



**Quick Start Guide**

# **2MP Pinhole/ATM IP Camera**

**O2PH2**

## 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.
- As a security measure, for installations not on a plug and play NVR, make sure to modify the default password after login.
- Do not use more than one power source for the device.

## 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.

## FCC Information

### 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.

### 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.
- Consult the dealer or an experienced radio/TV technician for help.

## 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.

Accessory Name	Amount
Main Unit	1
Lens Unit	1
Quick Start Guide	1
Installation Accessories Bag	1
CD	1

# Table of Contents

1	Device Specifications .....	1
1.1	Structure and Dimensions .....	1
1.1.1	Structure .....	1
1.1.2	Dimensions .....	3
1.2	Bidirectional Audio .....	3
1.2.1	Device-end to PC-end .....	3
1.2.2	PC-end to Device-end .....	4
1.3	Alarm Setup .....	4
2	Device Installation .....	5
3	IP Scanner .....	6
3.1	Operation .....	6
4	Web Operation .....	7
4.1	Login and Main Interface .....	7

1 Device Specifications

1.1 Structure and Dimensions

1.1.1 Structure

The following figures show the ports of the main unit.

Figure 1-1 Ports of the main unit (1)

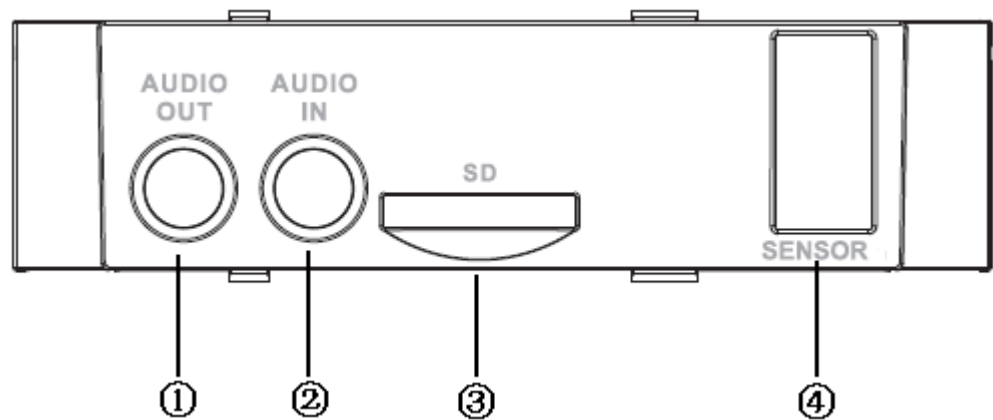
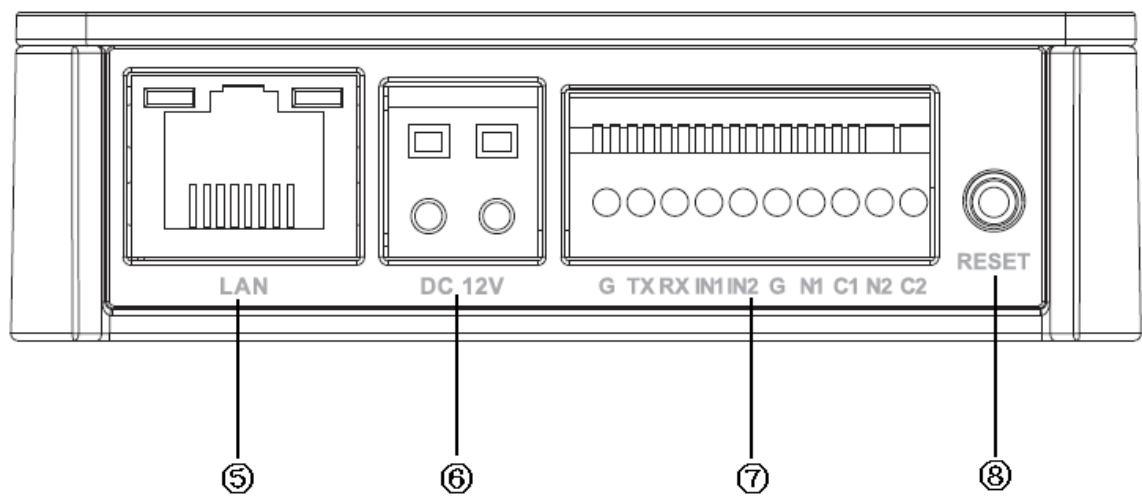


Figure 1-2 Ports of the main unit (2)



The following table shows the detailed information of the ports.

**Table 1-1 Description of Port Functions**

No.	Port	Connector	Function Description
1	Audio Out	RCA	Audio output to speaker
2	Audio In	RCA	Audio input. Connect a microphone.
3	Micro SD	Micro SD Card slot	Micro SD card slot for edge recording
4	Sensor	USB-A	For connecting the lens unit to the main unit
5	LAN	Ethernet port	For data or PoE
6	DC12V	Terminal block	12V DC
7	I/O	Terminal block	Alarm inputs and outputs. Refer to Table 1-2 for more details.
8	Reset Button	-	Continuously press the button for over 5 seconds to restore the device to factory default settings.

**Table 1-2 Description of I/O**

Port name	Cable port name	Function description
I/O port	G	GND
	TX	232 sending port.
	RX	232 receiving port.
	IN1	Alarm input port1, receives on-off signal from external alarm source.
	IN2	Alarm input port 2, receives on-off signal from external alarm source.
	G	GND
	N1	Alarm output port1
	C1	
	N2	Alarm output port2
	C2	

## 1.1.2 Dimensions

Refer to the following figures for dimension information of the lens unit and the main unit. Measurements are in mm.

Figure 1-3 Lens Unit

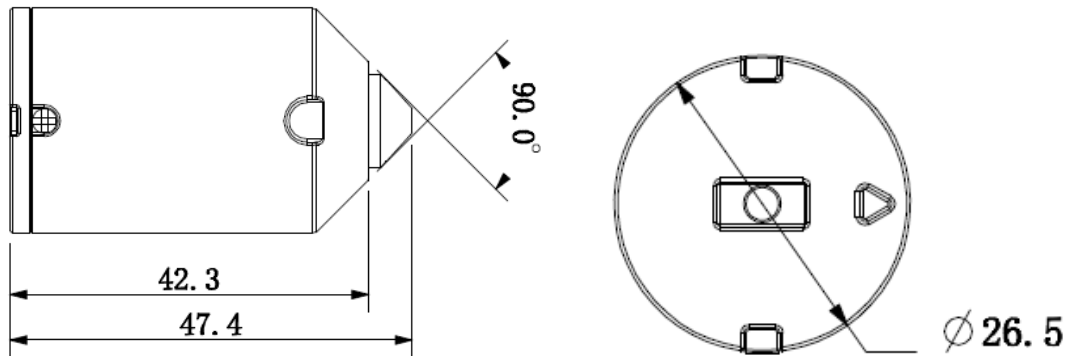
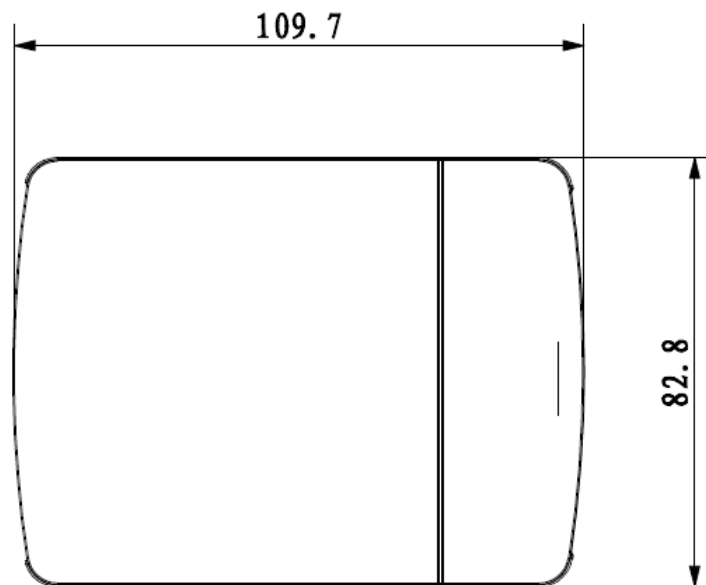


Figure 1-4 Main Unit



## 1.2 Bidirectional Audio

### 1.2.1 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.



## 1.2.2 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.

## 1.3 Alarm Setup

Figure 1-5 Alarm setup screen

The screenshot displays the 'Camera Configuration' web interface. On the left is a navigation menu with the 'speco technologies' logo and options: Basic Setup, Network Setup, Event Setup, Motion Detection, Audio Detection, Analytics, Face Detection, Alarm (highlighted), Abnormality, Storage Setup, System, and Information. A 'Live' button is at the bottom left. The main area is titled 'Relay Activation' and contains the following settings:

- ☐ Enable
- Relay-in: Alarm1 (dropdown)
- Working Period: Setup (button)
- Anti-Dither: 0 (input) Second (0~100) | Sensor Type: NO (dropdown)
- ☒ Record
  - Record Delay: 10 (input) Second (10~300)
- ☒ Relay-out
  - Alarm Delay: 10 (input) Second (10~300)
- ☐ Send Email
- ☐ Snapshot
- Buttons: Default, Refresh, Save

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

1. Connect the alarm input device to the alarm input port.
2. Connect the alarm output device to the alarm output port. Alarm output port can only be connected to a "N/O" alarm device.
3. Open the web setup page, and then configure the alarm input and output in the **Alarm** section. Alarm input in the web settings corresponds to the Alarm input on the I/O port.
4. Set the alarm output in the web settings. The alarm output corresponds to the alarm output on the I/O port.

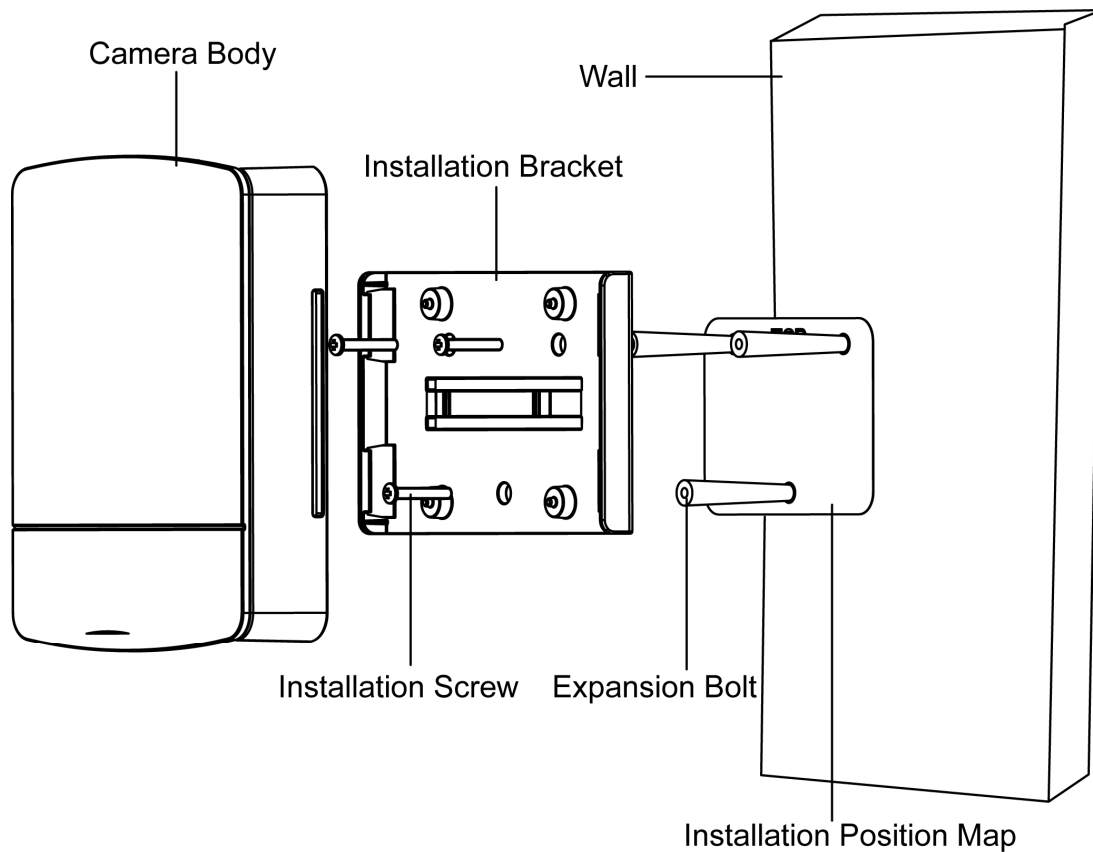
## 2 Device Installation

### Note

Please make sure the installation surface can support at least the 3X weight of the total weight of the camera and the main unit.

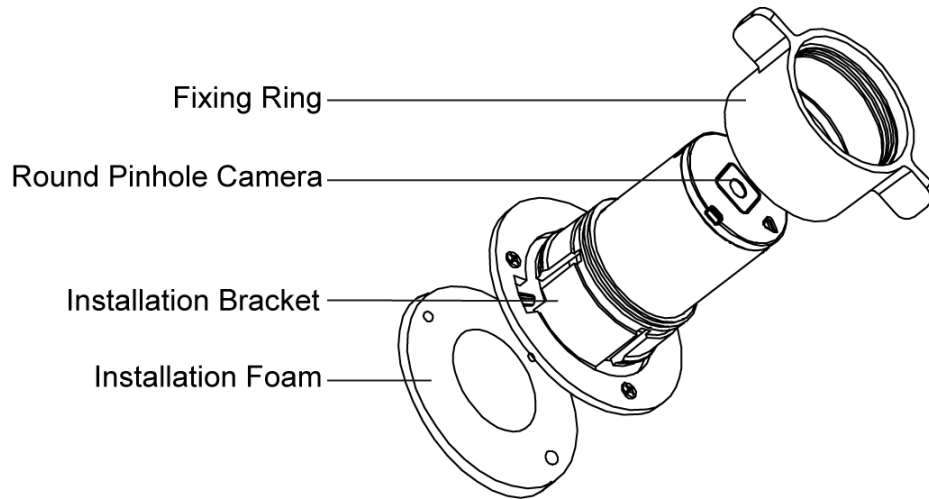
The following figure shows the installation of the main unit:

**Figure 2-1 Installation of main unit**



1. Stick the installation template on the designated surface where the device will be installed.
2. Drill holes according to the positions on the installation template.
3. Take out the expansion bolts and insert them into the holes that have been drilled.
4. Tighten the 3 screws to fix the device on the installation surface where the bolts are located.
5. Put the main unit into the installation bracket directly.
6. Connect lens unit to the main unit with the cable that's attached to the lens unit.

**Figure 2-2 Installation of lens unit**



1. Take out the installation bracket from the accessories bag (with installation foam)
2. Tear off the film of the foam, and stick it on the surface to be installed.
3. Set the fixing ring on the installation bracket.
4. Put the round front end into the installation bracket and adjust the location.
5. Tighten the fixing ring.

### **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.























SecureGuard IP Scanner				
				
Refresh	Open Web Page	Login...	IP	Restart
				
				Factory Default
				
				Information
				
				About
Status	Name	IP Address	MAC Address	Version
 Online	O2D4M	192.168.56.128	00:07:18:FF:03:73	1.0.57
 Online	O2D4	192.168.56.143	5C:F2:07:1C:28:CA	1.0.53
 Online	VIP2PTZ12X	192.168.56.157	00:07:D8:17:8A:68	1.3.7-X1_release
 Online	VIP2D1M	192.168.56.149	5C:F2:07:20:9D:AD	2.5.0-T3_release
 Online	OSMDP1	192.168.56.139	5C:F2:07:1C:3E:66	1.0.47
 Online	Eddie-O2DP8	192.168.56.104	5C:F2:07:1C:1F:74	1.0.47
 Online	OSMDP1	192.168.56.124	5C:F2:07:1C:23:D8	1.0.47
 Online	O2DP9	192.168.56.147	5C:F2:07:1C:74:16	1.0.54
 Online	OB1	192.168.56.105	5C:F2:07:1C:01:3B	
 Online	OPTZ36XI	192.168.56.140	5C:F2:07:1C:03:1D	
 Online	n/a	192.168.56.130	5C:F2:07:24:00:1A	2236.0.0.1412190
 Online	n/a	192.168.56.14	5C:F2:07:24:03:C2	2236.0.0.1409180
 Online	n/a	192.168.56.12	5C:F2:07:24:51:2E	2218.0.0.1409180
 Online	O2VLB2	192.168.56.146	4C:11:BF:8A:23:64	

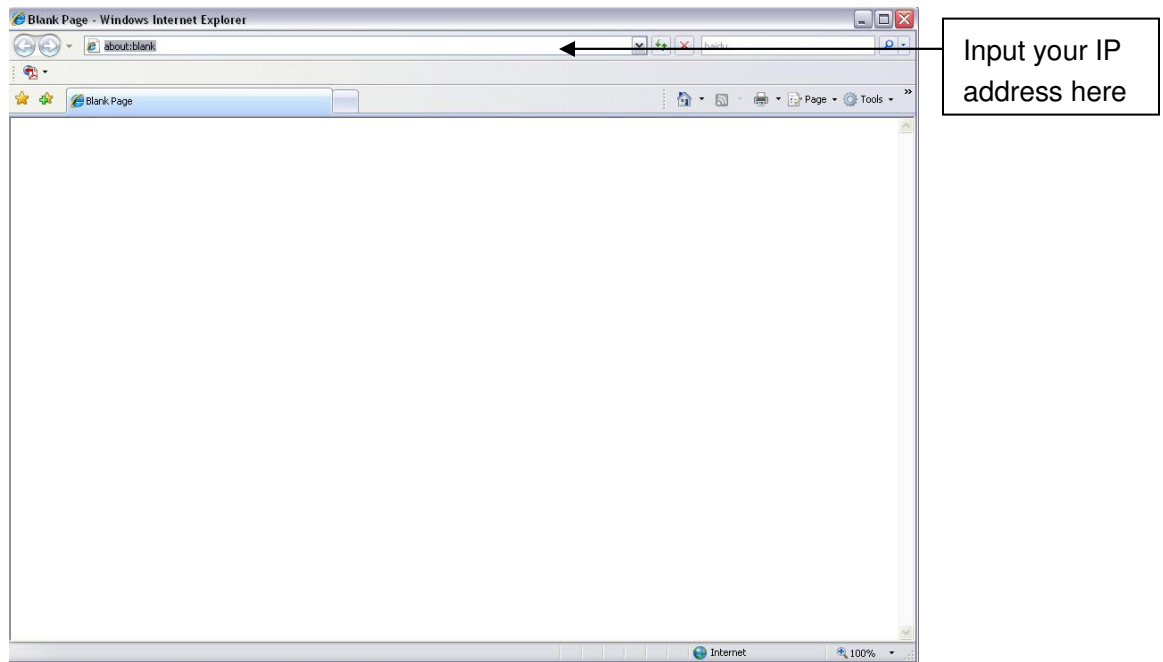
Figure 3-1

## 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.



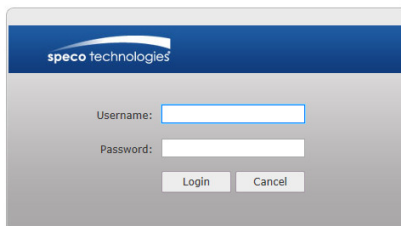
**Figure 4- 1 IP address**

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.