Quick Start Guide

6MP Fisheye IP Camera

O6MDP2

Version 1.0.1

Welcome

Thank you for purchasing this network camera!
Please read this manual carefully before operating the unit and retain it for future reference.
Should you require any technical assistance, please contact Speco Technologies Technical Support.

Important Safeguards and Warnings

1 . Electrical safety

All installation and operation here should conform to local electrical safety codes.
Use a certified/listed 12VDC Class 2 power supply only.
Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage! The product must be grounded to reduce the risk of electric shock.
Improper handling and/or installation could run the risk of fire or electrical shock.

2 . Environment

Heavy stress, violent vibration or exposure to water is not allowed during transportation, storage and installation.
This product should be installed in a cool, dry place away from direct sunlight and heat sources.
Do not install the product in extreme temperature conditions.
Do not expose the camera to electromagnetic radiation. Otherwise it may result in CMOS sensor failure.
Do not block any ventilation openings.
Do not allow water and liquid intrusion into the camera.

3. Operation and Daily Maintenance
Please shut down the device and then unplug the power cable before you begin any maintenance work.
Do not touch the CMOS sensor optic component. You can use a blower to clean the dust on the lens surface.
Always use the dry soft cloth to clean the device. If there is too much dust, use a cloth dampened with a small quantity of neutral detergent. Finally use the dry cloth to clean the device.
Please use a professional optical cleaning method to clean the enclosure. Improper enclosure cleaning (such as using cloth) may result in a poor image.
The grounding holes of the product are recommended to be grounded to further enhance the reliability of the camera.

Dome cover is an optical device, please don't touch or wipe cover surface directly during installation and use, please refer to the following methods if dirt is found:

Stained with dirt

Use oil-free soft brush or hair dryer to remove it gently.

Stained with grease or fingerprint

Use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center outward. Change the cloth and wipe several times if it is not clean enough.

Warning

This camera should be installed by qualified personnel only.
All the examination and repair work should be done by qualified personnel.
Any unauthorized changes or modifications could void the warranty.

Statement

This guide is for reference only.
Product, manuals and specifications may be modified without prior notice. Speco Technologies reserves the right to modify these without notice and without incurring any obligation.
Speco Technologies is not liable for any loss caused by improper operation.

Regulatory Information

1.1 FCC conditions：

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

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

1.2 FCC compliance：

This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference. This equipment generate, 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 communication. 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.

Note:

Before installation, check the package and make sure that all components are included.
Contact your rep or Speco customer service department immediately if something is broken or missing in the package.

Component list	Quantity
Network Camera Unit	1
Quick Start Guide	1
Installation Accessories Bag	1
CD	1

Table of Contents

1 Physical Specifications

1.1 Components

Note

- The following figure is for reference only, which is used to indicate the components and the functions.
- Refer to the following figure for component structure.

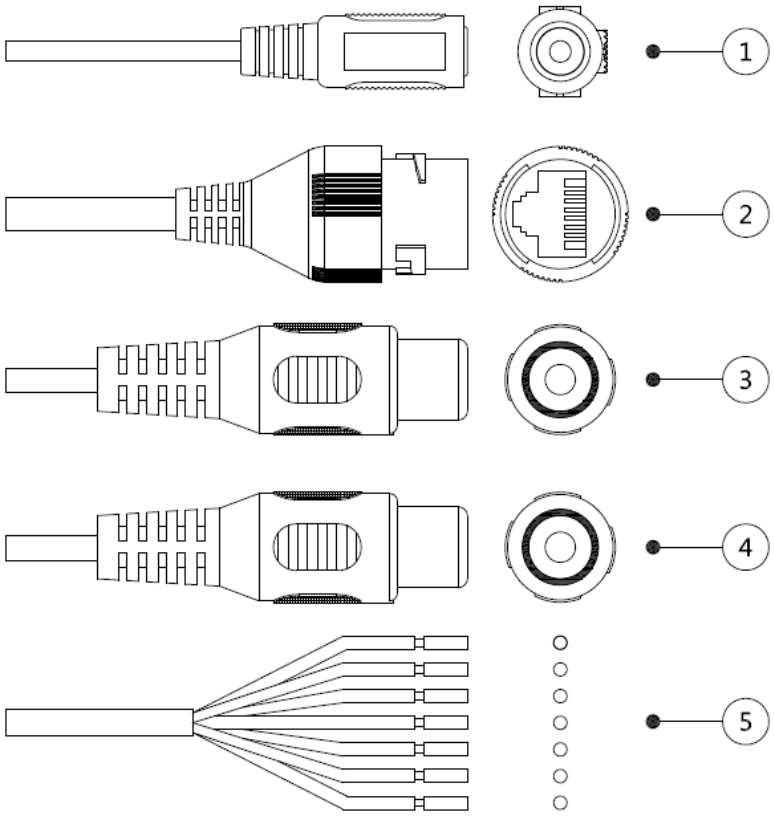


Figure 1-1

Please refer to the following tables for more information about external cable functions and I/O port functions.

No.	Port	Connector	Function description
1	Power	DC jack	Connect to DC 12V power, input power
2	LAN	Ethernet port	Network data in/out and PoE
3	Audio In	RCA	Audio input. Connect a microphone.
4	Audio Out	RCA	Audio output to speaker.

No.	Port	Connector	Function description
5	I/O	-	Alarm inputs and outputs. Refer to Table 1-2 for more details.

Table 1-1

Port name	Cable sequence	Cable port name	Function description
I/O ports	1	ALARM_OUT1	Alarm output port 1, outputs alarm signal to alarm device. **Note** Use ALARM_OUT1 only with ALM_OUT_GND1 when connecting to an alarm device.
	2	ALM_OUT_GND1	
	3	ALARM_IN1	Alarm input port 1, receives on-off signal of external alarm source.
	4	ALARM_IN2	Alarm input port 2, receives on-off signal from external alarm source.
	5	ALM_IN_GND	Alarm input GND terminal.
	6	ALARM_OUT2	Alarm output port 2, outputs alarm signal to alarm device. **Note** Use ALARM_OUT2 only with ALM_OUT_GND2 when connecting to an alarm device.
	7	ALM_OUT_GND2	

Table 1-2

1.2 **Dimensions**

Please refer to the following figure for dimension information. The unit is in mm. See Figure 1-2 and Figure 1-3.

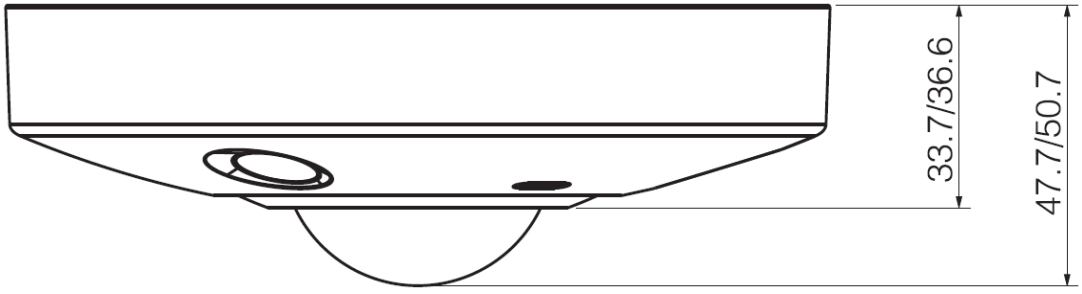
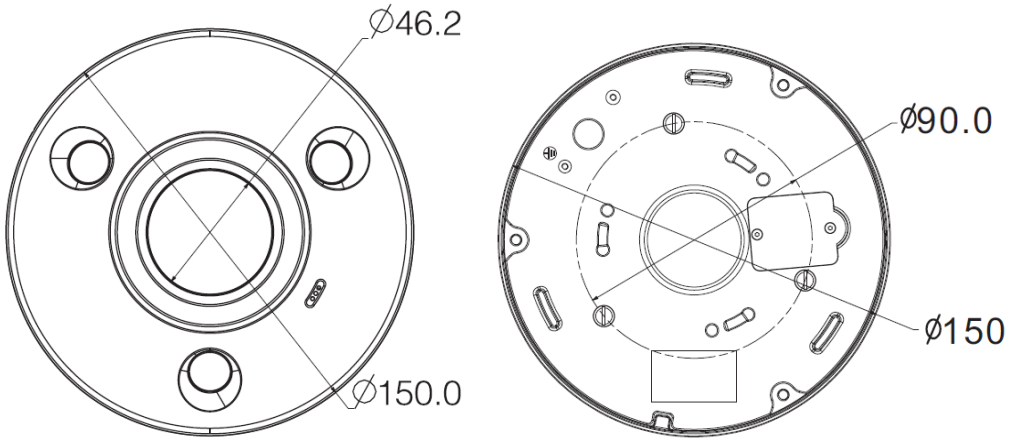


Figure 1-2



Front Side Bottom Side

Figure 1-3

1.3 **Bidirectional Audio**

1.3.1 **Device-end to PC-end**

Device Connection

First, connect a microphone to the audio input port of the device. Then connect a speaker to the audio output port of the PC. Log in to the web viewer's live view page and then click the microphone button on the top right corner to enable the bidirectional audio function.

1.3.2 **PC-end to Device-end**

Device Connection

Enable microphone input on the PC. Then connect a speaker to the audio output port of the device. Log in to the web viewer's live view page and then click the microphone button on the top right corner to enable the bidirectional audio function.

1.4 **Alarm Setup**

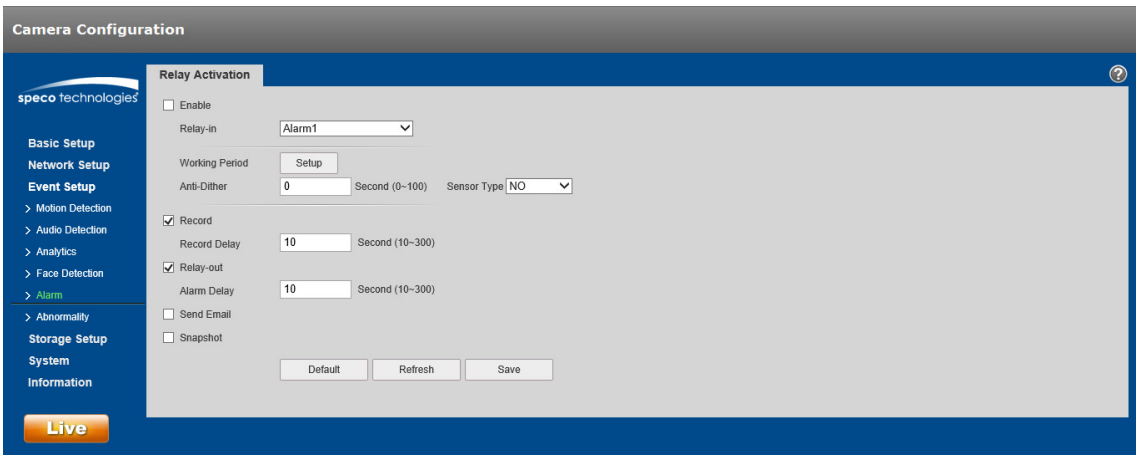


Figure 1-4

To set up the Alarm input and output, do the following:

Step 1 Connect alarm input device to the alarm input port of I/O cable.

Step 2 Connect alarm output device to the ALARM_OUT and ALM_OUT_GND of I/O cable, the alarm output is the relay switch output, and the alarm output port can only be connected to NO alarm device.

Step 3 Open the web setup page and make corresponding settings for alarm input and output in the **Alarm** section. Alarm input in web setup corresponds to the alarm input of I/O cable. It is to set corresponding NO and NC input according to the high and low level generated by alarm input device when an alarm occurs.

Step 4 Set alarm output in the web setup, alarm output corresponds to the alarm output port of the device, which is the alarm output port of I/O port cable.

Refer to Figure 1-5 for alarm input and output.

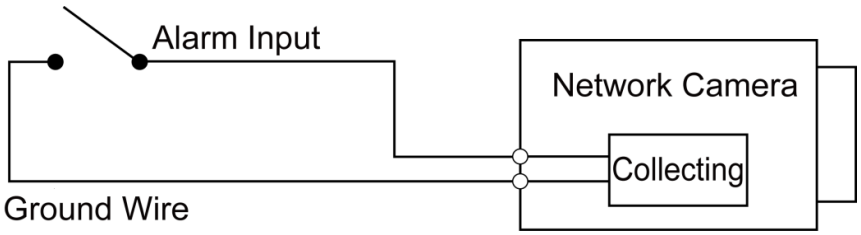


Figure 1-5

Alarm input: When the input signal is idle or grounded, the device can collect different status of the alarm input port. When the input signal is connected to +3.3V or it is idle, the device collects the logic “1”. When the input signal is grounded, the device collects the logic “0”.

Refer to Figure 1-6 for alarm output.

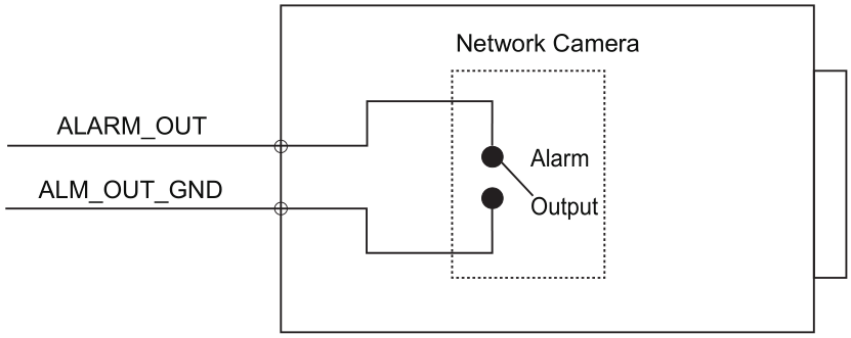
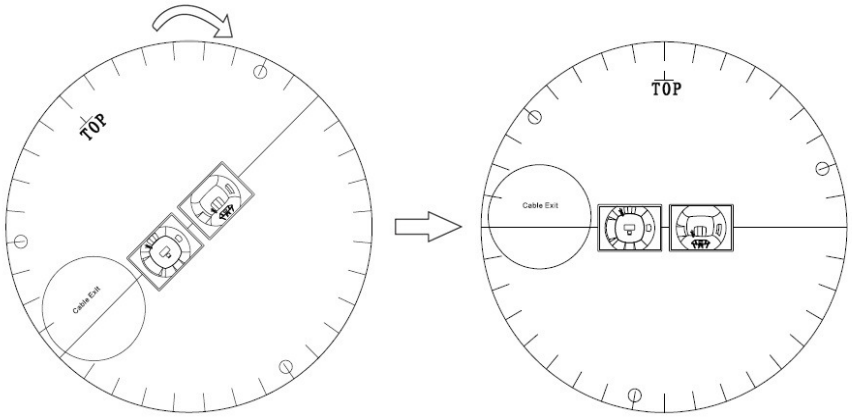


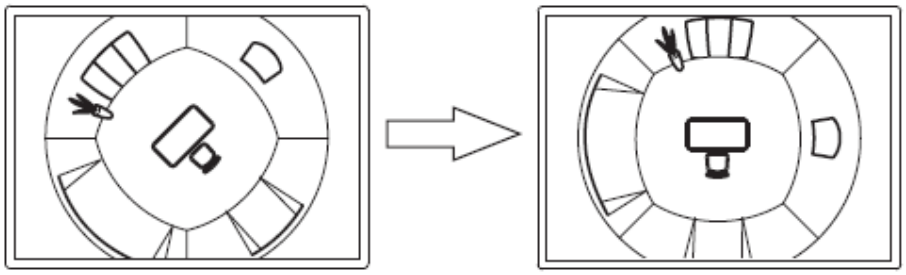
Figure 1-6

Alarm output: The port ALARM_OUT and ALM_OUT_GND form a switch to provide alarm output. Normally the switch is on; it will be off when there is alarm output.

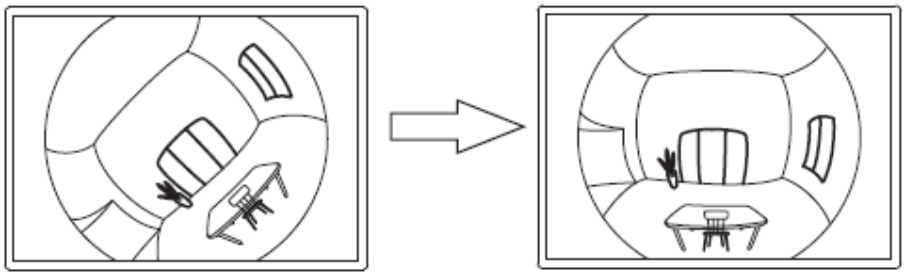
2 **Installation**



Installation Position Map



Ceiling Mount Effect



Wall Mount Effect

Figure 2-1

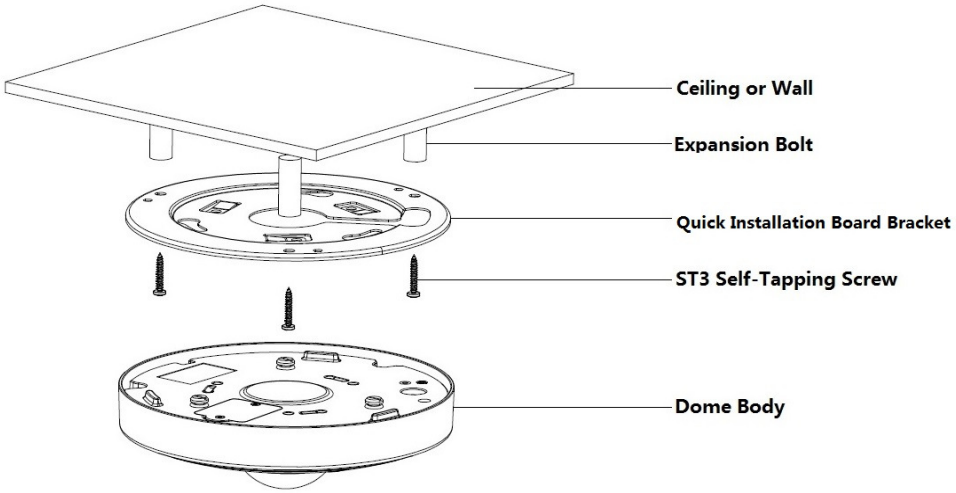


Figure 2-2

Note

- Power down the device before installing a Micro SD card.
- The wall needs to sustain at least 3X weight of the bracket and camera.

Step 1 Install Micro SD card (Optional).

Note

- The cover is needed for water resistance.
- Make sure to install the card and put the cover back on as quickly as possible to minimize moisture intrusion.
- The following instructions are for mounting the camera directly onto a surface. If the included junction box is used, make sure that the junction box is installed firmly on the surface before mounting the camera.

1) Find Micro SD card slot in the location shown in Figure 2-3, use cross screwdriver to take down two screws on the cover of Micro SD card.
2) Adjust the direction of Micro SD card, insert it into the slot and install the Micro SD card properly.

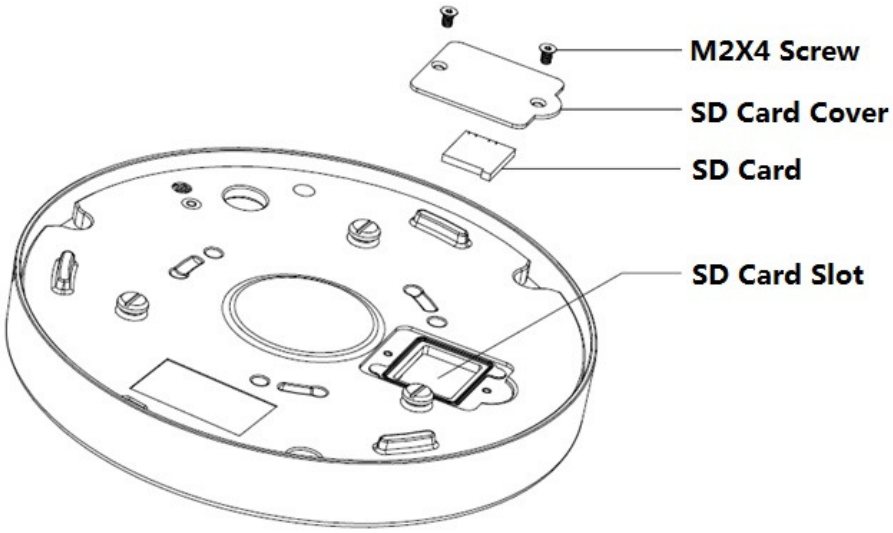


Figure 2-3

3) Tighten back the two screws on the cover of Micro SD card.

Step 2 Take out the installation position map (shown in **Error! Reference source not found.**) from the accessories bag, adjust the installation angle of the installation position map according to the desired monitoring angle, and then paste it on the installation surface.

Step 3 Drill three holes on the installation surface according to the location shown on the installation position map. Drill a hole of at least 1 inch diameter for the cable exit, to make the cable go through.

Step 4 Insert the 3 expansion bolts into the holes and lock them firmly. Adjust the position of device installation pedestal and pull the cable through the cable exit hole on the installation surface.

Step 5 Align the screw holes on the bracket with the plastic expansion bolt fixed holes on the installation surface, then tighten the self-tapping screws into the plastic expansion bolts and fasten them firmly.

Step 6 To install the dome body, find the little gap on the dome body and make it align with the "TOP" direction on the installation chassis. Rotate the dome body in clockwise direction and secure it firmly.

Step 7 Install the waterproof connector (optional), which is shown in Figure 2-4.

Note

This is highly recommended when the device is installed outdoors and the Ethernet connector is exposed to the environment.

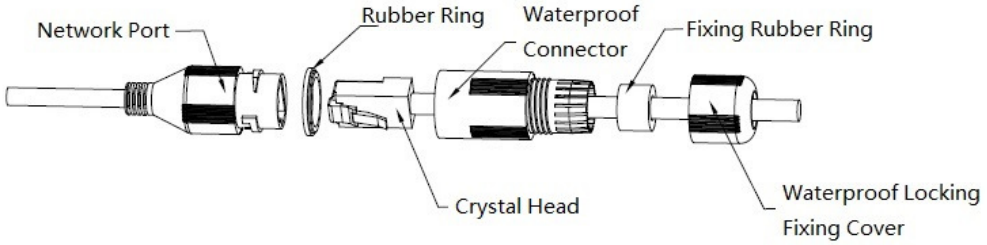


Figure 2-4

1) Install the rubber ring on the network port, keep the smaller hole of the rubber ring outward and install the fixing rubber ring on the main body of the waterproof connector.
2) Pull the network cable without an RJ-45 connector through the main body of the waterproof connector. Crimp the cable with an RJ-45 connector and plug the cable into the network port.
3) Put the main body of waterproof connector on the network port and rotate it clockwise to lock the network port and waterproof connector firmly.
4) Put the waterproof locking cover on the main body of waterproof connector and rotate it clockwise to lock the waterproof connector and waterproof locking cover firmly.

3 IP Scanner

IP Scanner can search for the device on the local network.
Please note that only devices that are on the same subnet can be discovered.
The device is set to DHCP mode by default.

3.1 Operation

Open up IP Scanner.
Error! Reference source not found.
In the device list, you can view the IP address, model number, and MAC address of each device. Select the applicable device and double click to open up the web viewer.

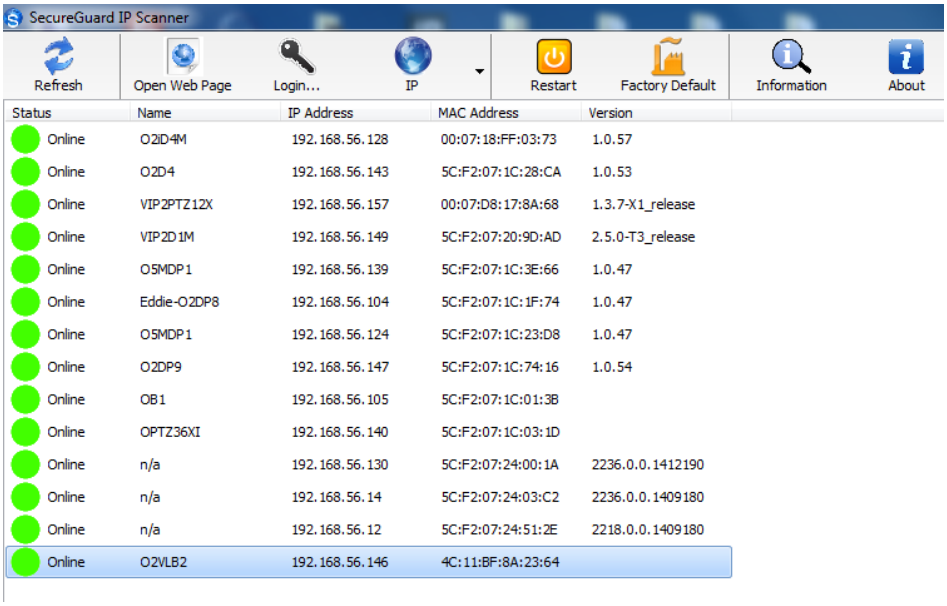


Figure 3-1

4 Web Operation

This device supports viewing and management via a web browser on a PC.

4.1 Login and Main Interface

Open the browser and input network camera address in the address bar or double click the device in IP Scanner. See Figure 4- 1.

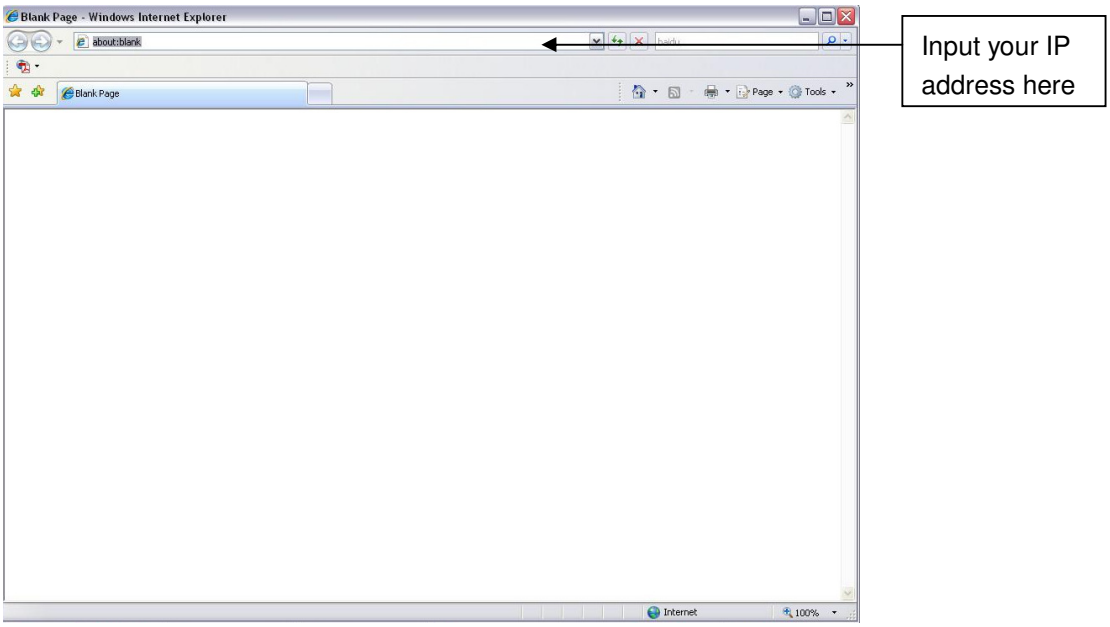


Figure 4- 1 IP address

The login interface is shown as below. See Figure 4- 2.

Please input your user name and password.

Default user name is **admin** and password is **1234**.

Note: For security purposes, please change the password after initial login.

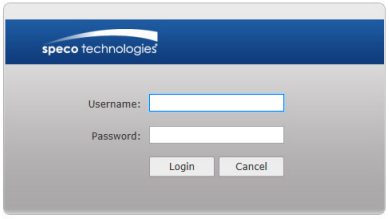


Figure 4- 2 Web login

After logging in, follow directions to install applicable plugins.