

Wireless/Wired Network Camera

Night Vision & Remote Operation

User Manual

Thank you for buying our IP camera.

This Series Products are designed and equipped for network video surveillance system, including wired IP bullet camera, wireless IP bullet camera, IP IR dome camera, IP IR waterproof camera etc. We adopt high performance chip to ensure high quality media processor which processes audio and video collection, compression and transmission. Standard MJPEG compression format ensures clear and streaming video performance. It enables users to view via IE browser, centre management software client software;

AJ series products are applicable for big, medium-sized and small enterprises, chain store, factory, home and all kinds of spots where remote network video transmission and control supposed to be installed, They are easy to install and operate. Before the installation of the IP camera, please check if your product accessories in the package are complete

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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General Introduction

IP Camera is a new generation product with the combination of analog camera & IP video technology. Despite all functions which analog cameras have, IP camera can compress and encrypt video and audio signal then send it to remote terminals through internet with its built-in processor and web server. With its IP address, users can use standard PC IE browser to visit IP camera, real time monitor targets, manage and store video or image, PTZ control also is available through network.

As a new member in camera family, IP camera shares the same operation function with the analog camera, such as, auto white balance, auto shutter speed, AGC, auto backlight compensation etc. On the other hand, IP camera supports remote access through internet, and support multi-user visit, some IP cameras are able to extend to both analog and digital signal.

The core of AJ series IP cameras is 32Bit RSIC, adopts standard MJPEG compression format, camera sensor is CMOS, support auto white balance and backlight balance, support IE, cell phone browser , centralized monitor interface management. In general, according to the function of audio simplex & duplex, infrared, wired, wireless, POE, PZT, local storage, it has hundreds of products, to meet requirements of high, middle, low ranks of users.

1.1. Product Specifications

- *- Adopt high Performance, strong function media processor 32Bit RSIC
- *- High sensor CMOS
- *-Adopt optimized MJPEG video compression algorithm, realize high-definition images transmission in narrow bandwidth;
- *-Maximum support 15 users viewing at the same time, no limit for users if using Forwarder Server function;
- *- Built in Web Server , it is convenient for users to use standard browse to realize the real time monitoring and setting administration;
- *-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 talkback;
- *-Support Motion Detection alarm function (set area & sensitivity);
- *-Support image snap
- *-Abnormal automatic recovery function , if Network Interruption can auto connection
- *-Dynamic alarm function, set alarm period.

1.2. Applications

The series products usually are ideal for big department, supermarket, home, factory, workshop etc.



1.3. System Requirements

Minimum Hardware Configuration

CPU: Pentium 1.6 GHz

IPCAM User Manual

Memory: 256MB

Audio card: need audio monitor, two way talkback essential

Hard Disk : if it need video image , no less favorable than 40G

Operation System: 32 bit simple/ English Windows2000、 WindowsXP、 Windows2003、 Windows Vista & 64 bit simple Chinese/English Windows2003、 Windows XP、 Windows Vista etc.

Software environment

IE 5.0 or above version

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, the other is the extend line interface, set two representative products as examples, to give explanation:

*Non-extended line IP Camera icon



*Extended line IP Camera icon



2.1. Interface

*Non-extended line IP Camera Tailgate



Power Supply Light: constant on after power up

Network light: constant sparkle 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.

Reset line: two reset line short circuit, equipments restore to ex- factory standards.

Ethernet interface: RJ-45 network interface.

2.2. Installation

IP camera process image transmission on network through the use of Internet Technology, it offers DDNS function for static IP, dynamic IP, PPPoE dialing users. IP Camera can connect to outer net through LAN, also connect directly.3 networking connecting ways are widely applied in IP Camera:

2.2.1. Installation in LAN.

This is the most popular network access way, as long as there is a router, internet cable connect router directly to IP Camera, IP Camera can connect to Internet as normal PC, as shows:

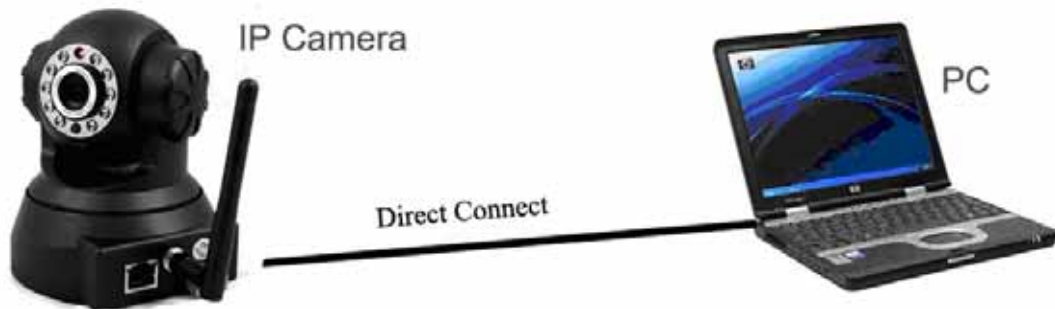


2.2.2. PPPoE Installation

Under the condition, users need set PPPoE dialing parameter on IP Camera: input the username and password ISP supplier' offer permit IP Camera dialing connects to Internet. As to set the PPPoE dialing parameter, you can connect device to network through the first way, then write parameter to the device, also through following third way, direct process parameter written to device. The way how to set PPPoE, please refer to 3.4.5.for detailed steps

2.2.3. IP Camera & PC connection

This method is not used too often, when you process machine write parameter or program shift, we recommend you adopt the first connect network way, to process the modification of machine parameter.



connect to IP camera (note: don't apply for wrong power), after one minute modification of IP camera, video could be connected by internet cable to IP camera; under the normal condition, yellow light is on, green light flickers, now physical connection of IP camera finish at this time (in order to connect successfully, we advise to set camera IP as the stable IP at the same net range of PC in LAN , how to set, please refer to 8 frequent questions answer).

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 and run the CD (Attached with the IP camera), then appear the following information:



Figure 3.1

Double click  Search Tool icon (the IP Finder software), Then appear the following interface:

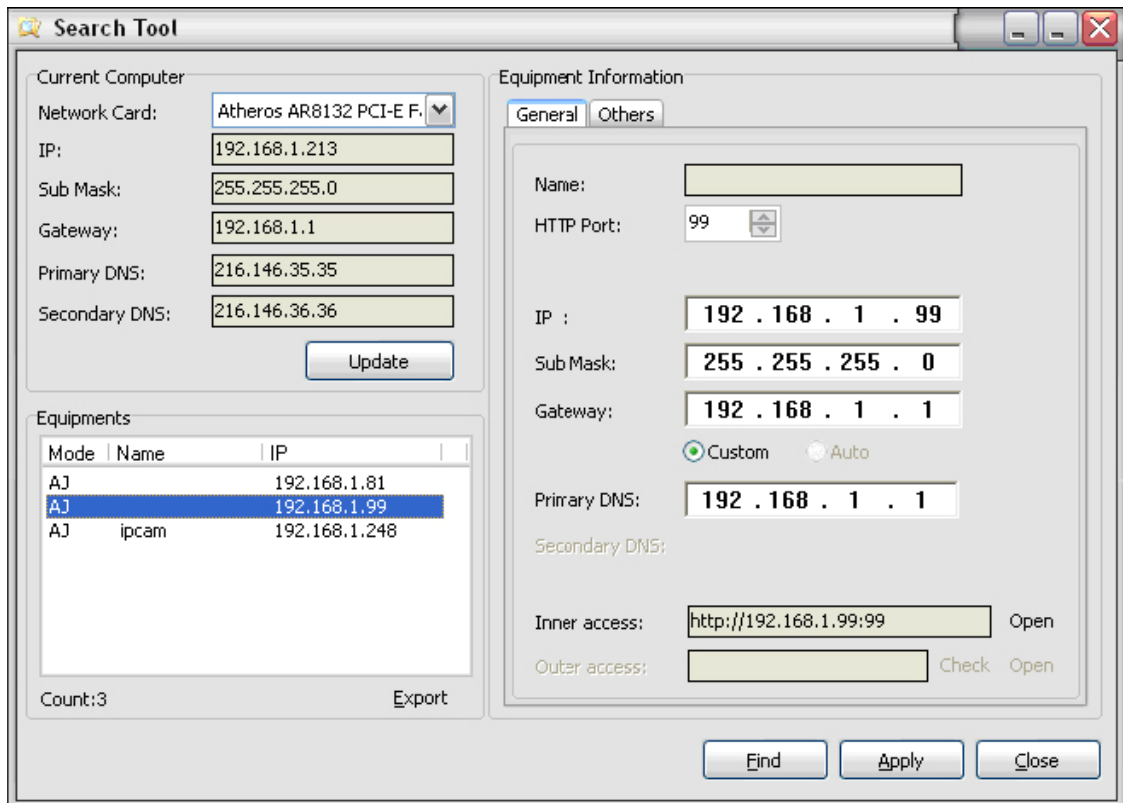



Figure 3.2


If network cable and power supply are correctly connected, device type, name and IP address will be shown in the Equipments list (Otherwise, please confirm whether power supply and network cable work normally).

In the interface above, the configuration information of the current computer is listed on the left side; and the network configuration information of the selected device is listed on the right side. Default IP address of the IP camera is 192.168.1.99, and HTTP port is 99.

Note: The IP address and the HTTP Port of the IP camera can be changed to as your wanted..

Inner Access refers to the LAN access address; **Outer Access** refers the WAN access address.

	<p>Tips: Port forwarding setting is necessary for outer access, please refer to 'Port forwarding Settings 'in 4.1 section.</p>
---	---

	<p>Note :</p> <ol style="list-style-type: none"> 1. Device information indicates the IP camera information. 2. When the current computer has a fixed IP, (namely non-DHCP IP), and the IP camera is used for the first time, please click Update, so that IP address of the IP camera, gateway and DNS can be synchronous with the PC. 3. If it is necessary to manually modify the contents including camera name, HTTP port, IP address, sub mask, gateway, primary DNS server, secondary DNS server and so on, please click apply after modification, and then click OK after entering username and password of the IP camera in the pop-up dialog box for access validation.
---	---

3.2. Logging and Active X installation

1. Open the Web page. You can open it directly by first clicking the **Inner Access** or **Outer Access** on **Finder** and then clicking **Open**; and you can also directly input the corresponding address of the inner and outer access into the address bar of the web page, as the address shown in the picture above <http://192.168.1.126:81> (LAN); and <http://aodn.ipcam.hk> (WAN)
2. If the IP camera has been connected with the outer network when you are browsing it, the log-in interface as below will appear when you open the web page through LAN or outer work. :

Before IE monitoring through web, it is necessary to install the IP Camera player:



installation mode as below:



Open disk, find that icon. Double click the icon, process installation. Click the next step until finished.

There are two way to logging IP camera

1. Open it directly by first clicking the **Inner Access** or **Outer Access** on **Finder** and then clicking **Open**; and you can also directly input the corresponding address of the inner and outer access into the address bar of the web page, as the address shown in the picture above <http://192.168.1.99:99> (LAN); and <http://demo.88safe.com:99> (WAN) (Figure 3.2)

2. If the IP camera has been connected with the outer network when you are browsing it, the log-in interface as below will appear when you open the web page through LAN or outer work.



Figure3.3

When the item connects to outer networking, a log-in interface will appear. For example:
Figure3.4

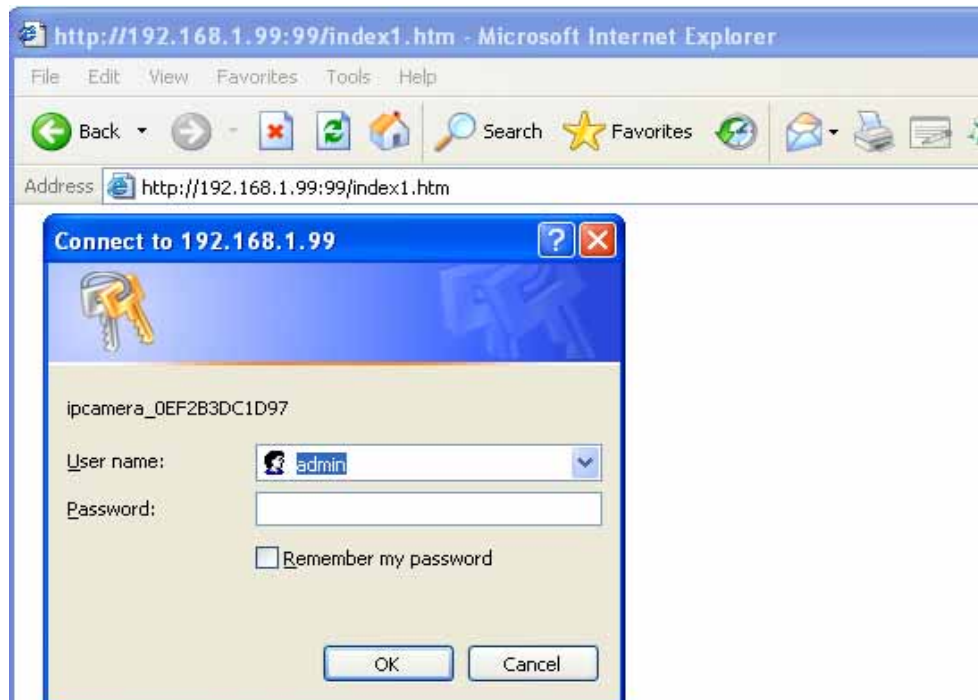


Figure3.4

enter log in information, click OK to enter, an installation pop-up will appear: e.g.
Figure3.4



Figure3.5

Select the needed language, and the way you want to visit. Click Sign in. after installation Active X you can use it. If it is blocked and requires plug-in installation by antivirus software, please remove block.

Note :

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

3.3. Main Operation Interface

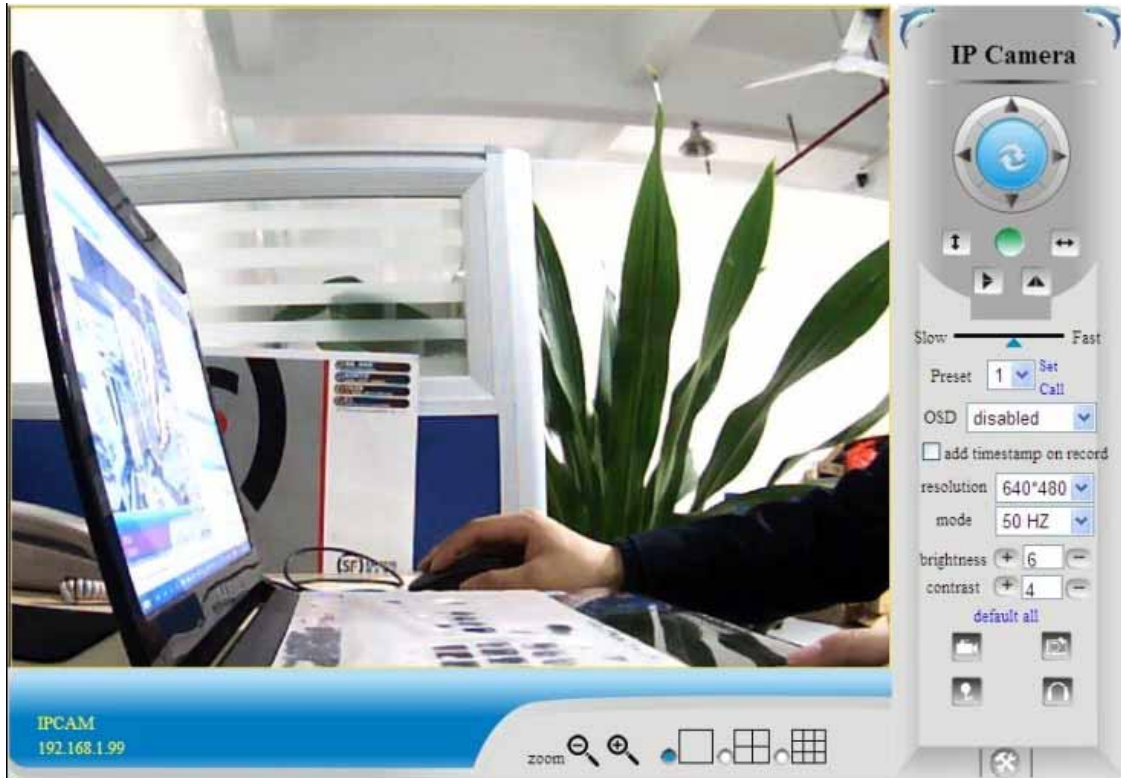





Figure3.6



For example: If the  is a bright , indicating the device is the first way 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 can be the lens to the appropriate direction of rotation



 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 light is poor or in dark.
3. There are 3 browse modes in IE mode: visitor, operator, administrator, the authority of administrator is the highest, log in different authorities, the operation will be different. Regarding to 3 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  interception photo.

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

3.4. Manager Operation

When you 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 firmware version of the.

Alias setting : You can set your favorite device aliases.

Date&Time set : setting the date and time.

User settings : Can be set up to 8 users. On this page you can set up accounts of the user name, 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 parameter.
- **Administrator :** You can set the device advanced configuration.

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

Device Firmware Upgrade: The system firmware update the device firmware and application of

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 : I 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-line. Click the “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, require the user to fill in the correct account name and

password, click “Add.” Repeat this process you can continue to add devices. Finally do not forget to click on the “Settings” button.

The screenshot displays the 'Multi-Device Settings' window. On the left, a table lists devices: 'The 1st Device' (This Device), 'The 2nd Device' (None), 'The 3rd Device' (None), 'The 4th Device' (None), 'The 5th Device' (None), and 'The 6th Device' (None). The 'This Device' row is expanded to show configuration fields: Alias (IPCAM), Host (192.168.1.66), Http Port (66), User (admin), and Password (empty). Below these fields are 'Add' and 'Remove' buttons. Above the fields is a 'Device List in Lan' section with a list box containing 'IPCAM(192.168.1.66)', 'IPCAM(192.168.1.99)', and 'anonymous(192.168.1.188)', along with a 'Refresh' button. On the right side of the window is a vertical menu with buttons for: Device Info, Alias Settings, Date&Time Settings, Users Settings, Multi Device Settings (highlighted), 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, Reboot Device, Log, and Back.

Figure3.7

- **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>. And then fill in host address: 202.96.133.134 **HttpPort**: 9008 or host address: IPcam.dyndns.org **Http port**: 9008. and fill in the correct account name and password to the last click on “Add.” Repeat the above steps can add other devices



Figure3.8

3.4.2 Basic Network Settings

Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
IP Addr	192.168.1.99
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server	192.168.1.1
Http Port	99
<input type="button" value="Submit"/> <input type="button" value="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](#)

Figure3.9

This sector is for DHCP and IP configuration , port forwarding is needed, If you choose to set IP address , please fill in the relative IP address、 subnet mask, gateway, DNS server, Http port;

3.4.3 Wireless Setting

First make sure that your wireless router is working well. Then click the

 button. After you click twice. The camera will find out the Wireless LAN automatically. Then select the Wireless LAN you wanted. Then the Wireless LAN's information will showing. Finally input the Wireless password and submit.

Wireless Lan Settings	
Wireless Network List	<div>admin[940c6d428774] infra WEP</div> <div>Scan</div>
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	admin
Network Type	Infra
Encryption	WEP
Authetication	Open System
Key Format	Hexadecimal Number
Default TX Key	1
Key 1	<input type="text"/> 64 bits
Key 2	<input type="text"/> 64 bits
Key 3	<input type="text"/> 64 bits
Key 4	<input type="text"/> 64 bits
<div>Submit</div> <div>Refresh</div>	

[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](#)
[Reboot Device](#)
[Log](#)
[Back](#)

Figure3.10

3.4.4 ADSL Setting

When your device directly connected to the Internet via ADSL, when you need to enter fill in your ISP service providers obtain from the account name and password. Duly completed and click "Settings" button. Your device can connect to the internet has.

ADSL Settings	
Using ADSL Dialup	<input checked="" type="checkbox"/>
ADSL User	<input type="text"/>
ADSL Password	<input type="text"/>
<div>Submit</div> <div>Refresh</div>	

[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](#)

Figure3.11

3.4.5 Dynamic DNS Setting(DDNS)

DDNS Service Settings	
DDNS Service	88safe.com(dyndns) ▼
DDNS User	xha8
DDNS Password	•••••
DDNS Host	/vipddns/upgengxin.asp
DDNS or Proxy Server	www.88safe.com
DDNS or Proxy Port	8009
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	
<input type="button" value="Submit"/> <input type="button" value="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](#)

Figure3.12

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 himself, juts do as the above, the user's name is just the first four characters, and this is 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, then save it;.

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"/>
	<input type="button" value="Test"/> Please set at first, and then test.
Report Internet IP by Mail	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="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](#)

Figure3.13

The above setting is a preparation for the alarm function, the sender should be entered the sender's email address , recipient 1、 2、 3、 4 is filled with recipient E-mail address ; SMTP server should be filled with the sender email SMTP server , e.g. the sender email address is abc@163.com , and enter mail.163.com. Generally SMTP port is 25 , do no need to change ; when needs to check, just tick it, and enter SMTP user and SMTP password , both of them are provided by Email provider , and test according to reference ; when needs to send, please tick Email notification Internet IP address ; The e-mail server and other information can be obtained from the mail service provider the email notification is image captured when alarming if no email notification is needed when alarming, and then no need to enter.

Set up FTP service, you can fill in parameters like following:

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

Figure3.14

The above setting is equally 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 needs a quick upload image, then select it, edit upload image interval (second)

3.4.7 Alarm Service Settings

As shown below, there are two modes of alarm trigger, first one is motion detection, pleas refer to below interface , the sensitivity of motion detection can be adjusted according to the users requirement, 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 linkage 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 the way mentioned before FTP upload pictures alarm, Upload pictures interval (second)

keeps consist nt with the mentioned upload pictures interval of Ftp service settings.
The schedule refers to arming time , 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
Alarm Input Armed	<input checked="" type="checkbox"/>
Triger Level	High
IO Linkage on Alarm	<input checked="" type="checkbox"/>
Output Level	Low
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image on Alarm	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	0
Scheduler	<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
Sun	
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	
<div>Submit Refresh</div>	

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

Reboot Device

Log

Back

Figure3.15

3.4.8 Reset/Firm Ware Upgrade

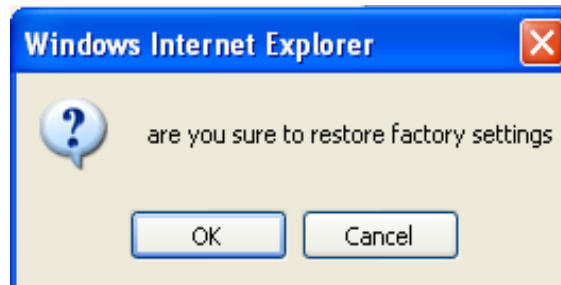
This sector is for camera firmware upgrade, it includes device system firmware Upgrade Device Firmware and device application firmware Upgrade Device Embedded Web UI. Be cautious to apply for it!

Upgrade Device Firmware			
Upgrade Device Firmware		Browse...	Submit
Upgrade Device Embedded Web UI		Browse...	Submit

Figure3.16

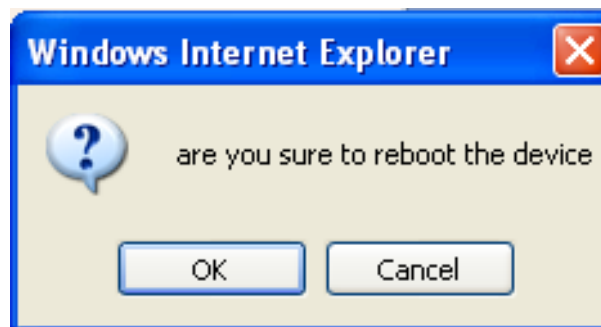
3.4.9 Restore Factory Settings

When users forget password, we can restore ex-factory settings, when click, a picture will pop up, Click ok, and wait for 1 minute and you can use it normally. User setting feature restores



3.4.10 Reboot Equipment

Click restart, it appears the above picture, click ok, wait for 1 minute and you can use it normally



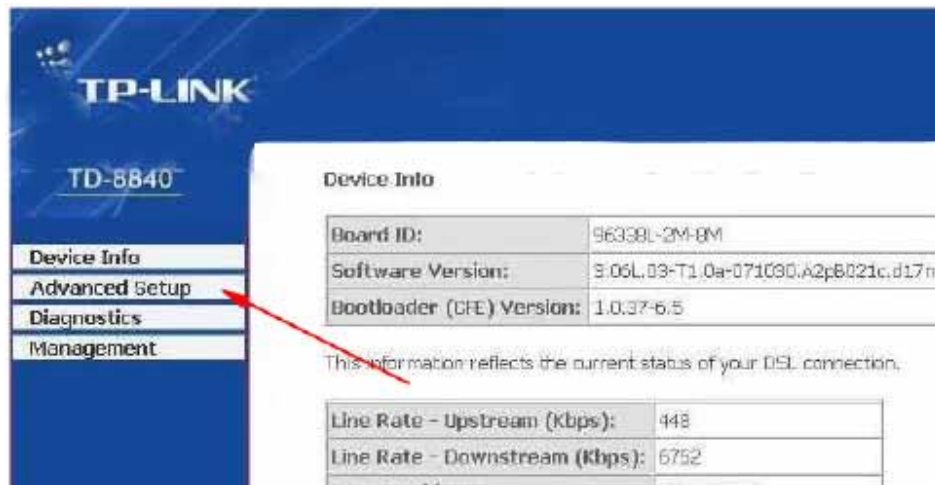
4. Others

4.1 Port Forwarding Settings in router

When a remote access via internet visit, port forwarding in router is a must, different brands routes have different name, but the operation is the same. Take the TP-LINK TD-8840 router port mapping setting as example. To set up IP Camera as an example: router inner web IP is 192.168.1.1, IP camera inner web

address 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 click under “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

Under normal use condition, products resulting from its own failures in the

warranty period will be free maintenance. Warranty Terms as following:

a) Charge-free maintenance of the product is one year. We can repair it for free during the guarantee period (Damages not caused by misuse or vandalism).

Repair over guarantee period, we will charge maintenance fee.

b) During guarantee period, breakdown caused by misuse or other reasons out of range of warranty. You could ask repair depend on the card. We only charge for changed components, the maintenance charge is free.

c) When the products need maintenance, hand up the card with products to the manufacture or local distributor.

d) Take apart item crust, tear up the sealing label privately, this is out of warranty range.

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 force majeure incidents factors

d) Repaired item by non-authorized repair centers.

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

THAT'S ALL, THANK YOU!