

TP-LINK®

User Guide

TL-SC3171G

Wireless Day/Night Surveillance Camera



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FCC STATEMENT



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.

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.

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

Note: The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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Package Contents

The follow items should be found in your package:

- TL-SC3171G Wireless Day/Night Surveillance Camera
- Power Adapter
- Mounting Bracket with three screws, a Lock Ring, a Brace and a Base Plate
- RJ45 Cable
- Quick Installation Guide
- Resource CD, including:
 - This User Guide
 - Application Guide
 - Other helpful information

 **Note:**

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact your distributor.

Chapter 1 Minimum System Requirements

We strongly recommend your computers follow our minimum requirements in order to use this IP-Camera normally. If your computer doesn't meet these requirements below, it might cause some problems.

Item	Requirements
CPU	Pentium 4 1600MHz (or equivalent AMD)
Graphic Card	64 MB RAM graphic cards(or equivalent on-board graphic cards)
RAM	512 MB
Operating System	Windows 98, Windows ME (Please see  Note) Windows2000, 2003, XP, Vista, Mac OS X Leopard, Linux
Web Browser	Windows OS: Internet Explorer, Safari, Firefox, Google Chrome, Opera, Maxthon
	MAC OS: Safari, Firefox
	Linux OS: Firefox

 **Note:**

- 1) If you are using Windows 98 or Windows ME, please install IP Installer before using WEB UI to ensure the system runs normally.
- 2) If you can't view the record video file, please install **Xvid codec** while installing Intelligent IP Installer. (For Windows 98, ME or 2000 server, the codec might not work properly. You'll need to download Xvid codec 1.0 from the Internet.)
- 3) Please always update the latest Windows component. (Net Framework, Windows Media Player, Enhance ActiveX Security)

Chapter 2 Physical Overview

2.1 Front View



Figure 2-1

Focus Adjustment Ring: Adjust the focus to get a clear image.

Built-in Microphone: Built-in microphone for two-way audio.

2.2 Bottom view

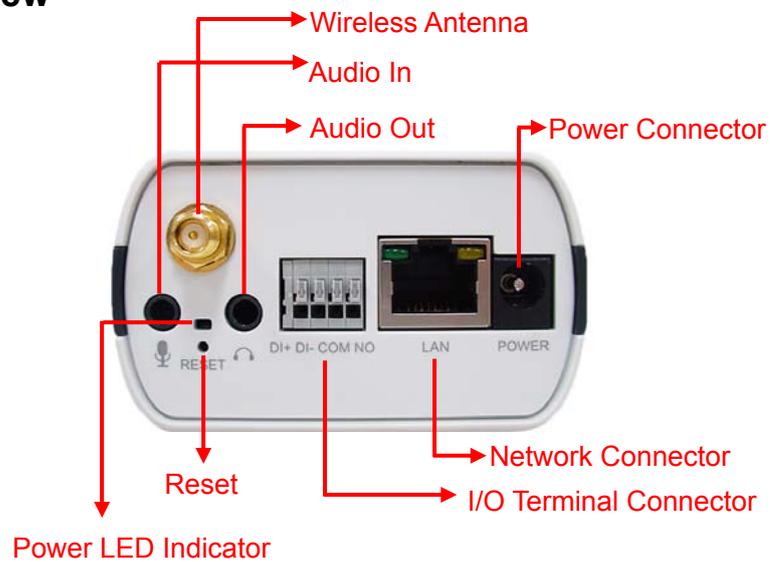


Figure 2-2

Wireless Antenna: For connection of IEEE 802.11b/g wireless network.

Audio In: To support audio in with Microphone for two way audio.

Audio Out: To support audio out with earphones or speakers for two way audio.

Power Connector: For connection of 12V DC input.

Power LED Indicator: Power LED will light up after completing the boot process.

Reset: To successfully restore the camera to factory defaults, please keep the device powered on,

then press and hold the **Reset** Button for at least 10 seconds. The CPU of the camera starts to work completely 1 minute after you release the **Reset** button.

I/O Terminal Connector: Input/Output to support External Alarm and Sensor used for motion detection, event triggering and alarm notification, etc.

Network Connector: For connection to the Ethernet via RJ45 standard.

Chapter 3 Using IP Camera via Web Browser

3.1 Obtain the IP Address

1. Insert the provided CD into your CD-ROM driver. The Setup Wizard will automatically pop up on your computer's screen as shown in the figure below.



Figure 3-1

2. Choose the **Intelligent IP Installer**, and then the next screen appears. Click on **Intelligent IP Installer** to begin the installation.



Figure 3-2

3. After the installation is finished, click **Start > Program Files > TP-LINK >Intelligent IP Installer** to start using the program.

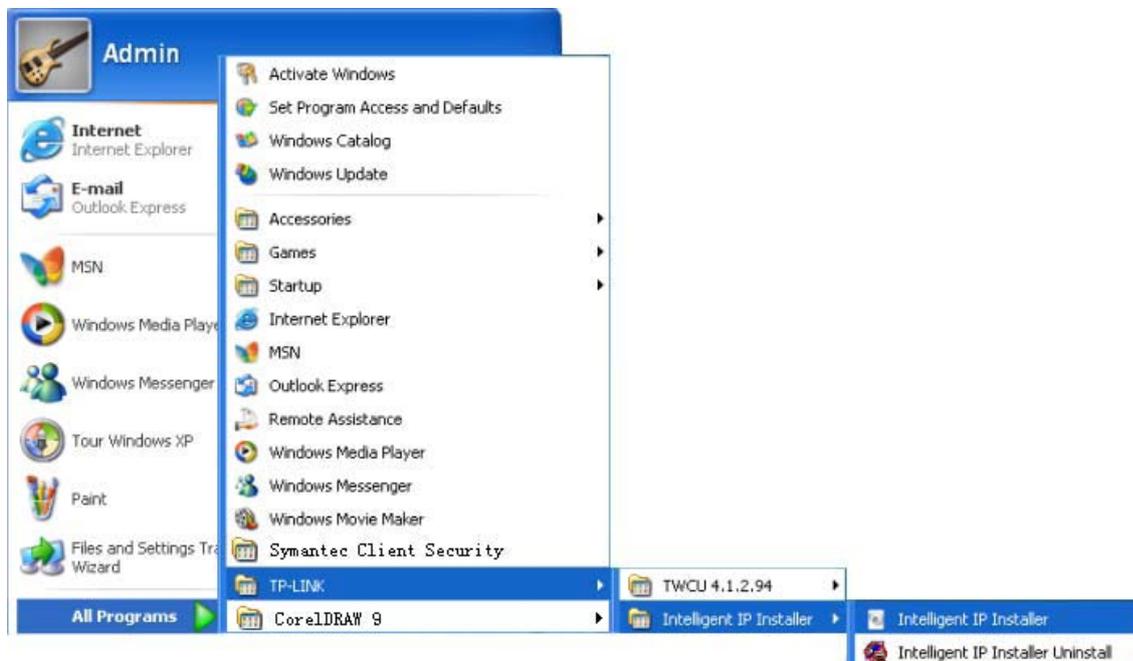


Figure 3-3

4. The following screen will then display. Click the **Search** button to search Network Cameras in the network; it displays Network Cameras information including IP Address.

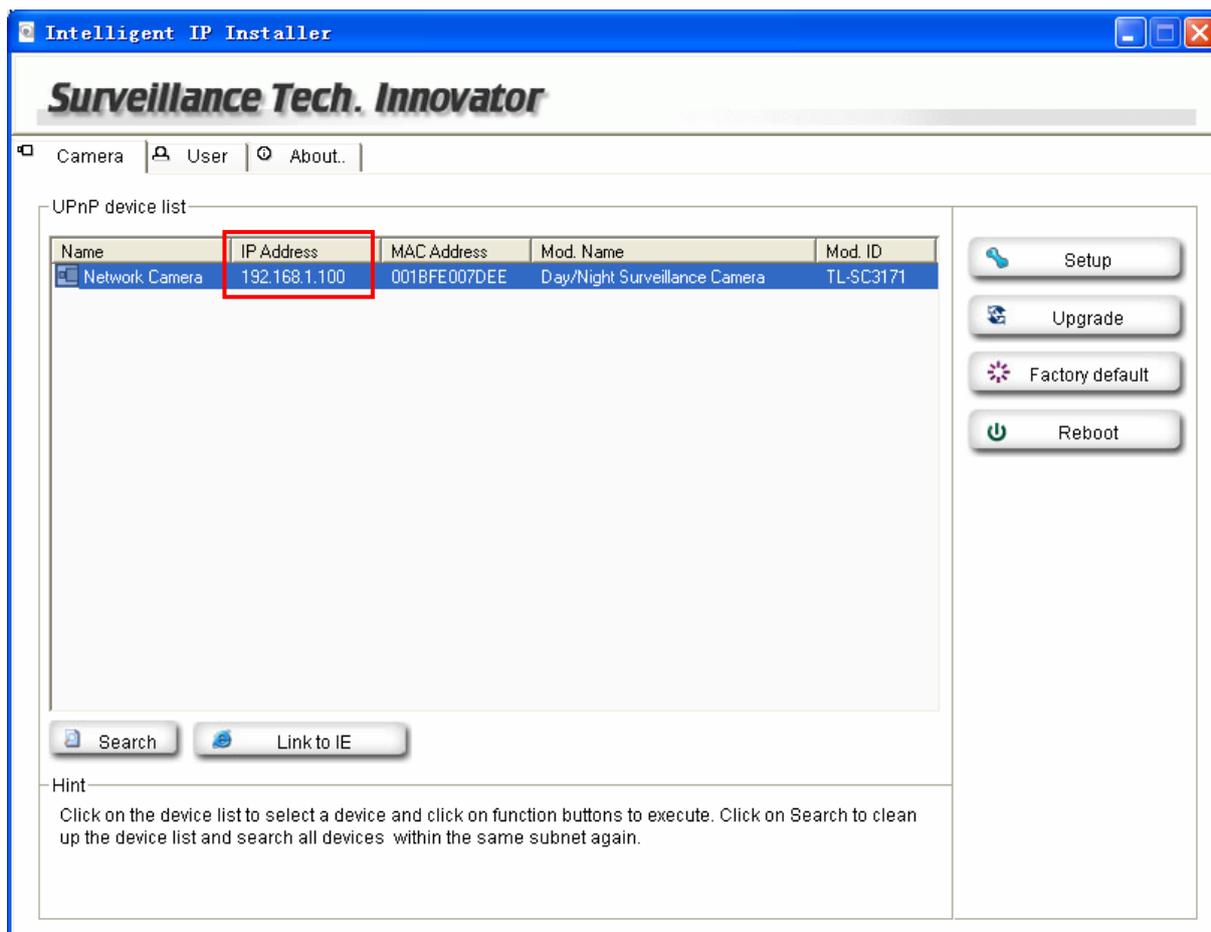
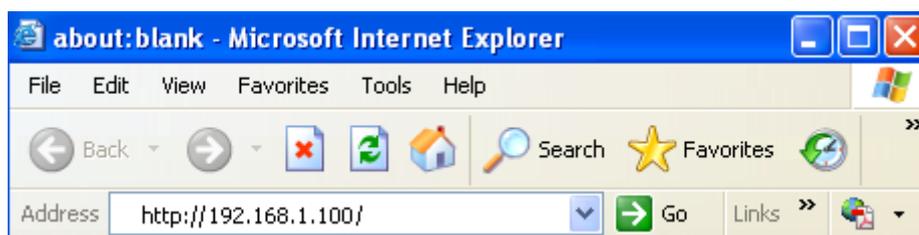


Figure 3-4

3.2 Windows Web Browser

1. Click **Link to IE** button in Figure 3-4 or launch your web browser, and enter the IP address (obtain from Figure 3-4) of the IP camera in the Location / Address field of your browser.



Note:

- 1) For the first time login with IE, you will need to enable “**Download signed ActiveX controls**”. Please go to **Tool→Internet Options...→Security→Custom Level...** and find **Download signed ActiveV controls** to prompt it. For detailed information, please refer to the Quick Installation Guide.
- 2) If you only want to view the video without setting page, enter “<http://<IP>/index2.htm>” as your web URL . For example, you can enter “<http://192.168.1.100/index2.htm>” as your web URL to view the video without setting page.
2. Enter the default User name “admin” and password “admin” in the login window as shown

below.

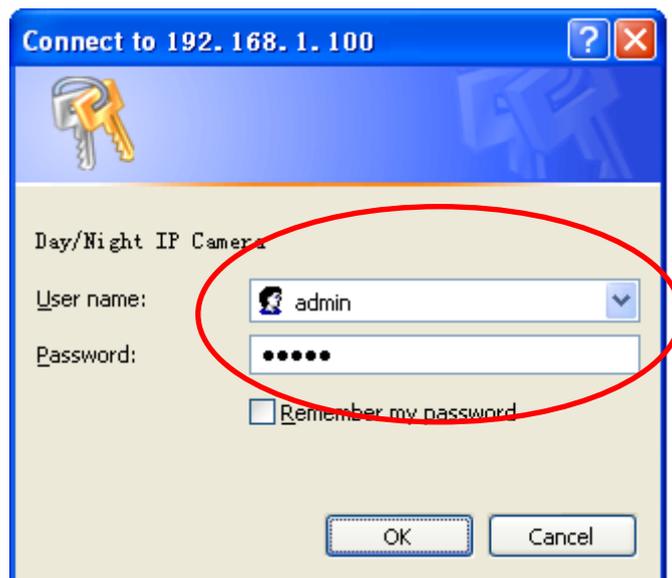


Figure 3-5

Note:

The default User name “admin” and Password “admin” are set at the factory for the administrator. You can change them in the Account Menu (Please check “**SETTING** → **BASIC** → **Security** → **Account**”).

3. The web-based management page will display on your screen. On the leftmost column of the web-based management page are **Setting**, **Client Setting**, and **Image Setup**. For more details, you can refer to [Section 5.2 Setting](#), [Section 5.3 Client Setting](#) and [Section 5.4 Image Setup](#).

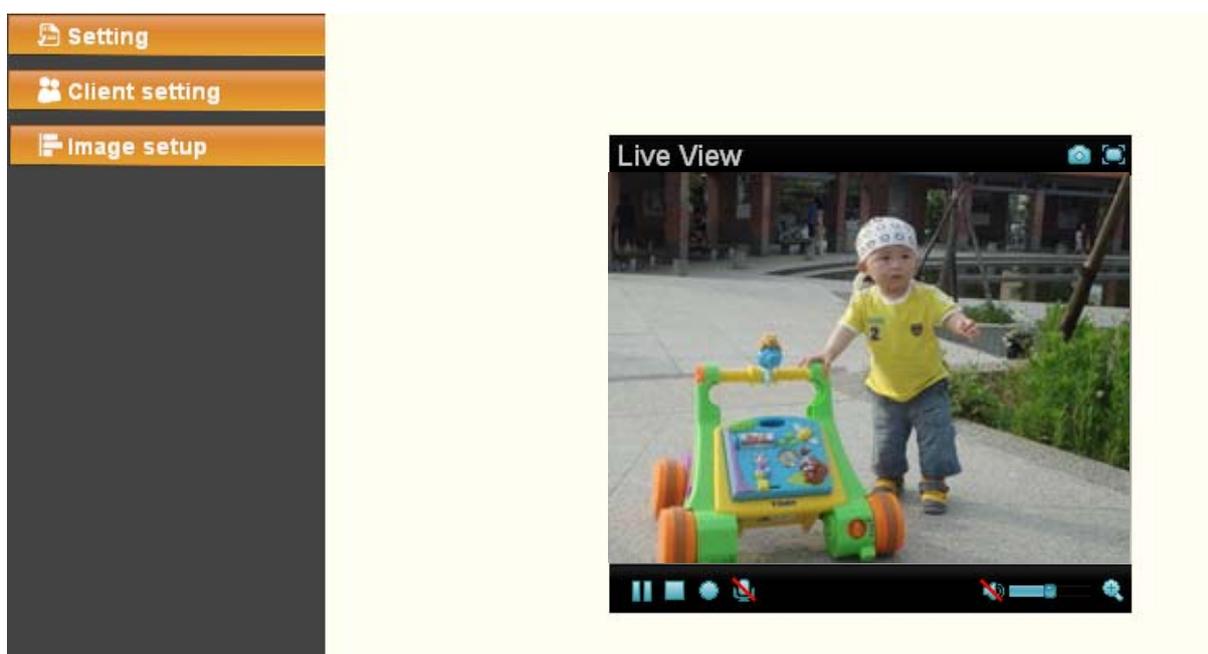


Figure 3-6

2. Enter the default User name “admin” and password “admin” in the dialog box as shown below.

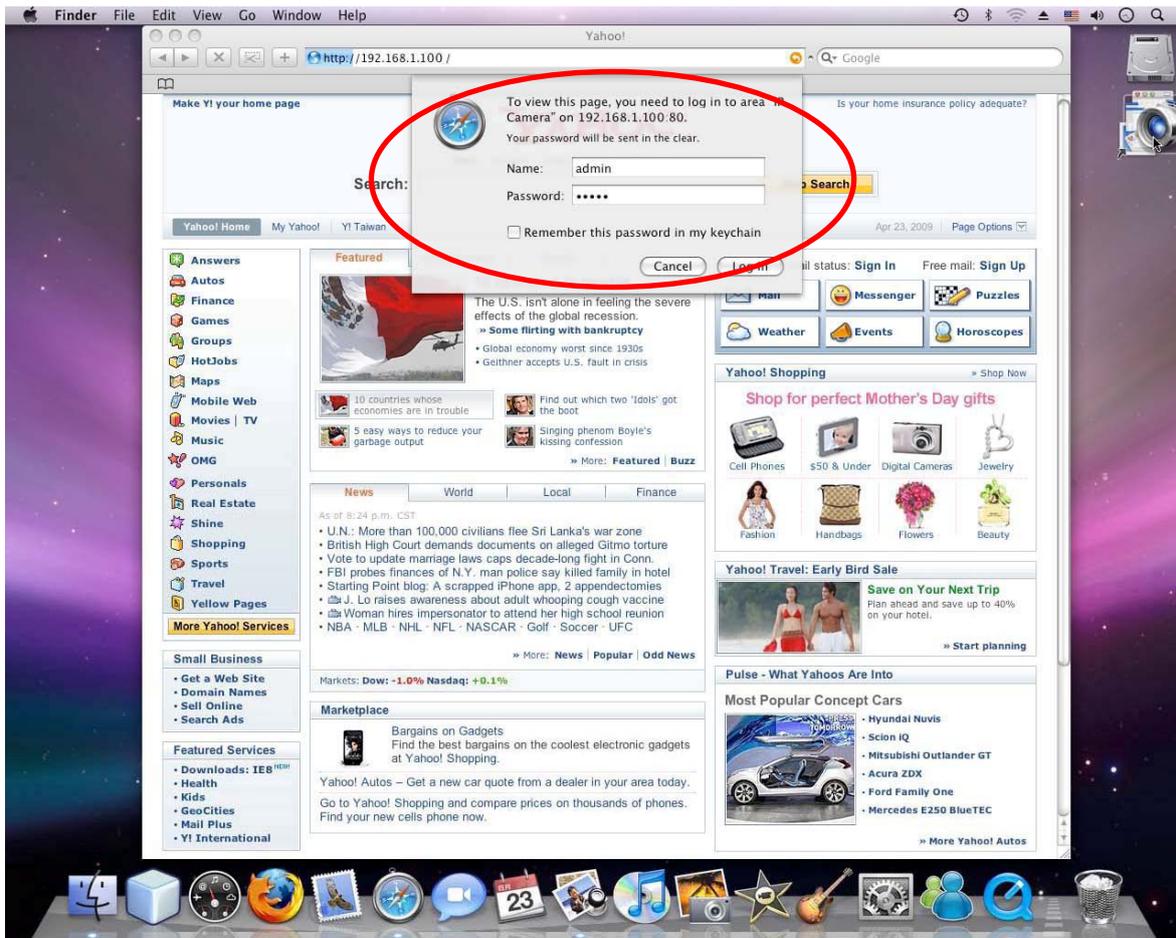


Figure 3-8

Note:

The default Name “admin” and Password “admin” are set at the factory for the administrator. You can change them in the Account Menu (Please check “**SETTING** → **BASIC** → **Security** → **Account**”).

3. The web-based management page will be display on your screen. In the leftmost column of the web-based management page are **Setting**, **Client Setting**, and **Image Setup**. For more details, you can refer to **Section 5.2**, **Section 5.3** and **Section 5.4**.



Figure 3-9

Chapter 4 Operating IP Camera via Mobile Phone

4.1 3G Streaming Mobile View Mode

4.1.1 3G Mobile Phone Streaming Viewing

For 3G mobile phone viewing, type “**rtsp://<IP>:<PORT>/video.3gp**” into your 3G Streaming Link. <IP> is the Public IP address of your IP camera; <PORT> is the RTSP port of your IP camera (Default value is 554.) Example: `rtsp://100.10.10.1:554/video.3gp`

 **Note:**

You can also use RTSP clients (RealPlayer, VLC, QuickTime Player...etc.) to view RTSP streaming, just type in “**rtsp://<IP>:<PORT>/video.3gp**” as the Player URL.

4.1.2 2.5G Mobile Phone WAP Viewing

For 2.5G mobile phone viewing, type “**http://<IP>/mobile.wml**” into your 2.5G WAP Browser. <IP> is the Public IP address of your IP camera.

4.1.3 2.5G Mobile Phone Browser Viewing

For 2.5G mobile phone viewing, type “**http://<IP>/mobile.htm**” into your 2.5G Web Browser. <IP> is the Public IP address of your IP camera.

4.2 Using IP Camera via iPhone

You can use TP-LINK Web User Interface via iPhone. Please follow the setting process below. Then you can use TP-LINK Web UI via iPhone.

1. Select Safari function



2. Enter IP address in your web link.



3. Enter name and password. Default values are both admin. Then click Log in



4. The TP-LINK User Interface and live image will show up in the middle of the screen.

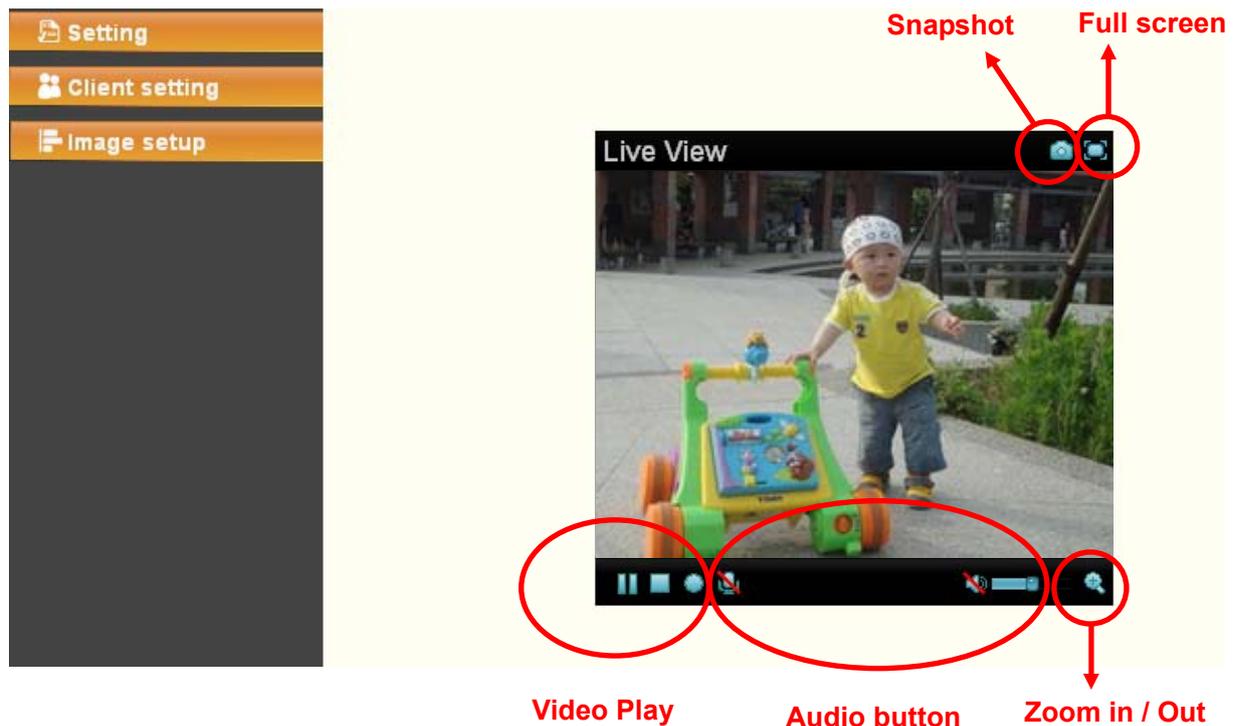


Note: It will show continuous snapshots not a real time video streaming. Therefore, the recording feature is disabled.

Chapter 5 Configuration of Main Menu

You would find that the illustrative web pages in this Manual are all orange. Please note that they're from our latest firmware, which can be downloaded from our website. Web pages in our previous firmware are blue.

On the leftmost column of the web-based management page are **Setting**, **Client Setting**, and **Image Setup**. For more details, you can refer to [Section 5.2 Setting](#), [Section 5.3 Client Setting](#), [Section 5.4 Image Setup](#).



On the right column of the web-based management page, you can use Live View. There are four different functions which are **Snapshot**, **Zoom**, **Audio** and **Video Play**. You can see more details as follows.

5.1 Live View

5.1.1 Snapshot

You can capture a still image shot by the camera and save it in your computer.

Symbols	Meaning
	click to display a snapshot window
Save Image	to save the picture in your computer
Close	to return to the view page
	full Screen

5.1.2 Zoom in/out the image via the monitor window



- Click  to display the digital zoom in window.
- Pull  to adjust the digital zoom range, and it will be showed on the above window.
- You can use the left click of your mouse to move the  to any where on the window to view the desired detail more clearly.

5.1.3 Video play buttons

Symbols	Meaning
	Pause the current video
	Play the video
	Stop the current video
	Record the current video

5.1.4 Audio buttons

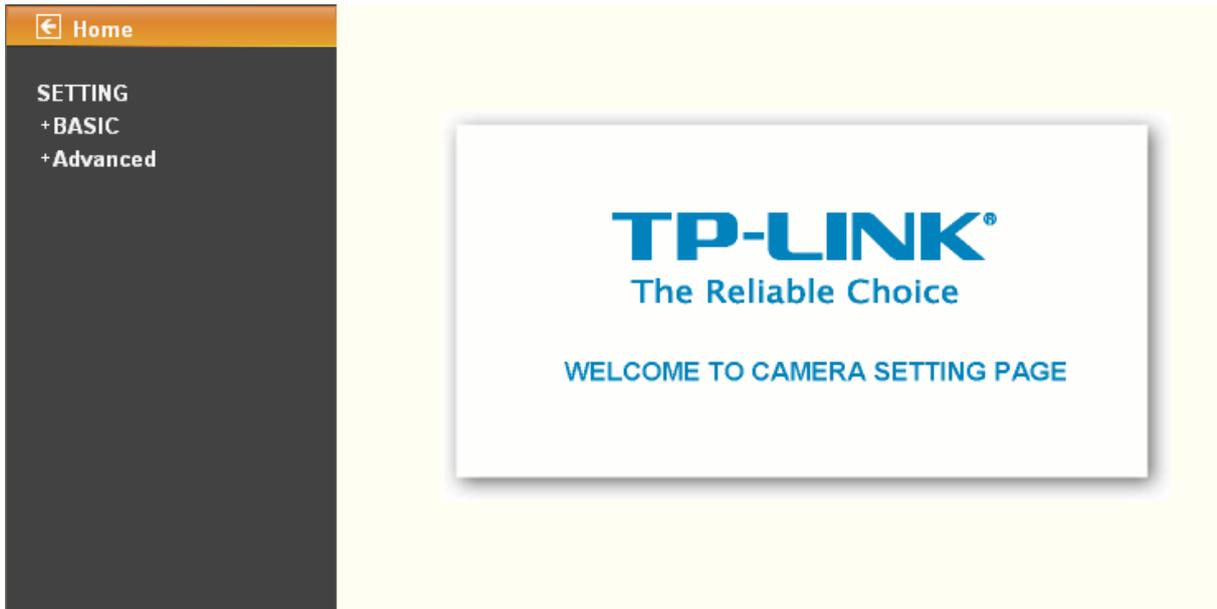
Symbols	Meaning	 Note
	Speakers turned on	mean the speakers of your computer are turned on to transmit the sounds from the connected IP camera(s)
	Speakers turned off	
	Microphone turned on	mean you can broadcast to the connected IP camera(s) via the Ethernet using your microphone

	Microphone turned off	
	Volume control bar	

5.2 Setting



This function is only for the Administrator. Click this button to get into the **Basic** and **Advance settings** menus.



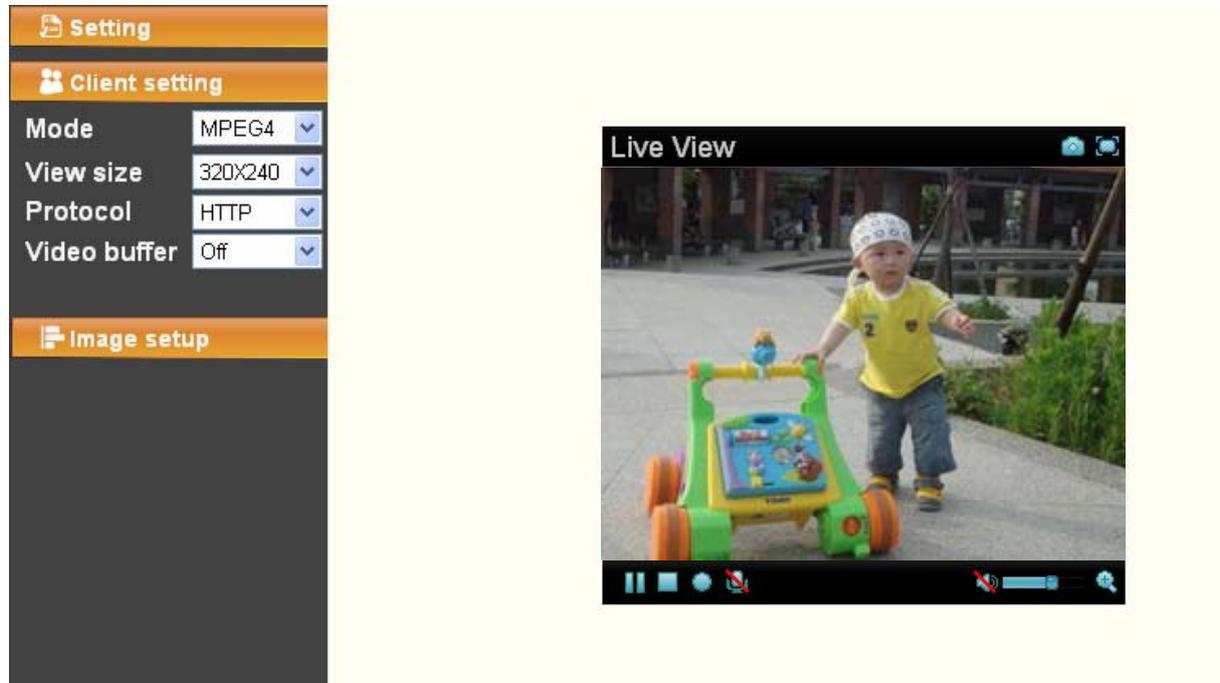
There are four sub-menus under the **BASIC** menu, which includes **System**, **Camera**, **Network**, and **Security**. For more information, you can refer to [Section 6.1 System](#), [Section 6.2 Camera](#), [Section 6.3 Network](#) and [Section 6.4 Security](#).

There are eight sub-menus under the **Advance** menu, which includes **FTP Client**, **SMTP**, **HTTP event**, **Alarm output**, **Schedule**, **Alarm input**, **Motion detection**, and **System Log**. For more information, you can refer to [Section 7.1](#), [Section 7.2](#), [Section 7.3](#), [Section 7.4](#), [Section 7.5](#), [Section 7.6](#), [Section 7.7](#) and [Section 7.8](#).

5.3 Client Setting



This function is only for the client.



Click this button to configure the settings of IP Camera, which includes **Mode**, **View size**, **Protocol**, and **Video buffer**.

5.3.1 Mode

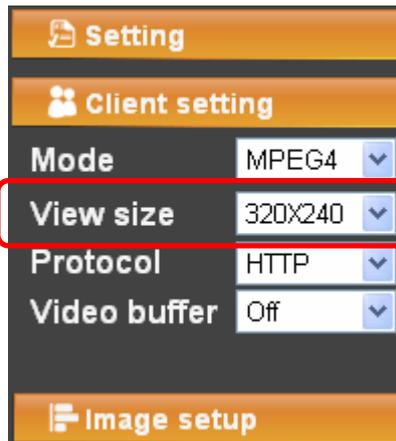
Click the drop-down list to choose **MPEG4**, **MJPEG** and **JPEG** video compression mode.

 **Note:**

MJPEG streaming is unavailable if **RTSP mode** is On (Please check **SETTING** → **BASIC** → **Camera** → **General**).

5.3.2 View Size

Select the desired display image resolution to 640*480 or 320*240. It is suggested that you go to Client Setting to select a suitable View Size before using the IP camera as shown in the figure below. **For the PC whose resolution is less than 1280*1024, View Size of 320*240 is recommended.**



5.3.3 Protocol

Select the transferring protocol from **TCP**, **UDP**, **HTTP** and **Multicast**.

Note:

This item appears only when **RSTP mode** is enabled (selecting **SETTING** → **BASIC** → **Camera** → **General**).

5.3.4 Video Buffer

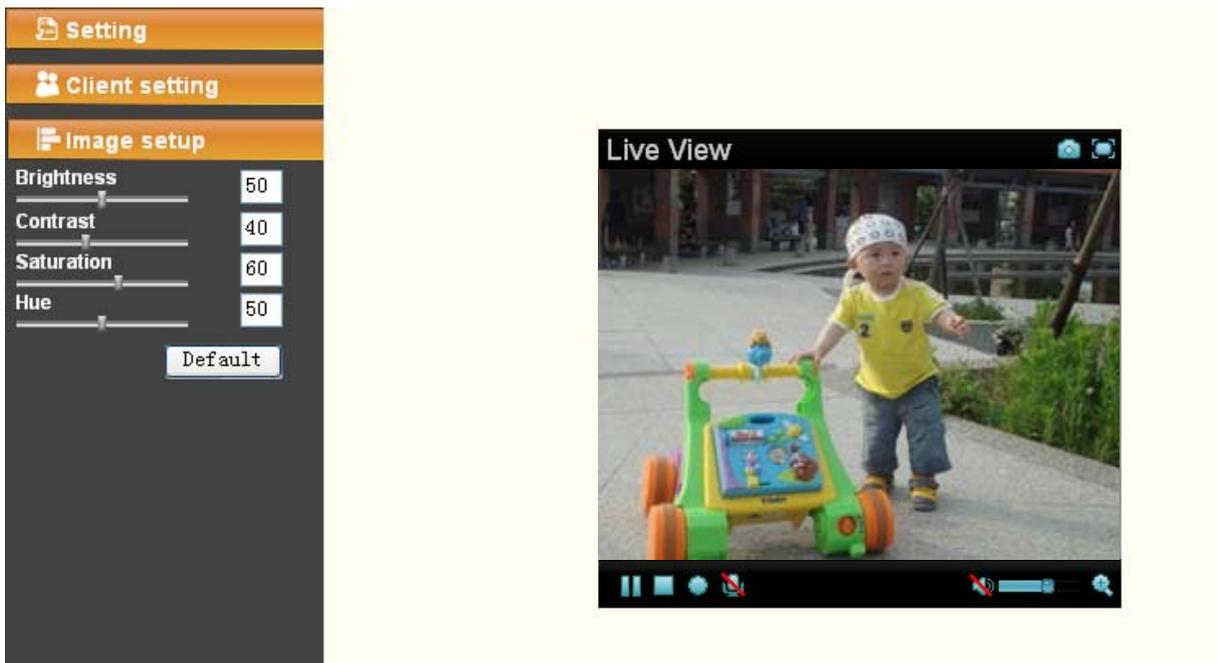
Turn the Video Buffer function ON / OFF. The Video Buffer function makes the streaming more smoothly in unsteady network environment, but might cause a little delay in live viewing.

5.4 Image Setup



You can use the tool bar to optimize video **Brightness**, **Contrast**, **Saturation** and **Hue**.

5.4.1 Brightness



The higher value the **brightness** is, the brighter the image is.

5.4.2 Contrast

The contrast is a measure of a display system, defined as the ratio of white to black that the system is capable of producing. The higher value the **contrast** is, the more delicate color you can get.

5.4.3 Saturation

The saturation of a color is determined by a combination of light intensity and how much it is distributed across the spectrum of different wavelengths. The higher value the saturation is, the more colorful the image will be.

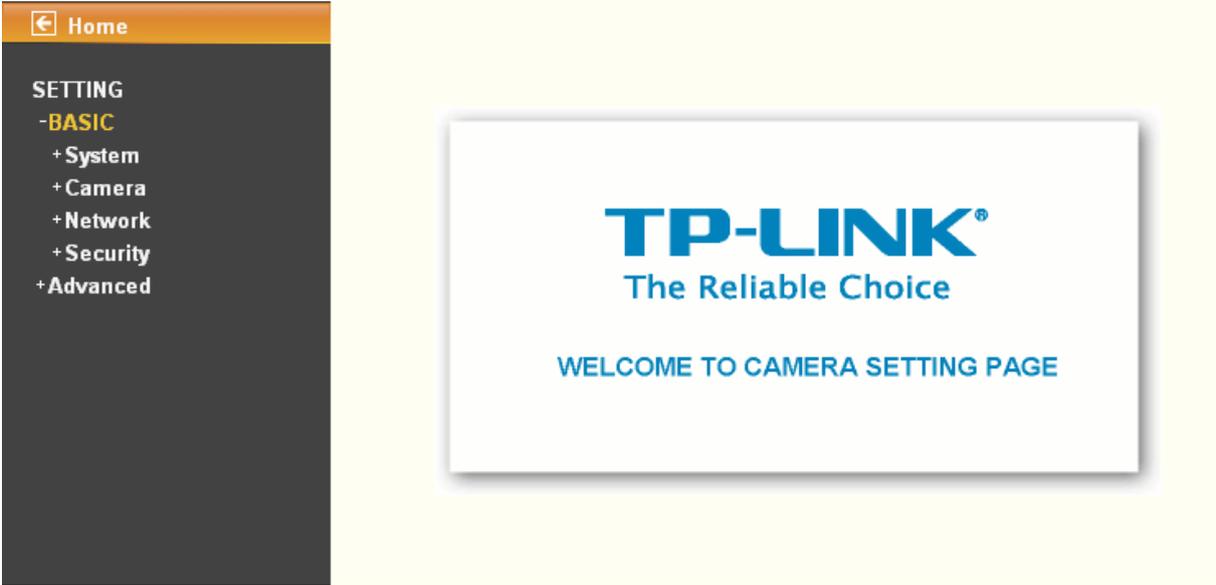
5.4.4 Hue

Hue is one of the three main attributes of perceived color, which is affected by different wavelength of color. With higher value of hue, color will be much more vivid.

5.4.5 Default

After the adjustment of all settings, you can still click **Default** to make the setting back to the factory default settings.

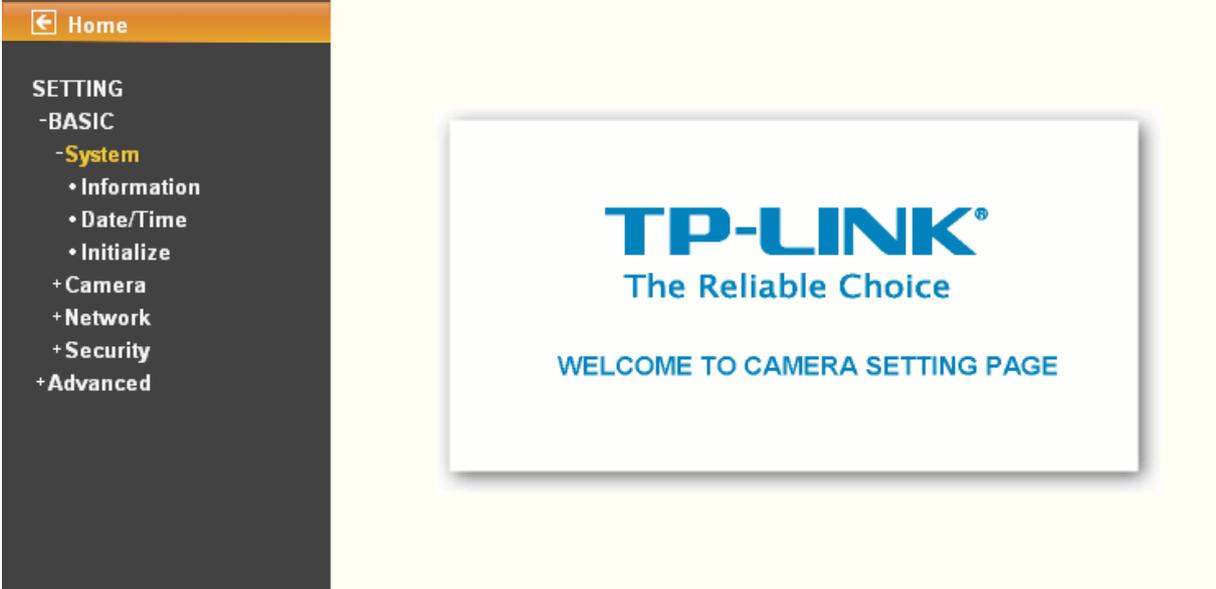
Chapter 6 Setting-BASIC



Click **BASIC** to display the submenus including **System**, **Camera**, **Network**, and **Security**.

6.1 System

Click **System** to display the submenus including **Information**, **Date/Time**, and **Initialize**.



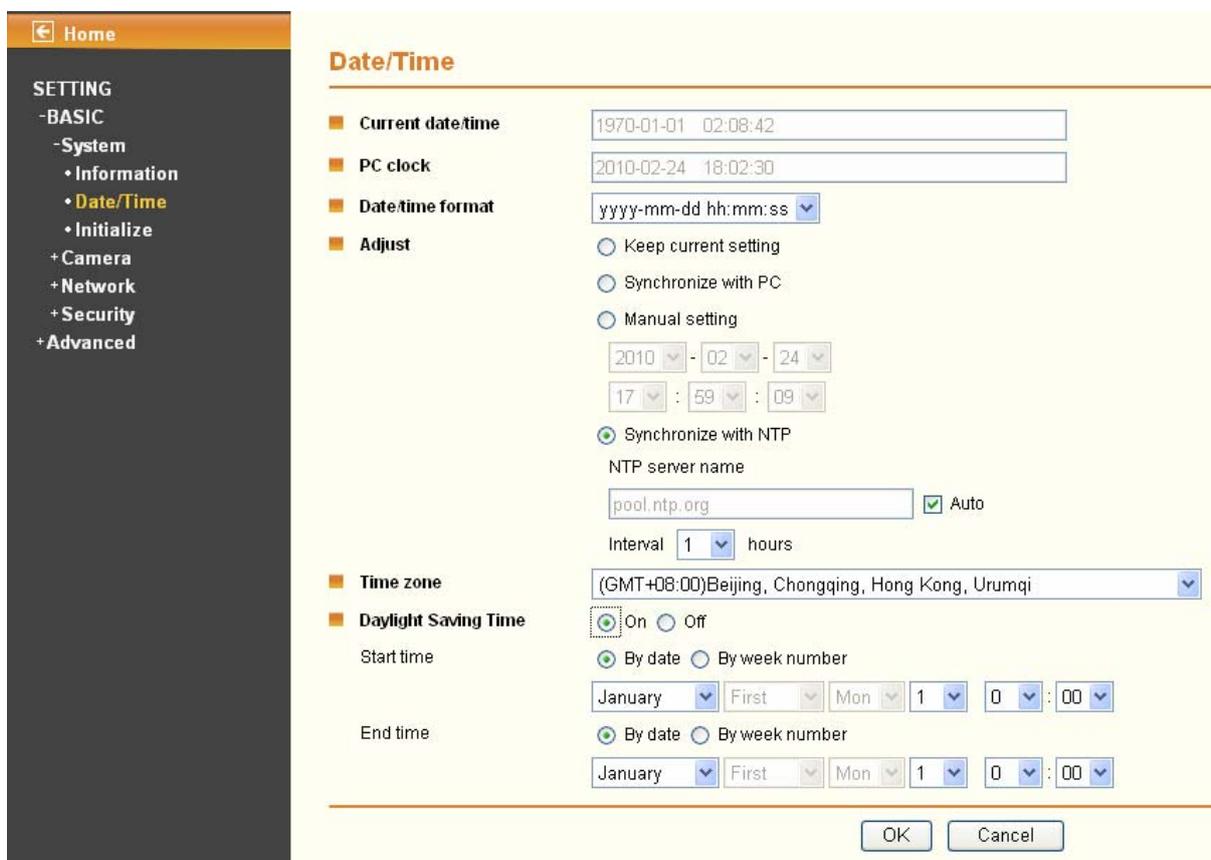
6.1.1 Information

The **Information** page provides the basic information of the product which includes Product name, Firmware version and Web version.



6.1.2 Date/Time

The **Date/Time** page displays all options of time setting.



- **Current date/time:** Displays the current date and time of this IP Camera.
- **PC clock:** Displays the date and time of the monitoring PC clock.
- **Date/time format:** You can click the drop-down list to select different time display formats.
- **Adjust:** You can select one of those four adjusting modes for your IP Camera.
 - **Keep current setting:** Select this mode to keep the current date and time of this IP Camera.
 - **Synchronize with PC:** Select this mode to keep the date and time of this IP Camera the same with the monitoring PC.
 - **Manual setting:** Select this mode to adjust manually the date and time of this IP Camera.
 - **Synchronize with NTP:** Specify the NTP server name and the Refresh Interval to

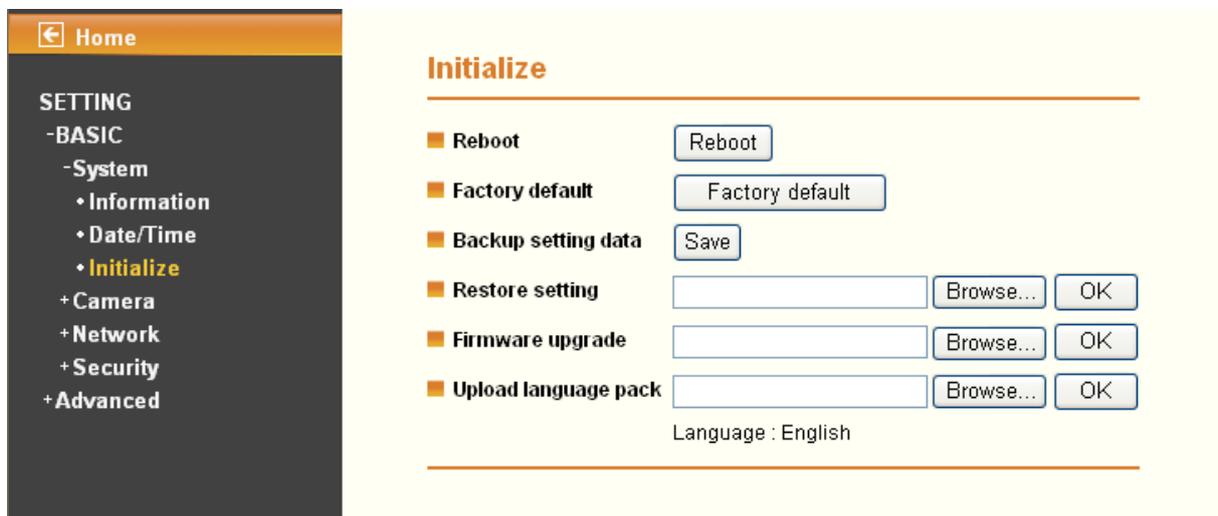
synchronize the date and time of this IP Camera with those of the time server, known as the NTP server.

 **Note:**

The NTP server (Network Time Protocol) is the time server which is an Internet standard protocol built on the top of TCP / IP. This assures accurate synchronization to the millisecond of computer clock time in a network of computers.

- **Time zone:** You can select the format from Greenwich Mean Time. The time displayed will be the same as the current date / time option.
- **Daylight Saving Time (DST;** also **summer time** in British English): It is the practice of advancing clocks so that afternoons have more daylight and mornings have less. Here you can find the daylight saving time around the world:
http://en.wikipedia.org/wiki/Daylight_saving_time_around_the_world

6.1.3 Initialize



- **Reboot:** Click this button to reboot this IP Camera. A confirmation dialogue will appear and then click **OK** to process. It takes two minutes to reboot this IP Camera.
- **Factory default:** Click this button to reset this IP Camera to the factory default settings. A confirmation dialogue will appear and then click **OK** to process. The network LED indicator on the IP Camera will start to blink. This IP Camera will reboot automatically after the restoring has been finished. Don't turn off this IP Camera during this process.
- **Backup setting data:** You can save configuration setting data of this IP Camera into a file. Click **Save** and follow the instructions on the browser to save this setting data file to specified location.
- **Restore setting:** Download the saved setting data of this IP Camera. Click **Browse...** and select the saved file. Click **OK** and this IP Camera is adjusted according to the loaded data and then restarted.
- **Firmware upgrade:** Upgrade the device software. Click **Browse...** and select the file for upgrading. A confirmation dialogue will appear. Click **OK** to start. This IP Camera will reboot after upgrading has been finished.

 **Note:**

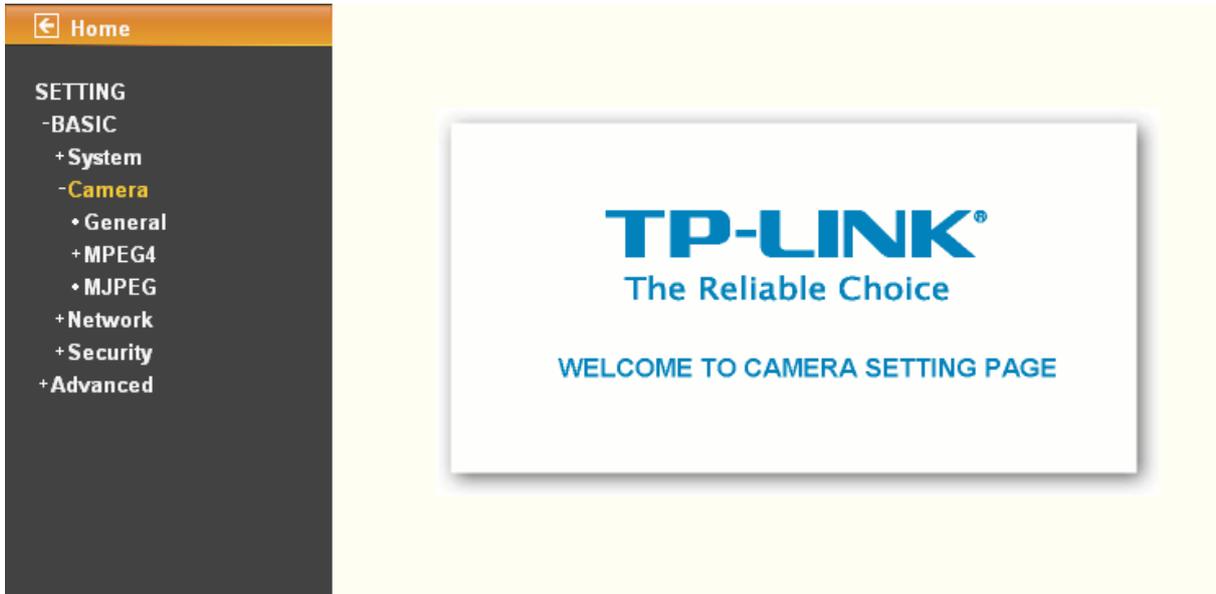
Use only upgrade files that are special for this IP Camera. Otherwise problems may occur. Don't

turn off the IP Camera power or disconnect the network until the upgrading is completed.

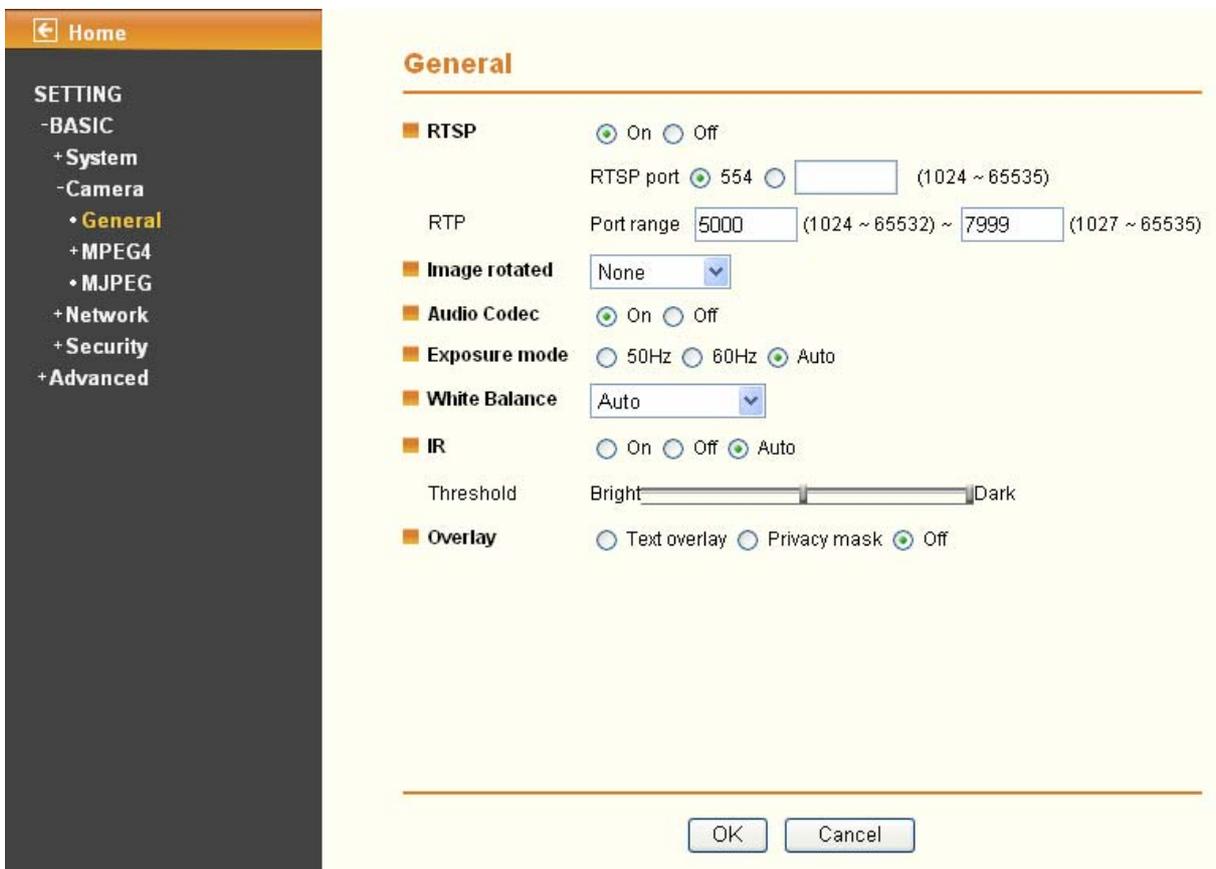
- **Upload language pack:** Upgrade the device language pack. Click **Browse...** and select the file for upgrading. A confirmation dialogue will appear. Click **OK** to start upgrading. The upgrade is applied immediately. The default language is “English”.

6.2 Camera

Click **Camera** to display the submenus including **General**, **MPEG4** and **MJPEG**.



6.2.1 General



- **RTSP:** Switch On or Off.
 - **RTSP Port:** Specify the transmission port number of RTSP streaming. The default value is 554.
 - **Port Range:** Specify the transmission port range of RTP streaming video. RTP will select a port randomly from this range.

 **Note:**

RTSP (Real Time Streaming Protocol) is a protocol used in streaming media system which allows clients to remotely control a streaming video server. RTSP is supported by most of the media clients such as Real Player, QuickTime and VLC...etc.

- **Image rotated:** You can mirror or flip the display screen.
- **Audio Codec:** Switch On or Off.
- **Exposure mode:** You can choose Auto, 50Hz or 60Hz. If you choose Auto option, the camera will adjust automatically to perform well.
- **White Balance:** You can choose the white balance to Auto, Sunny, Cloudy and Black & White.
- **IR:** You can choose Auto, On or Off. If you choose Auto option, the camera will adjust automatically to perform well.

 **Note:**

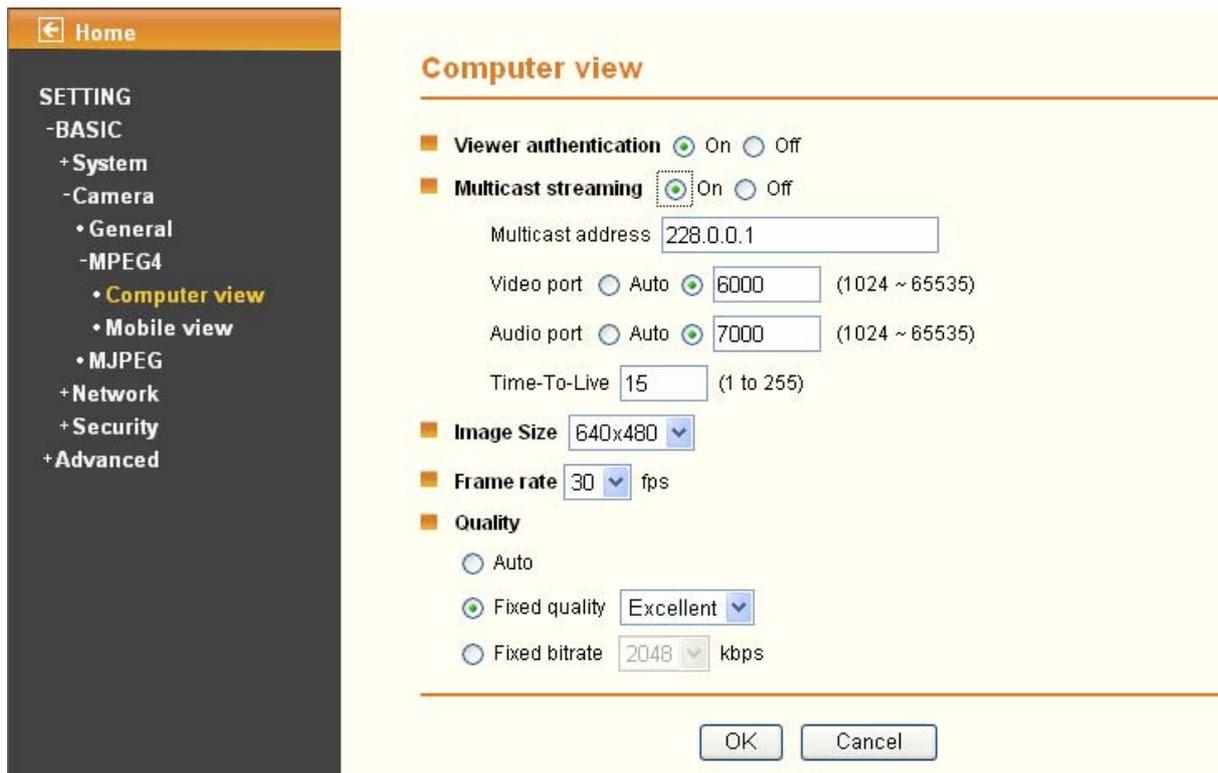
- 1) The effective range of the IR (Infrared) light is 10 meters (33 feet), and it is strongly suggested that you install it in a place without any barriers within 3 meters of the field of view (10 feet). Reflected light from a large closed barrier (such as a wall) may cause the camera to shut down the infrared light.
- 2) Normally, 10 seconds after the environment becomes darker than the threshold, the camera will turn on the IR (Infrared) light. One typical abnormal situation is that a barrier is very close to the camera and shields all available light.

- **Overlay:**
 - **Text Overlay:** You can see some information on the display screen which includes Date/Time and user-defined text. Also, you can change the background color.
 - **Privacy Mask:** You can cover a specific area of the video image.

6.2.2 MPEG4

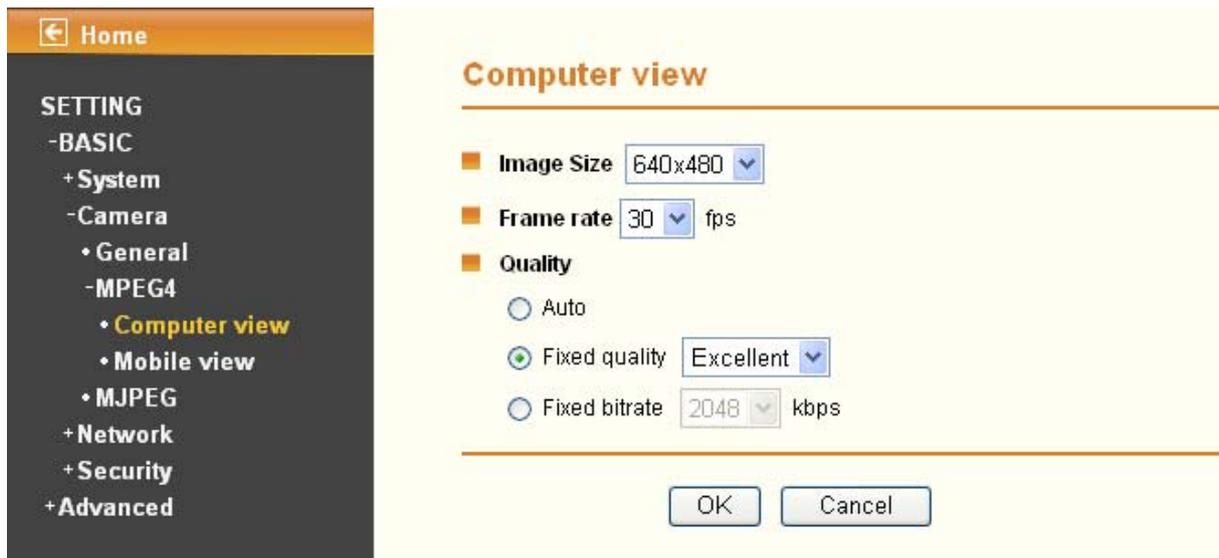
A. Computer View

If RTSP is On (see Setting → Basic → Camera → General), the screen will display as shown below.



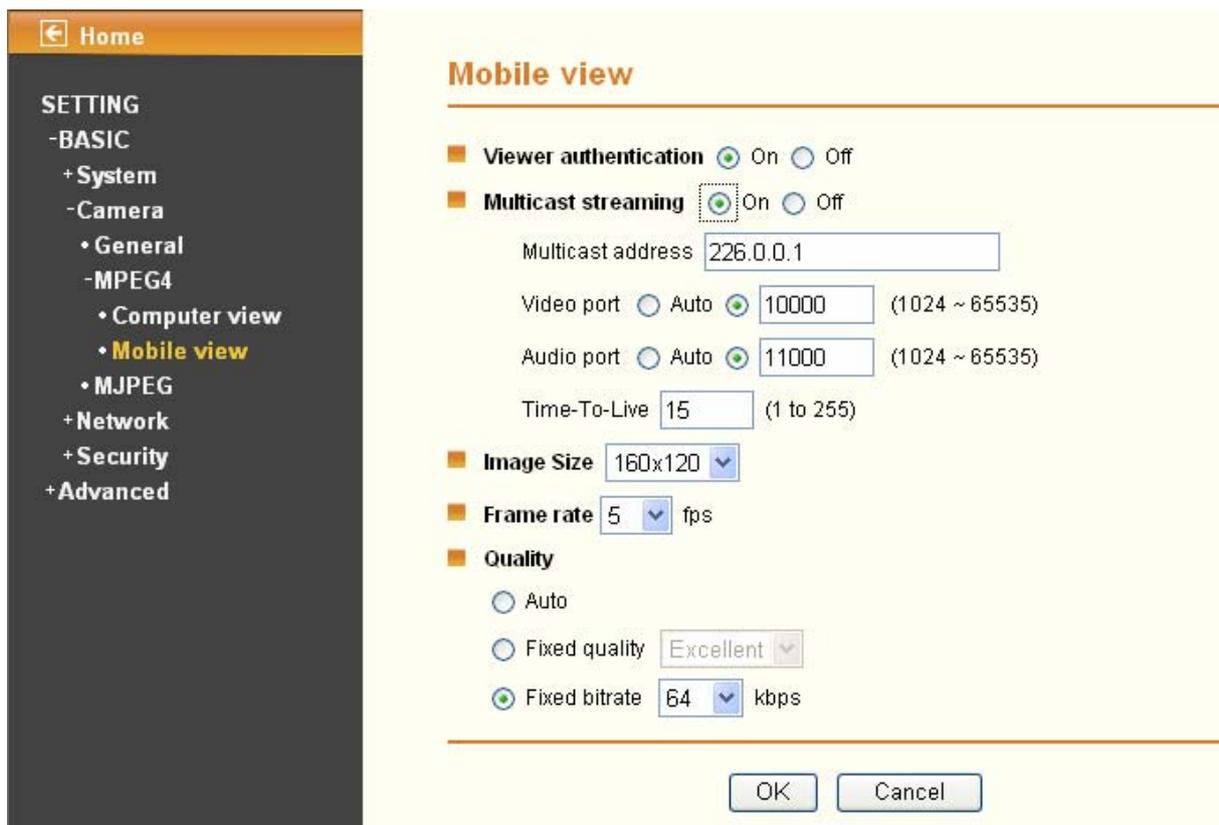
- **Viewer Authentication:** If the viewer authentication is **On**, the users will be requested to type in username and password when viewing through RTSP.
- **Multicast Streaming (If it is ON)**
 - **Multicast address:** Specify the multicast server address.
 - **Video/Audio port:** Specify the transmission port number of the video data, which is an even number from 1024 to 65534.
 - **Time-To-Live:** Set the maximum TTL (Transistor-Transistor Logic) that multicast can pass through.
- **Image Size:** Specify the image size when the network camera transmits. You can choose among 640 x 480, 320 x 240, and 160 x 120.
- **Frame rate:** Set the frame rate of the MPEG4 image. You can choose values from 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, and 30 fps. The unit “fps” stands for “frames per second”.
- **Quality:**
 - **Auto:** The quality and bitrate will be adjusted automatically according to the frame rate.
 - **Fixed Quality:** You can select the value of quality among Medium, Standard, Good, Detailed and Excellent.
 - **Fixed bitrate:** Set the bitrate of MPEG4 image transmission for a line. You can select the values from 64, 128, 256, 384, 512, 768, 1024, 1280, 1536, and 2048 kbps.

If RTSP is Off (see Setting → Basic → Camera → General), the screen will display as shown below.



B. Mobile View

If RTSP is On (see Setting → Basic → Camera → General), the screen will display as shown below.

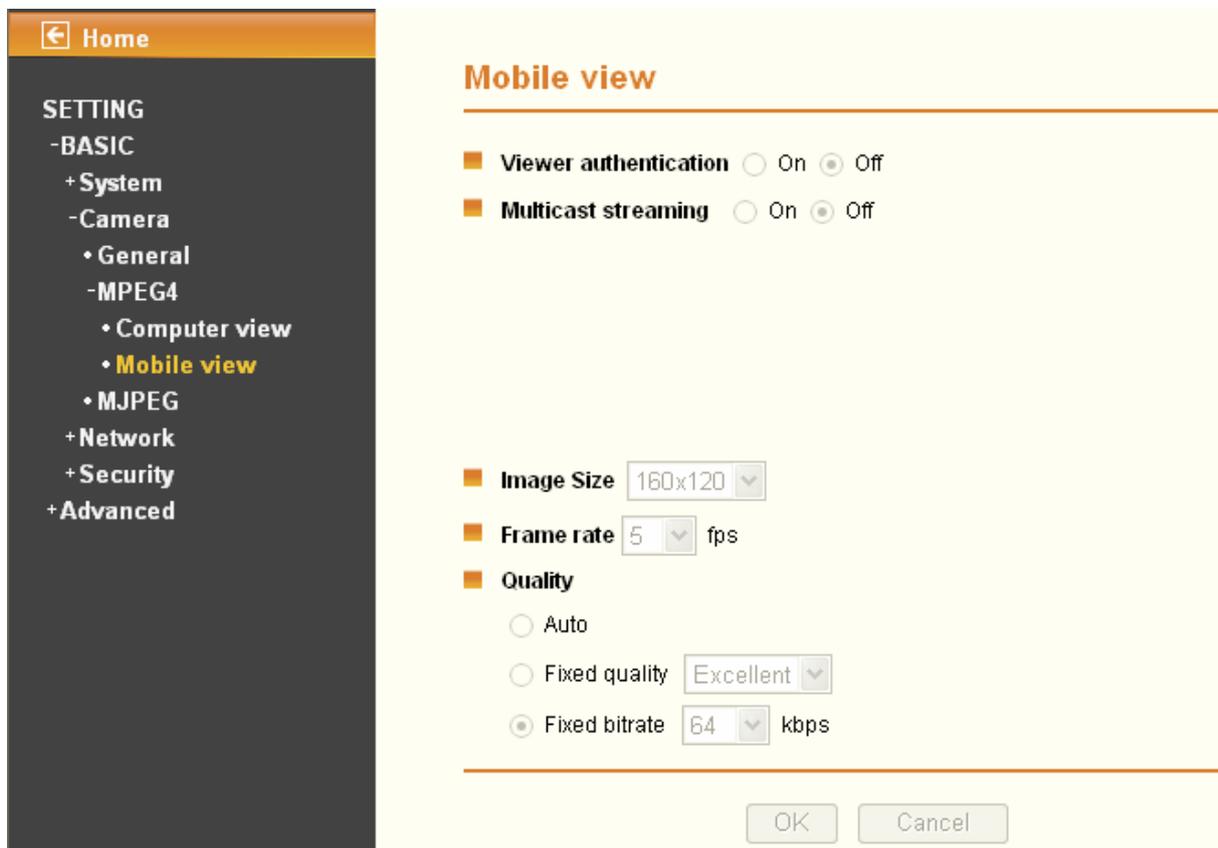


- **Viewer Authentication:** If the viewer authentication is **On**, the users will be requested to type in username and password when viewing through RTSP.
- **Multicast Streaming (If it is On)**
 - **Multicast Address:** Specify the multicast server address.
 - **Video/Audio Port:** Specify the transmission port number of the video data, which is an

even number from 1024 to 65534. It is set to 10000 and 11000 by default.

- **Time-To-Live:** Set the maximum TTL(Transistor-Transistor Logic) that multicast can pass through.
- **Image Size:** The image size of Mobile View is fixed at 160 x 120.
- **Frame Rate:** Set the frame rate of the MPEG4 image. You can choose values from 5, 10fps. The unit “fps” stands for “frames sent per second”.
- **Quality:**
 - **Auto:** The quality and bitrate will be adjusted automatically according to the frame rate.
 - **Fixed Quality:** You can select the value of quality among Medium, Standard, Good, Detailed and Excellent.
 - **Fixed bitrate:** Set the bitrate of MPEG4 image transmission for a line. You can select the values from 16, 32, 48, 64, 128, 256bps.

If RTSP is Off (see Setting →Basic → Camera → General), the screen will display as shown below.



6.2.3 MJPEG

If RTSP is On (see Setting →Basic → Camera → General), the screen will display as shown below.



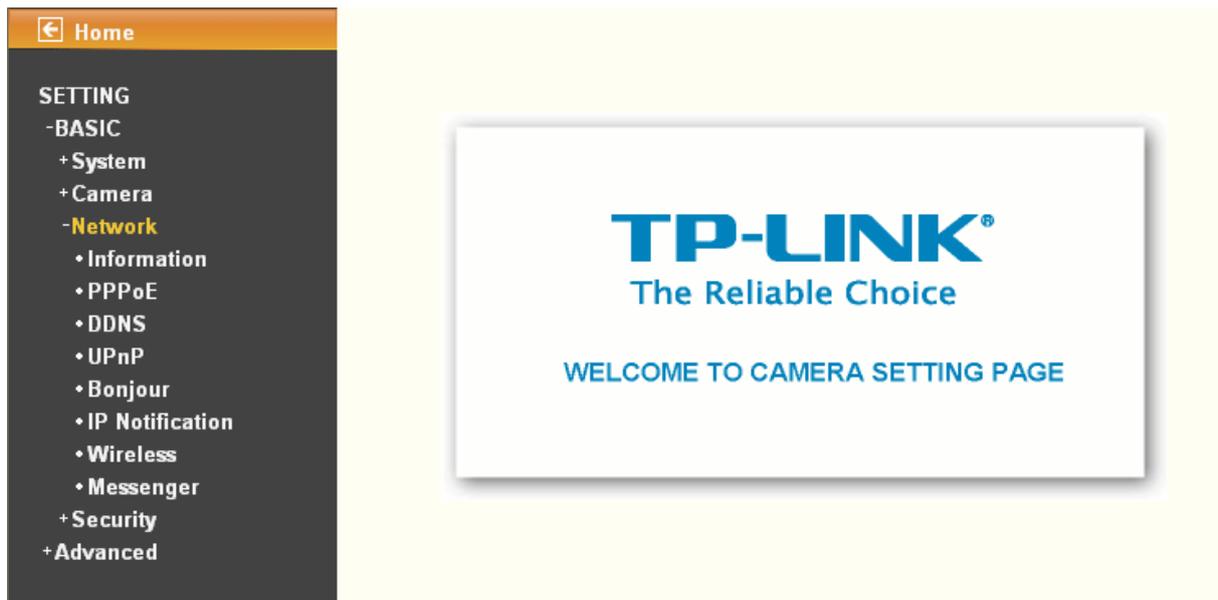
If RTSP is Off (see Setting → Basic → Camera → General), the screen will display as shown below.



- **Image Size:** Specify the image size when the network camera transmits. You can choose among 640 x 480, 320 x 240, and 160 x 120.
- **Frame Rate:** Set the frame rate of the MJPEG image. You can choose values from 1, 2, 3, 4, 5, 7, 10, 15fps. The unit “fps” stands for “frames per second”.
- **Quality:**
 - **Auto:** The quality will be automatically decided.
 - **Fixed Quality:** You can select the value of quality among Medium, Standard, Good, Detailed and Excellent.

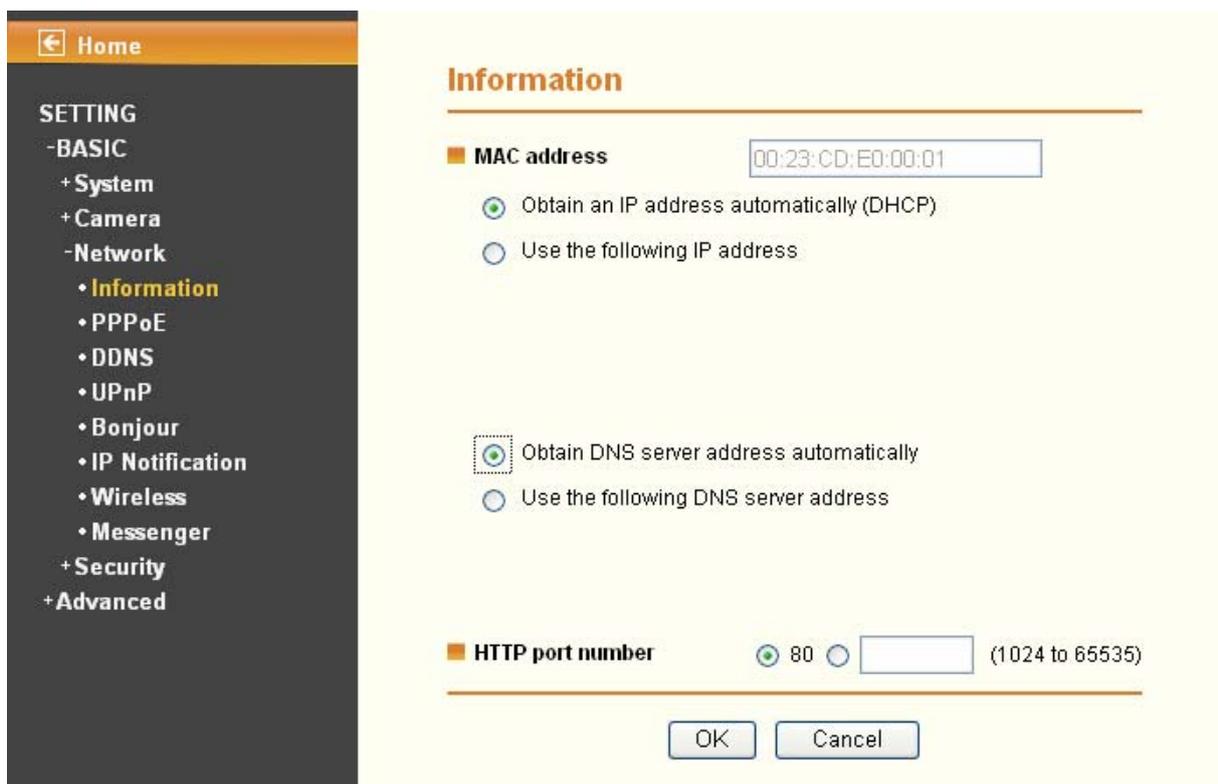
6.3 Network

Click **Network** to display the submenus including **Information**, **PPPoE**, **DDNS**, **UPnP**, **Bonjour**, **IP Notification**, **Wireless** and **Messenger**..



6.3.1 Information

The page of **Information** displays the MAC address of the device.



- **Obtain an IP address automatically (DHCP):** (If a DHCP server is installed on the network) Select this, the IP will be assigned by the DHCP server.
- **Obtain DNS server address automatically:** Select this to obtain the address of DNS server automatically.

- **Use the following IP address:** Select this when the fixed IP address is set.
 - **IP address:** Enter the IP address of the device.
 - **Subnet mask:** Enter the subnet mask.
 - **Default gateway:** Enter the default gateway.
- **Use the following DNS server address:** Select this when you set the fixed IP address as the IP address of DNS server.
 - **Primary DNS server:** Enter the IP address of the primary DNS server.
 - **Secondary DNS server (optional):** Enter the IP address of the secondary DNS server if necessary.
- **HTTP port number:** Select 80 in general situations. If you want to use a port number other than 80, select the radio button before the text box and enter a port number between 1024 and 65535.
 - When you have set the HTTP port number to a number other than 80 on the Network setting page or in the Setup Program, access the device by typing the IP address of the device on the web browser as follows: for example, when HTTP port number is set to 2000 and the IP address of your camera is set to 192.168.1.100, you should type in <http://192.168.1.100:2000/> to access the device.

The change of settings will not take effect until the camera is rebooted. Please go to “SETTING → BASIC → System → Initialize” page and click the Reboot button as shown in the figure below after you make some changes.

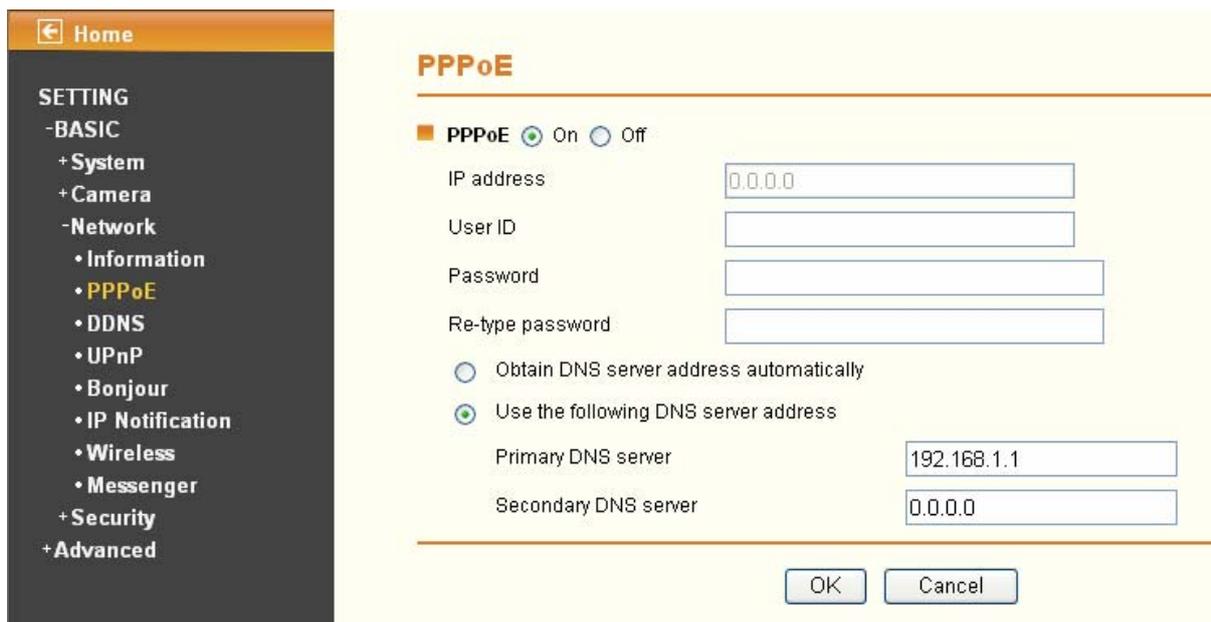


6.3.2 PPPoE (Point-to-Point Protocol over Ethernet)

If your ISP provides Dynamic IP with authentication by username and password, enter all PPPoE information in this part. When you use the PPPoE function, you need to turn on the DDNS or IP Notification function at the same time.



- **IP address:** The IP address obtained when the IP camera connecting with network at PPPoE.
- **User ID:** Enter the user ID for authentication necessary for PPPoE connections. Type it up to 64 characters.
- **Password:** Enter the password for authentication necessary for PPPoE connections. Type it up to 32 characters.
- **Re-type password:** Re-type the password to confirm.
- **Obtain DNS server address automatically:** Select this to obtain the address of DNS server automatically.



- **Use the following DNS server address:** Select this when you set the fixed IP address as the IP address of DNS server.
 - **Primary DNS server:** Enter the IP address of the primary DNS server.
 - **Secondary DNS server:** Enter the IP address of the secondary DNS server.

Note:

- 1) PPPoE (Point-to-Point Protocol over Ethernet): PPPoE is a network protocol for encapsulating Point-to-Point Protocol frames inside Ethernet frames. PPPoE connection is used mainly with ADSL service where individual users connect to the ADSL transceiver (modem) over Ethernet work. It is also widely used in XDSL (digital affiliate line such as ADSL, VDSL or SDSL)
- 2) The IP Camera needs to be rebooted after it finishes changing the network completely. For more details, please refer to **Section 6.1.3 Initialize**.
- 3) The IP Camera with Intelligent IP Installer can't be found after PPPoE is active, but you can get the IP address of the camera by IP Notification function. For more details, please refer to **Section 6.3.6 IP Notification**.
- 4) If the IP Notification function is not configured to report the IP address of the camera, you can reset the camera to its factory default settings by pressing the Reset button. Then the camera can be found by Intelligent IP Installer.

6.3.3 DDNS (Dynamic DNS)

Choose menu “**Dynamic DNS**”, you can configure the Dynamic DNS function.

The IP Camera offers the **DDNS** (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address, and then your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as www.dyndns.org, or www.noip.org. The Dynamic DNS client service provider will give you a password or key.

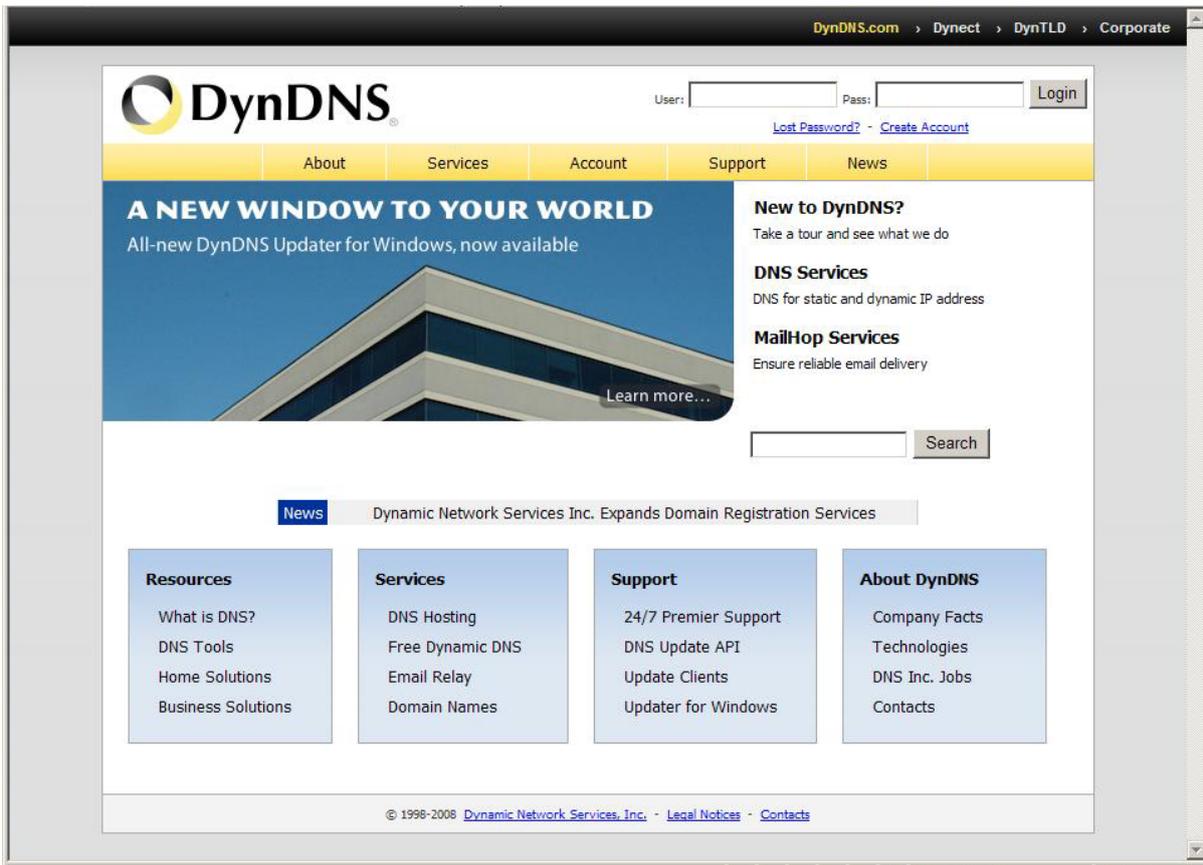
- **Server name:** Choose the DDNS Server from the list.
- **User ID:** Enter the user ID for authentication necessary for DDNS connections. Type it up to 64 characters.
- **Password:** Enter the password for authentication necessary for DDNS connections. Type it up to 32 characters.
- **Re-type password:** Re-type the password to confirm.
- **Host name:** Enter the host name that is registered to the DDNS server.

 **Note:**

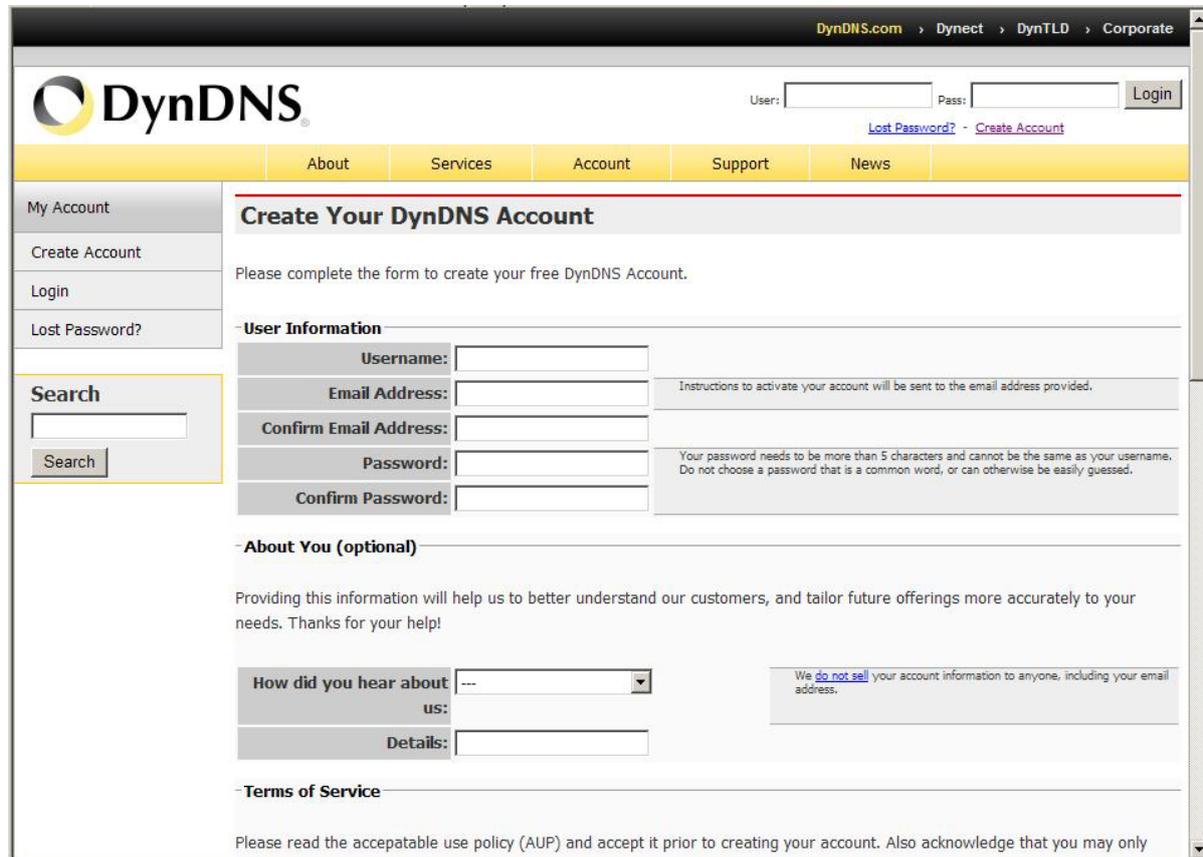
How to apply DDNS username and Host name?

You can apply DDNS username and Host name by the following steps:

1. Log in <http://www.dyndns.org>, click the **Create Account**.



2. Input all information and follow step by step with DynDNS.



3. Log in with new account and click **Account** → **My Hosts** → **Add Host Services**.

DynDNS.com > Dynect > DynTLD > Corporate

Logged In User: **Sunny**
[My Services](#) - [My Cart](#) - [Log Out](#)

About Services Account Support News

Increase your update abuse threshold. Consider an [Account Upgrade](#).

My Account

My Services

Account Settings

Billing

My Cart
0 items

Search

Search

Account Summary for Sunny

My Services

View, modify, purchase, and delete your services.

[My Zones](#)

[Add Zone Services](#)

[My Hosts](#)

[Add Host Services](#)

[Account Upgrades](#)

[MailHop Outbound](#)

[Network Monitoring](#)

[SSL Certificates](#)

[Recursive DNS](#)

[Support](#)

[DNS Service Level Agreement](#)

[Premier Support](#)

Billing

Update your billing information, complete a purchase, and view invoices.

[View Shopping Cart](#)

[Active Services](#)

[Order History](#)

[Billing Profile and Vouchers](#)

[Renew Services](#)

[Auto Renew Settings](#)

[Sync Expirations](#)

Account Settings

Update your email address, set preferences, and delete your account.

[Change Email Address](#)

[Change Password](#)

[Change Username](#)

[Contact Manager](#)

[Mailing Lists](#)

[Move Services](#)

[Preferences](#)

[Close Account](#)

4. Type domain in the **Hostname** field and select sub-domain.

About Services Account Support News

Access to more domains, [Premium Domains](#). Consider an [Account Upgrade](#).

My Account

My Services

Account Upgrades

SLA

Premier Support

Zone Services

Host Services

MailHop Outbound

Recursive DNS

Network Monitoring

SSL Certificates

Renew Services

Auto Renew Settings

Sync Expirations

Account Settings

Billing

My Cart
0 items

Search

Search

Add New Hostname

[↑ Host Services](#)

Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. [Learn More...](#)

Hostname: . servebbs.org

Wildcard: Yes, alias "*.hostname.domain" to same settings.

Service Type:

Host with IP address

WebHop Redirect

Offline Hostname

IP Address:

[Use auto detected IP address 202.114.6.36](#)

TTL value is 60 seconds. [Edit TTL](#).

Mail Routing: Yes, let me configure Email routing.

5. After typing in information, check your DDNS service.

DynDNS.com > Dynect > DynTLD > Corporate

Logged In User: Sunny
[My Services](#) - [My Cart](#) - [Log Out](#)

About Services Account Support News

Access to more domains, [Premium Domains](#). Consider an [Account Upgrade](#).

My Account

My Services

- Account Upgrades
- SLA
- Premier Support
- Zone Services
- Host Services
- MailHop Outbound
- Recursive DNS
- Network Monitoring
- SSL Certificates
- Renew Services
- Auto Renew Settings
- Sync Expirations

Account Settings

Billing

My Cart
0 items

Search

Host Services

You already have the maximum number of Dynamic DNS hosts. If you wish to have additional hosts in this service, you must purchase an [account upgrade](#). Each upgrade allows you to create 20 additional hosts plus [additional features](#).

You like to see your current usage on the [Account Upgrade](#) page.

Hostname	Service	Details	Last Updated
cmos.dyndns.org	Host	61.137.216.170	May. 29, 2010 6:41 AM
inc.dyndns.org	Host	202.114.6.36	May. 29, 2010 3:22 PM

[Bulk Update IP Address And Service Type](#)
[Host Update Logs](#)

6. Type your DDNS **User ID**, **Password** and **Host name** in **Setting** → **Basic** → **Network** → **DDNS**. After completing setting, reboot IP Camera.

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 - **DDNS**
 - UPnP
 - Bonjour
 - IP Notification
 - Wireless
 - Messenger
- + Security
- + Advanced

DDNS

DDNS On Off

Server name

User ID

Password

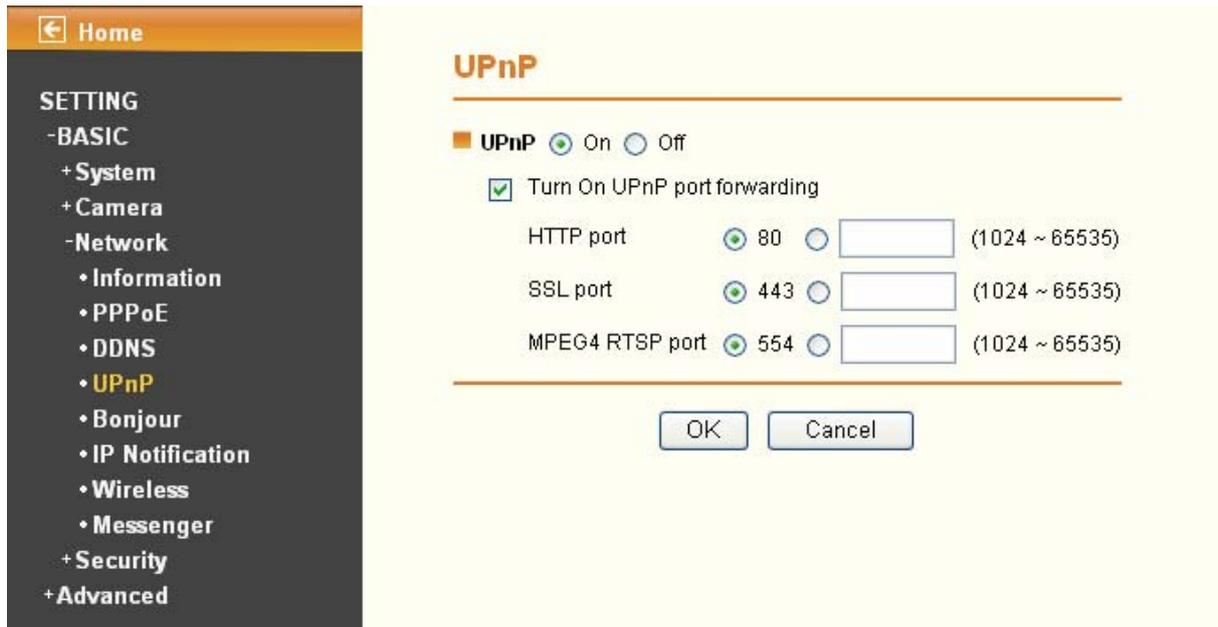
Re-type password

Host name

OK Cancel

6.3.4 UPnP (Universal Plug and Play)

Choose menu “**Network**→**UPnP**”, and you can view the information about **UPnP** (Universal Plug and Play) in the screen as shown in the following figure. The UPnP feature allows the devices, such as Internet computers, to access the local host resources or devices as needed. UPnP devices can be automatically discovered by the UPnP service application on the LAN.



- **HTTP port:** Enter the HTTP port number and the default HTTP port is 80.
- **SSL port:** Enter the SSL port number and the default SSL port is 443.
- **MPEG4 RTSP port:** Enter the MPEG4 RTSP port, default value is 554.

 **Note:**

UPnP (Universal Plug and Play): UPnP is a set of computer network protocol. It allows devices to connect seamlessly and simplify the implementation of networks at home and corporate environments. The device supports UPnP which is enabled by default. The device will be automatically detected and a new icon will be added to “My Network Place” if it also enables on your computer. It provides Port Forwarding for opening a port in a router or firewall in a private network in order to let a party from the outside world contact a inside user.

6.3.5 Bonjour

Bonjour, also known as zero-configuration networking, enables automatic discovery of computers, devices, and services on IP networks. **Bonjour** uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers.



➤ **Device Name:** Enter Device Name to your needs.

👉 **Note:**

How to use Bonjour in your Windows Browser UI? Please check the link below:
<http://www.apple.com/support/downloads/bonjourforwindows.html>

6.3.6 IP Notification

Once IP Notification is set to "On", the camera will automatically send an e-mail notification to tell users its updated network parameters if the network settings about IP address, network connection type, HTTP port or wireless connection is changed or completed. (Some settings will take effect after rebooting.)

- **Notify Type:** You can select the notify type among DHCP, Static IP, and PPPoE. When the network settings related to the chosen notify type are changed, an e-mail notification will be sent to inform you of the updated network information of the camera.
- **SMTP Server Name:** Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.
- **SMTP Server Port:** You can set port number from 1~65535 according to your mail server. The default value is 25.
 - **SSL:** It is Security setting. Checking **SSL** box if the mail server you use has security restriction.

Note:

If you use g-mail as your mail server, you should set 587 as your port number and check **SSL** box.

- **Authentication:** Select the authentication required when you send an email.
 - **Off:** Select this if no authentication is necessary when an email is sent.
 - **On:** If authentication is necessary when an e-mail is sent, there are **SMTP**, **POP before SMTP** or **both** three options.
 - **SMTP:** Select this if SMTP authentication is necessary when an e-mail is sent.
 - **POP before SMTP:** Select this if POP before SMTP authentication is necessary when an e-mail is sent. If this option is selected, the **IP Notification** page will be different as following figure shown.

IP Notification

IP Notification On Off

Notify type DHCP Static IP PPPoE

SMTP server name

SMTP server port (1 ~ 65535) SSL

Authentication On Off

SMTP POP before SMTP

POP server name

User name

Password

Recipient e-Mail address

Administrator e-Mail address

Subject

Message

- **POP server name:** It is necessary when the POP before SMTP is selected in Authentication. Type the POP (receiving mail) server name up to 64 characters, or type the IP address of the POP server. This setting is necessary when the SMTP server which sends e-mails performs authentication using the POP user account.
- **User name, Password:** Type the username and password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.
- **Recipient e-mail address:** Type the recipient e-Mail address. You can specify more than one recipient E-mail address using “;” to separate.
- **Administrator e-mail address:** Type the Administrator e-Mail address up to 64 characters. This address is used for reply mail and sending system messages from the SMTP server.
- **Subject:** Type the subject/title of the e-Mail up to 64 characters. With respect to mail which is sent according to the IP notification.
- **Message:** Type the text of the E-mail up to 384 characters. Default value provides network information including IP, Port, MAC, Model, Firmware Version and Web Version.

6.3.7 Wireless

Choose **Network** → **Wireless**, you can configure the wireless function for the camera in the figure below.

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- Bonjour
- IP Notification
- **Wireless**
- Messenger
- + Security
- + Advanced

Wireless

Wireless On Off

Status of wireless networks

ESSID	Mode	Security	Channel	Signal strength	Bit rate
TP-LINK	Managed	WPA(2)-PSK/TK...	69	0	
TP-LINK_010618	Managed	Open/NoSecurity	1 71	0	
yin hong	Managed	Open/WEP	1 81	0	
541G	Managed	Open/NoSecurity	1 55	0	
TP-LINK_EF127B	Managed	WPA2-PSK/AES	2 77	0	

MAC address

IP address

ESSID Manual setting

Mode Managed Ad-Hoc

Authentication

Encryption

Key length 64 bit 128 bit

Active transmit key: (26 HEX chars or 13 ASCII chars)

Key 1:

Re-type

Obtain an IP address automatically (DHCP)

Use the following IP address

Obtain DNS server address automatically

Use the following DNS server address

The wireless network has to be set up by using cable network connection. After setting the camera correctly, the wireless function can work without cable network connection. Please follow the setting process below step by step:

1. Connect IP Camera with Ethernet connection.
2. Go to **SETTING** → **BASIC** → **Network** → **Wireless**, and choose option “On”. You will see the wireless setting page.
3. Then click **Refresh**. All access points (AP) around you will show up.

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- +Security
- +Advanced

Wireless

Wireless On Off

Status of wireless networks

ESSID	Mode	Security	Channel	Signal strength	Bit rate
TP-LINK_muy...	Managed	WPA(2)-PSK/TK...	69	0	
TP-LINK_010618	Managed	Open/NoSecurity	71	0	
yinzhongtao...	Managed	Open/WEP	81	0	
541G	Managed	Open/NoSecurity	55	0	
TP-LINK_EF127B	Managed	WPA2-PSK/AES	77	0	

Refresh

MAC address: 00:1B:FE:00:FF:49

IP address:

ESSID: Manual setting

Mode: Managed Ad-Hoc

Authentication: Open

Encryption: WEP

Key length: 64 bit 128 bit

Active transmit key: (26 HEX chars or 13 ASCII chars)

Key 1:

Re-type:

Obtain an IP address automatically (DHCP)

Use the following IP address

Obtain DNS server address automatically

Use the following DNS server address

OK Cancel

- Select the AP you wish to connect.
- Enter password in **Passphrase** field if you need. If you don't know the setting of the wireless AP, please ask your network administrator.

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- UPnP
- Bonjour
- IP Notification
- **Wireless**
- Messenger
- +Security
- +Advanced

Wireless

Wireless On Off

Status of wireless networks

ESSID	Mode	Security	Channel	Signal strength	Bit rate
TP-LINK	Managed	WPA(2)-PSK/TK...1	69	0	
TP-LINK_010618	Managed	Open/NoSecurity	1	71	0
yin hong	Managed	Open/WEP	1	81	0
541G	Managed	Open/NoSecurity	1	55	0
TP-LINK_EF127B	Managed	WPA2-PSK/AES	2	77	0

Refresh

MAC address: 00:1B:FE:00:FF:49

IP address:

ESSID: TP-LINK_EF127B Manual setting

Mode: Managed Ad-Hoc

Authentication: WPA2-PSK

Encryption: AES

Passphrase:

Re-type:

(64 HEX chars or 8 to 63 ASCII chars)

Obtain an IP address automatically (DHCP)

Use the following IP address:

Obtain DNS server address automatically

Use the following DNS server address:

OK Cancel

6. Choose the option of Obtain an IP address automatically (DHCP) or Use the following IP address:

- **Use the following IP address:** Select this when the fixed IP address is set.
 - IP address: Enter the IP address of the device.
 - Subnet mask: Enter the subnet mask.
 - Default gateway: Enter the default gateway.
 - **Use the following DNS server address:** Select this when you set the fixed address as the IP address of DNS server.
 - Primary DNS server: Enter the IP address of the primary DNS server.
 - Secondary DNS server: Enter the IP address of the secondary DNS server, if necessary.
7. Please click **OK** button to finish the wireless setting. Now please have a short rest or work on other business, for the wireless setting will take effect 1 minute after you click **OK**.
 8. Please unplug the Ethernet cable connecting the TL-SC3171G and the Router (or the PC), and log into the IP camera with its wireless address.

6.3.8 Messenger (Supports up to Windows Live Messenger version 8089)

If the firmware of your IP Camera has been updated to LM.1.6.16.03P5, then the **Messenger** submenu will be displayed under the **Network** menu. Click the **Messenger** submenu, the Messenger configuration page will be displayed similar to the figure shows below. This function allows you to use the desired computer with MSN installed to view the video captured by the IP camera.

Messenger

Messenger On Off

Protocol:

Login Account:

Password:

Re-type password:

Alias:

Port range: (1024 ~ 65531) ~ (1028 ~ 65535)

Video mode: Computer view Mobile view

IP Notification: On Off

Privacy: On Off

User:

Allow list:

- **Messenger:** Check the radio button before **On**, so you can use your IP Camera via this function.
- **Protocol:** Displays the protocol used.
- **Login Account:** Enter the MSN account registered for you IP Camera.
- **Password:** Enter the password of the MSN account.
- **Re-type password:** Type the password again.
- **Alias:** Give an alias for the account of your IP Camera. The figure above takes “TL-SC3171G” for example.
- **Port range:** Enter the port range used.
- **IP Notification:** When this feature is enabled, the IP camera would notify "friends" on MSN about its IP address when it logs into the MSN account or when its IP address is changed.
- **Privacy:** When this feature is enabled, the MSN stream will be secured, then only users whose MSN ids are in the Allow List can add the camera's MSN account and view the camera video. When it's disabled, any user can add the camera's MSN id and see it.
- **Allow list:** Enter the account of the MSN user you want communicate with in “User” field. Click **Add** button and then the account will be added to the “Allow list”. Choose an account in the “Allow list” and click **Remove** button to delete it.

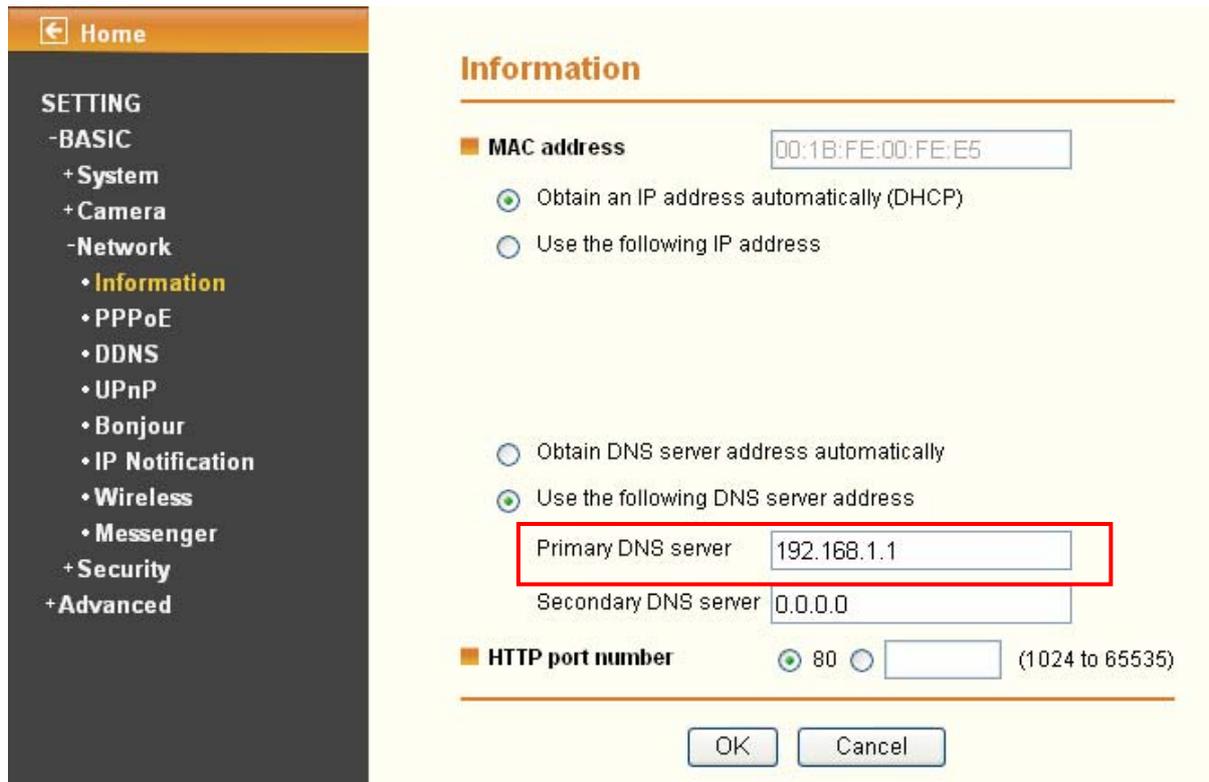
To use MSN to view the video captured by the IP camera, please follow the steps below.

A. Configuring your IP camera

Note:

If you use a Modem Router to access the Internet, you should set your IP Camera as the virtual server with port range 20000-21000 on the Modem Router's web-based management page.

1. Click "**BASIC->Network->Messenger**" to enter the "Messenger" page. Enable Messenger and then set the Login Account, Password, Alias, Port range, IP Notification, Privacy and Allow list parameters as the above figure shows. Click **OK** to save your settings.
2. Click "**BASIC->Network->Information**" to enter the "Information" page. Add 192.168.1.1 as the Primary DNS server.



Information

■ **MAC address**

Obtain an IP address automatically (DHCP)

Use the following IP address

Obtain DNS server address automatically

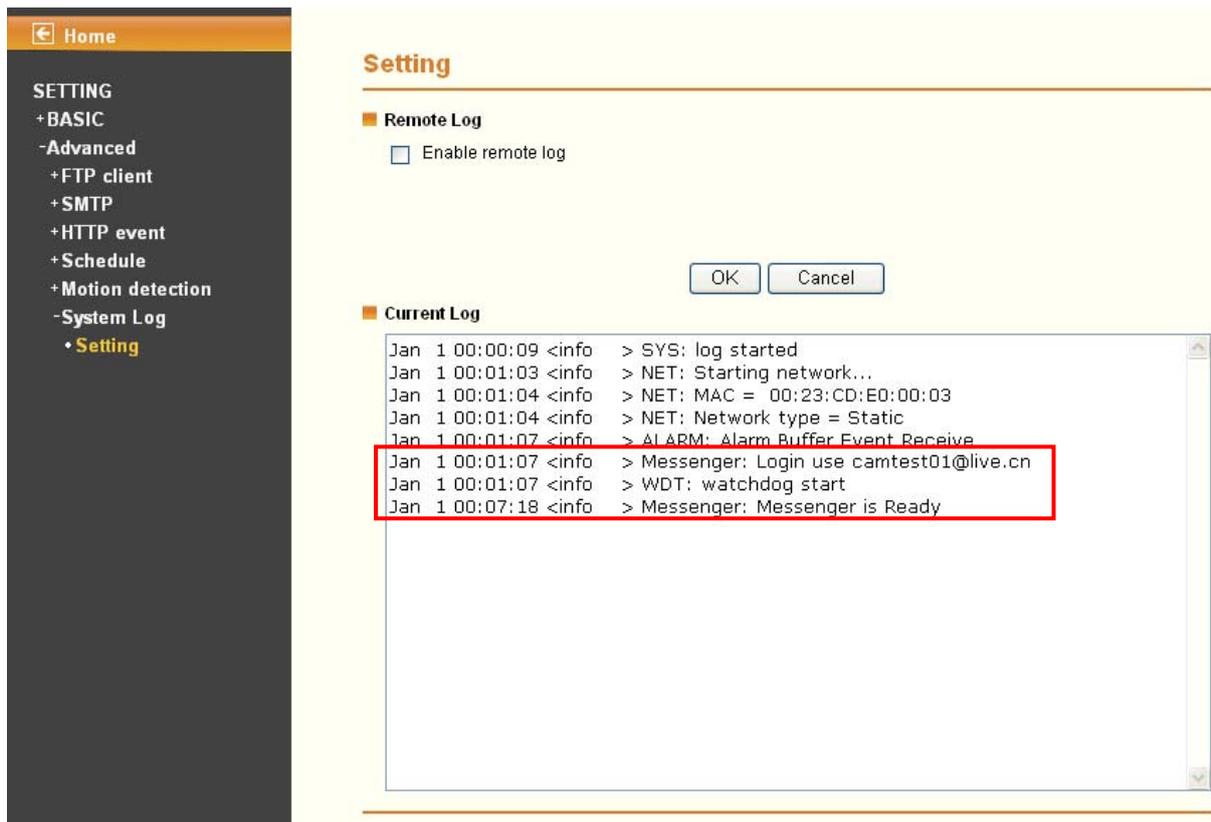
Use the following DNS server address

Primary DNS server

Secondary DNS server

■ **HTTP port number** 80 (1024 to 65535)

3. Click "**Advanced->System Log->Setting**" to see if there is "Messenger is Ready" information as the figure below shows. If there is, go on with the following steps.



B. Add the camera's msn account

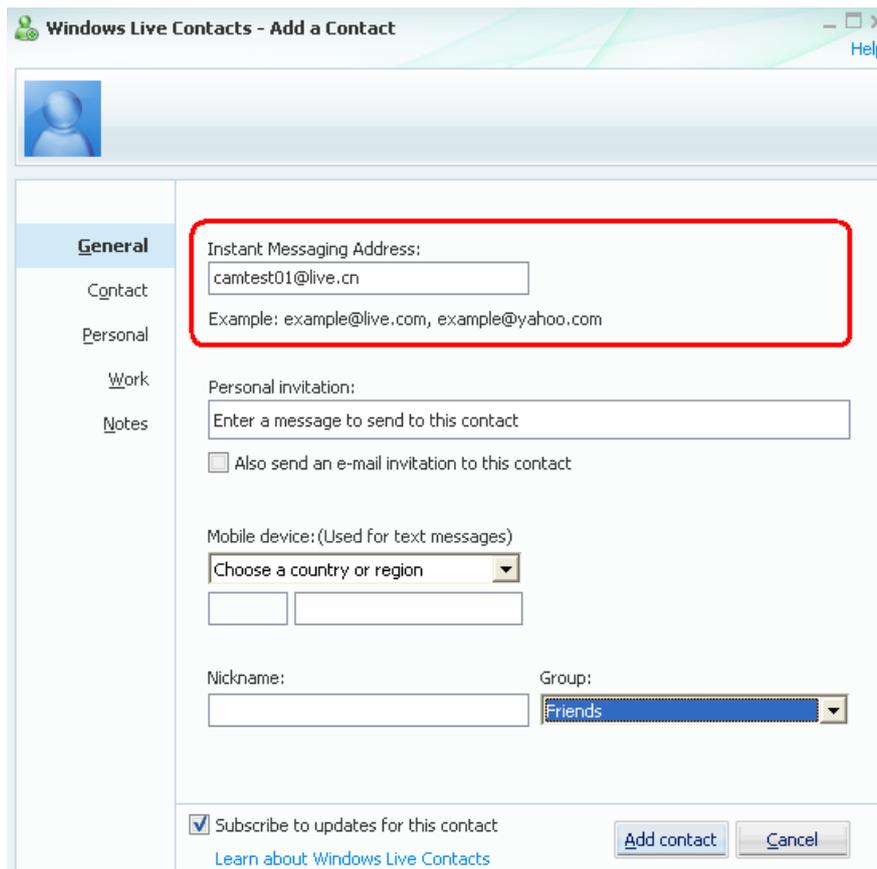
1. Make sure the desired computer with MSN installed. Log into the MSN.
2. Make sure the MSN view plugin is installed.

This plugin is embedded in IntelligentIPInstallerSetup(TPLink)-1.1.16.09.exe and will be installed automatically when you install IntelligentIPInstallerSetup(TPLink)-1.1.16.09.exe.

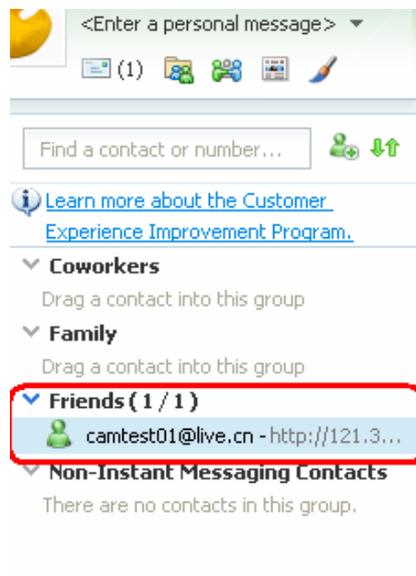
▲ You can download the IntelligentIPInstallerSetup(TPLink)-1.1.16.09.exe here:

http://www.tp-link.com/download/ipcamera/Intelligent_IP_Installer.rar

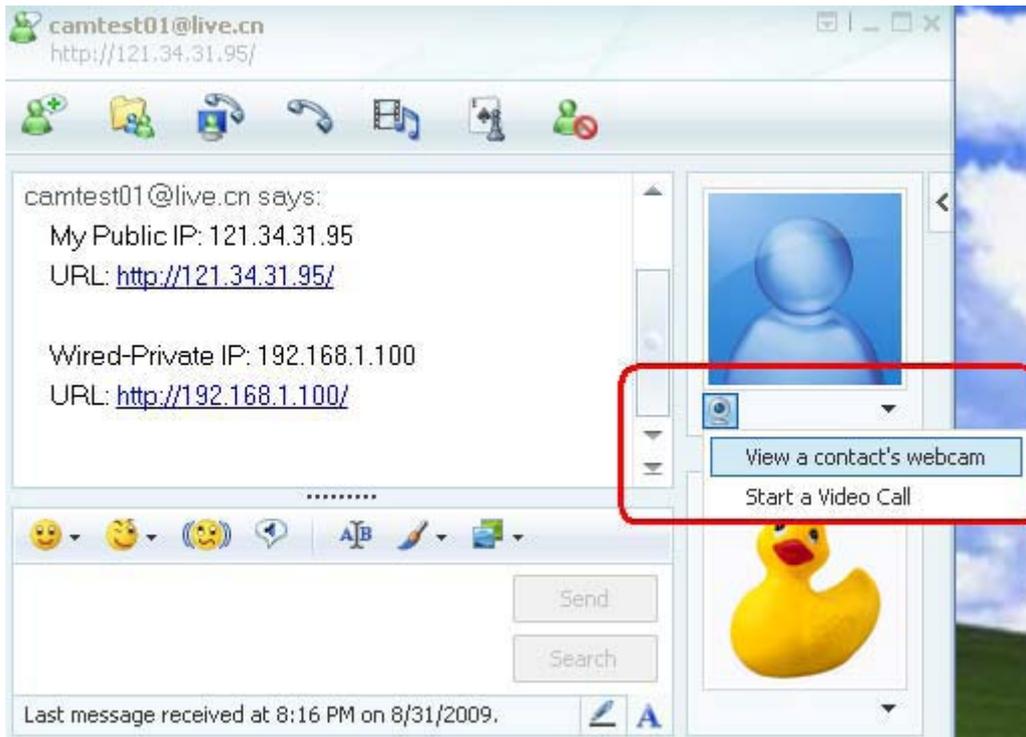
3. Log into your MSN account.
4. Add the camera's MSN account as a contact.



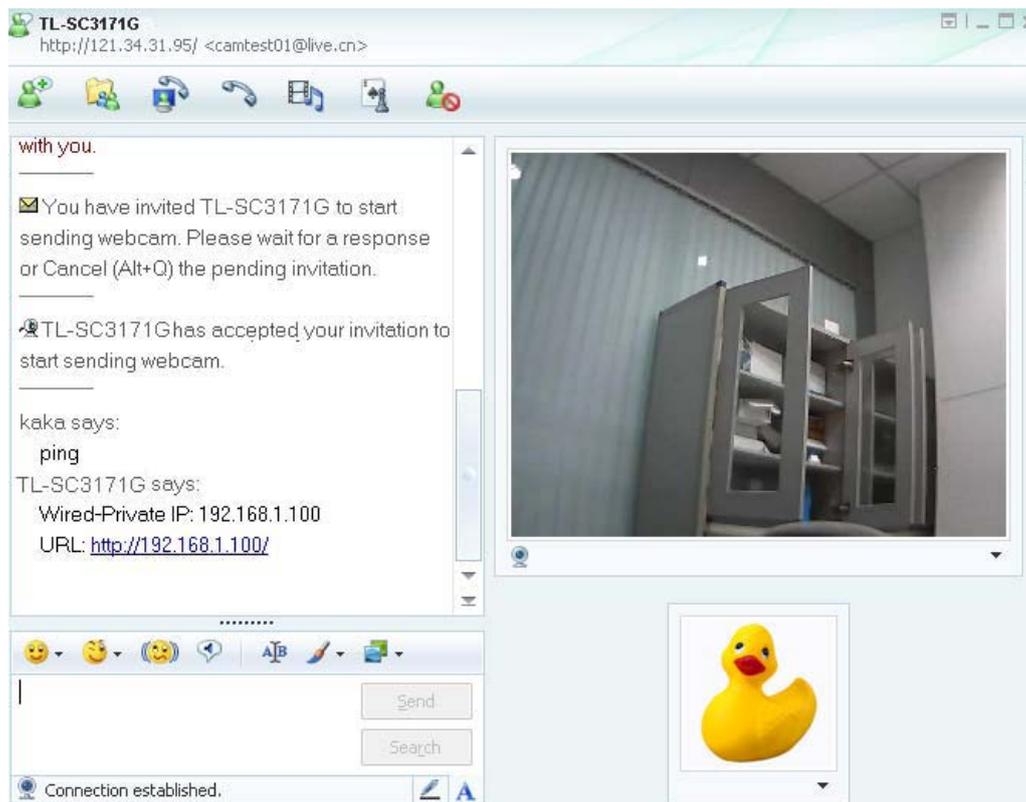
5. Check its status. Normally it should be online.



6. Click the camera icon  and select **View a contact's webcam** to view the video.

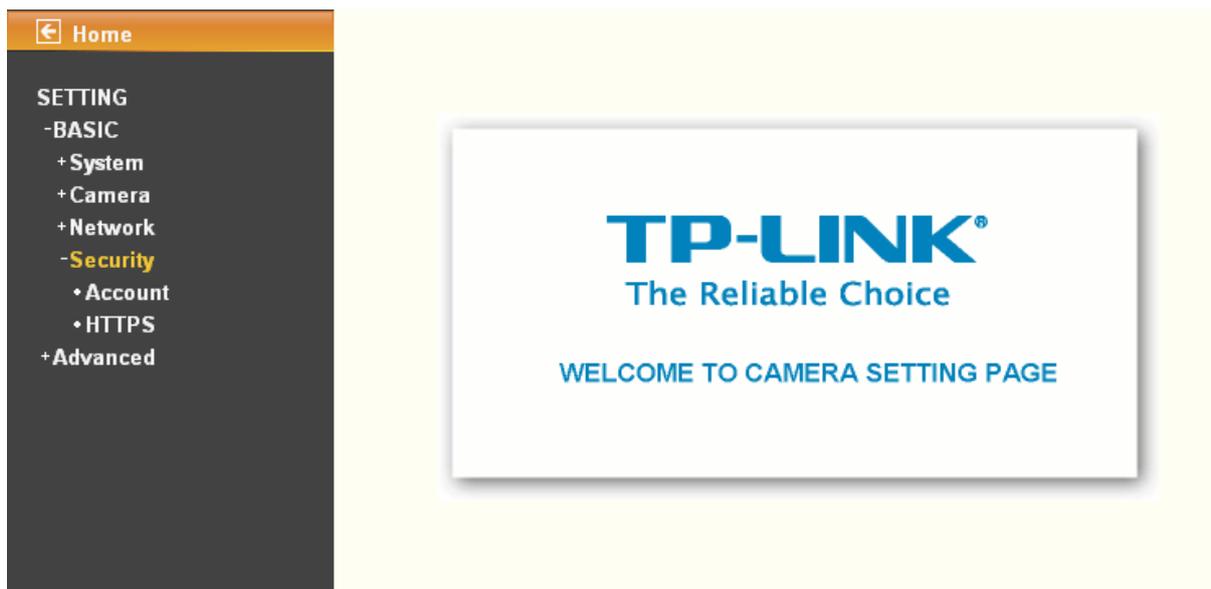


7. Wait for a moment, and you will see the video captured by your IP Camera.



6.4 Security

Click **Security** to display the submenus including **Account** and **HTTPS**.



6.4.1 Account

The device default account and password setting is “admin / admin”. That means everyone who knows IP address can access the device including all configuration. Therefore, it is necessary to assign a password if the device is intended to be accessed by others.

User ID	User name	Password	Re-type Password	Viewer mode
Administrator	admin	•••••	•••••	Admin
User 1				Admin
User 2				Admin
User 3				Admin
User 4				Admin
User 5				Admin
User 6				Admin
User 7				Admin
User 8				Admin
User 9				Admin

Viewer authentication On Off

OK Cancel

- **User name:** Set a user name between 4-16 characters.
- **Password:** Set a password between 4-16 characters.
- **Re-type Password:** Re-type the password to confirm.
- **Viewer Mode:** Set the user mode among Admin, Operator, and Viewer. Different viewer mode has different limits of authority.
 - The Admin mode has all authority of configuration.

- The Operator mode can not only view the Live View but also control the PTZ (apply in speed dome).
 - The Viewer mode only can view the Live View.
- **Viewer Authentication:** Select whether the authentication is needed when users access to live view.
- **On:** Authentication is required to let different users have different levels of permission to access the camera view.
 - **Off:** Authentication is not required to access the camera. Click Off and select one (among **Admin**, **Operator** and **Viewer**) from the pull-down list as default, then all users can view directly the video with the default permission without entering username and password.

* If you want to have a higher authority than the default, you can key in appropriate username and password in the dialog box that pops up when performing advanced operations that are only allowed by the higher authority.

6.4.2 HTTPS

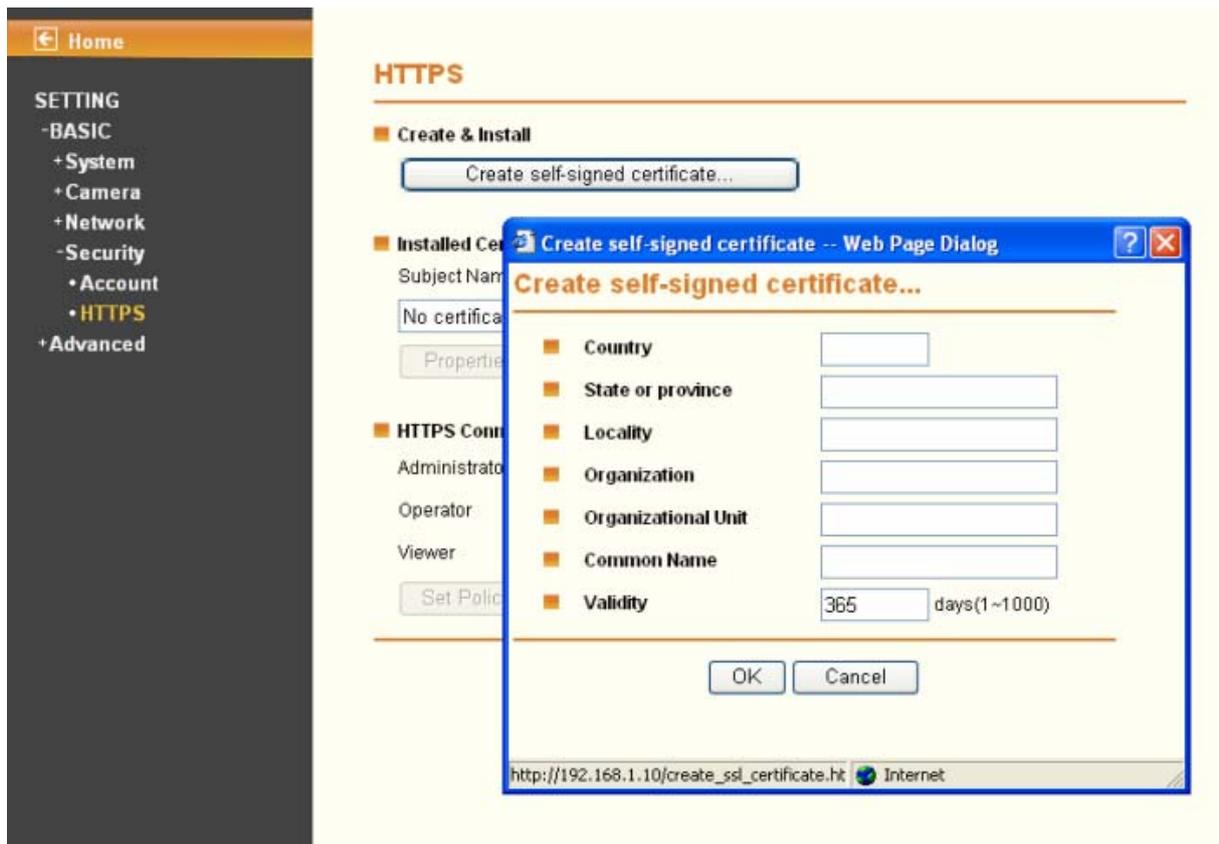
HTTPS is a URL scheme used to indicate a secure HTTP connection. It is syntactically identical to the http:// scheme normally used for accessing resources using HTTP. Using https://URL/ with a different default TCP port (443) and an additional encryption / authentication layer between the HTTP and TCP, you can use the IP camera through HTTPS easily by using “https://” instead of “http://”.

The screenshot shows the HTTPS configuration page. On the left is a navigation menu with 'SETTING' and sub-items: '-BASIC', '+System', '+Camera', '+Network', '-Security', '+Account', '+HTTPS' (highlighted), and '+Advanced'. The main content area is titled 'HTTPS' and contains three sections:

- Create & Install:** A button labeled 'Create self-signed certificate...'.
- Installed Certificate:** A section for managing certificates. It shows 'Subject Name' as 'No certificate installed.' with 'Properties...' and 'Remove' buttons.
- HTTPS Connection Policy:** A section for setting policies for different user levels. It has three dropdown menus for 'Administrator', 'Operator', and 'Viewer', all currently set to 'HTTP'. A 'Set Policy' button is at the bottom.

- **Create & Install:** Create a self-signed certificate for HTTPS to recognize.
- **Installed Certificate:** Display or remove the properties of the installed certificate.
- **HTTPS Connection Policy:** Set HTTPS connection policy for different level of users.

To use the HTTPS encryption, please set up “Create self-signed certificate” for the first time you use the HTTPS function, and then set up the connection policy for different users.

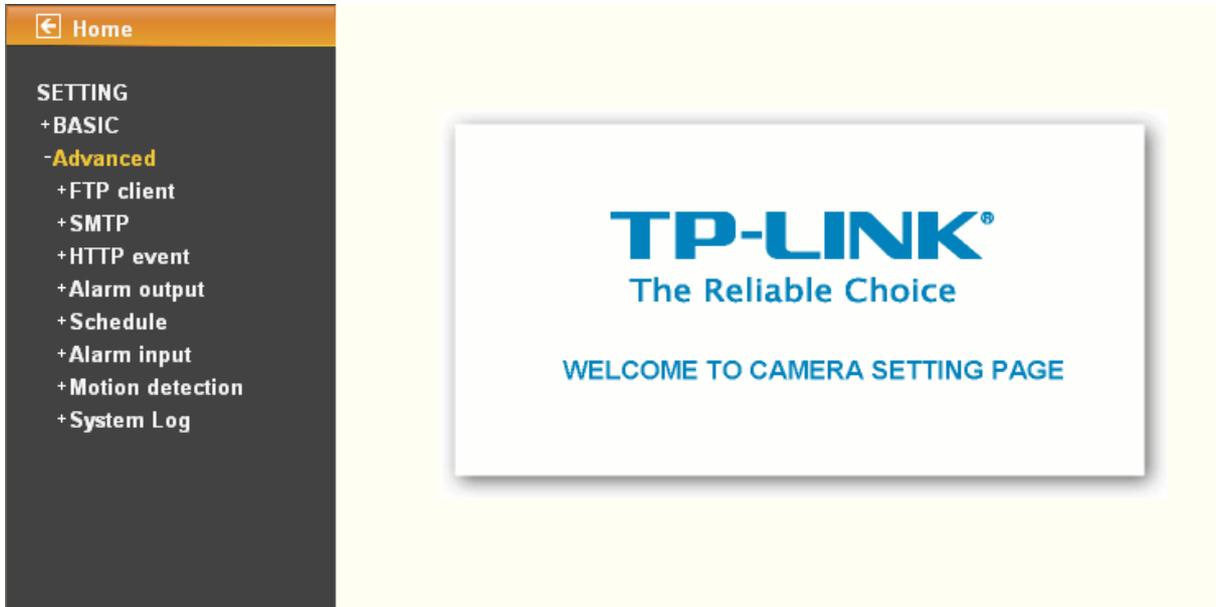


Note:

- 1) When enable HTTPS with RTSP on mode, the IP Camera only protect the setting such as username and password and do not protect video and audio.
- 2) When enable HTTPS with RTSP off mode, the IP Camera will protect all setting including video and audio.

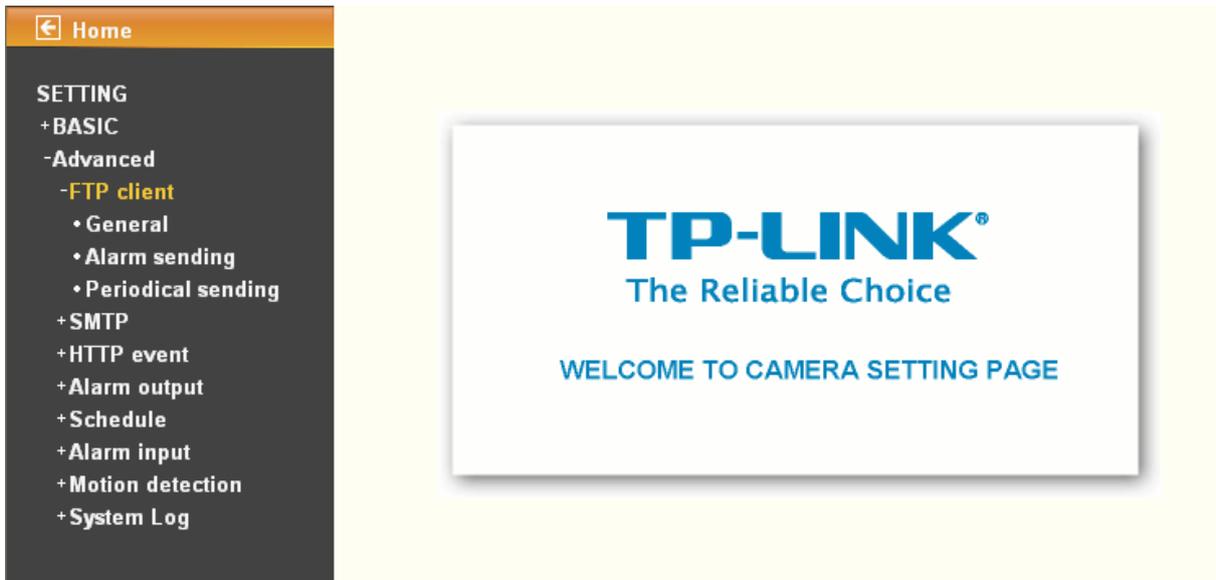
Chapter 7 Setting-Advance

Click **Advance** to display the submenus including **FTP client**, **SMTP**, **HTTP event**, **Alarm output**, **Schedule**, **Alarm input**, **Motion detection** and **System Log**.



7.1 FTP client

Use this menu to set up for capturing and sending images to an FTP server. By using FTP client function, you can send the image and video file which has been shot and recorded linked with the built-in motion detection function to FTP server. FTP client setting menu is composed of three items, **General**, **Alarm sending** and **Periodical sending**.



7.1.1 General

The screenshot shows the 'General' settings page for the FTP client. On the left is a sidebar menu with the following items: Home, SETTING, +BASIC, -Advanced, -FTP client, •General (selected), •Alarm sending, •Periodical sending, +SMTP, +HTTP event, +Alarm output, +Schedule, +Alarm input, +Motion detection, and +System Log. The main content area is titled 'General' and features a section for 'FTP client' with a radio button set to 'On'. Below this are four text input fields: 'FTP server name', 'User name', 'Password', and 'Re-type password'. At the bottom of the section is a 'Passive mode' radio button set to 'Off'. Three buttons are located at the bottom of the page: 'OK', 'Cancel', and 'Test'.

Select **On** when you use FTP function. The FTP client setting page will appear.

Select **Off** when you do not wish to use the FTP client function.

Note:

The frame rate and operability on the main viewer may decrease while a file is being transmitted by the FTP client function.

- **FTP server name:** Type the FTP server name to upload still images up to 64 characters, or the IP address of the FTP server.
- **User name:** Type the user name for the FTP server.
- **Password:** Type the password for the FTP server.
- **Retype password:** To confirm the password, type the same characters as you have typed in the Password box.
- **Passive mode:** Set whether you use the passive mode of FTP server or not when connecting to FTP server. Select **On** to connect to FTP server using the passive mode.

7.1.2 Alarm sending

Set to forward the image and video file to the specified FTP server linked with the alarm detection by the built-in motion detection function. Select On to send the image file to FTP server linked with the alarm detection.

Home

SETTING

- +BASIC
- Advanced
 - FTP client
 - General
 - **Alarm sending**
 - Periodical sending
- +SMTP
- +HTTP event
- +Alarm output
- +Schedule
- +Alarm input
- +Motion detection
- +System Log

Alarm sending

■ Alarm sending On Off

Remote path

Image file name

Suffix Date Time Sequence number

Sequence number clear

Alarm Motion detection

Alarm input

Effective Period Always

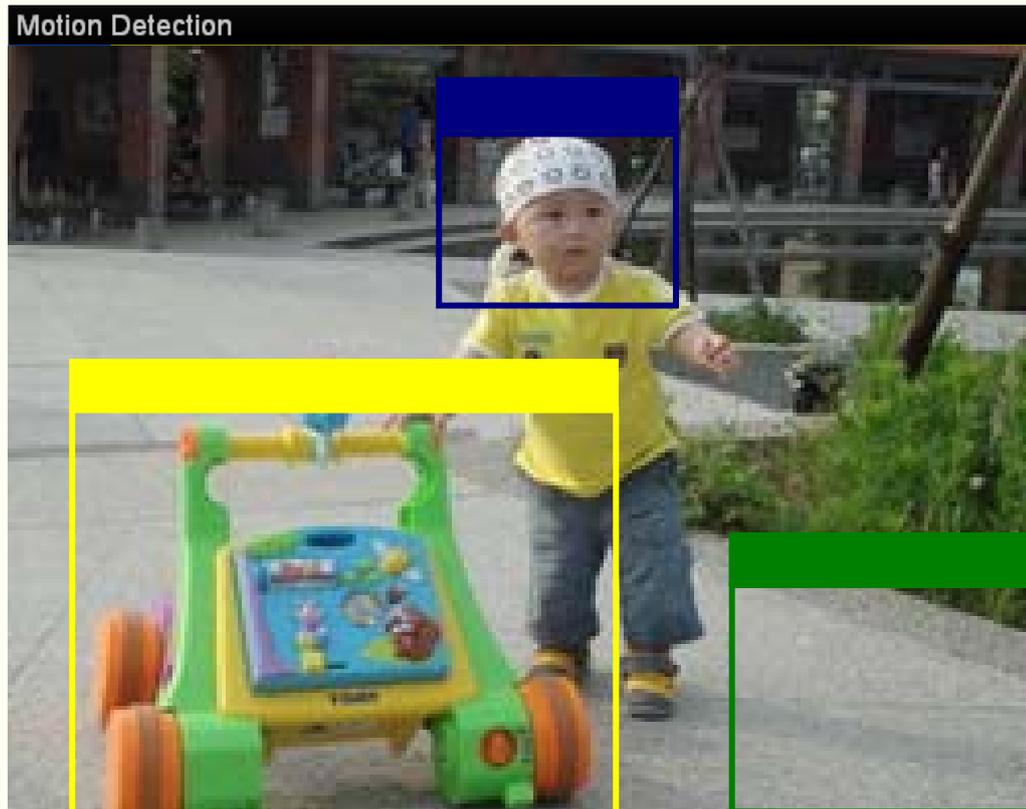
Schedule

- **Remote Path:** Type the path to the destination in FTP server up to 64 characters.
- **Image File Name:** Type the file name you want to assign to the images when sending to the FTP server. You can use up to 10 alphanumeric characters, - (hyphen) and _ (underscore) for naming.
- **Suffix:** Select a suffix to add to the file name
 - **Date & time:** The date & time suffix is added to the Image file name. The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - **Sequence number:** A consecutive number of 10 digits between 0000000001 and 4294967295 and two fixed digits 00 is added to the Image file name.
 - **Sequence number clear:** Click **Clear** and the suffix of the sequence number returns to 1.
- **Alarm**
 - **Motion Detection:** Click it for using Motion Detection function as a sensor. You can set motion detection function on the **motion detection page**.

Motion detection

Setting

<input checked="" type="checkbox"/> Motion detection 1	<input checked="" type="checkbox"/> Motion detection 2	<input checked="" type="checkbox"/> Motion detection 3
Threshold <input type="text"/>	Threshold <input type="text"/>	Threshold <input type="text"/>
Sensitivity <input type="text"/>	Sensitivity <input type="text"/>	Sensitivity <input type="text"/>



Note:

- 1) You can set motion detection on **motion detection page** (Please go to "**Setting** → **Advance** → **Motion detection** → **Setting**"). For more details, you can check [Section 7.7](#).
 - 2) **Motion Detection** works only when the MPEG4 function is On and the Cropping is set to Off.
- **Alarm Input:** Select the connected alarm. Sensor input1: The external sensor which is connected to sensor input1 of the alarm input.

Alarm input

The screenshot shows a dialog box titled "Setting" with a sub-section "Alarm input". It contains a checkbox for "Sensor input 1" which is currently unchecked. Below it, the "Trigger condition" is set to "High" (indicated by a selected radio button) and "Low" (indicated by an unselected radio button). At the bottom of the dialog are two buttons: "OK" and "Cancel".

Note:

You can set the alarm input function at **Alarm Input** page. (Please go “**Setting** → **Advance** → **Alarm Input** → **Setting**”). For more details, you can check [Section 7.6](#).

- **Effective period:** Set the period when the periodical sending is effective.
 - **Always:** The periodical sending is always effective.
 - **Schedule:** You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Schedule

The screenshot shows a dialog box titled "Setting" with a sub-section "Schedule selection". At the top, there is a dropdown menu set to "FTP - Alarm". Below it, the "Start time" is set to "00:00" and the "End time" is set to "24:00". The main part of the dialog is a grid for selecting days of the week. Each day (Mon, Tue, Wed, Thu, Fri, Sat, Sun) has a dropdown menu currently set to "(Empty)", an "Add" button, and a "Delete" button. To the right of these is a 24-hour timeline with blue bars indicating the active period for each day. At the bottom, there is a checked checkbox labeled "Use the same time schedule every day." and two buttons: "OK" and "Cancel".

Note:

You can set schedule function on **Schedule** page. (Please go to “**Setting** → **Advance** → **Schedule** → **Setting**”) For more details, you can check [Section 7.5](#).

7.1.3 Periodical sending

You can set to send an image file to FTP server periodically by selecting **On** to send the image file to FTP server linked with setting period.

- **Remote Path:** Type the path to storage location of FTP server which you have authorized.
- **Image file name:** Type the file name of the image sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).
- **Suffix:** Select a suffix to be added to the file name sent by SMTP.
 - **None:** The name of the sent file will be the Image file name.
 - **Date Time:** The date time suffix is added to the Image file name. The date time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - **Sequence number:** A consecutive number is added to the Image file name.
 - **Sequence number clear:** Click **Clear** and the suffix of the sequence number returns to 1.
- **Interval:** Set the time interval of the period sending. Min value is 1 min and Max value is 24 hour.
- **Effective period:** Set the period when the periodical sending is effective.
 - **Always:** The periodical sending is always effective.
 - **Schedule:** You can specify the period when the periodical sending is effective in the schedule setting in the other section.

Schedule

Setting

■ Schedule selection FTP - Alarm

Start time 00:00 - End time 24:00

Mon	(Empty)	Add	Delete	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Tue	(Empty)	Add	Delete	
Wed	(Empty)	Add	Delete	
Thu	(Empty)	Add	Delete	
Fri	(Empty)	Add	Delete	
Sat	(Empty)	Add	Delete	
Sun	(Empty)	Add	Delete	

Use the same time schedule every day.

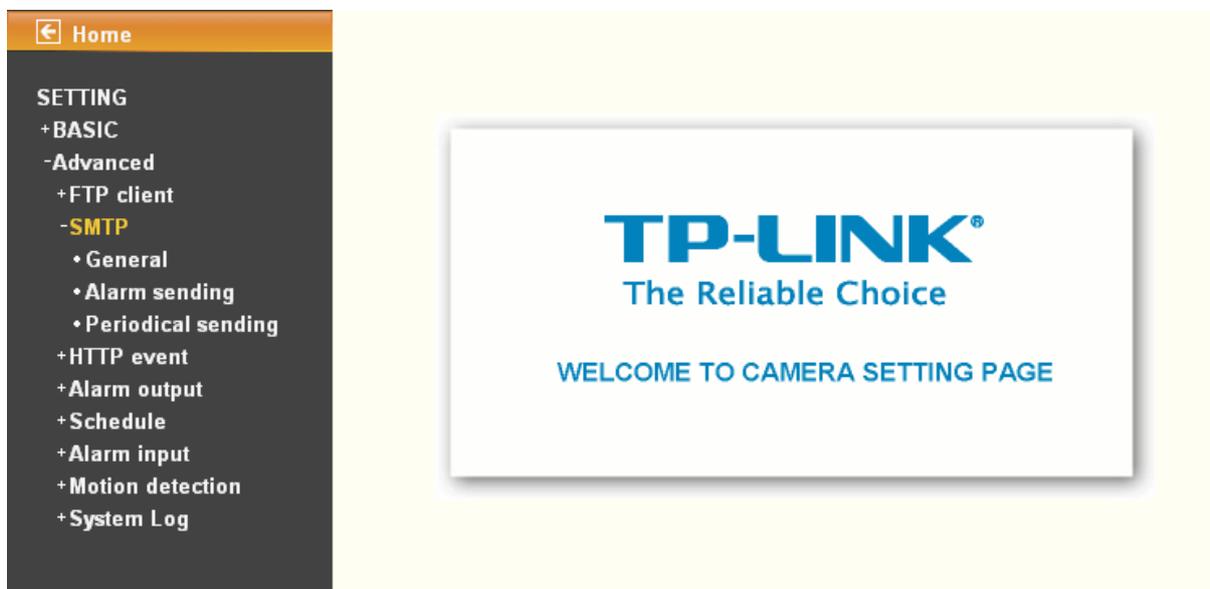
OK Cancel

Note:

You can set schedule function on **Schedule** page. (Please go to “**Setting** → **Advance** → **Schedule** → **Setting**”) For more details, you can check [Section 7.5](#).

7.2 SMTP

Set the SMTP menu when you want to send an image via e-mail. By using Mail (SMTP) function, you can send a mail with attached image and video which has been shot linked with the built-in motion detection function. The image file can also be sent periodically. E-Mail (SMTP) setting menu is composed of three items, **General**, **Alarm sending** and **Periodical sending**.



7.2.1 General

Select **On** when you use the SMTP function. The common setting options are displayed below. Select **Off** if you do not wish to use the e-Mail (SMTP) function.

Note:

The Setting of **General** will be the same as the setting of IP Notification (Please check “**SETTING** → **BASIC** → **Network** → **IP Notification**”).

- **SMTP server name:** Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.
- **SMTP Server Port:** You can set port number from 1~65535 according to your mail server. The default value is 25.
- **Security setting:** Check SSL box if the mail server you use has security restriction.

Note:

If you use g-mail as your mail server, you should set 587 as your port number and check SSL box.

- **Authentication:** Select the authentication required when you send an email.
 - Off: Select it if no authentication is necessary when an email is sent.
 - On: When authentication is necessary an e-mail is sent, select one of the authentication methods from the followings.

General

e-Mail (SMTP) On Off

SMTP server name

SMTP server port (1 ~ 65535) SSL

Authentication On Off

SMTP POP before SMTP

POP server name

User name

Password

Recipient e-Mail address

Administrator e-Mail address

Subject

Message

OK Cancel Test

- **SMTP:** Select it if SMTP authentication is necessary when an e-mail is sent.
- **POP before SMTP:** Select if POP before SMTP authentication is necessary when an e-mail is sent.

Note:

When you set to On, be sure to select either or both SMTP or / and POP before SMTP.

- **POP server name:** When the **POP before SMTP** is selected in Authentication, type the POP (receiving mail) server name up to 64 characters, or type the IP address of the POP server. This setting is necessary when the SMTP server which sends e-mails performs authentication using the POP user account.
- **User name, Password:** Type the user name and Password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.
- **Recipient e-mail address:** Type the recipient e-Mail address up to 64 characters. You can specify up to three recipient E-mail addresses.
- **Administrator e-mail address:** Type the Administrator e-Mail address up to 64 characters. This address is used for reply mail and sending system messages from the SMTP server.
- **Subject:** Type the subject/title of the e-Mail up to 64 characters. With respect to mail which is sent according to the alarm detection when Alarm sending of the alarm tab is set to On, the characters standing for the sensor type added to the subject.
- **Message:** Type the text of the E-mail up to 384 characters. (A line break is equivalent to 2 characters.)

7.2.2 Alarm sending

Set to send the mail with connection to the alarm detection by the external sensor input or by the built-in motion detection function. Select **On** to send the image and file to SMTP server linked with the alarm detection.

Alarm sending

Alarm sending On Off

File attachment On Off

Image file name

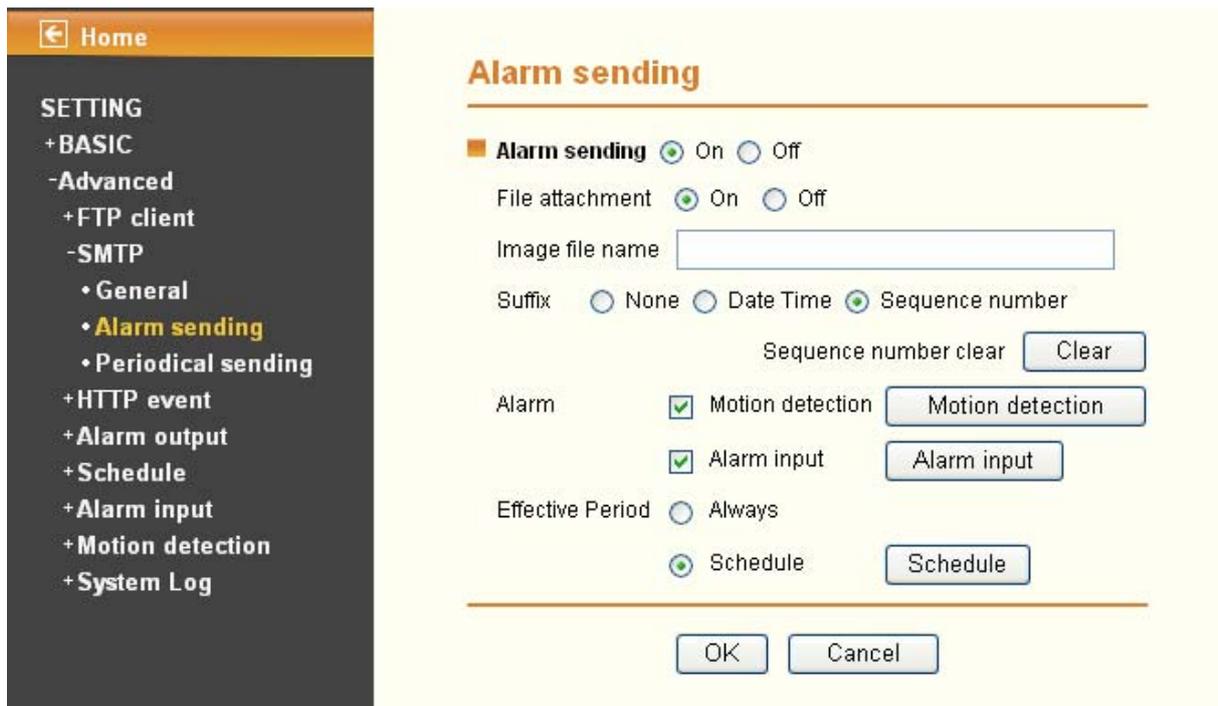
Suffix None Date Time Sequence number

Sequence number clear

Alarm Motion detection Alarm input

Effective Period Always Schedule

- **Alarm sending:** Select **On** to set to send mail with connection to the alarm detection.
- **File attachment:** Set whether an image file is attached to the mail sent or not. When **On** is selected, the image file made by the settings below is attached. When **Off** is selected, only the message is sent.
- **Image file name:** Type the file name you want to assign to the image to attach a mail. You can use up to 10 alphanumeric, - (hyphen) and _ (underscore) for naming.
- **Suffix:** Select a suffix to add to the file name
 - **Date Time:** The date time suffix is added to the Image file name. The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - **Sequence number:** A consecutive number of 10 digits between 0000000001 and 4294967295 and two fixed digits 00 is added to the Image file name.
 - **Sequence number clear:** Click **Clear** and the suffix of the sequence number returns to 1.



➤ **Alarm**

- **Motion Detection:** Click it for using **Motion Detection** function as a sensor. You can set motion detection function on the motion detection page.

Setting

<input checked="" type="checkbox"/> Motion detection 1	<input checked="" type="checkbox"/> Motion detection 2	<input checked="" type="checkbox"/> Motion detection 3
Threshold	Threshold	Threshold
Sensitivity	Sensitivity	Sensitivity



Note:

- 1) You can set motion detection on **motion detection page** (Please go to “**Setting** → **Advance** → **Motion detection** → **Setting**”). For more details, you can check [Section 7.7](#).
 - 2) **Motion Detection** works only when the MPEG4 function is On and the Cropping is set to Off.
- **Alarm input:** Select the connected alarm. **Sensor input1:** The external sensor which is connected to sensor input1 of the alarm input.

Alarm input

Setting

■ **Alarm input**

Sensor input 1

Trigger condition High Low

OK Cancel

Note:

You can set the alarm input function at alarm input page (Please go “**Setting** → **Advance** → **Alarm input** → **Setting**”). For more details, you can check [Section 7.6](#).

➤ **Effective period:** Set the period when the periodical sending is effective.

- **Always:** The periodical sending is always effective.
- **Schedule:** You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Schedule

Setting

■ **Schedule selection** FTP - Alarm

Start time 00:00 - End time 24:00

Mon (Empty) Add Delete 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Tue (Empty) Add Delete

Wed (Empty) Add Delete

Thu (Empty) Add Delete

Fri (Empty) Add Delete

Sat (Empty) Add Delete

Sun (Empty) Add Delete

Use the same time schedule every day.

OK Cancel

Note:

You can set schedule function on **Schedule page**. (Please go to “**Setting** → **Advance** → **Schedule** → **Setting**”) For more details, you can check [Section 7.5](#).

7.2.3 Periodical sending

You can set to send an image file by SMTP server periodically by selecting **On** to send the image file by SMTP server linked with setting period.

- **Image file name:** Type the file name of the image sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).
- **Suffix:** Select a suffix to be added to the file name sent by SMTP.
 - **None:** The name of the sent file will be the Image file name.
 - **Date Time:** The date & time suffix is added to the Image file name. The date & time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits), and consecutive number (2 digits), thus 14-digit number is added to the file name.
 - **Sequence number:** A consecutive number is added to the Image file name.
 - **Sequence number clear:** Click **Clear** and the suffix of the sequence number returns to 1.
- **Interval:** Set the time interval of the period sending. Minimum value is 30 min and Maximal value is 24 hour.
- **Effective period:** Set the period when the periodical sending is effective.
 - **Always:** The periodical sending is always effective.
 - **Schedule:** You can specify the period when the periodical sending is effective in the schedule setting in the other section. Please check “**SETTING** → **BASIC** → **Advance** → **Schedule** → **Setting**”.

7.3.1 General

The screenshot shows the 'General' settings page for the HTTP event. The left sidebar contains a menu with 'General' selected. The main area has the following fields:

- HTTP event:** On (selected), Off
- URL:** [Empty text box]
- Port:** 80
- User ID:** [Empty text box]
- Password:** [Empty text box]
- Proxy server name:** [Empty text box]
- Proxy port number:** [Empty text box]
- Proxy user ID:** [Empty text box]
- Proxy password:** [Empty text box]

Buttons at the bottom: OK, Cancel, Test.

- **HTTP event:** Set up the HTTP server URL, port, User ID, Password, and Proxy Server settings.

The screenshot shows the 'General' settings page with example values. A red oval highlights the URL, Port, User ID, and Password fields. The left sidebar is the same as in the previous screenshot. The main area has the following fields:

- HTTP event:** On (selected), Off
- URL:** 192.168.1.7/cgi-bin/operator/ptzset
- Port:** 80
- User ID:** admin
- Password:** *****
- Proxy server name:** [Empty text box]
- Proxy port number:** [Empty text box]
- Proxy user ID:** [Empty text box]
- Proxy password:** [Empty text box]

Buttons at the bottom: OK, Cancel, Test.

For example: URL: 192.168.1.7/cgi-bin/operator/ptzset

Note:

1. The setting of URL should be the same as CGI.
2. The example above is for reference only. For more details, please refer to SDK in the subdirectory of the IP camera product on our website <http://www.tp-link.com>.

7.3.2 Alarm sending

Set to send the mail with connection to the alarm detection by the built-in motion detection function. Select **On** to send the image and audio file to HTTP server linked with the alarm detection.

Alarm sending

Alarm sending On Off

Alarm Motion detection
Parameter
Message

Alarm input
Parameter
Message

Effective Period Always Schedule

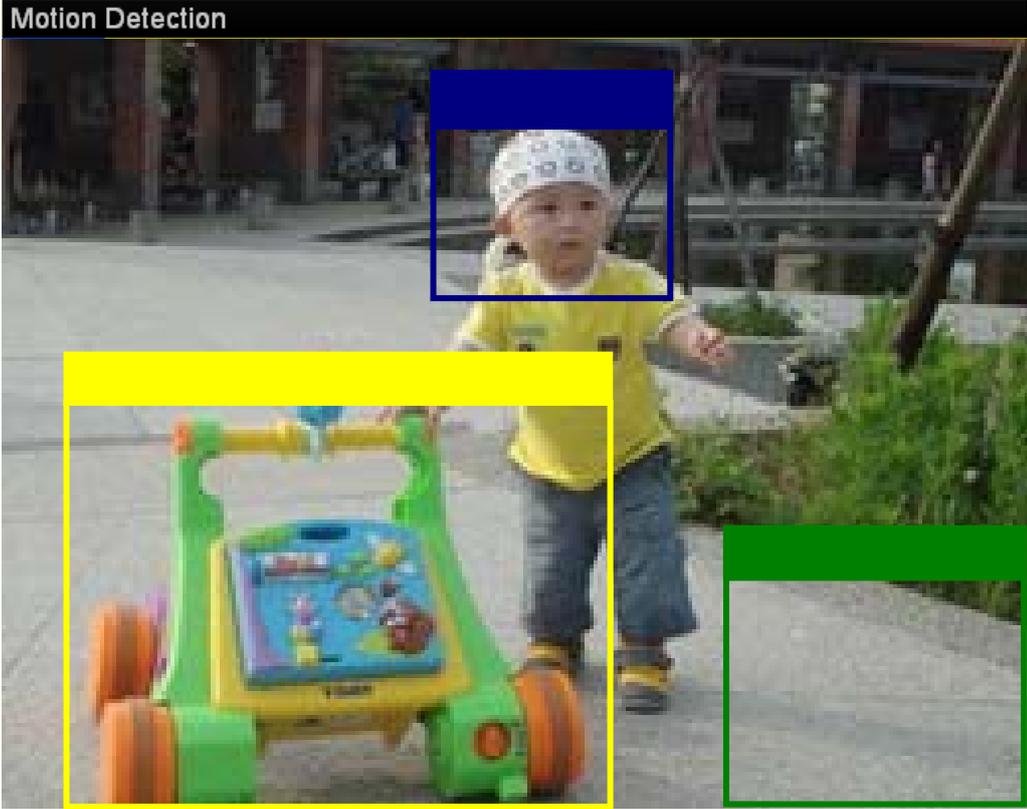
Alarm sending: Select **On** to set to send command with connection to the alarm detection.

➤ Alarm

- **Motion detection:** Click it for using Motion Detection function as a sensor. You can set motion detection function on the motion detection function page.
 - ✓ **Parameter:** the parameter of CGI (defined in **Setting** → **Advance** → **HTTP event** → **General** → **URL**) is from your target device. For example, move=down.
 - ✓ **Message:** message will show up in the form of Message = PTZ down. If your target device didn't support the parameter of message, you can't see the message. So you can just take the message as a note. For example: PTZ down.

Setting

<input checked="" type="checkbox"/> Motion detection 1	<input checked="" type="checkbox"/> Motion detection 2	<input checked="" type="checkbox"/> Motion detection 3
Threshold	Threshold	Threshold
Sensitivity	Sensitivity	Sensitivity



OK Cancel

Note:

1. You can set motion detection on **motion detection page** (Please go to “**Setting** → **Advance** → **Motion detection** → **Setting**”). For more details, you can check [Section 7.7](#).
2. **Motion Detection** works only when the MPEG4 function is On and the Cropping is set to Off.
 - **Alarm input:** Select the connected alarm. **Sensor input1:** The external sensor which is connected to sensor input1 of the alarm input.
 - ✓ **Parameter:** the parameter of CGI (defined in URL of HTTP→General) is from your target device. For example, move=down.
 - ✓ **Message:** message will show up in the form of Message = PTZ down. If your target device didn't support the parameter of message, you can't see the message. So you can just take the message as a note. For example: PTZ down.

Alarm input

Setting

■ Alarm input

Sensor input 1

Trigger condition High Low

OK Cancel

Note:

You can set the alarm input function at alarm input page (Please go “**Setting** → **Advance** → **Alarm input** → **Setting**”). For more details, you can check [Section 8.6](#).

- **Effective period:** Set the period when the periodical sending is effective.
 - **Always:** The periodical sending is always effective.
 - **Schedule:** You can specify the period when the periodical sending is effective in the schedule setting in the other section.

Schedule

Setting

■ Schedule selection FTP - Alarm

Start time 00 : 00 - End time 24 : 00

Mon (Empty) Add Delete 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Tue (Empty) Add Delete

Wed (Empty) Add Delete

Thu (Empty) Add Delete

Fri (Empty) Add Delete

Sat (Empty) Add Delete

Sun (Empty) Add Delete

Use the same time schedule every day.

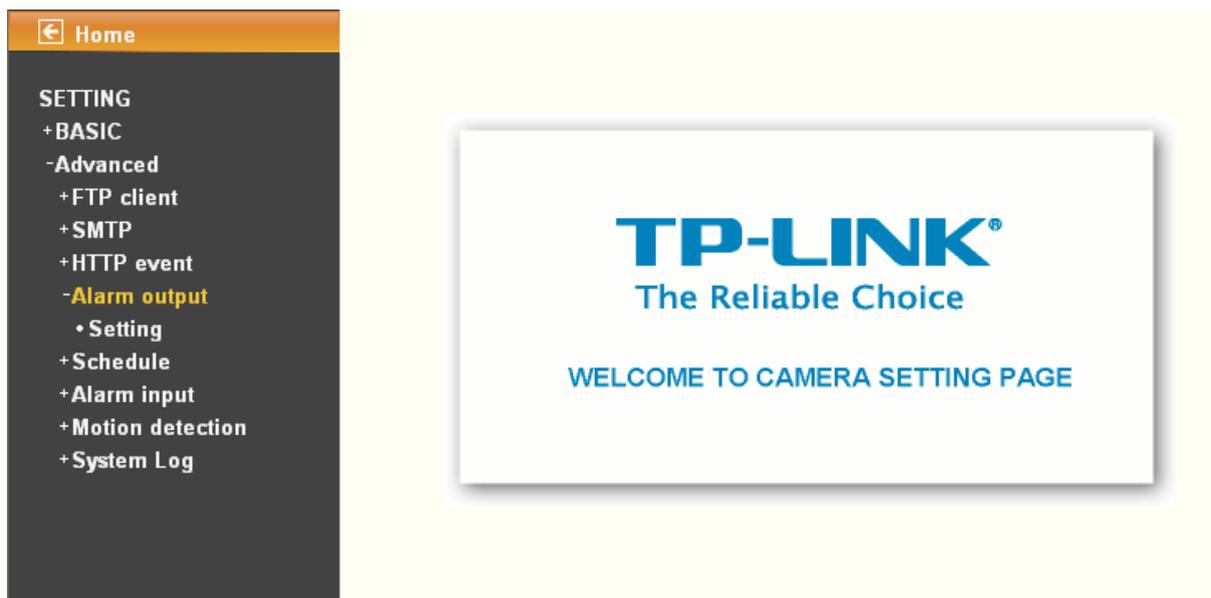
OK Cancel

Note:

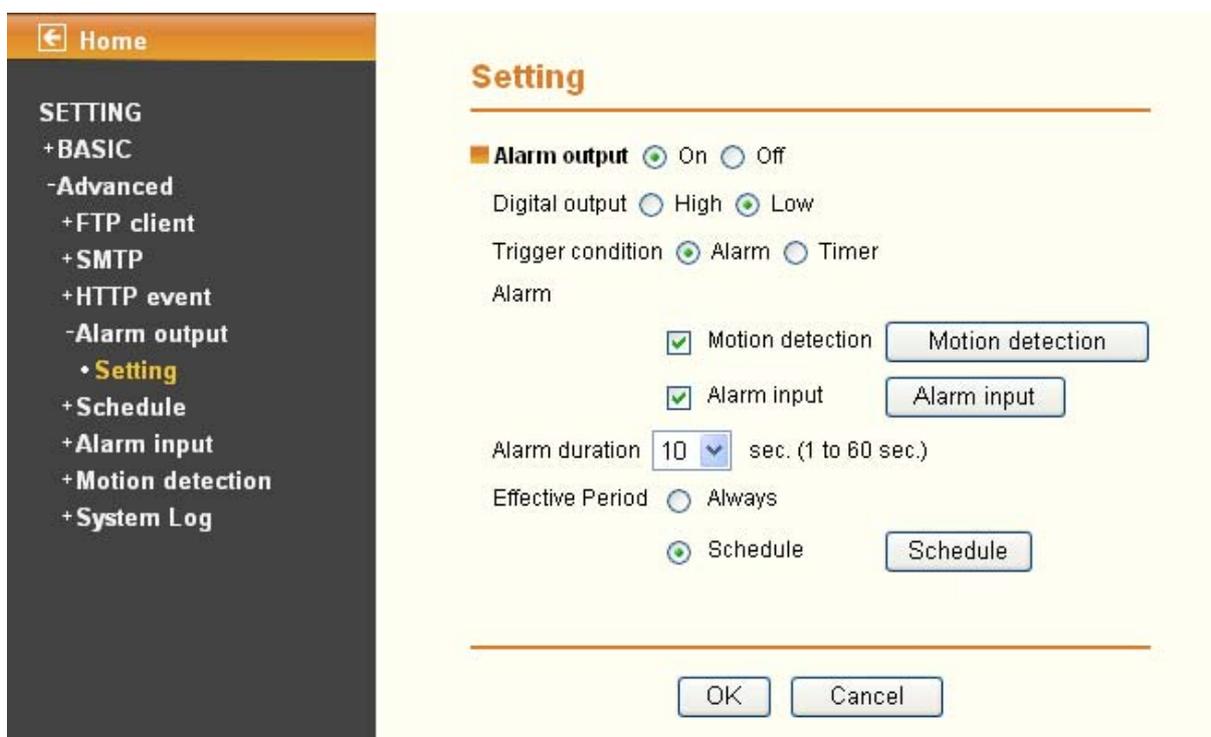
You can set schedule function on **Schedule page** (Please go to “**Setting** → **Advance** → **Schedule** → **Setting**”). For more details, you can check [Section 7.5](#).

7.4 Alarm output

When you click **Alarm output** on the Advance mode menu, the Alarm output setting menu appears. You can set in this menu to control the alarm out of I / O port on the rear of the device linked to the alarm detection and the timer.



7.4.1 Setting



Alarm output: To activate the Alarm output function, select **On**. When you do not use the Alarm output function, select **Off**.

- **Digital output:** Select High signal output and Low signal output as your alarm.
- **Trigger condition:** Select the mode of the Alarm output function. You can choose “**Alarm**” or “**Timer**”.
- **Alarm:** Controls alarm output by synchronizing with an external sensor input or the built-in activity detection function.
 - **Motion Detection:** Click it on for using **Motion Detection** function as a sensor. You can set motion detection function at the motion detection function page.

Motion detection

Setting

Motion detection 1

Threshold

Sensitivity

Motion detection 2

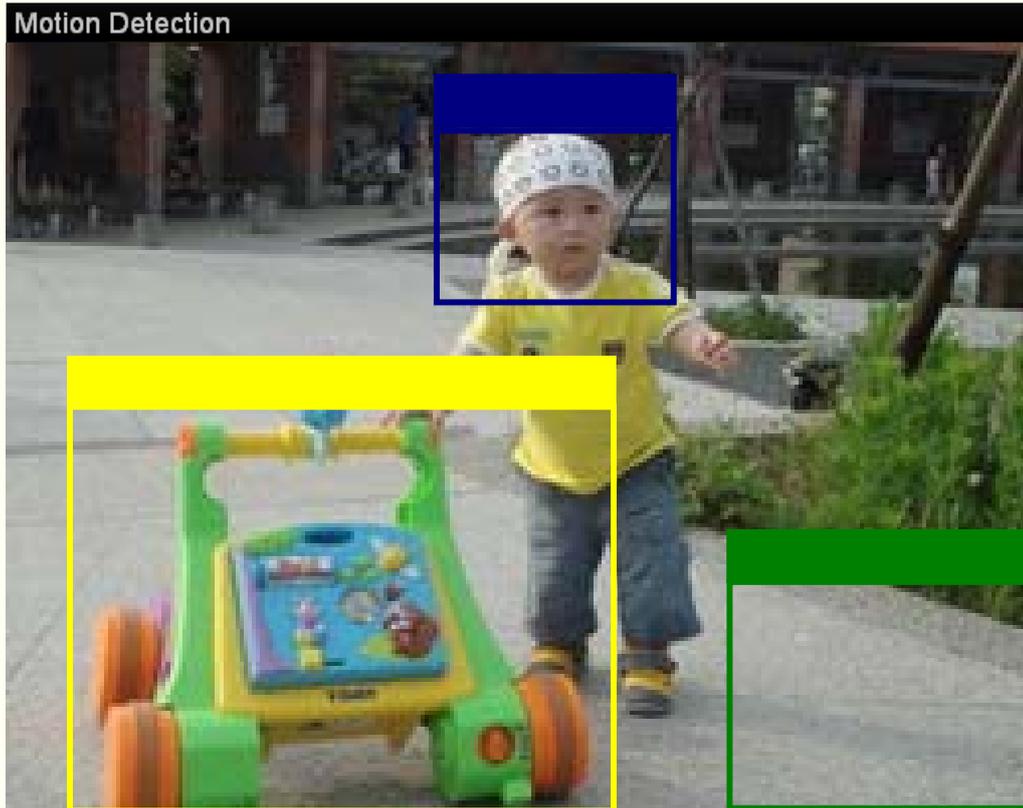
Threshold

Sensitivity

Motion detection 3

Threshold

Sensitivity



OK

Cancel

Note:

1. You can set motion detection on **motion detection page** (Please go to "**Setting** → **Advance** → **Motion detection** → **Setting**"). For more details, you can check [Section 7.7](#).
 2. **Motion Detection** works only when the MPEG4 function is On and the Cropping is set to Off.
- **Alarm Input:** Select the connected alarm. **Sensor input1:** The external sensor which is connected to sensor input1 of the alarm input.

Alarm input

Setting

■ **Alarm input**

Sensor input 1

Trigger condition High Low

OK Cancel

Note:

You can set the alarm input function at **alarm input** page (Please go “**Setting** → **Advance** → **Alarm input** → **Setting**”). For more details, you can check [Section 7.6](#).

- **Alarm duration:** There are up to 60 second options to choose for alarm duration interval.
- **Effective period:** Set the period when the periodical sending is effective.
 - **Always:** The periodical sending is always effective.
 - **Schedule:** You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Schedule

Setting

■ **Schedule selection** Alarm output - Alarm

Start time 00 : 00 - End time 24 : 00

Mon	(Empty)	Add	Delete	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Tue	(Empty)	Add	Delete																								
Wed	(Empty)	Add	Delete																								
Thu	(Empty)	Add	Delete																								
Fri	(Empty)	Add	Delete																								
Sat	(Empty)	Add	Delete																								
Sun	(Empty)	Add	Delete																								

Use the same time schedule every day.

OK Cancel

Note:

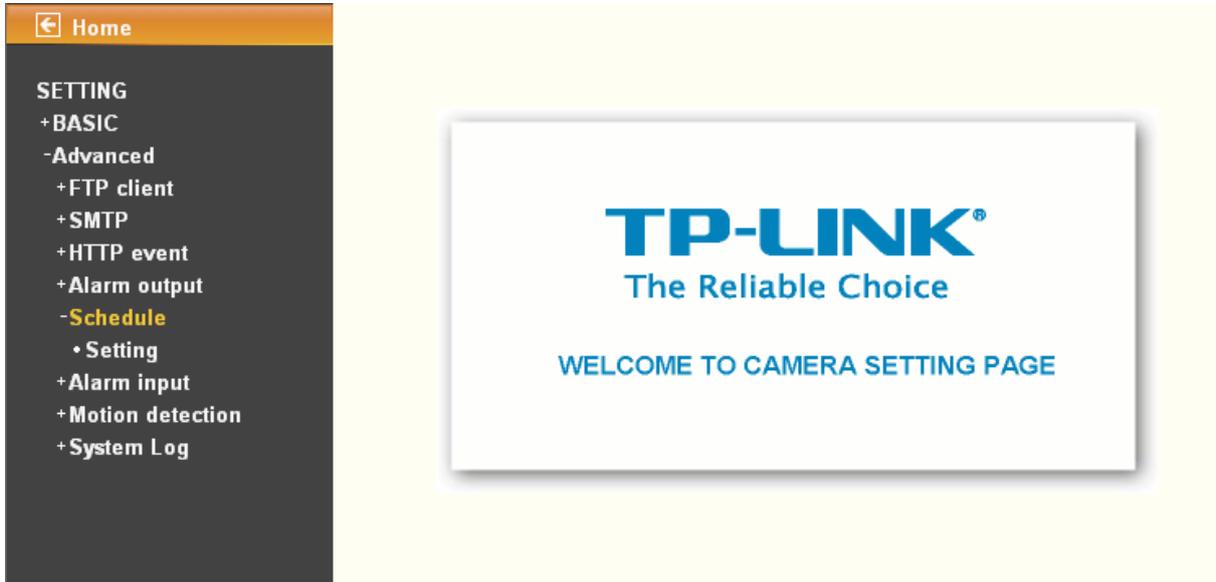
You can set schedule function at **schedule** page. (Please go “**Setting** → **Advance** → **Schedule** → **Setting**”) For more details, you can check [Section 7.5](#).

7.5 Schedule

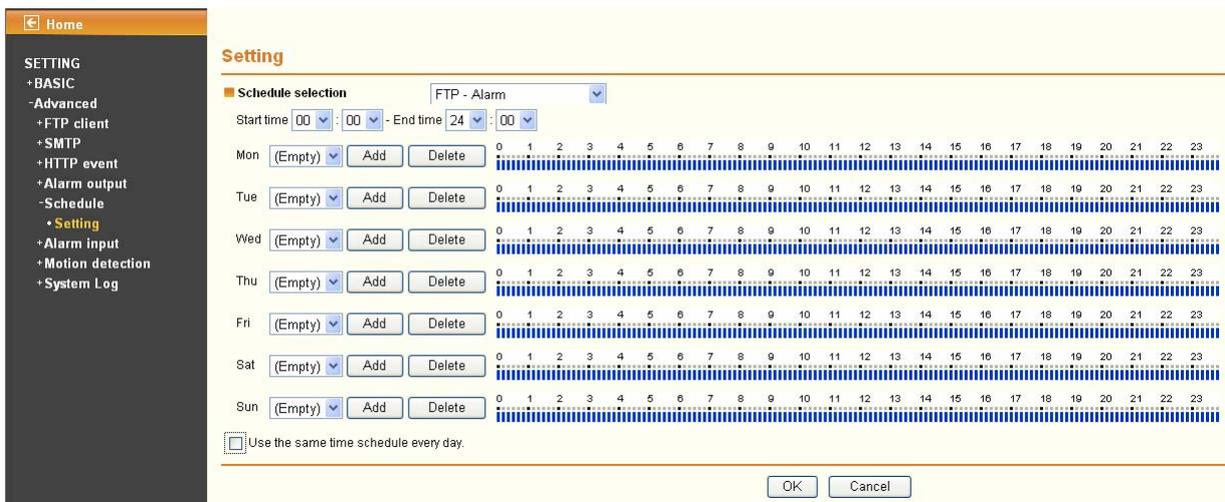
When you click **Schedule** on the **Advance** mode menu, the **Schedule setting** menu appears.

This is the same menu as the setting menu which is displayed when you click **Schedule** to set Effective period and **Schedule** in FTP client setting menu, e-Mail (SMTP) setting menu, HTTP Event setting menu and so on.

Example: When setting e-Mail (SMTP) (the alarm sending) in the **Schedule setting** menu.



7.5.1 Setting

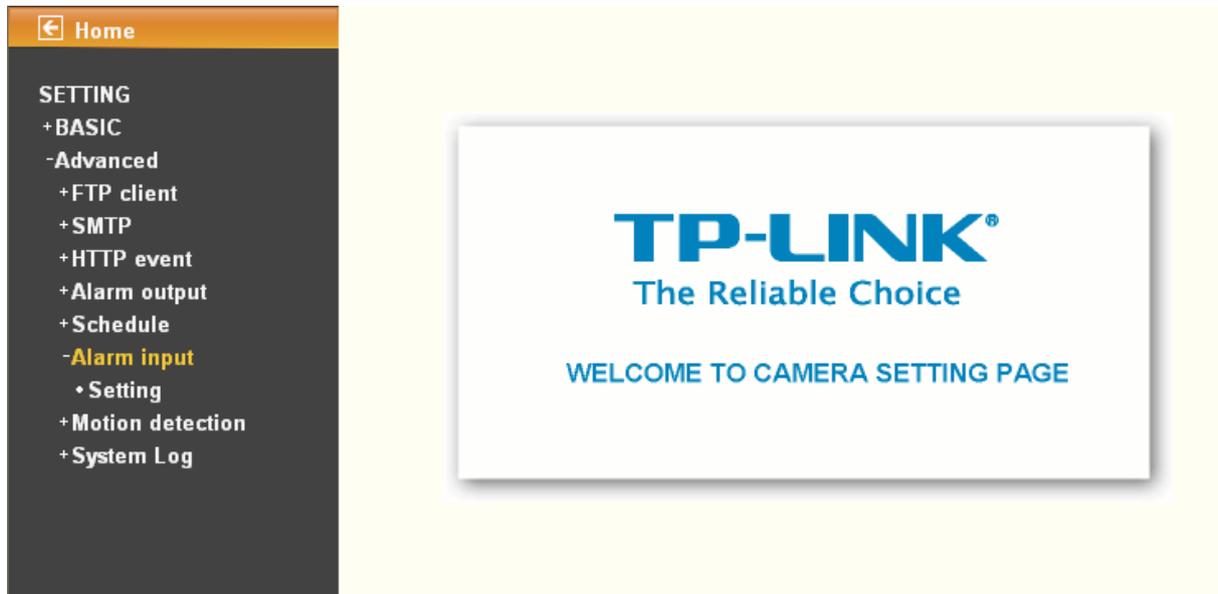


- **Schedule Selection:** Select the list box to specify the schedule you want to set.
 - FTP -Alarm
 - FTP - Periodical
 - e-Mail (SMTP) -Alarm
 - e-Mail (SMTP) -Periodical
 - HTTP event -Alarm
- **Mon (Monday) to Sun (Sunday):** The time period on the right of the checked day is the effective period of the schedule.
- **Start time/End time:** Specify the Start time and the End time.
- **Use the same time schedule every day:** When this is checked, the Start time and End time

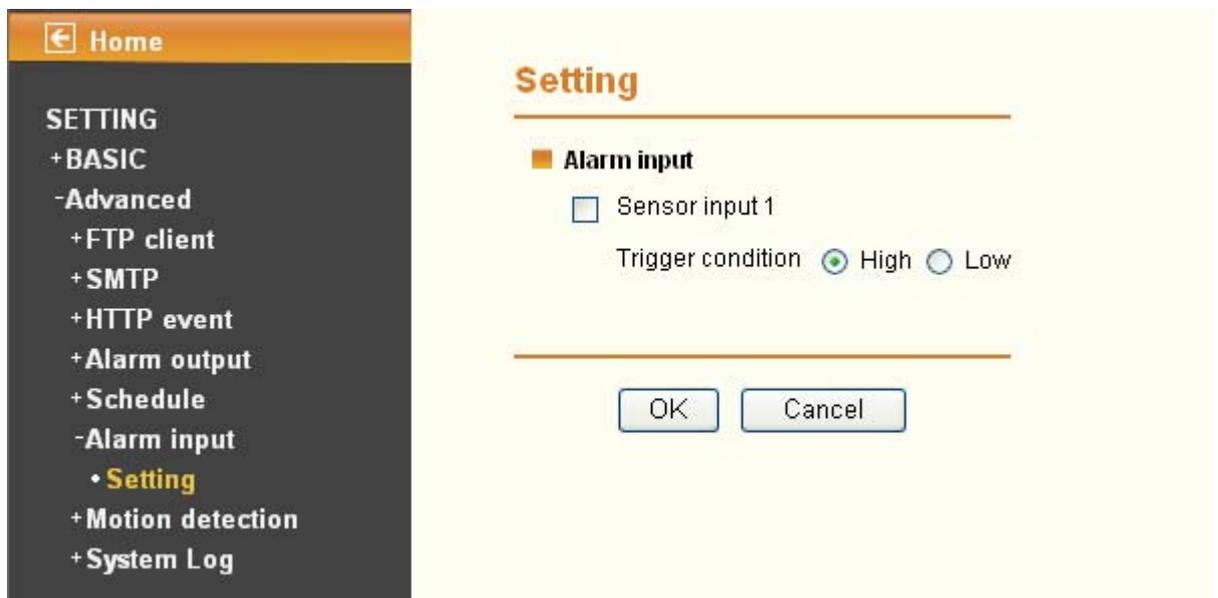
set to Mon (Monday) are applied to all days. In this case, the Start time and End time of the other days than Mon (Monday) cannot be input.

7.6 Alarm input

When you click **Alarm Input** on the Advance mode menu, the Alarm input setting menu appears. You can set in this menu to control the external alarm input of I / O port on the rear of the device linked to **FTP**, **SMTP**, and **HTTP** sending function.



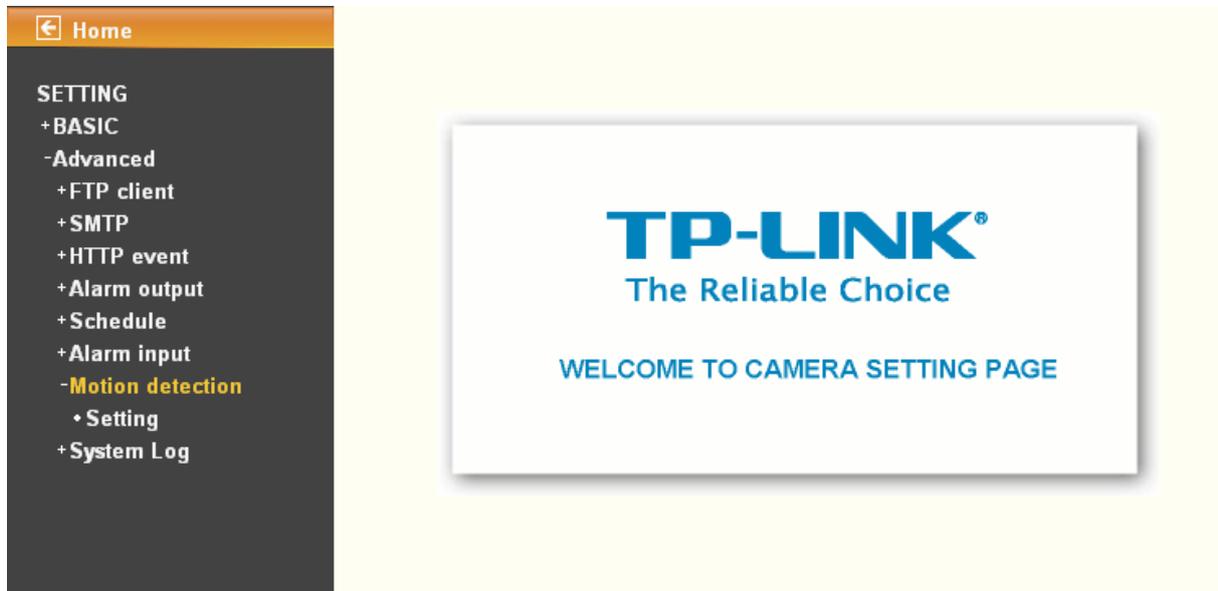
7.6.1 Setting



- **Sensor input 1:** Click it on for using external sensor which is connected to sensor input1 of the camera I / O port.
 - **Trigger condition:** Select High signal output and Low signal output as your alarm.
 - **Camera move:** Pull down the window to select the camera preset position.

7.7 Motion detection

There are three Motion Detection functions as sensors to set for different detecting zones. Each one has Threshold and Sensitivity inputs which you can adjust to specific zone sequentially. Motion Detection function can support to FTP, SMTP and Alarm output for capturing and sending images or starting alarm output.



7.7.1 Setting

Setting

<input checked="" type="checkbox"/> Motion detection 1	<input checked="" type="checkbox"/> Motion detection 2	<input checked="" type="checkbox"/> Motion detection 3
Threshold	Threshold	Threshold
Sensitivity	Sensitivity	Sensitivity

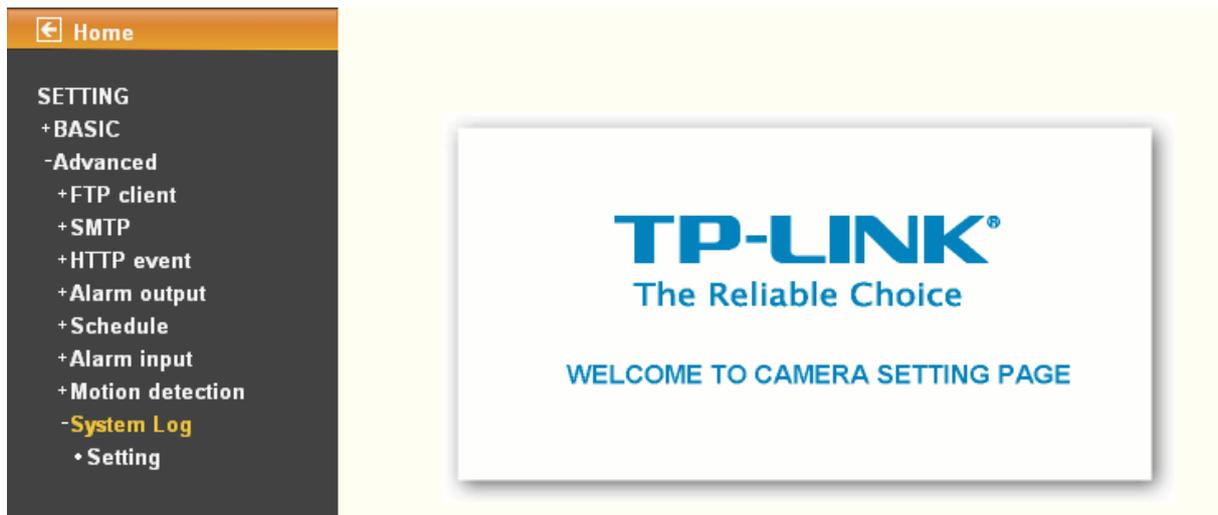


OK Cancel

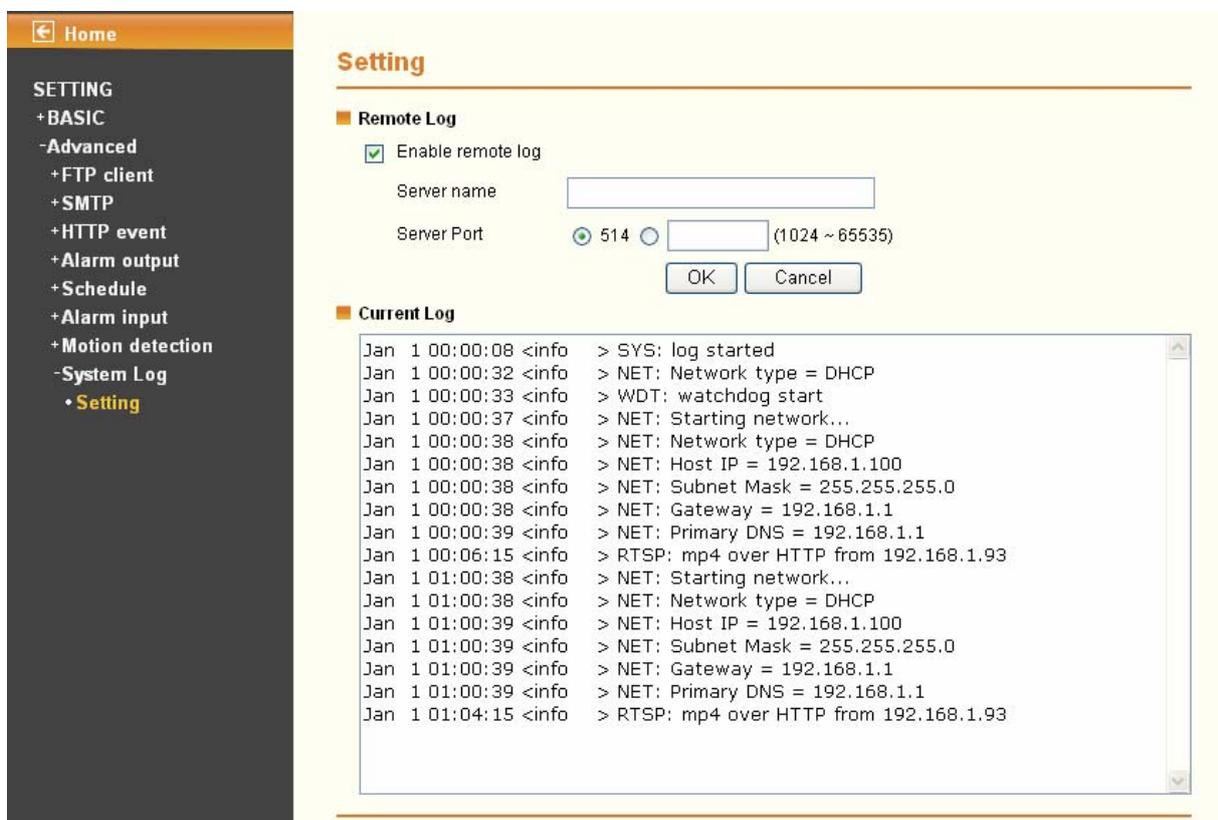
- **Threshold:** It means the extent which the alarm will be triggered. The default value is 50 and the value range is 0~100. The larger the value, the higher the threshold.
- **Sensitivity:** It means that how often the sensor will scan the image different. The higher sensitivity it is and the more frequently it scans. The default value is 50 and the value range is 0~100. The larger the value, the higher the sensitivity.
 - **Motion Detection 1:** Click it on for using **Motion Detection 1** function as a sensor. You can adjust and move the detecting zone by using mouse.
 - **Motion Detection 2:** Click it on for using **Motion Detection 2** function as a sensor. You can adjust and move the detecting zone by using mouse.
 - **Motion Detection 3:** Click it on for using **Motion Detection 3** function as a sensor. You can adjust and move the detecting zone by using mouse.

7.8 System Log

The System Log function allows users to review any changes and events happened. The system begins logging automatically after started.



7.8.1 Setting



- **Enable remote log:** Enables user to send the log data to a specified log server.

Note:

There is a function called Watchdog which can automatically detect errors and restart the IP camera while mpeg, mjpeg, 3gpp, or web cannot work. It will take about 5 minutes from detection to reboot, and it will show up with “connecting” on mainpage during this 5 minutes. If the Watchdog function detects errors, “*** ffmpeg”, “*** mjpeg”, “*** gsm” or “*** boa” will be shown in system log. In this case, please send the file “backup” to TP-LINK (you can save it from Setting > Basic > System > Initialize > Backup setting data), and also provide the router spec you’re using, we will analyze and solve the problem as soon as possible.

E-mail: support@tp-link.com

Appendix

APPENDIX a – FRAME RATE & BIT RATE TABLE

This chapter provides tables that help you to optimize your IP camera with your network environment. Base on your network upload environment to choose the best Image-Quality setting.

For example, if the network environment is ADSL 256Kb(upload) / 2Mb(download), the most fluent Image-Quality needs to set up under 256 Kb situation.

A.1 MPEG4 @ 30fps / kbps

Quality	640*480	320*240	160*120
Excellent	1000	300	90
Detailed	400	150	50
Good	300	100	30
Standard	250	70	25
Medium	250	55	20

A.2 MPEG4 / kbps, fps

Image-Size	Bitrate Setting	Frame-Rate Setting	Current Bitrate	Current Frame-Rate
640*480	2048	30	1800	26
640*480	2048	15	2200	16
640*480	1536	30	1500	30
640*480	1536	15	1700	16
640*480	1024	30	1000	30
640*480	1024	15	1000	16
640*480	512	30	500	30
640*480	512	15	600	16
320*240	1536	30	1500	30
320*240	1536	15	1600	16
320*240	1024	30	1000	30
320*240	1024	15	1000	16

320*240	512	30	550	30
320*240	512	15	600	16
160*120	1024	30	950	30
160*120	1024	15	750	16
160*120	512	30	500	30
160*120	512	15	50	16
160*120	128	30	130	30
160*120	128	15	140	16

A.3 MJPEG @ 15fps / kbps

Quality	640*480	320*240	160*120
Excellent	4000	1500	600
Detailed	2400	900	400
Good	1600	650	300
Standard	1300	500	240
Medium	900	350	170

A.4 MJPEG / kbps, fps

Image-Size	Quality Setting	Frame-Rate Setting	Current Bitrate	Current Frame-Rate
640*480	Excellent	15	4000	13
640*480	Excellent	5	1600	5
640*480	Good	15	1600	13
640*480	Good	5	650	5
640*480	Medium	15	900	14
640*480	Medium	5	360	5
320*240	Excellent	15	1500	13
320*240	Excellent	5	550	5
320*240	Good	15	650	13

320*240	Good	5	260	5
320*240	Medium	15	350	13
160*120	Medium	5	130	5
160*120	Excellent	15	600	13
160*120	Excellent	5	230	5
160*120	Good	15	300	13
160*120	Good	5	115	5
160*120	Medium	15	170	13
160*120	Medium	5	65	5

APPENDIX b – STORAGE REQUIREMENT TABLE

This chapter provides tables that help you set your recording storage system.

Please refer to the following table to find out the capability for recording into your hard disk.

B.1 MPEG4 Storage Requirement GB / channel / day @ 30fps

Quality	640*480	320*240	160*120
Excellent	10.5	3.2	0.9
Detailed	4.2	1.6	0.5
Good	3.2	1.1	0.3
Standard	2.6	0.7	0.3
Medium	2.6	0.6	0.2

B.2 MPEG4 Storage Requirement GB / channel / day @ 15fps

Quality	640*480	320*240	160*120
Excellent	5.3	1.6	0.4
Detailed	2.1	0.8	0.3
Good	1.6	0.6	0.2
Standard	1.3	0.4	0.1
Medium	1.3	0.3	0.1

B.3 MPEG4 Storage Requirement GB / channel / day

Image-Size	Bitrate Setting	Frame-Rate Setting	Current Bitrate
640*480	2048	30	23.0
640*480	2048	15	22.2
640*480	1536	30	18.5
640*480	1536	15	17.9
640*480	1024	30	10.5
640*480	1024	15	10.5
640*480	512	30	5.3
640*480	512	15	6.3
320*240	1536	30	15.8
320*240	1536	15	16.9
320*240	1024	30	10.5
320*240	1024	15	10.5
320*240	512	30	5.8
320*240	512	15	6.3
160*120	1024	30	10.0
160*120	1024	15	7.9
160*120	512	30	5.3
160*120	512	15	0.5
160*120	128	30	1.4
160*120	128	15	1.5

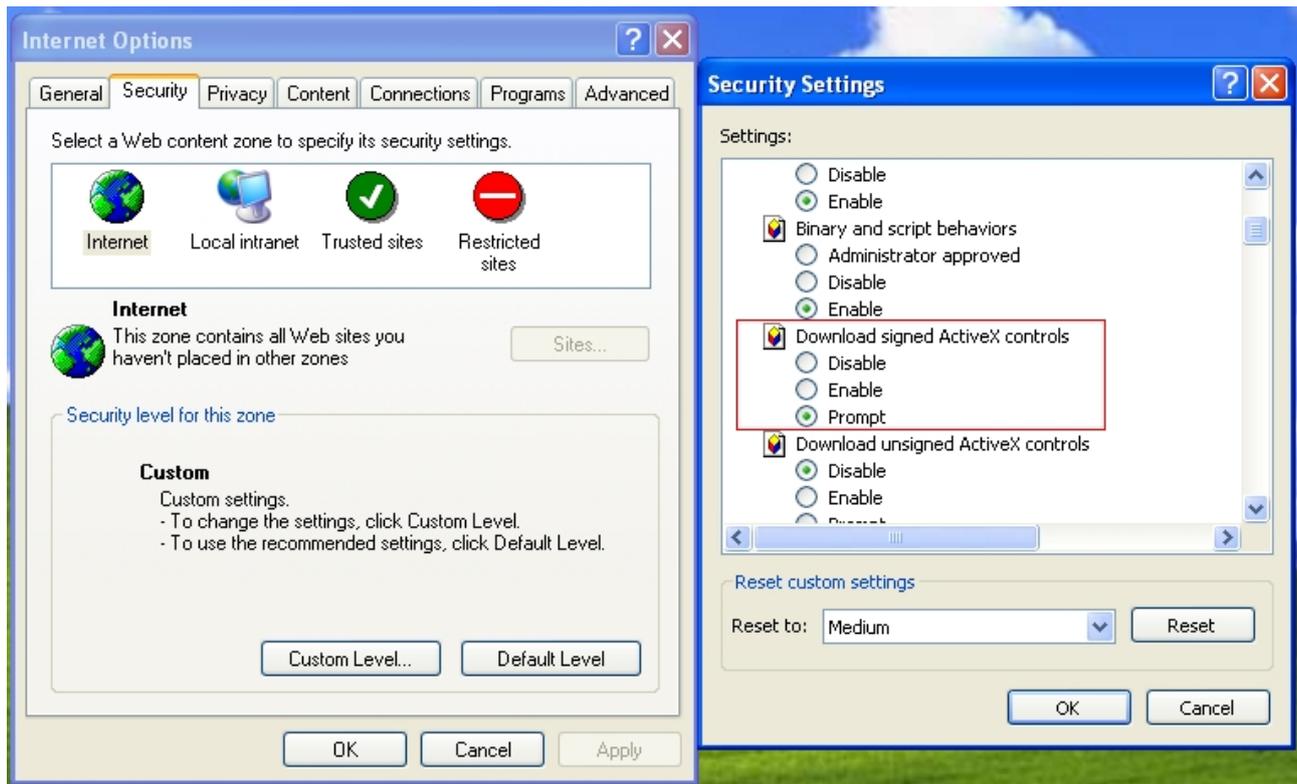
FAQ

Q1. What can I do if I forgot the login name and password?

Press and hold the **Reset** button on the bottom panel with a pin or paperclip. Please continue holding down the **Reset** button for approximately 15 seconds. And then IP Camera will reboot. It will require 45 seconds. Both the default username and password are **admin**.

Q2. Why can't I view the image from the web browser?

First, please make sure that you are using the web browser that supports ActiveX (Internet Explorer) or Java script (Firefox or Safari). If it is, please install the ActiveX and Java script.



As to the ActiveX installation, please check your internet option settings to confirm whether you're allowed to install the ActiveX plug-in, which is embedded in the IP camera.

Please click "prompt" in "Download signed ActiveX controls" in the **Internet Option** → **Security Settings**.

If you check that box, the ActiveX plug-in program would prompt automatically when you log in the camera's web page, and then please choose to install it.

As to the Java script installation, please visit the official website here:

<http://www.java.com/en/download/manual/jsp>

Q3.If the image is blurry, what can I do?

Please adjust the IP Camera's focus by rotating the Lens.

Q4. If I forgot the IP address and port of my IP Camera. What should I do?

Please download the Intelligent IP Installer Setup from our web site, or run the CD firstly. This software will search the IP Camera automatically. Double click your IP Camera in this software, you will view the IP address and port of your IP Camera.