

## **2 Mega-Pixel Wired / Wireless IP Camera**

ICA-HM132 / ICA-HM136

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

Quick Installation Guide

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## Chapter 1. Introduction

Thank you for purchasing the PLANET 2 Mega-Pixel Wired / Wireless IP Camera. It is versatile and high image solution of surveillance application for day and night. The video can be stored in the SD card and playback remotely (For ICA-HM132 / ICA-HM136 / ICA-3250V only). With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

The PLANET IP Camera support Multi-Profile function can stands for simultaneously 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.

### 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 quick set up the cameras, unless model name specified terms "IP Camera" will be used for these models.

### 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

## Chapter 2. Physical Description and Installation

### 2.1 ICA-HM132 2 Mega-Pixel 20M IR Vari-Focal Dome IP Camera

#### 2.1.1 ICA-HM132 Package Content

IP Camera Unit x 1

Power Adapter x 1

Screw package x 1

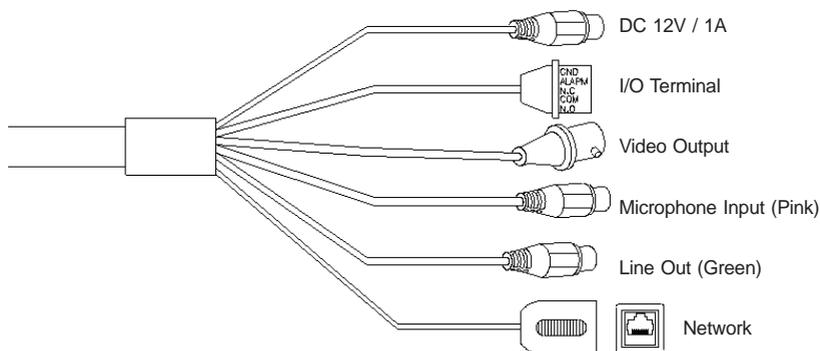
User's Manual CD-ROM x 1

Quick Installation Guide x 1

#### 2.1.2 ICA-HM132 Physical Details

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

For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. 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 – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to I/O Terminal.

#### 3. Digital Input (GND+Alarm)

An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state 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 state is LOW
- 2) Alarm: Max. 50mA, DC 3.3V

#### 6. Relay Output

- 1) N.C. (Normally Close): 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 DC 12V.



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 alerting and two-way audio.

### 2.1.3 ICA-HM132 Installation

1. Fix IR camera to 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 ICA-HM136 2 Mega-Pixel 20M IR Vandal Proof Dome IP Camera

### 2.2.1 ICA-HM136 Package Content

Camera unit x 1

Power Adapter x 1

Accessories Kit x 1

User's Manual CD-ROM x 1

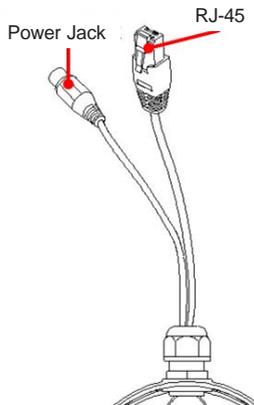
Quick Installation Guide x 1

### 2.2.2 ICA-HM136 Physical Details

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

For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. 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 DC 12V.



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 ICA-HM136 I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering.

### 1. Digital Input: (GND+Alarm)

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

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

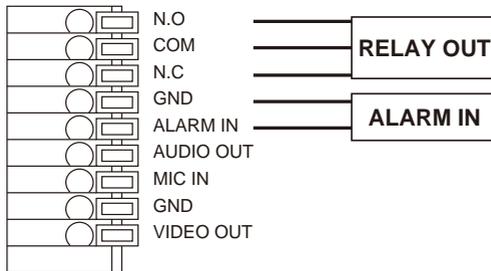
An output to relay switch, for example: LEDs, Sirens, etc.

### 3. Digital Input/Alarm Input:

- 1) GND (Ground): Initial state is LOW
- 2) Alarm: Max. 50mA, DC 3.3V

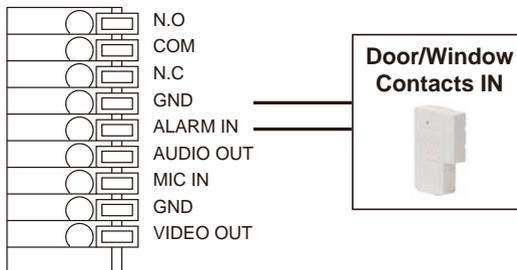
### 4. Relay Output:

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

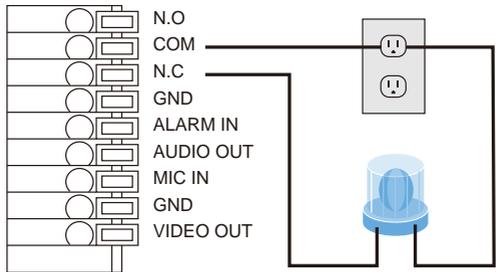


### 5. Relay Connection:

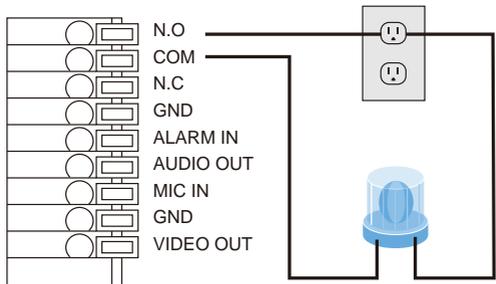
- 1) Digital Input connection



## 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 alerting and two-way audio.

## 2.2.4 ICA-HM136 Installation

1. Fix IR camera to 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 ICA-HM316 2 Mega-Pixel Outdoor IR PoE IP Camera

### 2.3.1 ICA-HM316 Package Content

IP Camera Unit x 1

Power Adapter x 1

Screw Package x 1

Stand x 1

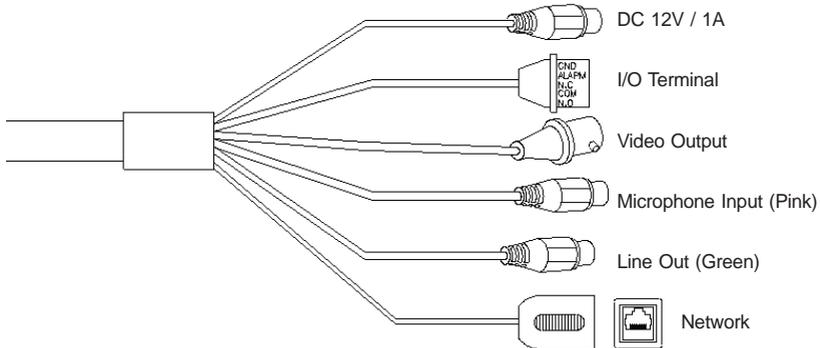
User's Manual CD-ROM x 1

Quick Installation Guide x 1

### 2.3.2 ICA-HM316 Physical Details

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

For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. 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 – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to I/O Terminal.

#### 3. Digital Input (GND+Alarm)

An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state 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 state is LOW
- 2) Alarm: Max. 50mA, DC 3.3V

#### 6. Relay Output

- 1) N.C. (Normally Close): 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 DC 12V.



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 alerting and two-way audio.

### 2.3.3 ICA-HM316 Installation

1. Fix IR camera to desired location with stand.
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. Done.

## 2.4 ICA-HM316W 2 Mega-Pixel 11n Outdoor IR IP Camera

### 2.4.1 ICA-HM316W Package Content

IP Camera Unit x 1

Power Adapter x 1

Screw package x 1

Stand x 1

5dbi Antenna x 1

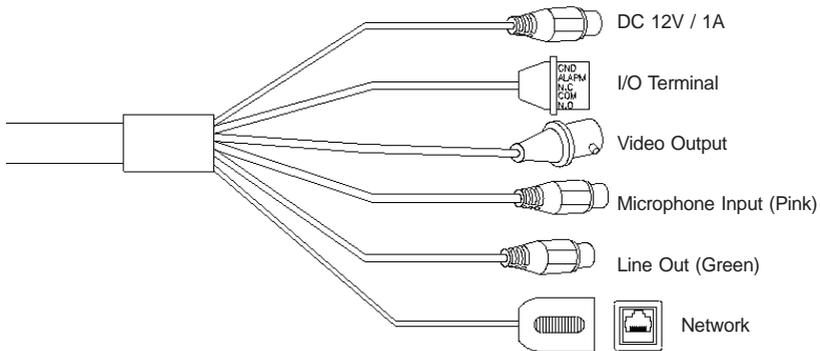
User's Manual CD-ROM x 1

Quick Installation Guide x 1

### 2.4.2 ICA-HM316W Physical Details

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

For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. 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 – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to I/O Terminal.

#### 3. Digital Input (GND+Alarm)

An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state 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 state is LOW
- 2) Alarm: Max. 50mA, DC 3.3V

#### 6. Relay Output

- 1) N.C. (Normally Close): 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 DC 12V.



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 alerting and two-way audio.

### 2.4.3 ICA-HM316W Installation

1. Fix IR camera to desired location with stand.
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. Done.

## 2.5 ICA-3250V Full HD Outdoor IR PoE IP Camera

### 2.5.1 ICA-3250V Package Content

IP Camera Unit x 1

Power Adapter x 1

Screw Package x 1

Female to Female RJ-45 connector x 1

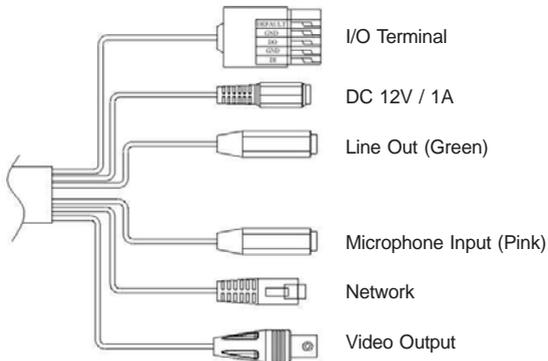
User's Manual CD-ROM x 1

Quick Installation Guide x 1

### 2.5.2 ICA-3250V Physical Details

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

For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. 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 – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to I/O Terminal.

#### 3. Digital Input/Output

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

#### 4. Power Jack

The input power is DC 12V.



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

#### 5. MIC in (audio in)

Connect a microphone to the network camera.

#### 6. Line out (audio out)

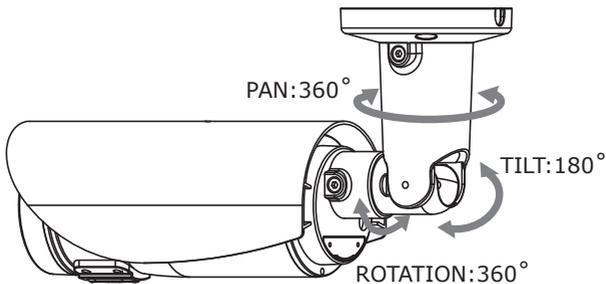
Connect a loud speaker to the network camera. This is for voice alerting and two-way audio.

#### 7. Reset to default

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

### 2.5.3 ICA-3250V Installation

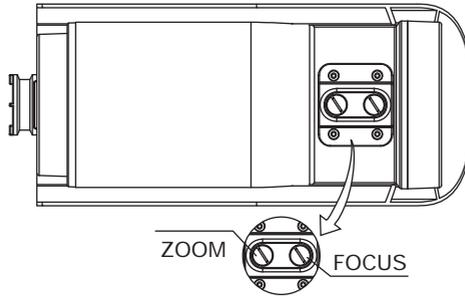
1. You can use 3-Axis bracket to adjust the angle of camera. Please lock the screws tightly to fix the angle after adjusting.



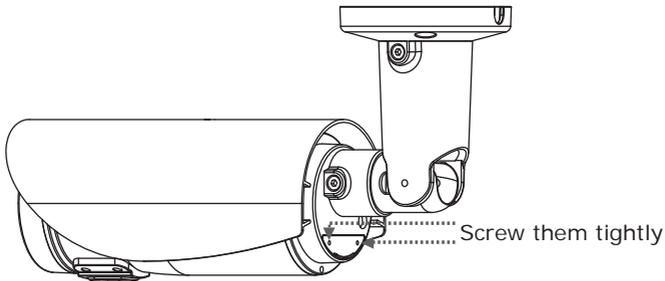
Please notice cable situation, avoid excessive distortions in the cable, otherwise it will cause malfunction.

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 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.



Note

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

7. Done.

## Chapter 3. Camera Windows Utility

This chapter shows how to quick set up your H.264 IP Camera. The H.264 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 shall help you to configure some basic setting before you started 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.

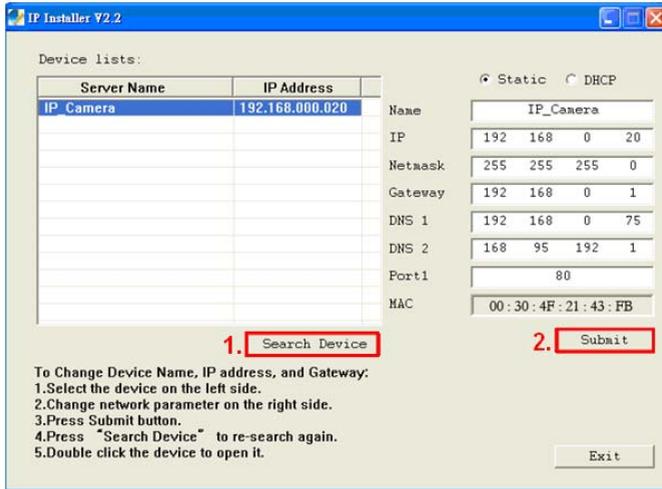
#### 2. IP Installer supports languages.

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 changed, 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:**

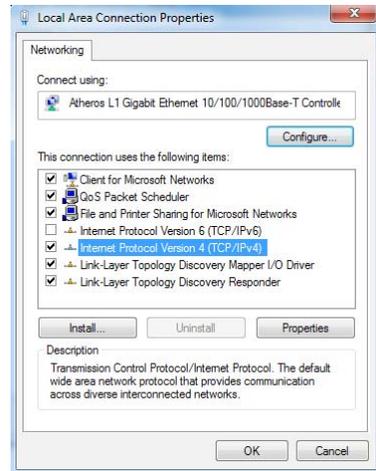
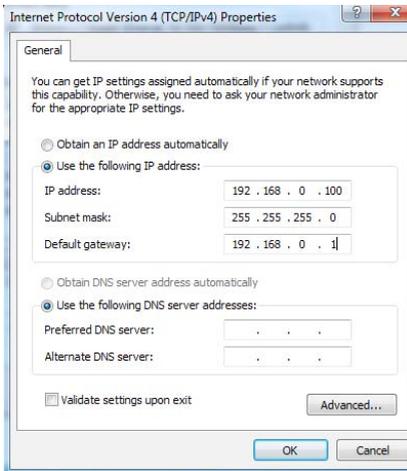
IP CAM IP address: 192.168.0.20

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

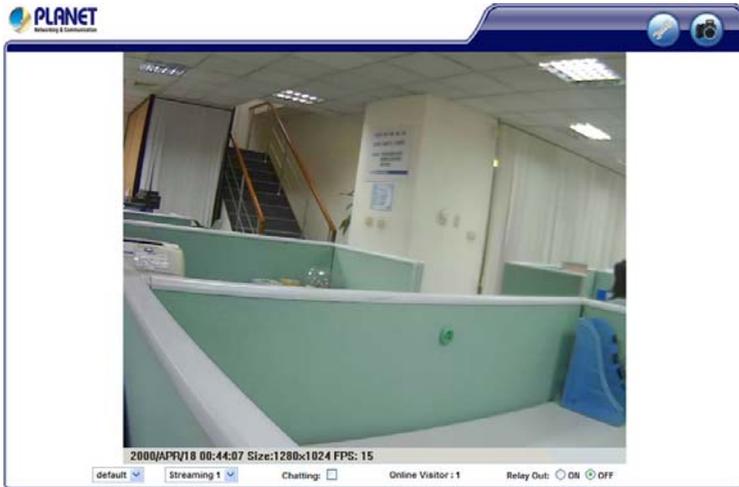
Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera IP subnet or PC IP subnet accordingly.



- 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.



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## ***Further Information***

This guide is used to help you startup 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.