

Wireless/Wired Network Camera

Night Vision & Remote Operation

User Manual



www.ZMODO.com

Thank you for buying our IP camera.

This series of products is designed and equipped for network video surveillance, including wired IP bullet cameras, wireless IP bullet cameras, IP IR dome cameras, IP IR waterproof cameras etc. We have adopted high performance chips to ensure high quality media processing that includes video and audio collection, compression, and transmission. Standard MJPEG compression format ensures clear video streaming performance and enables users to view feeds via IE browser, centre management software and client software.

AJ series products are applicable for small, medium and large enterprises as well as franchise stores, factories, and home usage. These systems are easy to install and operate and are perfect for anywhere remote network video transmission is needed. Before you begin installation, please check to make sure all products accessories are included in the package.

Product Components and Features:

IP camera	1 PC
Bracket (optional)	1 PC
Power adapter	1 PC
Warranty card	1 PC
CD	1 PC

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IP cameras are a new generation product that combine analog and IP video technology. IP cameras can compress and encrypt video and audio signals then send it to remote terminals through the internet with its built-in processor and web server. With an IP address, users can use the standard Internet Explorer browser to view the camera real-time, monitor targets, manage and store video and audio, as well as control PTZ through the network.

As a new generation of products in the security family, IP cameras share the same function as analog cameras such as auto white balance, auto shutter speed, AGC, auto backlight compensation etc. On the other hand, IP cameras also support remote access through the internet, and support multi-user viewing functions. Some IP cameras are even able to extend to both analog and digital signals.

The core of F series IP cameras is 32Bit RSIC with standard MJPEG compression format, CMOS image sensors, auto white balance and backlight balance, Internet Explorer compatibility, smart phone accessibility, and centralized monitor interface management. In general, these cameras host a variety of functions that can serve a number of users depending on their usage requirements and conditions.

1.1. Product Specifications

- *Adopt high performance with strong functional media processors- 32Bit RSIC
- *CMOS image sensor
- *Uses high quality MJPEG compression to transmit video over low bandwidth internet speeds
- *Maximum support of 15 users viewing at the same time, no limit for users if using Forwarder Server function;
- *Built in Web Server: makes it easy for users to view real time monitoring and access setting administration through the use of standard internet browser (Internet Explorer);
- *Support WIFI: 802. 11b/g wireless networking
- *Support remote system update;
- *Support DDNS analysis, support LAN & Internet (ADSL, Cable Modem)
- *Support variety of network protocol: TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, BOOTP, DHCP, FTP, SNMP, WIFI/802. 11b/g
- *Parts of modes products support one/two way audio talk-back;
- *Support motion detection alarm function (set area & sensitivity);
- *Support image snap
- *Abnormal automatic recovery function, if network interruption can auto-connect
- *Set alarm period for dynamic alarm function

1.2. Applications

This series of products is ideal for big department stores, supermarkets, factories, workshops, and home use.



1.3. System Requirements

Minimum Hardware Configuration

CPU: Pentium 1.6 GHz

Memory: 256MB

Audio Card: needs audio monitor, two way talk-back is essential

Hard Disk: no less than 40G if it needs video image

Operation System: 32 bit simple/English Windows 2000/XP/2003/Vista & 64 bit simple Chinese/English Windows 2003/XP/Vista Software Applications

-IE 5.0 or above

-DirectX8.0 or above version

-TCP/IP network protocol

2. Interface & Installation

There are two kinds of AJ series IP camera interfaces: one is body guard interface and the other is the extended line interface. Here is two products for an example.

*Extended line IP Camera icon



2.1. Interface

Power Supply Light: constant on after power up

Network Light: constant blink after power up data transmission

Ethernet interface: RJ-45 interface

I/O interface: 1 router alarm input, accept 3, 4 two terminals (input terminal grounding, low level effective trigger); 1 router TTL control input, connect 1, 2 two terminals (1.2 terminals short connections).

Power input interface: connect direct current 5V Power

*Extension line interface definition icon:



Power: direct current 12V.

GPIO alarm interface: accept external connection linkage alarm (for example: door magnet, infrared)

Reset Line: two short circuit reset lines, equipment restores to factory settings.

Backup: follow-up product extend interface.

2.2. Installation

IP camera has the ability to process images and transmit via an internet connection. It offers DDNS function for static IP, dynamic IP, and PPPoE dialing users. IP camera can connect to outer network through LAN connection. It also can connect directly as these are all widely applied and accepted in IP cameras.

2.2.1. Installation in LAN.

This is the most popular way to access as long as there is a router with internet capabilities. Connect router directly to IP camera, the camera will then connect to internet as a normal PC, as shown:

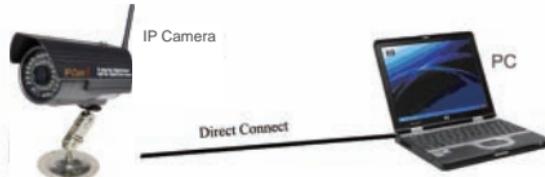


2.2.2. PPPoE Installation

Under this connection, users must set PPPoE dialing parameters on the IP camera itself. Input the username and password of ISP supplier and offer permit IP camera dialing to connect to internet. To set the PPPoE dialing parameter connect the device to network through the first way, then write parameter to the device. Another option is to follow the third way to direct process parameter and write to device. For detailed steps please refer to 3.4.5.

2.2.3. IP Camera & PC connection

This method is not used as often, but when you process machine be sure to write parameter or program shift. We recommend you adopt the LAN connection to process the modification of machine parameter.



Connect to IP camera (note: don't apply wrong power). After one minute modification, video should be connected by internet cable directly to the camera. When yellow light is on and green light is blinking, you will know that the physical

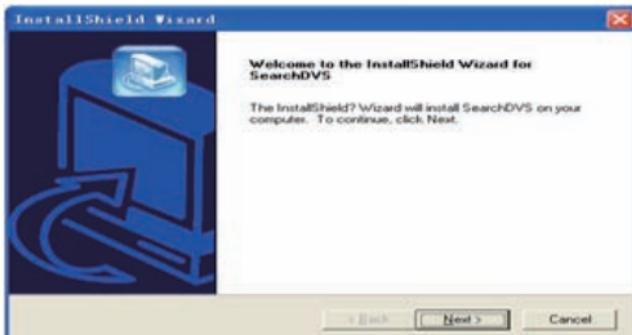
connection of IP camera is finished. To ensure successful connection, we recommend setting the camera IP as the stable IP at the same net range of PC in LAN. For how to set this, please refer to number 8 of frequently asked questions.

3. IE Browse to IP Camera

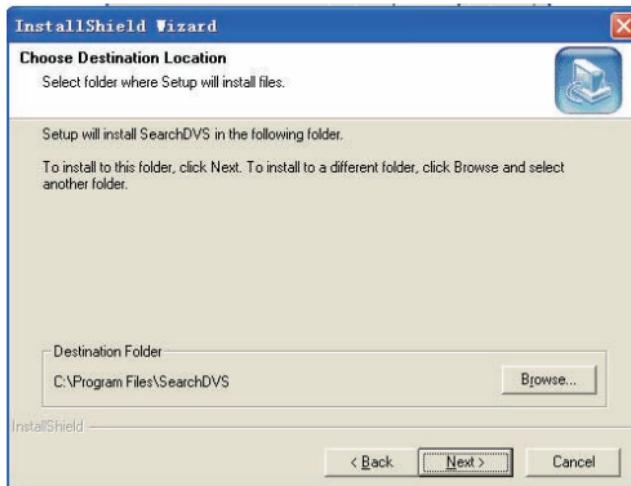
After IP camera connects to PC LAN through router, you can operate on IP camera via PC, first please run the relative software in the CD kit.

3.1. Use Search tool Software

Open the disk, double click  icon (the IP Finder software), and the following interface will appear:



Click **Next** to complete the installation.



Note:

Before using the product installation, please just use IPCAM standard power adapter. The use of non-certified power adapter may damage the IPCAM. IPCAM should only be installed in the indoor environment.

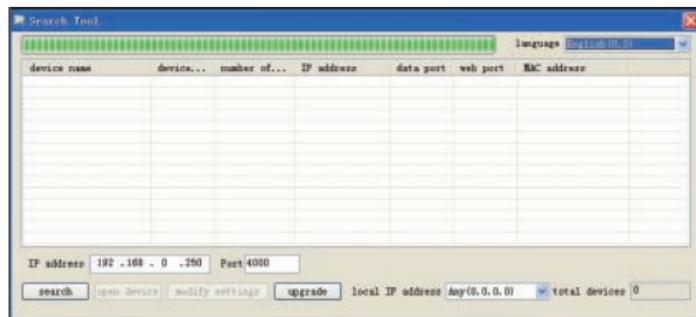


Figure3.1

If the internet cable and power connect is functioning properly, click the

search

button. Device styles, name and IP address will be in the list. (if it does not appear, please confirm power and internet cables are working properly)

After you finished the install of the IP Finder software, You will see the  icon. Double click the icon to run the IP Finder.

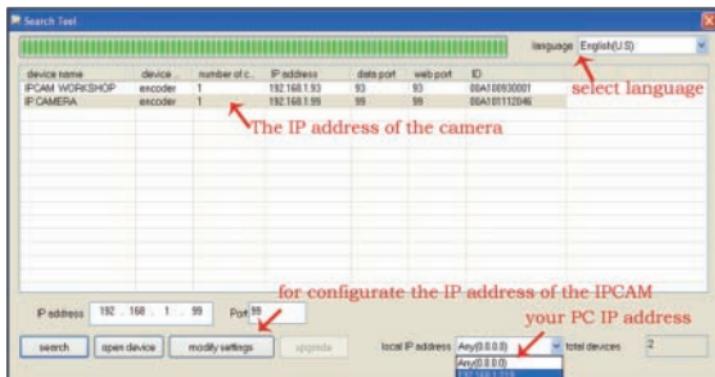


Figure3.2

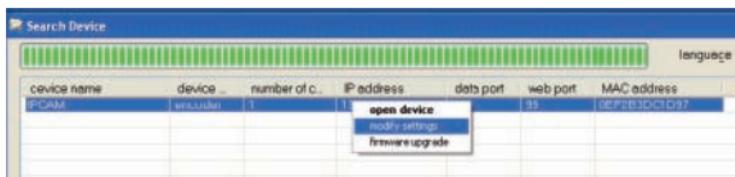


Figure3.3

Note:

After you click the search button the software will automatically search for all the devices' IP addresses within a local area network.

There are three cases:

1. IP cameras' IP address is not found. After you clicked the search button the devices' IP address did not show in the software's list: e.g. Figure3.1

2. IP camera's IP address is found, but the IP Camera's network segment is not the same as the local IP address'. To fix this you should change the IP Camera's network segment to be the same as the local IP address'. You can change this following **3.1.1 Configure Network Parameter** e.g. Figure3.4 (e.g. The local computer's IP address is :192.168.0.15 but the device's IP address is: 192.168.1.99. You need to change the device's IP address:192.168.1.99 to:192.168.0.99)

3. IP cameras' IP address is found and the device's network segment is the same as the local IP address. All devices are listed in the software list.

Note:

1. If it needs manual modification- camera name, HTTP interface, IP address, sub-net mask, gateway, main DNS server, backup DNS server, etc. Click apply after modification, enter IP camera username and password and click OK to confirm.

2. Inner visit address is the LAN address; outer visit address is WAN address.

3.1.1 Configure Network Parameter

First select the device's IP address. Right-click to open the network configuration dialog box, and from there you can configure the devices' network parameters.

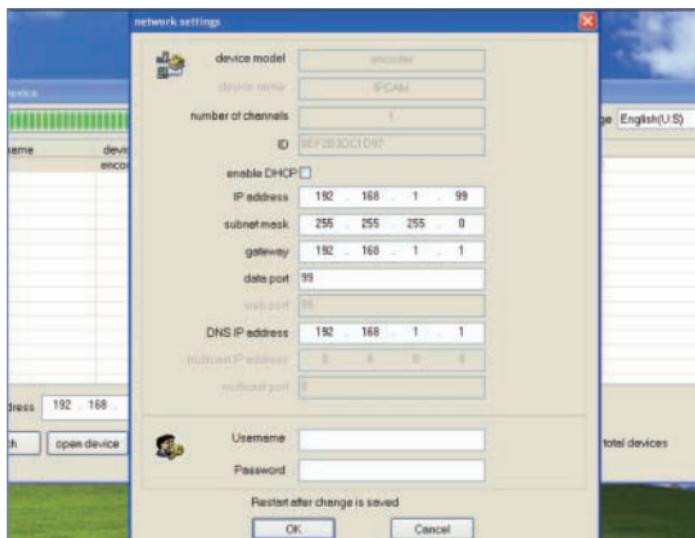


Figure3.4

Note:

IP Address: Fill in IP address, ensure that the IP address' network segment you have filled is the same as the PC network segment.

Mask: Use the default subnet mask e.g: 255.255.255.0

Gateway: Ensure that the device's network gateway is the same as your PC's.

DNS: DNS service provider's IP address.

Port: Device provides HTTP services, port, usually 80

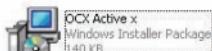
User and password: The default administrator account is admin. Password is blank.

Use DHCP Device uses Dynamic Host Configuration Protocol. If enabled each time you start the device will be from a DHCP server (typically a router or modem) to obtain IP addresses. If not you must manually set the IP address.

Type the correct user name and password (user must have administrator privileges) and update system firmware with the Web UI firmware

3.2. Logging and Active X installation

Before Internet Explorer can access through the web, you first must install a video plug-in. Installation mode is below:



Open disk, find icon. Double click this icon and process installation. Click the next step to finish.

There are two way to log IP camera:

- 1) Double-click the device' IP address in the list of IP Finder. (Figure 3.2). Internet Explorer will automatically open and display the device's login screen.
- 2) Access directly through Internet Explorer by manually entering the device IP address in the Internet Explorer browser's address bar. For example: Figure3.5



Figure3.5

When the item connects to outer networking, a log-in interface will appear. For example: Figure3.6

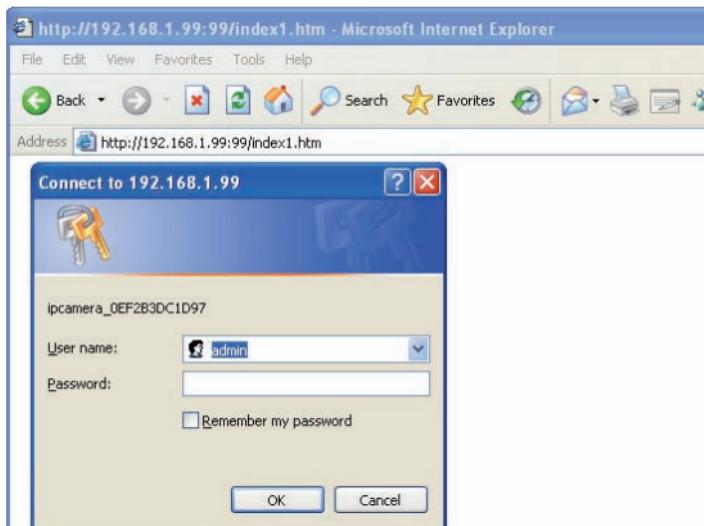


Figure3.6

Enter log in information and click ok. An installation pop-up will appear: e.g. Figure3.6

Zmodo IP Camera

ActiveX Mode (For IE Browser)

[Sign in](#)

Server Push Mode (For FireFox, Google Browser)

[Sign in](#)

Snap Motion Mode (For CellPhone Browser)

[Sign in](#)

Attention:

Impose using 1024*768 screen resolution.

Figure3.7

Select the needed language, and the way you want to visit. Click Sign in. After installation Active X will be usable. If it is blocked by antivirus software, please remove block.

Note:

Default device account is **admin**, no password.

3.3. Main Operation Interface



Figure3.8



For example: If the  is on , the device is the first to monitor the status. When you log on the operator interface, you can perform PTZ and video parameters.

Direction control: Click the arrows in different directions to rotate the lens in the appropriate direction.



Vertical cruise Level cruise

1. Image mirror indicates a reverse image.

2. Resolution, mode, brightness, contrast default setting are: 320*240、50HZ、6

、4. Mode is mainly for the adjustment of light strength, please adjust to 60HZ when lighting is poor/dark.

3. There are 3 browse modes in Internet Explorer mode: visitor, operator and administrator which has authority.

Logging into different modes will cause the operation to differ. Regarding the user authorities, please refer to 3.4.4. Equipment User Administration.

If you want to see 4-way, or 9-way-- you can click the icon  or 

OSD: In the video display date and time. You can disable the OSD function or choose the color of OSD.

Snapshot Photo: Click the icon  to take a photo.

Video: Click  icon to enter the recording mode, the icon becomes  . Click again to end recording.

3.4. Manager Operation

When you are logged on as Administrator, click on “Administrator action” to enter setting interface. Device Information: You can see the device serial number, equipment systems and device firmware version of the application.

Alias setting : You can set your favorite device aliases.

Date&Time set : Set the date and time.

User settings : Can be set up to 8 users. On this page you can set up accounts with user name and password as well as in their packet (administrator, operator, visitor).

● **Visitor:** In this mode, you can only visit.

● **Operator:** You can set the direction of the lens device, set the video screen's brightness, contrast and other parameters.

● **Administrator:** You can set the device advanced configuration.

UPnP set: If you want internet access to IPCAM, ensure that the state is correct UPnP.

Device Firmware Upgrade: The system firmware update and application thereof.

Restore factory settings : When there is not a response when the error occurred, you can restore the factory settings to resolve the device.

I rebooted the device: Rebooted the device.

Back: Return to monitor mode

3.4.1 Multi-Device Settings

- Add a local area network equipment

In the multi-device configuration page, you can see all the equipment inside the LAN. The first device is the default device. You can add more devices listed in the list of equipment. Embedded applications, up to 4 devices at the same time. Click “second road equipment” and double-click “Current list of devices in the LAN” in the device entry name, host address, Http port will automatically be filled. Requires the user to fill in the correct account name and password, click “Add.” Repeat this process to continue to add devices. Finally do not forget to click on the “Settings” button.

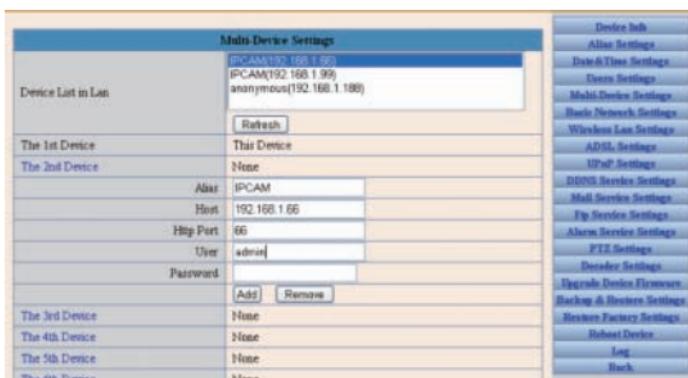


Figure3.9

- Add a device on the internet

First, make sure you want to add devices to access via IP address or domain name. For example: <http://202.96.133.134:9008> or <http://IPcam.dyndns.org:9008>. Then fill in the host address: 202.96.133.134 HttpPort: 9008 or host address: IPcam.dyndns.org Http port: 9008. Fill in the above correct account name and password and click “Add.” Repeat the above steps to add other devices.



Figure3.10

3.4.2 Basic Network Settings

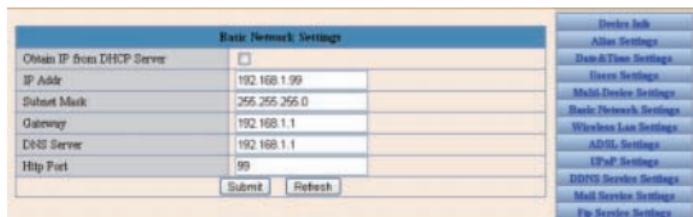


Figure3.11

This portion is for DHCP and IP configuration. Port forwarding is needed, If you choose to set IP address, port forwarding is needed. Please fill in the relative IP address subnet mask, gateway, DNS serve, and Http port.

3.4.3 Wireless Setting

First make sure that your wireless router is working. Then click the  button. After you click twice the camera will find the Wireless LAN automatically. Then select the Wireless LAN you wanted and input the wireless password and submit.

Wireless Lan Settings

Wireless Network List	Scan
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	admin
Network Type	Infra
Encryption	WEP
Authentication	Open System
Key Format	Hexadecimal Number
Default TK Key	↑
Key 1	64 bits
Key 2	64 bits
Key 3	64 bits
Key 4	64 bits

Submit Refresh

Device Info
Alias Settings
Date & Time Settings
Users Settings
Multi Device Settings
Basic Network Settings
Wireless Lan Settings
ADSL Settings
UPnP Settings
DDNS Service Settings
Mail Service Settings
Ftp Service Settings
Alarm Service Settings
PTZ Settings
Decoder Settings
Upgrade Device Firmware
Backup & Restore Settings
Restore Factory Settings
Reset Device
Log
Back

Figure3.12

3.4.4 ADSL Setting

When your device is directly connected to the internet via a ADSL you need to enter your service providers ISP to obtain the account name and password. Next click “settings” button and device should be able to connect to the internet.

ADSL Settings

Using ADSL	
ADSL User	
ADSL Password	

Submit Refresh

Device Info
Alias Settings
Date & Time Settings
Users Settings
Multi Device Settings
Basic Network Settings
Wireless Lan Settings
ADSL Settings
UPnP Settings
DDNS Service Settings

Figure3.13

3.4.5 Dynamic DNS Setting(DDNS)

DDNS Service Settings

DDNS Service	BBSafe.com/dyndns
DDNS User	xhall
DDNS Password	*****
DDNS Host	/ddns/upgengxin.asp
DDNS or Proxy Server	www.BBSafe.com
DDNS or Proxy Port	8089
Re-Update Ignoring All Errors	<input type="checkbox"/> never do this unless your hostname has been unblocked proxy config is needed if the device is in China Mainland or HongKong

Submit Refresh

Device Info
Alias Settings
Date & Time Settings
Users Settings
Multi Device Settings
Basic Network Settings
Wireless Lan Settings
ADSL Settings
UPnP Settings
DDNS Service Settings
Mail Service Settings
Ftp Service Settings
Alarm Service Settings
PTZ Settings

Figure3.14

All the above information is set up when the device is ready to deliver; users generally do not need to change. In case of any accidental loss, user needs to re-obtain the domain name and fill it manually like above. The users name is just

the first four characters for remote access. For example, <http://abcd.viipcam.com> the user's name is abcd. The password is DDNS. (The password can be obtained on the device body or contact the supplier). When connected, it displays "xxxxx is OK" on Device Info; it means that it was successfully set. If you need to use your own Dynamic DNS, please select the appropriate service providers (on DDNS service) then enter the following information and save.

3.4.6 E-mail and FTP service Settings

Mail Service Settings		
Sender		
Receiver 1		
Receiver 2		
Receiver 3		
Receiver 4		
SMTP Server		
SMTP Port	25	
Need Authentication	<input type="checkbox"/>	
Report Internet IP by Mail	<input type="checkbox"/>	
<input type="button" value="Test"/> Please set at first, and then test. <input type="button" value="Submit"/> <input type="button" value="Refresh"/>		

[Alias Settings](#)
[Date & Time Settings](#)
[User Settings](#)
[Multi-Device Settings](#)
[Basic Network Settings](#)
[Wireless Lan Settings](#)
[ADSL Settings](#)
[UPnP Settings](#)
[DDNS Service Settings](#)
[Mail Service Settings](#)
[Ftp Service Settings](#)
[Alarm Service Settings](#)
[PTZ Settings](#)
[Decoder Settings](#)
[Upgrade Device Firmware](#)
[Backup & Restore Settings](#)

Figure3.15

The above setting is a preparation for the alarm function. The sender should enter the senders email address, recipient 1, 2, 3, 4 is filled with recipients email addresses: SMTP server should be filled with the sender email SMTP server, e.g. the sender email address is abc@163.com, Enter mail.163.com. Generally SMTP port is 25, and should be unchanged; Enter SMTP user and SMTP password which are both provided by email provider. Test according to reference; when it is triggered and needs to send email notification please click Email notification Internet IP address; The e-mail server and other information can be obtained from the mail service provider and the email notification will include the image captured when triggering the automatic email notification. If you do not want automatic email notifications, do not enter this information.

Set up FTP service, you can fill in parameters like the example below;

Ftp Service Settings		
FTP Server		
FTP Port	21	
FTP User		
FTP Password		
FTP Upload Folder		
FTP Mode	PORT	
Upload Image Now	<input type="checkbox"/>	
<input type="button" value="Test"/> Please set at first, and then test. <input type="button" value="Submit"/> <input type="button" value="Refresh"/>		

[Alias Settings](#)
[Date & Time Settings](#)
[User Settings](#)
[Multi-Device Settings](#)
[Basic Network Settings](#)
[Wireless Lan Settings](#)
[ADSL Settings](#)
[UPnP Settings](#)
[DDNS Service Settings](#)
[Mail Service Settings](#)
[Ftp Service Settings](#)
[Alarm Service Settings](#)

Figure3.16

The above setting is similar to Mail Server Settings, when alarming is triggered it also sends image. Please enter FTP server, FTP port, FTP user, FTP password, FTP upload directory, FTP mode, FTP mode has two options: PORT and POSV. If it needs a quick image upload please select it and then select upload image interval (second).

3.4.7 Alarm Service Settings

As shown below, there are two modes of alarm trigger. The first one is motion detection. Please refer to the interface below. The sensitivity of motion detection can be adjusted according to the users requirements. The higher the number is, the lower sensitivity is. Another mode is input alarm, when connected, it triggers alarm through alarm input signal which connects to link the alarm GPIO. When triggered, there are 3 alarm modes: One is IO alarm linkage, camera connects with linkage alarm box through GPIO, sound the siren; the second is email notification, send email with images captured; the last is upload pictures alarm, as mentioned before-FTP picture uploads interval (second). Keep consistent with the mentioned upload pictures interval of FTP service settings. The schedule refers to alarm timing. As the selected time interval: 0: 00 minute per week to 0: 45 minutes and Monday 1: 00 hour and 2: 00 hour

Alarm Service Settings	
Motion Detect Armed	<input checked="" type="checkbox"/>
Motion Detect Sensibility	2 <input type="button" value=""/>
Alarm Input Armed	<input checked="" type="checkbox"/>
Trigger Level	High <input type="button" value=""/>
IO Linkage on Alarm	<input checked="" type="checkbox"/>
Output Level	Low <input type="button" value=""/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image on Alarm	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	0 <input type="button" value=""/>
Schedule	<input checked="" type="checkbox"/>
Day	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Mon	<input type="checkbox"/>
Tue	<input type="checkbox"/>
Wed	<input type="checkbox"/>
Thu	<input type="checkbox"/>
Fri	<input type="checkbox"/>
Sat	<input type="checkbox"/>
Sun	<input type="checkbox"/>
<input type="button" value="Submit"/>	<input type="button" value="Refresh"/>

[Motion Detect](#)
[Alarm Settings](#)
[Date&Time Settings](#)
[Users Settings](#)
[Multi Device Settings](#)
[Basic Network Settings](#)
[Wireless Lan Settings](#)
[ADSL Settings](#)
[UPnP Settings](#)
[DDNS Service Settings](#)
[Mail Service Settings](#)
[Ftp Service Settings](#)
[Alarm Service Settings](#)
[PTZ Settings](#)
[Decoder Settings](#)
[Upgrade Device Firmware](#)
[Backing & Restore Settings](#)
[Restore Factory Settings](#)
[Reboot Device](#)
[Log](#)
[Back](#)

Figure3.17

3.4.8 Reset/Firm Ware Upgrade

This section is for camera firmware upgrades and it includes device system firmware [Upgrade Device Firmware](#) and device application firmware

[Upgrade Device Embedded Web UI](#). Be cautious when upgrading as it could trigger problems with settings of device.

Upgrade Device Firmware			
Upgrade Device Firmware	<input type="button" value="Browse..."/>	<input type="button" value="Submit"/>	<input type="button" value=""/>
Upgrade Device Embedded Web UI	<input type="button" value="Browse..."/>	<input type="button" value="Submit"/>	<input type="button" value=""/>

Figure3.18

3.4.9 Restore Factory Settings

If a user forgets his or her password, click "restore ex-factory settings". A pop-up will appear and click ok. Wait 1 minute and you can use again like normal.



3.4.10 Reboot Equipment

Click ok:

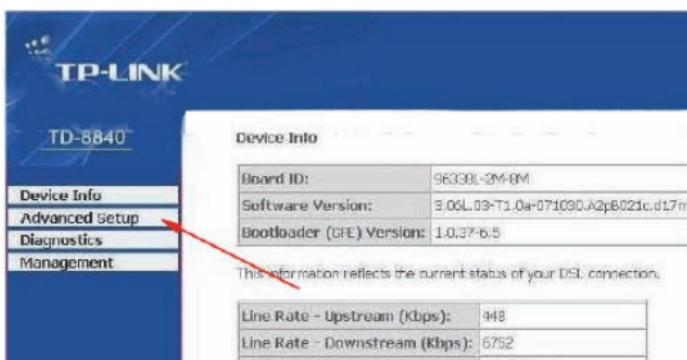


4. Others

4.1 Port Forwarding Settings in router

When remotely accessing via the internet--port forwarding in router is a must. Different brands routes have different names, but the operation is the same. Take the TP-LINK TD-8840 router port mapping setting as example. To set up IPCamera: route inner web IP 192.168.1.1, IP camera inner webaddress is 192.168.1.50, and port is 80.

1. First log in router web administration interface.
2. Click in front of left side "Advanced Setup



3. Click "virtual server" in the unfolded menu.



4. fill "80" under the right port start or port end, Server IP address fill "192.168.1.50", protocol select "TCP/UDP" OR "TCP", finally don't forget to click save/apply.

1. DLINK ex-factory definition router address is 192.168.0.1
2. Linksys ex-factory definition router address is 192.168.1.1
3. 3com ex-factory definition router address is 192.168.2.1
4. Microsoft ex-factory definition router address is 192.168.2.1
5. Net gear ex-factory definition router address is 192.168.1.1
6. Asus ex-factory definition router address is 192.168.1.1

4.2 Warranty

If product has been used under normal conditions, and a product failure occurs, the warranty will cover with no free. Warranty terms as follows:

- a) Charge-free maintenance if within one year of purchase. We can repair it for free during the guaranteed period. (damage must not have been caused by misuse, vandalism, or any other type of external factor not conducive to product itself) Repairs over this period will be free of charge.
- b) During guarantee period, breakdown caused by misuse or other reasons out of range of warranty. You could ask repair depending on the product. We only charge for components and not for the maintenance.
- c) When the product needs maintenance, hand up the card with products to the manufacturer or local distributor.

d) If the item has been taken apart and the selling label torn up, warranty is void.

e) We do not accept the damaged item due to modification or add other functions.

The Following Circumstances will not be free warranty

- a) Period check, maintenance or change components due to normal attrition.
- b) The damages due to crash, extrusion, artificial flooding, moisture or other personal reasons.
- c) The damages due to floods, fire, lightning strike and other natural

calamities or physical damage.

d) Repaired item by non-authorized repair centers.

All above terms, if changed, regarded to relevant regulations.

FCC STATEMENT

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

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body



Your Security, Our Priority.