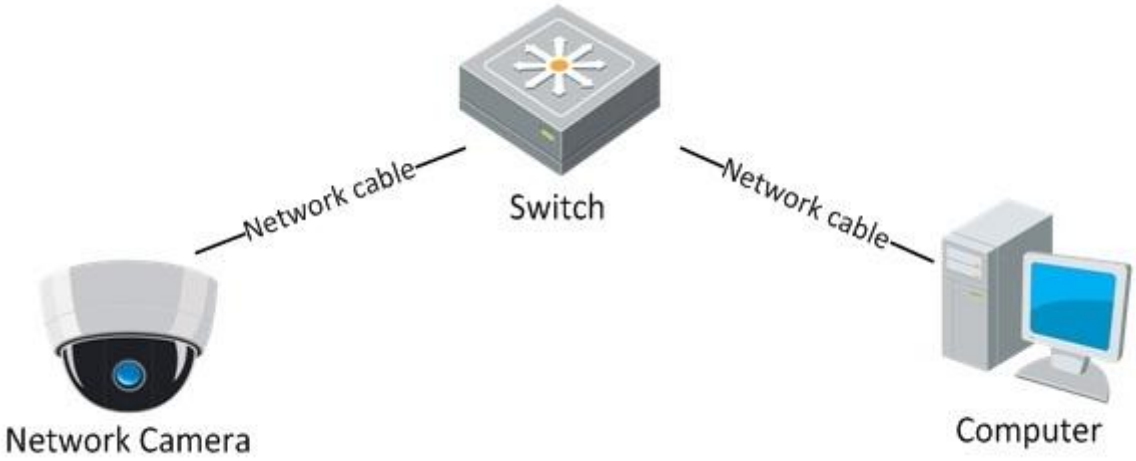


Figure 2-1 Wiring over LAN

- Set the IP address of the camera for accessing via LAN.

Steps:

1. To get the IP address, you can choose either of the following methods:
   - ♦ Use SADP, a software tool which can automatically detect network camera in the LAN and list the device information like IP address, subnet mask, port number, device serial number, device version, etc., shown in Figure 2-2.
   - ♦ Use iVMS-4200 software and to list the online devices. Please refer to the user manual of client software for detailed information.
2. Change the IP address and subnet mask to the same subnet as of your PC.

   Refer to the following introduction to set IP address with SADP software:
   - ✧ **Search active devices online**

     Search online devices automatically:

     After launch the SADP software, it automatically searches the online devices every 15 seconds from the subnet where your computer locates. It displays the total number

and information of the searched devices in the Online Devices interface. Device information including the device type, IP address, port number, gateway, etc. will be displayed.

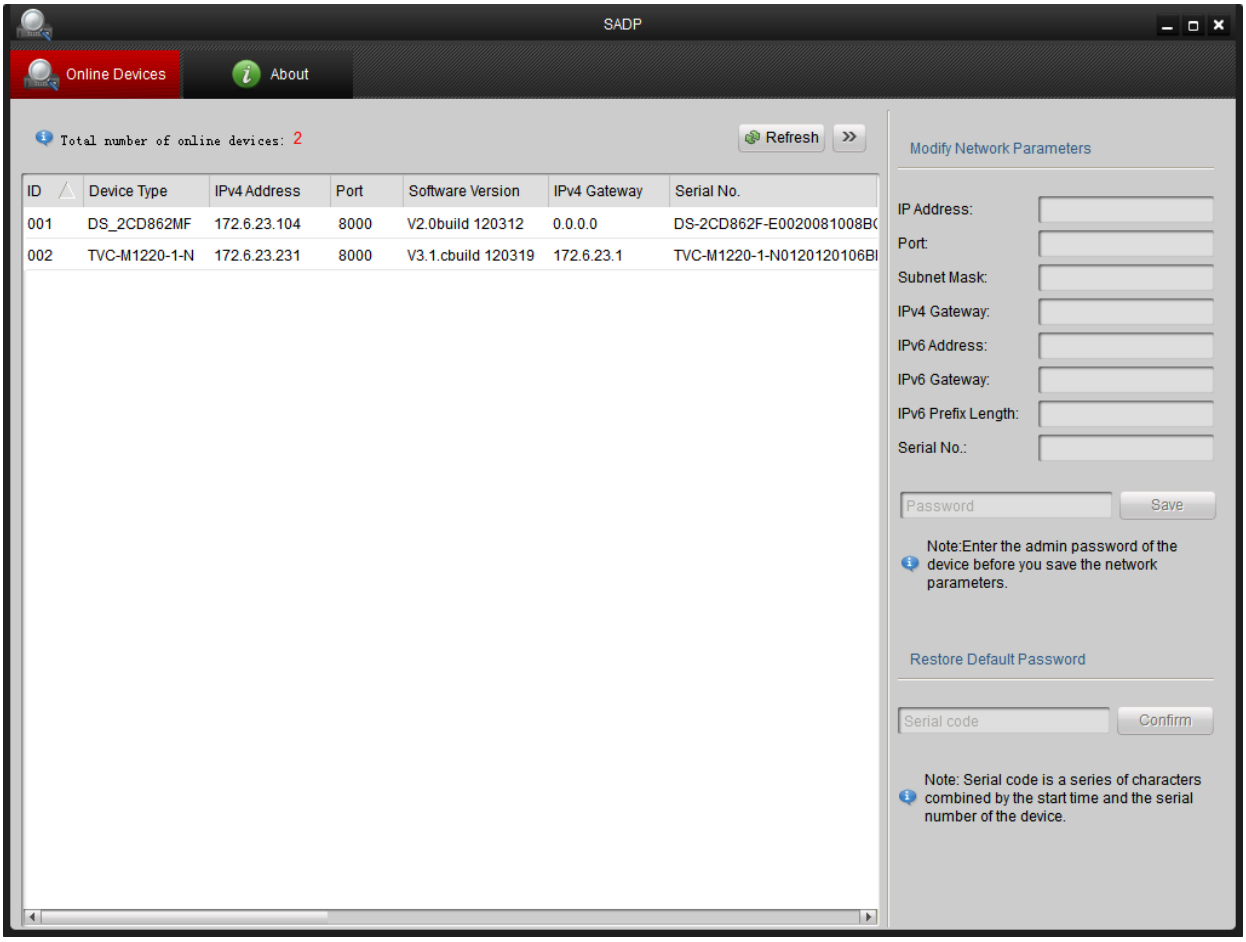


Figure 2-2 Searching Online Devices

Note: Device can be searched and displayed in the list in 15 seconds after it goes online; it will be removed from the list in 45 seconds after it goes offline.

Search online devices manually:

You can also click Refresh to refresh the online device list manually. The newly searched devices will be added to the list.

Note: You can click △ or ▽ on each column heading to order the information; you can click » to show the device table and hide the network parameter panel on the right side, or click « to show the network parameter panel.

✧ **Modify device information**

Steps:

1) Select the device to be modified in the device list as shown in Figure 2-3. The network

parameters of the device will be displayed in the Modify Network Parameters panel on the right side as shown in Figure 2-4.

2) Edit the modifiable network parameters, e.g. IP address and port number.

3) Enter the password of the admin account of the device in the **Password** field and click Save to save the changes.

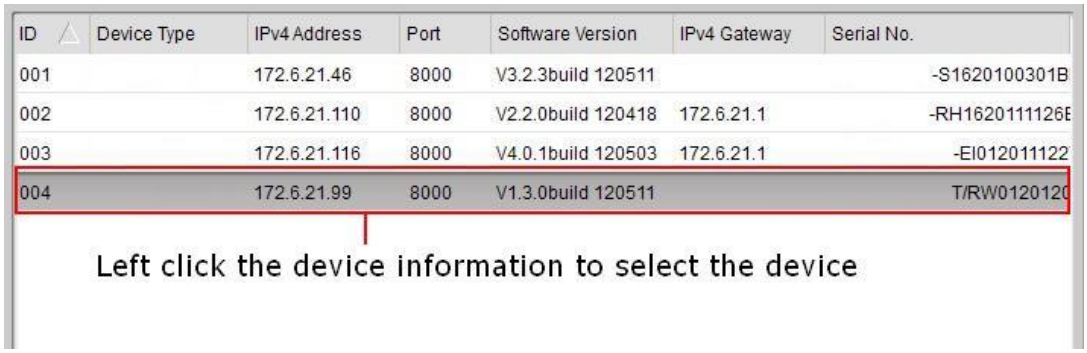


Figure 2-3 Select a Device

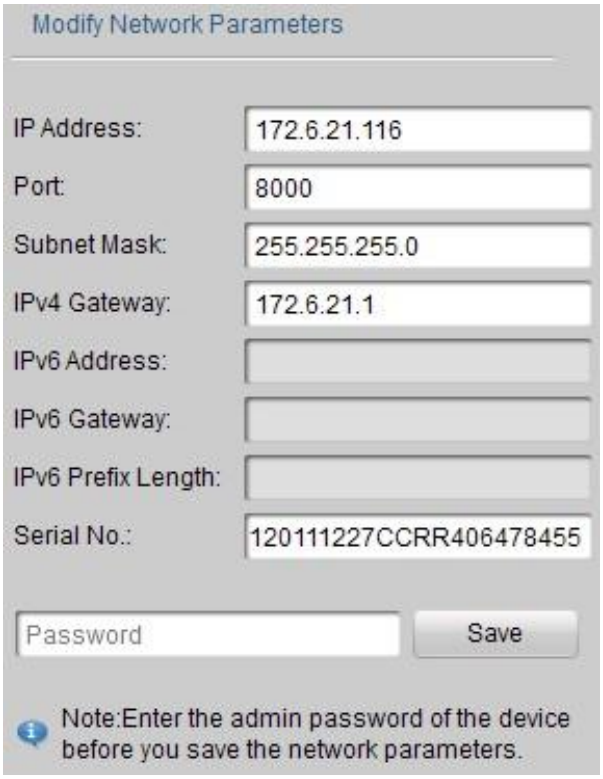


Figure 2-4 Modify Network Parameters

3. You can enter the IP address of network camera in the address field of the web browser to view the live video.

Note:

- The default value of the IP address is “192.0.0.64”. The default user name is “admin”, and password is “12345”.
- For accessing the network camera from different subnets, please set the gateway for the network camera after you log in.

Chapter 3 Accessing via Web Browsers

System Requirement:

Operating System: Microsoft Windows XP SP1 and above version / Vista / Win7 / Server 2003 / Server 2008 32bits

CPU: Intel Pentium IV 3.0 GHz or higher

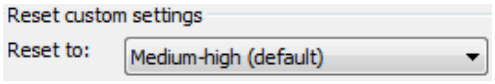
RAM: 1G or higher

Display: 1024×768 resolution or higher

Web Browser: Internet Explorer 6.0 and above version, Apple Safari 5.02 and above version, Mozilla Firefox 3.5 and above version and Google Chrome8 and above version

Before you start:

On the IE browser menu bar, navigate to **Tools** > **Internet options** > **Security** > **Custom level** as shown in Figure 3-1.

Select **LOW** in 

and click 

. Select **Enable** or **Prompt** in **ActiveX controls and plug-ins** list. The **Security Settings** interface is shown in Figure 3-2.

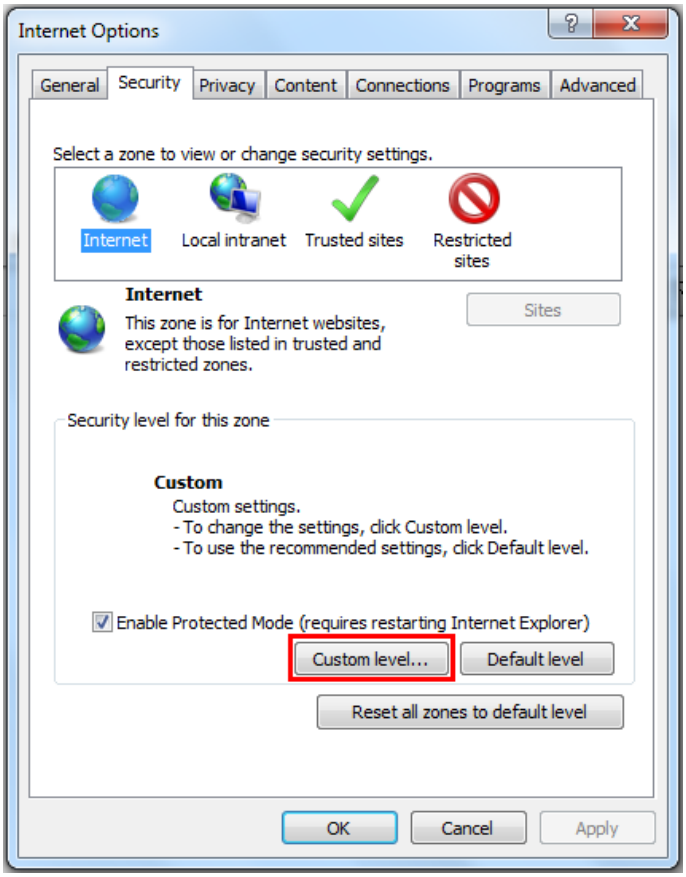


Figure 3-1 Navigate to Security Interface

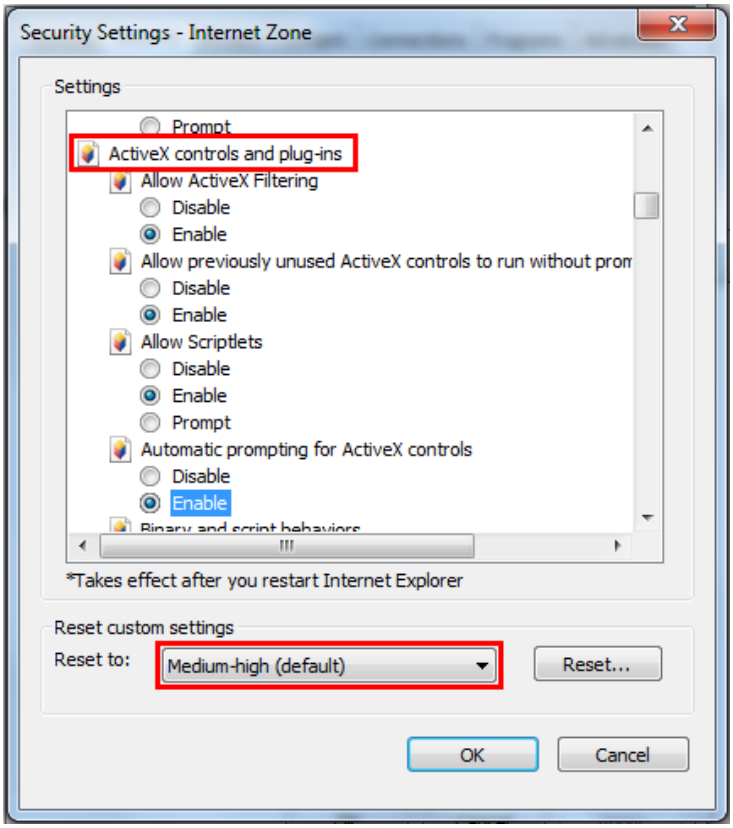


Figure 3-2 Adjust the Security Level

Steps:

1. Open the web browser.
2. In the browser address bar, input the IP address of the network camera, e.g., 192.0.0.64 and press the **Enter** key to enter the login interface.
3. Input the user name and password.
4. Click Login.

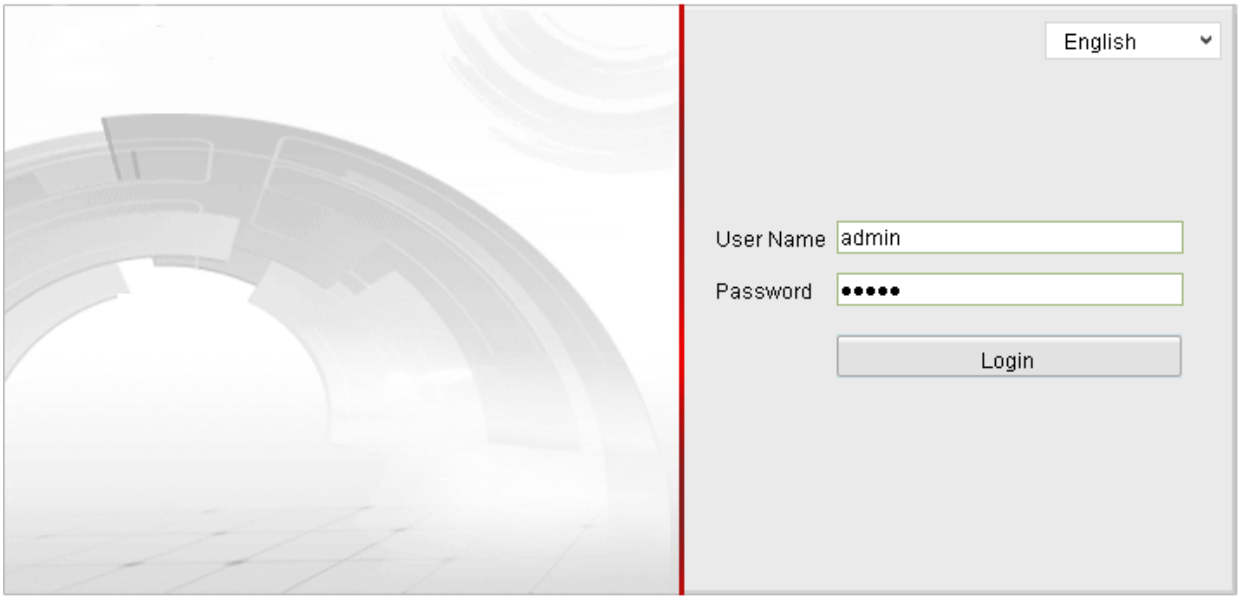


Figure 3-3 Login Interface

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 installation of the plug-in.

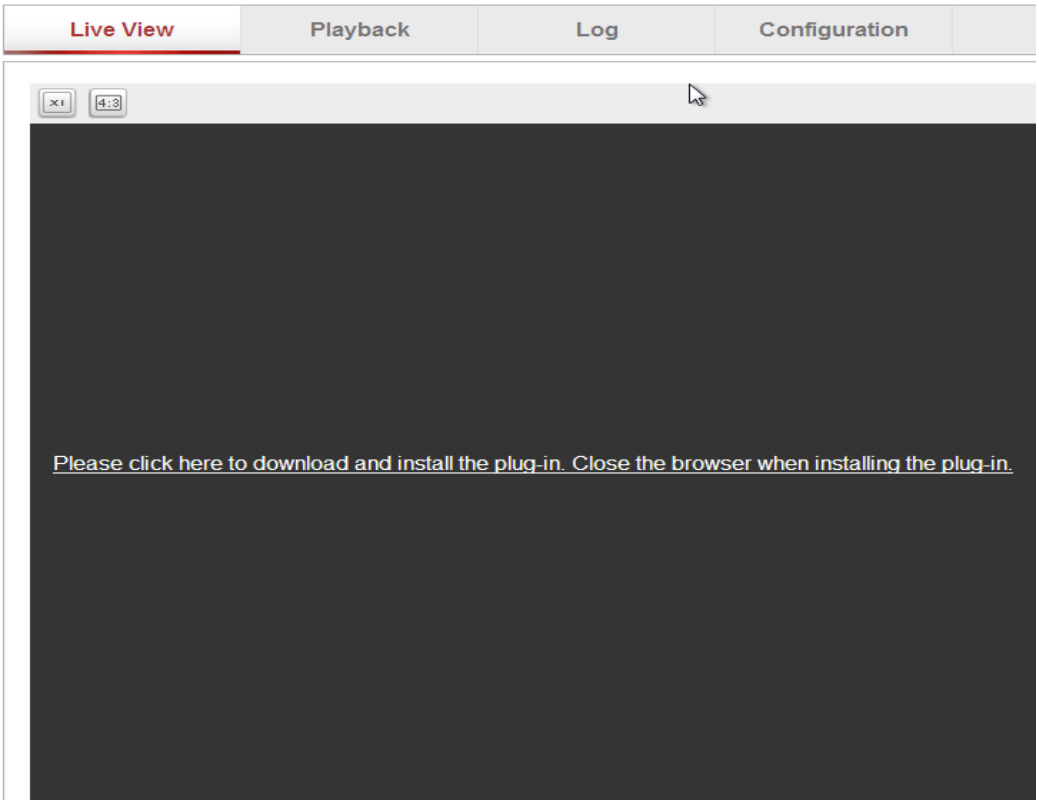


Figure 3-4 Download Plug-in

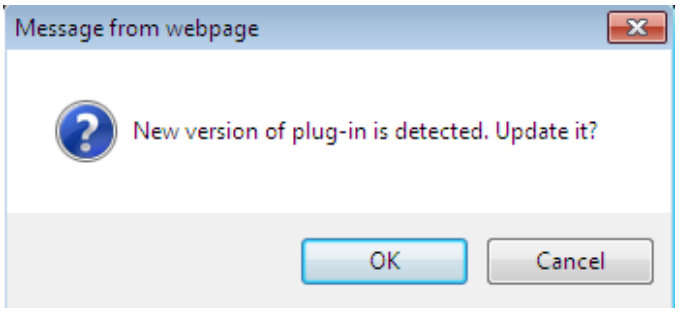


Figure 3-5 Download Plug-in

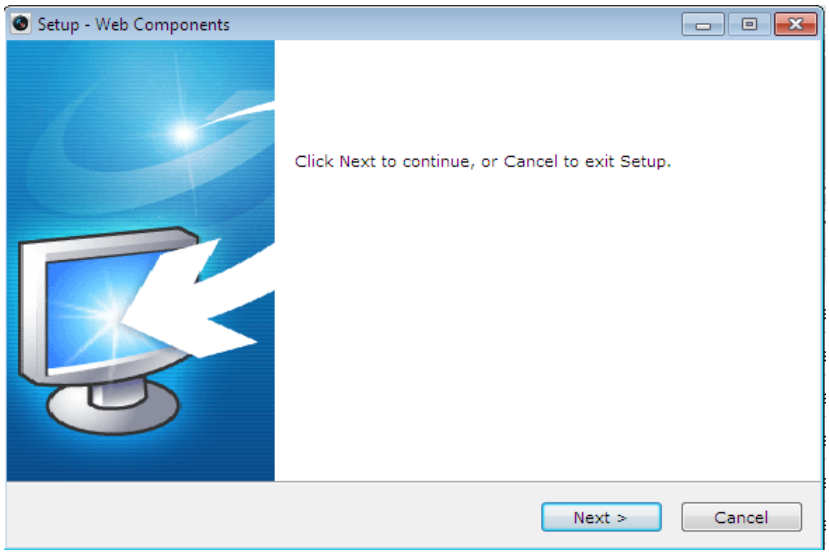


Figure 3-6 Install Plug-in

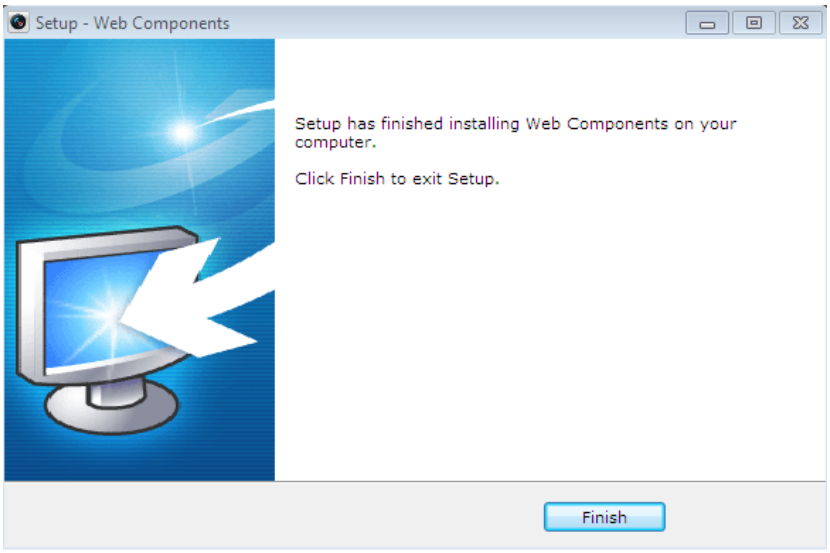


Figure 3-7 Install Plug-in

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

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

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