

Wired / Wireless H.264 Internet Camera

Indoor Dome Type

ICA-HM132

Outdoor Dome Type

ICA-HM136 / ICA-5250V / ICA-5550V

Bullet Type

ICA-HM316 / ICA-HM316W / ICA-3250V / ICA-3550V

Quick Installation Guide

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1. Introduction

Thank you for purchasing PLANET Wired / Wireless IP Camera. It is versatile and high image solution of surveillance application for day and night. PLANET IP Camera supports, Multi-Profile function for simultaneous video streams. These Network Cameras can generate H.264, MPEG-4 and M-JPEG streaming simultaneously to different clients. Moreover, the resolution can be different from one client to another. This state-of-art design is considerable to fit in various network environments.

This installation guide provides instructions for installing the following network cameras:

- ICA-HM132 – H.264 2 Mega-pixel 20M IR Vari-Focal Dome IP Camera
- ICA-HM136 – H.264 2 Mega-pxel 20M IR Vandalproof Dome IP Camera
- ICA-5250V – Full HD Vandalproof IR IP Camera
- ICA-5550V – 5 Mega-pixel Vandalproof IR IP Camera
- ICA-HM316 – 2 Mega-pixel Outdoor IR PoE IP Camera
- ICA-HM316W – 2 Mega-pixel 11n Outdoor IR IP Camera
- ICA-3250V – Full HD Outdoor IR PoE IP Camera
- ICA-3550V – 5 Mega-pixel Outdoor IR PoE IP Camera

1.1 Before Installation

Before installation, please be sure to read this quick installation guide and user's manual (CD) carefully to complete machine installation. This guide shows how to quickly set up the IP camera.

1.2 System Requirements

CPU	Intel Core i3-530
RAM	2048MB
Graphic card	512MB
Display Resolution	1920 x 1200
Operating System	Windows 2000, XP, 2003, Vista 32bit, Win7 32bit
Network	Ethernet 10/100 Base-T

2. Physical Description and Installation

2.1 Indoor Dome Type – ICA-HM132

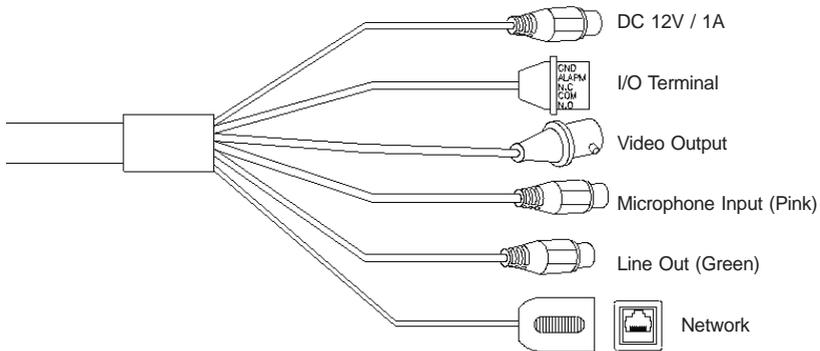
2.1.1 Package Content

- IP Camera Unit x 1
- Power Adapter x 1
- Screw Package x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.1.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.



2. I/O Control Instruction

I/O terminal connector is used for such functions as motion detection, event triggering, and alarm alert. It provides the interface to I/O terminal.

3. Digital Input (GND + Alarm)

An alarm input for connecting devices can toggle between an open and closed circuit, for example, PIRs, door/window contacts, glass break detectors, etc. When a signal is received, the status changes and the input becomes active.

4. Relay Output (COM+N.O.) / (COM+N.C.)

An output to relay switch, for example, LEDs, sirens, etc.

5. Digital Input/Alarm Input

- 1) GND (Ground): Initial status is LOW
- 2) Alarm: Max. 50mA, 3.3VDC

6. Relay Output

- 1) N.C. (Normally Closed): Max. 1A, 24VDC or 0.2A, 110~240VAC
- 2) COM: (Common)
- 3) N.O. (Normally Open): Max. 1A, 24VDC or 0.2A, 110~240VAC

7. Power Jack

The input power is 12VDC.



Note

To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.

8. MIC in (audio in)

Connect a microphone to the network camera.

9. Line Out (Audio Out)

Connect a loud speaker to the network camera. This is for voice alert and two-way audio.

2.1.3 Installation

1. Fix IR camera in a desired location with stand.
2. Plug in Ethernet Cable into RJ-45 connector (LAN port).
3. Connect the attached power adapter to camera and plug in this adapter into power outlet.
4. Connect Video BNC connector to a TV set if necessary (to check camera viewing angle and focus).
5. Done.

2.2 Outdoor Dome Type – ICA-HM136

2.2.1 Package Content

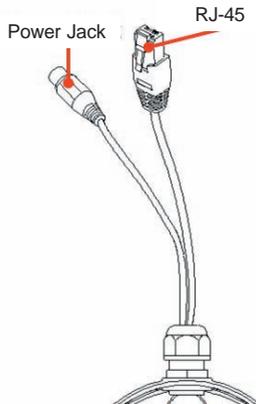
- Camera Unit x 1
- Power Adapter x 1
- Accessories Kit x 1
- Female to Female RJ-45 Connector x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.2.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

2. Power Jack: The input power is 12VDC.



Note

1. To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.
2. The RJ-45 port also supports IEEE 802.3af Power over Ethernet. Apply either PoE or DC power to empower the IP camera and do not use any other non-standard PoE injector to the camera.

2.2.3 I/O Control Instruction

I/O terminal connector is used for such functions as motion detection and event triggering.

1. Digital Input: (GND+Alarm)

An alarm input for connecting devices can toggle between an open and closed circuit, for example, PIRs, door/window contacts, glass break detectors, etc. When a signal is received, the status changes and the input becomes active.

2. Relay Output: (COM+N.O.) / (COM+N.C.)

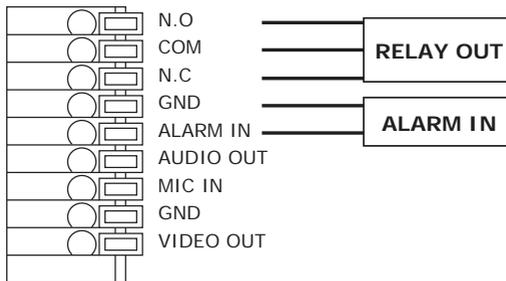
An output to relay switch, for example, LEDs, sirens, etc.

3. Digital Input/Alarm Input:

- 1) GND (Ground): Initial status is LOW
- 2) Alarm: Max. 50mA, 3.3VDC

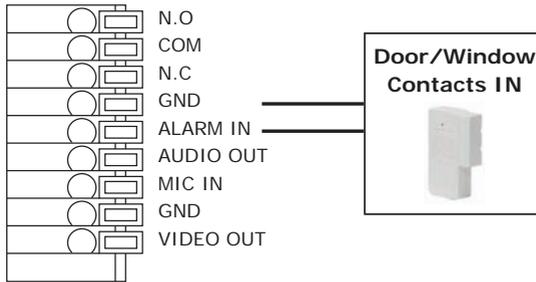
4. Relay Output:

- 1) N.C. (Normally Closed): Max. 1A, 24VDC or 0.2A, 110~240VAC
- 2) COM: (Common)
- 3) N.O. (Normally Open): Max. 1A, 24VDC or 0.2A, 110~240VAC

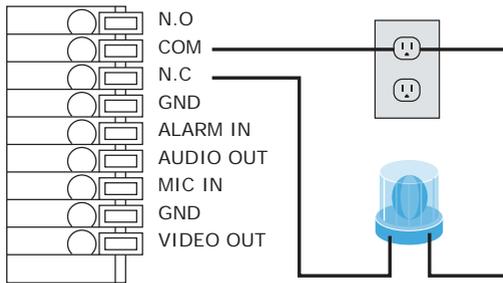


5. Relay Connection:

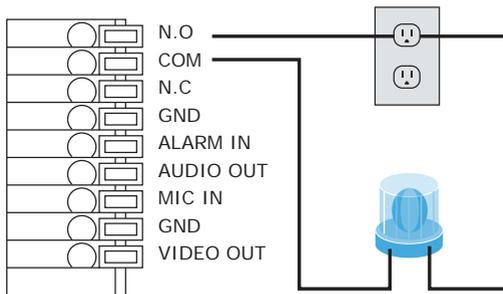
1) Digital Input connection



2) Relay Output Connection



Or



6. MIC IN:

Connect a microphone to the network camera.

7. AUDIO OUT

Connect a loud speaker to the network camera. This is for voice alert and two-way audio.

2.2.4 Installation

1. Fix IR camera in a desired location with stand.
2. Plug in Ethernet Cable into RJ-45 connector (LAN port).
3. Connect the attached power adapter to camera and plug in this adapter into power outlet.
4. Connect Video BNC connector to a TV set if necessary (to check camera viewing angle and focus).
5. Done.

2.3 Outdoor Dome Type – ICA-5250V

2.3.1 Package Content

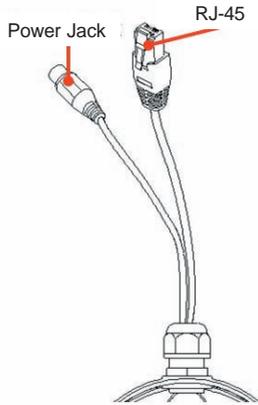
- Camera Unit x 1
- Power Adapter x 1
- Accessories Kit x 1
- Female to Female RJ-45 Connector x 1
- Mounting Label x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.3.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

2. Power Jack: The input power is 12VDC.

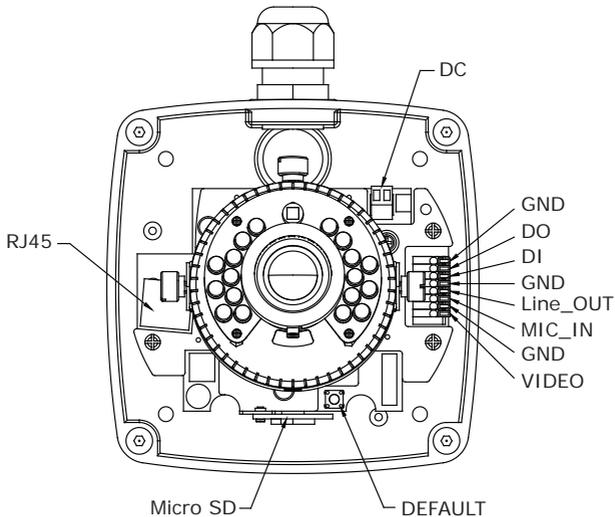


Note

1. To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.
2. The RJ-45 port also supports IEEE 802.3af Power over Ethernet. Apply either PoE or DC power to empower the IP camera and do not use any other non-standard PoE injector to the camera.

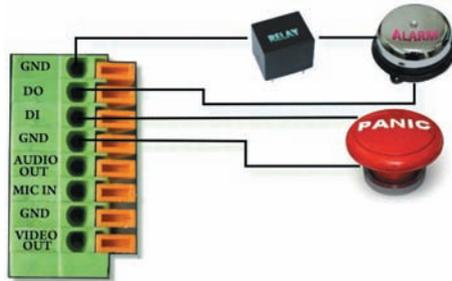
2.3.3 I/O Control Instruction

I/O terminal connector is used for such functions as motion detection, and event triggering.



2.3.3.1 I/O Connection

Please connect the GND & DO pin to the external relay (buzzer) device.
Please connect the GND & DI pin to the external trigger device.



2.3.3.2 I/O PIN definition

- ◇ GND (Ground): Initial status is LOW
- ◇ DO (Digital Output): 5VDC
- ◇ DI (Digital Input): Max. 50mA, 5VDC

2.3.4 Factory Default

If you forget your password, please follow the steps to revert back to default value.

1. Remove the power and Ethernet cable. Press and hold the button as shown in the picture below.



2. Connect power to the camera again, and do not release the button during the system booting.

3. It will take around 30 seconds to boot the camera.
4. Release the button when camera finishes proceed.
5. Plug in the Ethernet cable, and re-login the camera using the default IP (<http://192.168.0.20>), and user name (admin), password (admin).

2.4 Outdoor Dome Type – ICA-5550V

2.4.1 Package Content

- Camera Unit x 1
- Power Adapter x 1
- Accessories Kit x 1
- Female to Female RJ-45 Connector x 1
- Mounting Label x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.4.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

2. Power Jack: The input power is 12VDC.



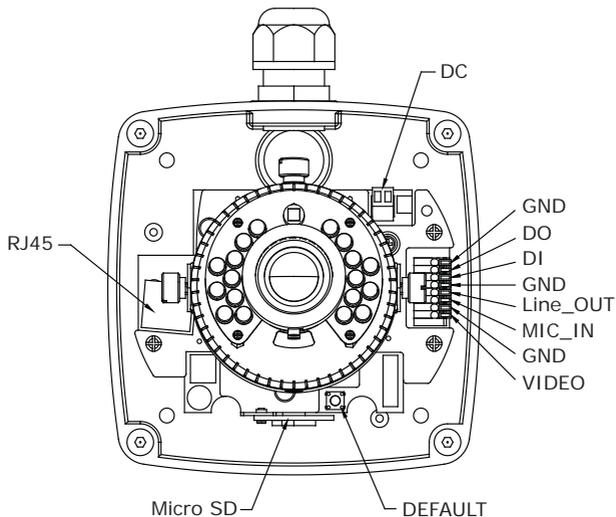


Note

1. To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.
2. The RJ-45 port also supports IEEE 802.3af Power over Ethernet. Apply either PoE or DC power to empower the IP camera and do not use any other non-standard PoE injector to the camera.

2.4.3 I/O Control Instruction

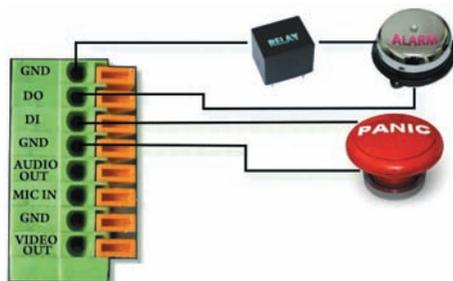
I/O terminal connector is used for such functions as motion detection and event triggering.



2.4.3.1 I/O Connection

Please connect the GND & DO pin to the external relay (buzzer) device.

Please connect the GND & DI pin to the external trigger device.



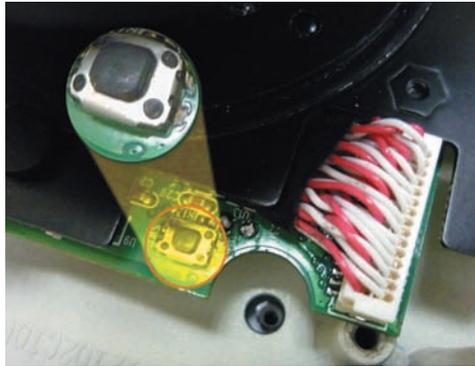
2.4.3.2 I/O PIN definition

- ◇ GND (Ground): Initial status is LOW
- ◇ DO (Digital Output): 5VDC
- ◇ DI (Digital Input): Max. 50mA, 5VDC

2.4.4 Factory Default

If you forget your password, please follow the steps to revert back to default value.

1. Remove the power and Ethernet cable. Press and hold the button as shown in the picture below.



2. Connect power to the camera again, and do not release the button during the system booting.
3. It will take around 30 seconds to boot the camera.
4. Release the button when camera finishes proceed.
5. Plug in the Ethernet cable, and re-login the camera using the default IP (<http://192.168.0.20>), and user name (admin), password (admin).

2.5 Bullet Type – ICA-HM316

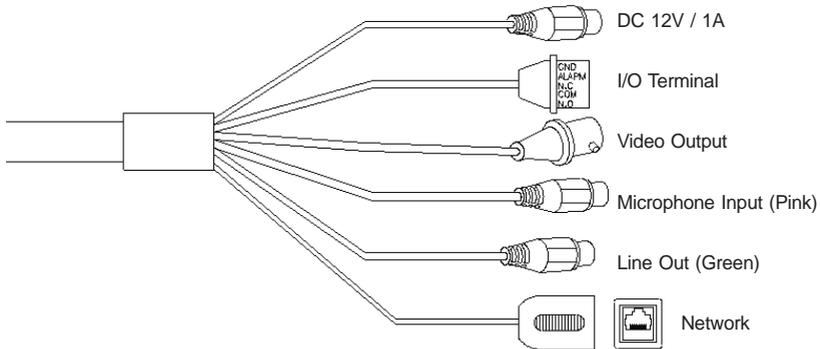
2.5.1 Package Content

- IP Camera Unit x 1
- Power Adapter x 1
- Screw Package x 1
- Stand x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.5.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.



2. I/O Control Instruction

I/O terminal connector is used for such functions as motion detection, event triggering, and alarm alert. It provides the interface to I/O terminal.

3. Digital Input (GND + Alarm)

An alarm input for connecting devices can toggle between an open and closed circuit, for example, PIRs, door/window contacts, glass break detectors, etc. When a signal is received, the status changes and the input becomes active.

4. Relay Output (COM+N.O.) / (COM+N.C.)

An output to relay switch, for example, LEDs, sirens, etc

5. Digital Input/Alarm Input

- 1) GND (Ground): Initial status is LOW
- 2) Alarm: Max. 50mA, 3.3VDC

6. Relay Output

- 1) N.C. (Normally Closed): Max. 1A, 24VDC or 0.2A, 110~240VAC
- 2) COM: (Common)
- 3) N.O. (Normally Open): Max. 1A, 24VDC or 0.2A, 110~240VAC

7. Power Jack

The input power is 12VDC.



Note

To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.

8. MIC in (audio in)

Connect a microphone to the network camera.

9. Line out (audio out)

Connect a loud speaker to the network camera. This is for voice alert and two-way audio.

2.5.3 Installation

1. Fix IR camera in a desired location with stand.
2. Plug in Ethernet Cable into RJ-45 connector (LAN port).
3. Connect the attached power adapter to camera and plug in this adapter into power outlet.
4. Connect Video BNC connector to a TV set if necessary (to check camera viewing angle and focus).
5. Done.

2.6 Bullet Type – ICA-HM316W

2.6.1 Package Content

- IP Camera Unit x 1
- Power Adapter x 1
- Screw Package x 1
- Stand x 1
- 5dbi Antenna x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.6.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

2. I/O Control Instruction

I/O terminal connector is used for such functions as motion detection, event triggering, and alarm alert. It provides the interface to I/O terminal.

3. Digital Input (GND + Alarm)

An alarm input for connecting devices can toggle between an open and closed circuit, for example, PIRs, door/window contacts, glass break detectors, etc. When a signal is received, the status changes and the input becomes active.

4. Relay Output (COM+N.O.) / (COM+N.C.)

An output to relay switch, for example, LEDs, sirens, etc.

5. Digital Input/Alarm Input

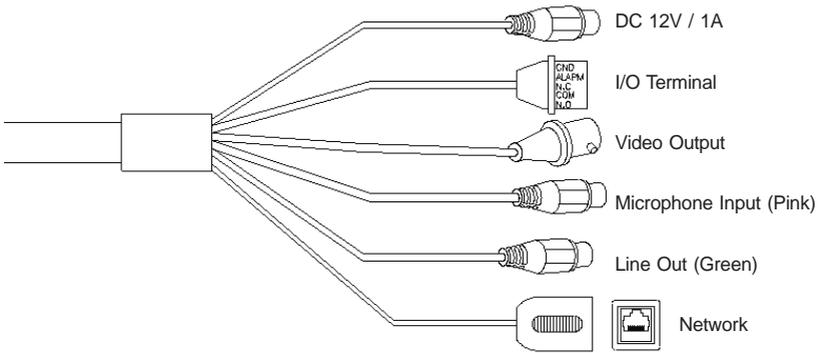
- 1) GND (Ground): Initial status is LOW
- 2) Alarm: Max. 50mA, 3.3VDC

6. Relay Output

- 1) N.C. (Normally Closed): Max. 1A, 24VDC or 0.2A, 110~240VAC
- 2) COM: (Common)
- 3) N.O. (Normally Open): Max. 1A, 24VDC or 0.2A, 110~240VAC

7. Power Jack

The input power is 12VDC.



To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.

8. MIC in (audio in)

Connect a microphone to the network camera.

9. Line out (audio out)

Connect a loud speaker to the network camera. This is for voice alert and two-way audio.

2.6.3 Installation

1. Fix IR camera in a desired location with stand.
2. Plug in Ethernet Cable into RJ-45 connector (LAN port).
3. Connect the attached power adapter to camera and plug in this adapter into power outlet.
4. Connect Video BNC connector to a TV set if necessary (to check camera viewing angle and focus).
5. Done.

2.7 Bullet Type – ICA-3250V

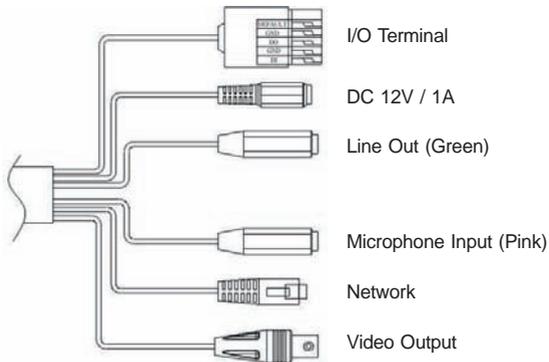
2.7.1 Package Content

- IP Camera Unit x 1
- Power Adapter x 1
- Screw Package x 1
- Female to Female RJ-45 Connector x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.7.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.



2. I/O Control Instruction

I/O terminal connector is used for such functions as motion detection, event triggering, and alarm alert. It provides the interface to I/O terminal.

3. Digital Input / Output

- 1) GND (Ground): Initial status is LOW
- 2) DI (Digital Input): Max. 50mA, 5VDC
- 3) DO (Digital Output): 5VDC

4. Power Jack

The input power is 12VDC.

5. MIC In (Audio In)

Connect a microphone to the network camera.

6. Line Out (Audio Out)

Connect a loud speaker to the network camera. This is for voice alert and two-way audio.

7. Reset to default

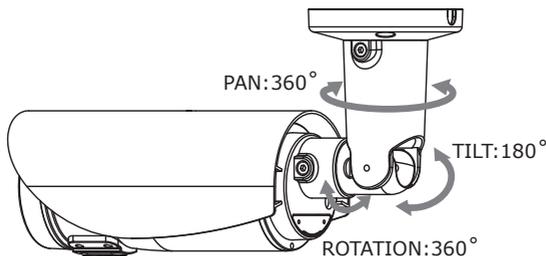
Take an electronic wire, plug one side of the wire into "Default" and the other side into "GND".



To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.

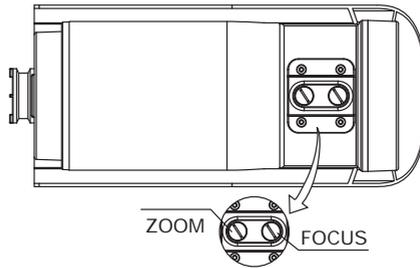
2.7.3 Installation

1. You can use 3-Axis bracket to adjust the angle of camera. Please lock the screws tightly to fix the angle after adjusting.

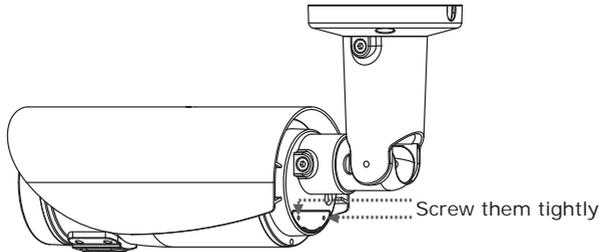


Please take note of the cable situation. Avoid excessive distortions in the cable; otherwise, it will cause malfunction.

2. Plug in Ethernet Cable into RJ45 connector (LAN port).
3. Connect the attached power adapter to camera and plug in this adapter into power outlet.
4. Connect Video BNC connector to a TV set if necessary (to check camera viewing angle and focus).
5. This IP camera is equipped with an external vari-focal lens controller. Please adjust "ZOOM" and then "FOCUS" as shown in the following picture until the image gets clear.



6. For the waterproof reason, if you install a Micro SD card, please turn and lock the screws on the Micro SD card lid tightly and make sure it's sealed.



7. Done.



Note

Be aware the waterproof rubber, improper placement or missing the rubber will cause seal malfunction.

2.8 Bullet Type – ICA-3550V

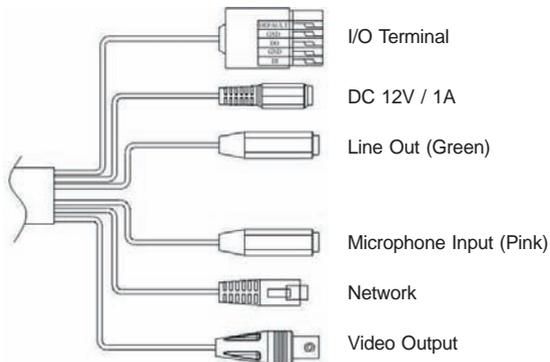
2.8.1 Package Content

- IP Camera Unit x 1
- Power Adapter x 1
- Screw Package x 1
- Female to Female RJ-45 Connector x 1
- User's Manual CD-ROM x 1
- Quick Installation Guide x 1

2.8.2 Physical Details

1. RJ-45 LAN socket: Connect to PC or Hub/Switch.

For connecting to 10Base-T Ethernet or 100Base-TX Fast Ethernet cable, this Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.



2. I/O Control Instruction

I/O terminal connector is used for such functions as motion detection, event triggering, and alarm alert. It provides the interface to I/O terminal.

3. Digital Input / Output

- 1) GND (Ground): Initial status is LOW
- 2) DI (Digital Input): Max. 50mA, 5VDC
- 3) DO (Digital Output): 5VDC

4. Power Jack

The input power is 12VDC.

5. MIC In (Audio In)

Connect a microphone to the network camera.

6. Line Out (Audio Out)

Connect a loud speaker to the network camera. This is for voice alert and two-way audio.

7. Reset to default

Take an electronic wire, plug one side of the wire into "Default" and the other side into "GND".

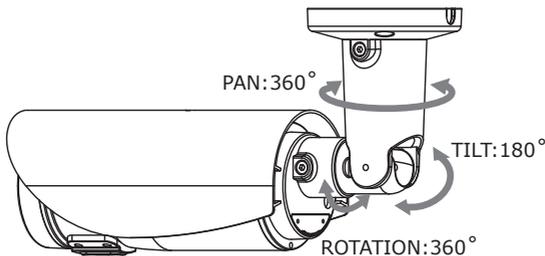


Note

To ensure maximum compatibility, use only the power adapter that came with your product. Otherwise, the product may be damaged.

2.8.3 Installation

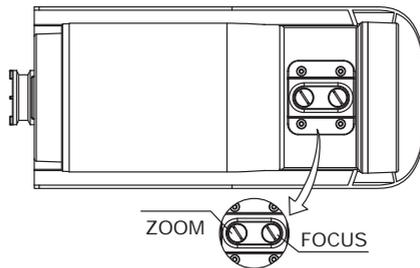
1. You can use 3-Axis bracket to adjust the angle of camera. Please lock the screws tightly to fix the angle after adjusting.



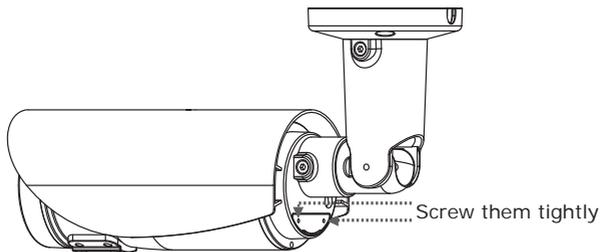
Note

Please take note of the cable situation. Avoid excessive distortions in the cable; otherwise, it will cause malfunction.

2. Plug in Ethernet Cable into RJ45 connector (LAN port).
3. Connect the attached power adapter to camera and plug in this adapter into power outlet.
4. Connect Video BNC connector to a TV set if necessary (to check camera viewing angle and focus).
5. This IP camera is equipped with an external vari-focal lens controller. Please adjust "ZOOM" and then "FOCUS" as shown in the following picture until the image gets clear.



6. For the waterproof reason, if you install a Micro SD card, please turn and lock the screws on the Micro SD card lid tightly and make sure it's sealed.



7. Done.



Note

Be aware the waterproof rubber, improper placement or missing the rubber will cause seal malfunction.

Chapter 3. Camera Windows Utility

This chapter shows how to quickly set up your PLANET IP Camera. The PLANET IP Camera is with the default settings. However, to help you find the networked camera quickly, the windows utility (PLANET IP Installer) can search the cameras in the network that will help you to configure some basic setting before you start advanced management and monitoring.

Please insert the bundle CD disk into your CD/DVD-ROM drive. When the welcome web page appears, please click your IP camera name on the IP camera list. Then click the PLANET IPInstaller hyperlink to start the PLANET IP Installer.

3.1 IP Assignment

1. Use "IP Installer II" to assign an IP address of IP CAMERA.

The IP Installer software is in the attached CD.

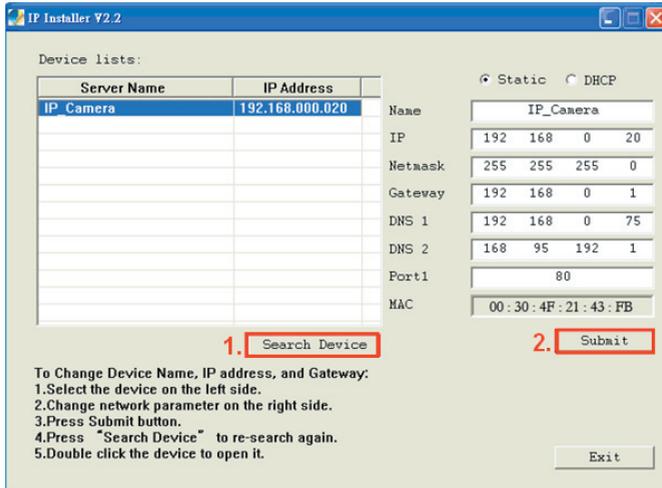
2. IP Installer supports languages.

IPInstallerEng.exe

3. OS: Windows XP SP2 or above. If the following "Windows Security Alert" popup, please click "Unblock".



4. The GUI of IP Installer is as follows (Default IP: 192.168.0.20).



- IP Installer will search all IP Cameras connected on LAN. The user can click "Search Device" to search again.
- Click one of IP Cameras listed on the left side of IP Installer, then the network configuration of that IP Camera will be listed on the right side. If parameters change, click on "Submit". Then, the network configuration will be changed. Just click "OK" to reboot.



- Please make sure the subnet of PC IP address and IP CAM IP address are the same.

For Example:

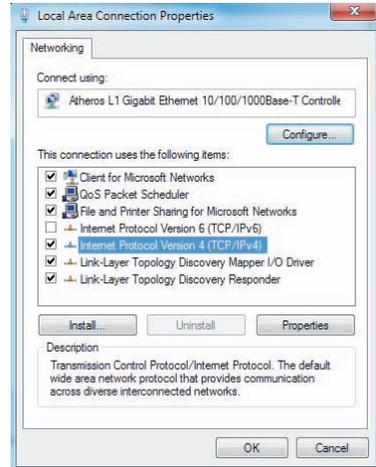
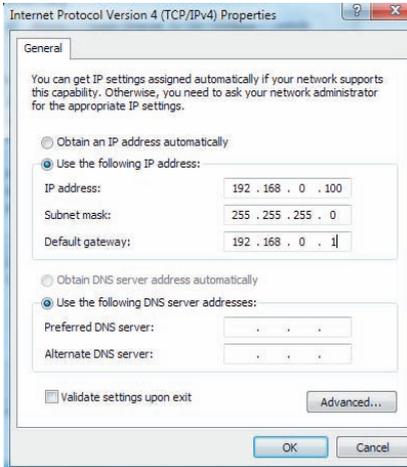
IP CAM IP address: 192.168.0.20

PC IP address: 192.168.0.100

To Change PC IP addresses:

Control Panel → Network Connections → Local Area Connection Properties → Internet Protocol (TCP/IP) → Properties

Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera IP subnet or PC IP subnet accordingly.



- A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on “Device list” of IP Installer. An IE browser will be opened.
- Then, please key in the default **“Username: admin”** and **“Password: admin”** in the following message box.



- If the user name and password are input correctly, the following web page will be displayed.





Further Information

This guide is used to help you start-up your IP Camera settings. It is also recommended to check the user manual in CD disk for more details of the system and user configuration.

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