

# **3MP\_IP\_Bullet\_Vari-focal Network**

## **Camera**

### User Manual

Release: 11 September 2012

# - CONTENTS -

<b>Chapter I</b>	<b>Introduction .....</b>	<b>3</b>
1.1	Highlights of your new Network IP Camera.....	3
1.2	Safety Instructions .....	4
1.3	Packaging Contents.....	5
1.4	Familiar with your new Network IP Camera .....	6
1.5	Installation of the Network IP Camera .....	10
<b>Chapter II</b>	<b>Using Network IP Camera by Web Interface .....</b>	<b>13</b>
2.1	Locate the IP address of Network IP Camera .....	13
2.2	Connect to IP Camera's Web User Interface and Install ActiveX Plugin .....	15
2.3	Viewing Live Video.....	19
2.4	Client Settings.....	22
<b>Chapter III</b>	<b>Advanced Configuration .....</b>	<b>24</b>
3-1	System .....	25
3-2	Security.....	27
3-3	Network.....	29
3-3-1	'General' setup page .....	29
3-3-2	'Advanced' setup page.....	32
3-4	IP Filter .....	34
3-5	Video .....	36
3-5-1	Image Setting .....	36
3-5-2	Video Setting .....	39
3-5-3	Overlay Setting.....	41
3-6	Audio .....	43
3-7	Motion.....	44

3-8 PTZ Control .....	46
3-9 Event.....	48
3-9-1 Settings.....	49
3-9-2 Media .....	51
3-9-3 Event Server .....	52
3-10 Recording to SD Card .....	56
3-11 SDHC.....	57
3-12 Log .....	59
3-13 Device Info.....	60
3-14 Maintenance .....	61
3-15 Language .....	63
<b>Chapter IV   Troubleshooting .....</b>	<b>64</b>
<b>Chapter V    Specification.....</b>	<b>65</b>

# Chapter I Introduction

## 1.1 Highlights of your new Network IP Camera

Congratulates on purchasing this high-resolution 5Mega pixels network IP Camera! This IP Camera provides 5Mega pixels high-resolution video quality, with the advanced megapixel lens, you can view images remotely in more detail than conventional close-circuit cameras.

Other highlights of this network IP Camera include:

- Ultra-high resolution 5Mega pixel CMOS image sensor.
- Analog video (BNC) output, works with conventional video devices such as TV Monitors, analog DVRs, etc.
- Digital input / output interface lets you connect peripherals such as external alarm, sensor, etc.
- Audio input / output interface, you can listen to voices in remote place, and speak to person in remote place.
- Built-in SD-card slot for local storage, which can act like a stand-alone DVR.
- Two Way audio.
- 3GPP Mobile Surveillance Supported.
- RS-485 communication supported.
- ONVIF Compliant.

## 1.2 Safety Instructions

Please follow the safety instructions listed below when you're using this Network IP Camera, or you would harm this camera and / or yourself! Also, the warranty will become void if you disobey these safety instructions.

- This Network IP Camera is sophisticated electronic device; do not drop it from high places.
- Do not place this IP Camera at hot / humid places, and avoid direct sunlight.
- This IP Camera is not a toy; keep it out from the reach of children.
- Do not insert any accessories of this IP Camera into your body.
- Make sure lens set is secured when you're using this IP Camera, lens set may fall down if it's not properly secured, and cause damage to human and itself.
- If you want to use this IP Camera at any place that may be spilled by water or dirt, a secure and water-proof camera housing is required.
- Do not pull any cord that is connected to this IP Camera by force.
- IP Camera will become hot after long time of use. Refrain from touch IP Camera with hand, or cover this IP camera with paper or cloth.
- Never connect powered cable to IP Camera's DI/DO contacts.
- If the IP Camera falls into water when powered, do not attempt to retrieve it back by yourself! Find a qualified electric technician for help.

### 1.3 Packaging Contents

Please check the contents of your new Network IP Camera when you unpack the package. If any item is missing, please contact your dealer of purchase for help.

Item No.	Description	Quantity
1	Network IP Camera	1
2	DC power adapter	1
3	Bracket Kit	1
4	Sun Shield Kit	1
5	CDROM	1

## 1.4 Familiar with your new Network IP Camera



Item	Description
1. Sun Shield	Protect camera device body from sun shine or rain directly
2. I/O cable	Including -Alarm I/O -TV output -Network -Audio I/O -RS485 +- -Reset button -GND
3. IP camera device	IP camera

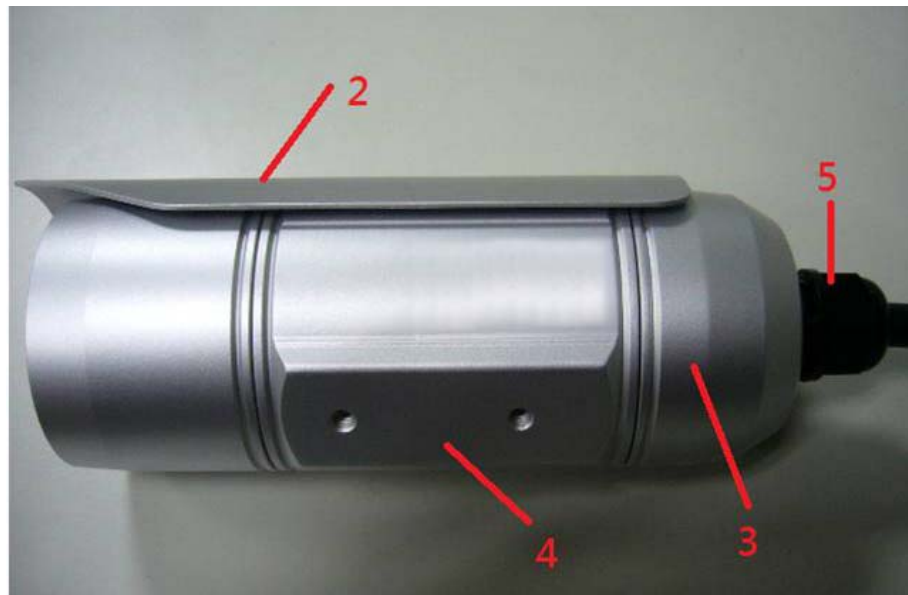
**[Front site]**



Item	Description
1. IR-LED	Used for illumination assistance under night mode
2. Day/night sensor	Used for day/night detection and IR-LED ON/OFF control
3. Lens	Fixed focal length.



[Back]



Item	Description
1. Screw	Connects between camera device body & sun shield.
2. Sun Shield	Protect camera device body from sun shine or rain directly
3. Camera device body	IP camera metal case
4. Bracket mount	The portion to mount bracket
5. Cable Glands	For water proof

## [DI/DO PIN ASSIGNMENT]



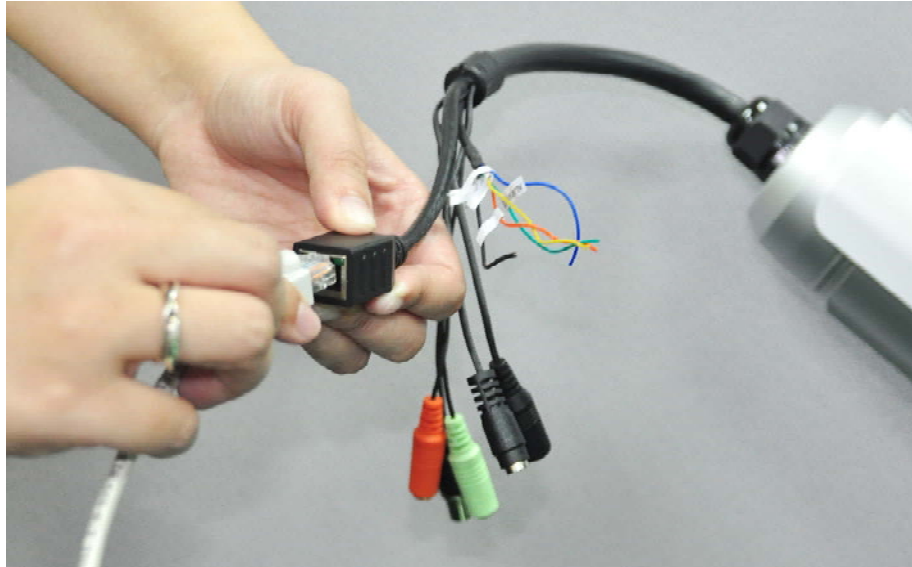
Item	Description
1	Blue, Sensor IN1, for alarm input, DV3.3Volt level allowed.
2	Yellow, RS485 D-
3	Orange, RS485 D+
4	Black, GND
5	Green, Alarm out1, DV3.3Volt level allowed.
6	DC12Volt/2A input
7	Reset Button
8	Audio output
9	Audio input
10	Network, RJ45 connector, two LED index, orange color is power index, green is network index
11	TV output, BNC connector

※Please check the I/O cable attached index before insert or release any wire.

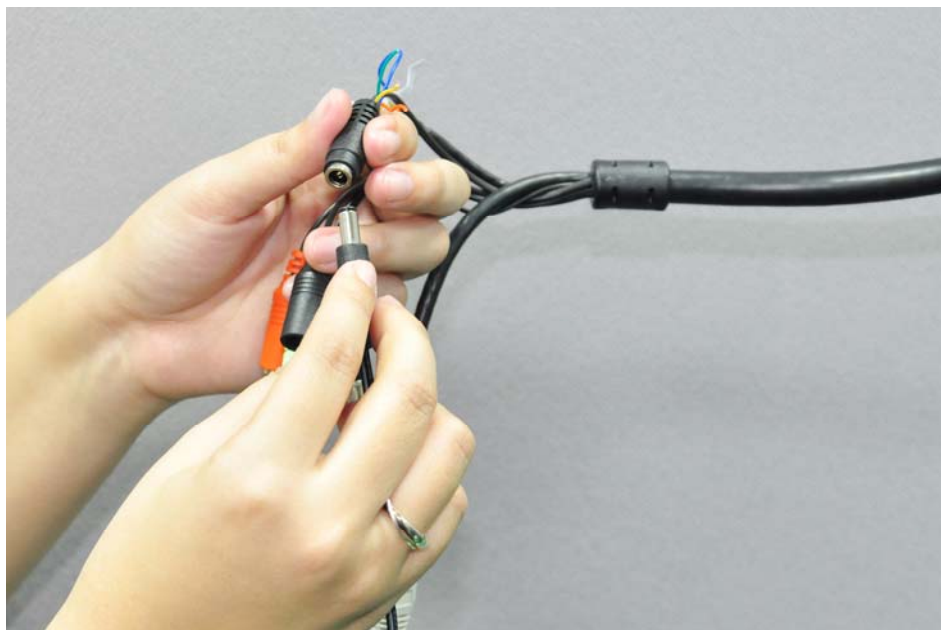
## 1.5 Installation of the Network IP Camera

Please follow the instructions below to setup your new IP camera.

1. Connect Ethernet cable to LAN port.



2. Plug DC power adapter to power outlet on the wall.
3. Connect DC power cable to IP Camera's DC power connector.



4. If everything's ok, you should see the left LED light on LAN port light up. If not, please recheck every step and try again, or ask your dealer of purchase for help.

5. Remove the front glass mask to fine tune lens focus. When lens focus fine tune ready, then screw the glass mask to the end position which can not do any more.



6. Remove the back cover to fine the SD card slot.



7. Find the screws in the package, use screwdriver to fix the sun shield on the device's main body.



## 2.1 Locate the IP address of Network IP Camera

- OS: Microsoft Windows XP/Vista/7
- Browser: Mozilla Firefox, IE7 or above, Chrome, Safari
- Cell phone: 3GPP player
- Quick Time: 6.5 or above

You can also use the utility named 'IPFinder.exe' to find the IP address of IP Camera, which is located on CD-ROM, and choose the camera of "Host Name: 5MP IP Bullet".



Press 'Discover' button to search for all IP Cameras on your local network (make sure all IP Cameras are powered on and connect to local network first). When you find any IP Camera, you can click on it and click 'Link' button to connect to it by your web browser.

If you need to change a certain IP Camera's IP address, you can also click on the IP Camera you wish to change IP address, then click 'Change IP' button to change select IP Camera's IP address setting.

If you no longer need to use this utility, click 'Exit' button to close it.

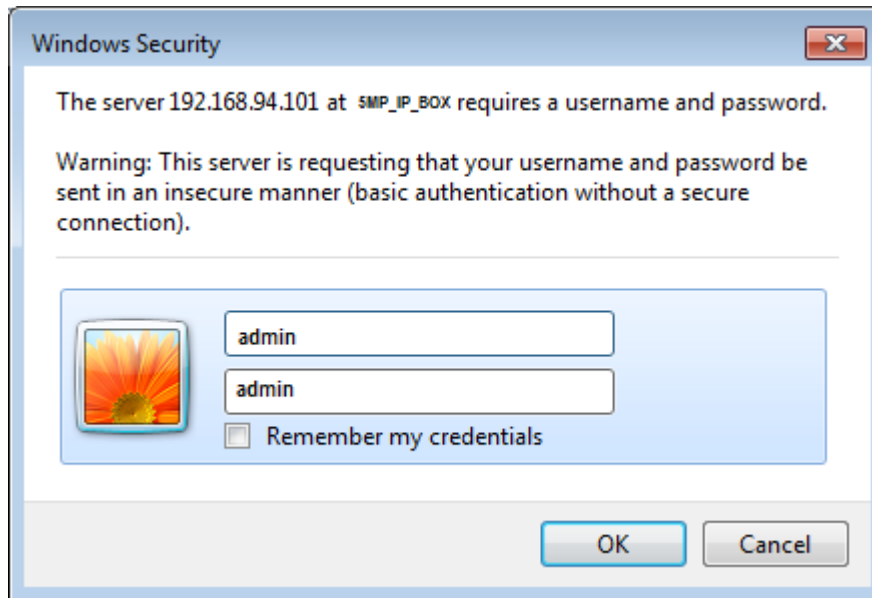
*Please note:*

*If you have several network connections, such as "Wireless Function", please disable the "Wireless Functions" or / and other network connections that is not connected to IP camera, , or IP finder may fail to search IP camera!*

## 2.2 Connect to IP Camera's Web User Interface and Install

### ActiveX Plugin

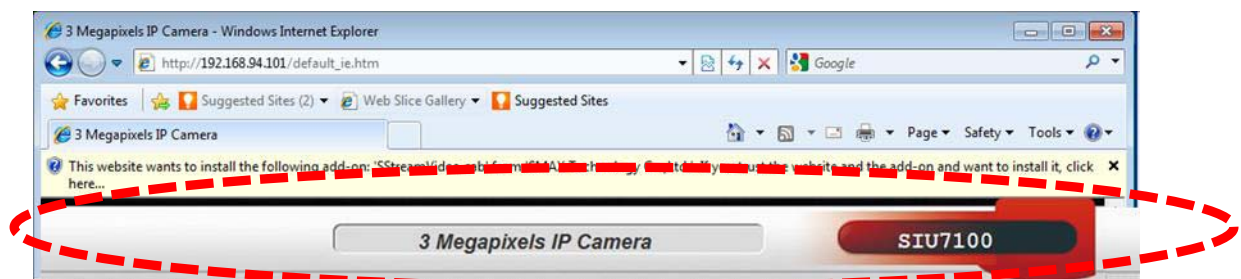
When you know the IP address of IP Camera, you can connect to it by Internet Explorer web browser by entering its IP address in address bar. The use login screen will appear when you get connected:



IP Camera's administrator username and password are both 'admin' (lower case) by default. Click 'OK' button or press 'ENTER' key on your keyboard when you finish entering username and password.

When you connect to IP Camera for the first time, you'll see the following message. This message prompts you that you need to install ActiveX plugin before you can see the video from IP Camera.

For IE 8 and earlier version:



Right click the indication bar and click:  
"Install This Add-on for All Users on This Computer..."  
to install ActiveX plugin.



For IE 9:



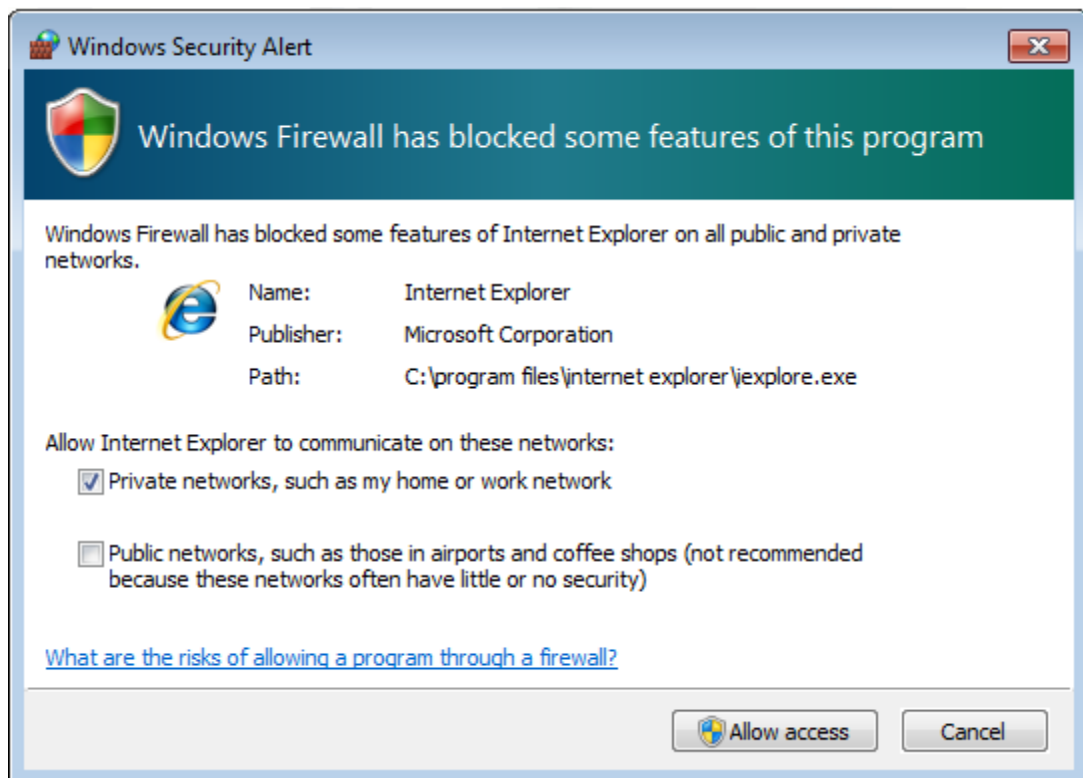
這個網頁想要執行下列附加元件: 來自 'SMAX Technology Co.,Ltd.' 的 'PROVIDEO.cab', 有什麼風險? (W)

允許(A)

Click 'Install' button located at the bottom of IE to install ActiveX plugin.

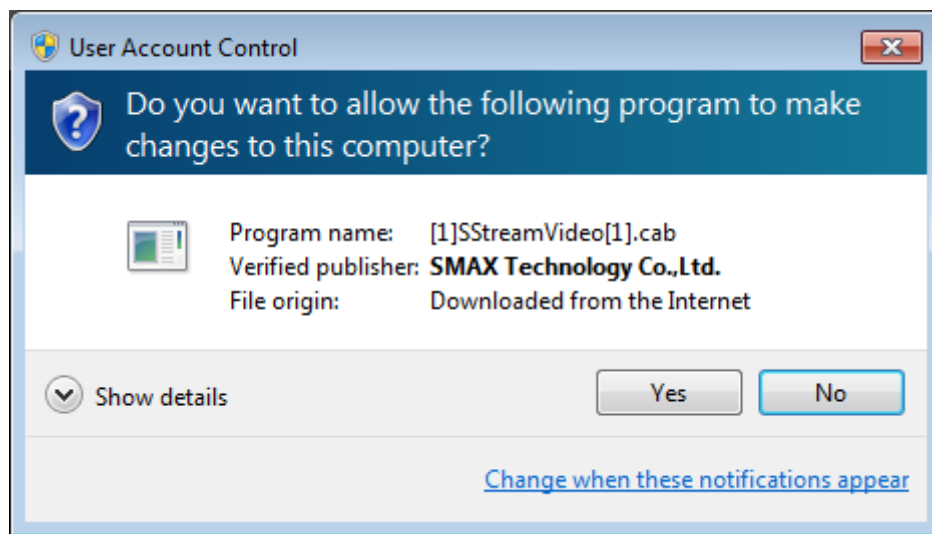
If you're prompted that:

'Windows Firewall has blocked some features of this program'



Click 'Allow access', or IP Camera will not be able to function properly.

When you're installing Internet Explorer plugin, you may also be prompted that if you want to allow changes to be made to your computer:



Click 'Yes' to allow changes.

After ActiveX plugin is installed, you should be able to see the video stream from camera.



**NOTE:**

*If this is the first time you use this IP Camera, you can refer to*

*chapter 2.4 for instructions on Setup Wizard, which will guide you to complete the software setup of your new IP Camera.*




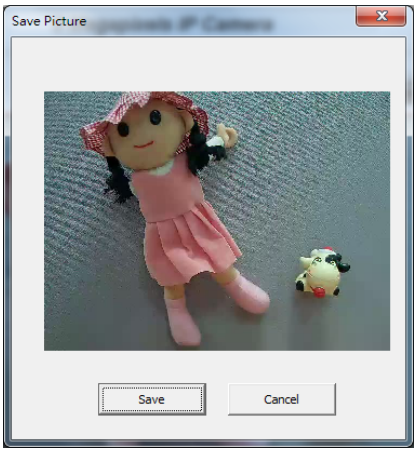

## 2.3 Viewing Live Video









After ActiveX control is installed, you can view IP camera's video by web browser. Just connect to IP camera by web browser and login, then you can see live video from IP camera:



There are various controls on web page, here are descriptions of every control item:

Item	Description
'Home' button	This button is visible in all setup pages of IP camera, and you can go back to live video view by clicking this button when you're in other page.
Stream	Select video stream type: H.264 or MJPEG. H.264 required less network bandwidth and this will help when network connection is slow.
Digital Output (ON / OFF)	Switch digital output interface on or off.
Client Settings	Open 'Client Setting' menu.
Configuration	Open 'Configuration' menu.
Language	Open language menu, you can switch web interface to other language. Available languages: English, Simplified Chinese, Traditional Chinese

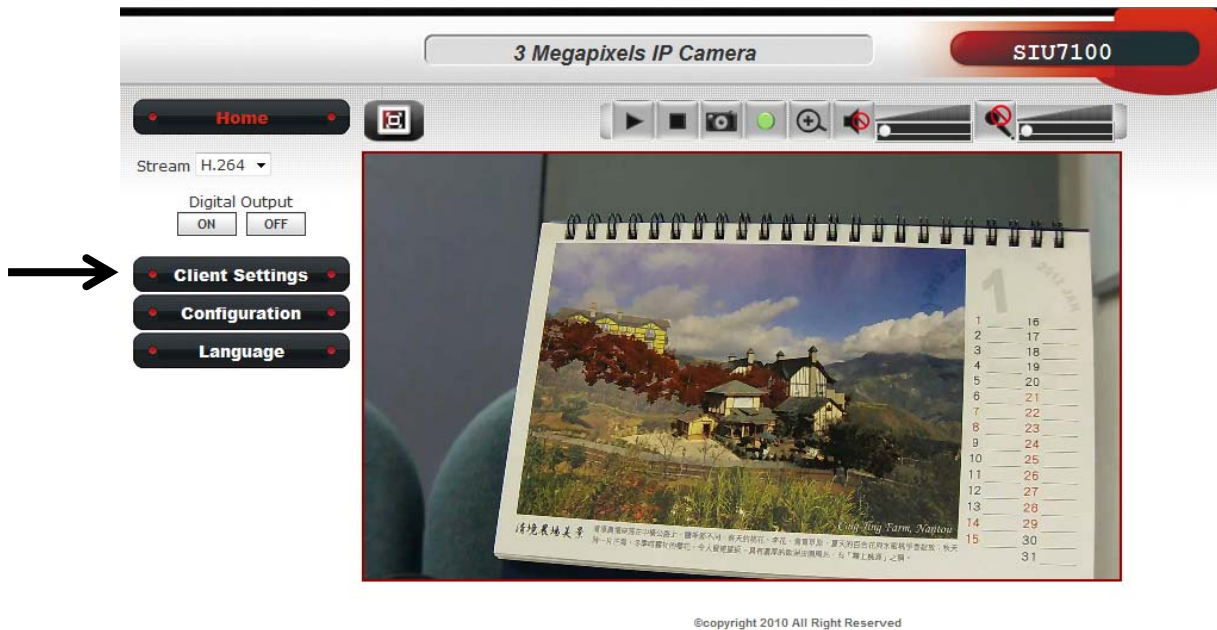
<p>Original size / Fit screen</p> 	<p>Switches live image view between original size (full size: 3M pixels) and fit screen (smaller size).</p> <p>If you want to see video in detail, switch to original size. If your computer monitor's resolution is not enough and you want to see full image view, switch to fit screen and image size will adjust automatically.</p>
<p>'Connect' button</p> 	<p>Start live video view.</p>
<p>'Disconnect' button</p> 	<p>Stop live video view.</p>
<p>'Snapshot' button</p>	<p>Take a snapshot or camera video and save image file on your computer. When you click this button, a new window will appear:</p>  <p>Click 'Save' button when you see the image you wish to save, and you'll be prompted to indicate the folder on your computer to save image file. If you changed your mind and don't want to save image file, click 'Cancel'.</p>
<p>'Start Video Record' button</p> 	<p>Click this button to record video and save video file on your computer. You'll be prompted to indicate the folder on your computer to save video file.</p>
<p>'Enable          Digital</p>	<p>This function will enlarge video view digitally</p>

<p>Zoom' button</p> 	<p>from 1X to 10X, so you can see objects in video in detail.</p> <p><i>Please note: that digital zoom uses computer algorithm to enlarge the video and some details may lost. If you need to focus on detail of specific objects in video view, please use optical zoom ring on lens set of IP camera.</i></p>
<p>Enable / Disable mute button</p>  / 	<p>When mute is enabled () , you will not hear the voice from IP camera; If you want to hear voice from IP camera, click this button to disable mute () .</p> <p>You can drag the slide bar () beside enable/disable mute button to adjust audio playback volume.</p>
<p>Start / Stop talk Button</p>  / 	<p>Start or stop playing your voice through IP camera's audio output. When talk is stopped, people at IP camera will not hear you.</p> <p>Please note: you need a microphone connected to your computer, and computer's mixer setting must enable microphone recording, or nothing will be outputted by IP camera.</p>

## 2.4 Client Settings

In 'Client Settings' menu, you configure basic IP camera settings like data transfer protocol and data storage folder.

To access 'Client Settings' menu, click 'Client Settings' button on the left.



The following screen will appear:

The 'Client Settings' configuration page is shown. It has a title bar with the 'Client Settings' logo. The page is divided into two main sections: 'Protocol Option' and 'Storage Option'. In the 'Protocol Option' section, there are two radio buttons: 'RTSP' (selected) and 'HTTP'. In the 'Storage Option' section, there is a 'Folder' field with the value 'C:\Recording' and a 'Browse' button. Below the folder field is a 'Prefix' field with the value 'CLIP'. There is also a checkbox labeled 'Add date and time suffix to file name' which is currently unchecked. At the bottom of the page is an 'Apply' button.

Here are the descriptions of every setup item:

Item	Description
RTSP	Select this option to use RTSP (Real-Time Streaming Protocol) to transfer video data.
HTTP	Select this option to use HTTP (Hyper-Text Transfer Protocol) to transfer video data. If you don't know which one you should use, select 'RTSP'.
Folder	Select a folder on your computer to save recorded video. Click 'Browse' button and you'll be prompted to select a folder.
Prefix	When saving video files, the characters you typed in 'Prefix' field will be used as leading characters of video file's name. For example, the default setting of 'Prefix' is 'CLIP', and video file's named will be 'CLIPxxxx', where xxxx is a 4-digit serial number.
Add date and time suffix to file name	Check this box to add data and time to the ending part of video file's filename, so you can see the date and time the video file is created directly from its filename.

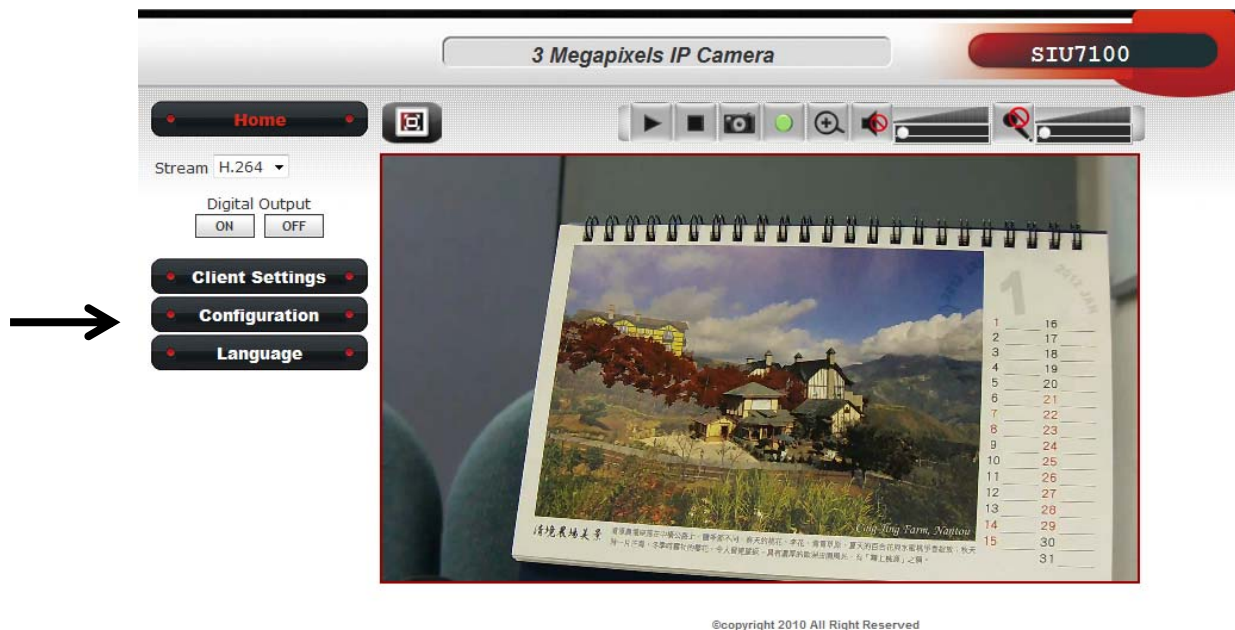
When you finish with above settings, click 'Apply' button to save changes.



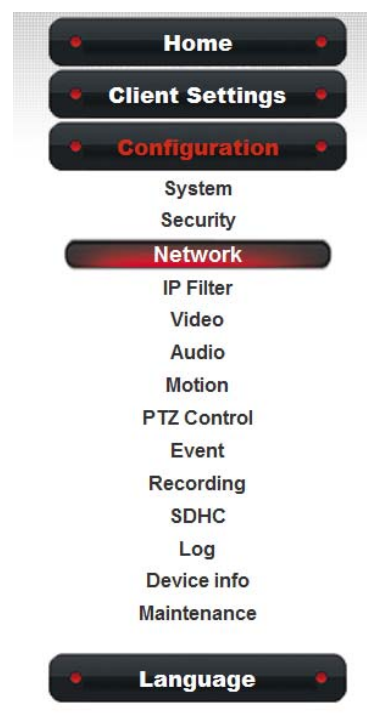
## Chapter III Advanced Configuration

If you wish to configure IP camera's settings, you can access IP camera's 'Configuration' menu, which provides various kinds of system setting.

To access configuration menu, click 'Configuration' button on the left.

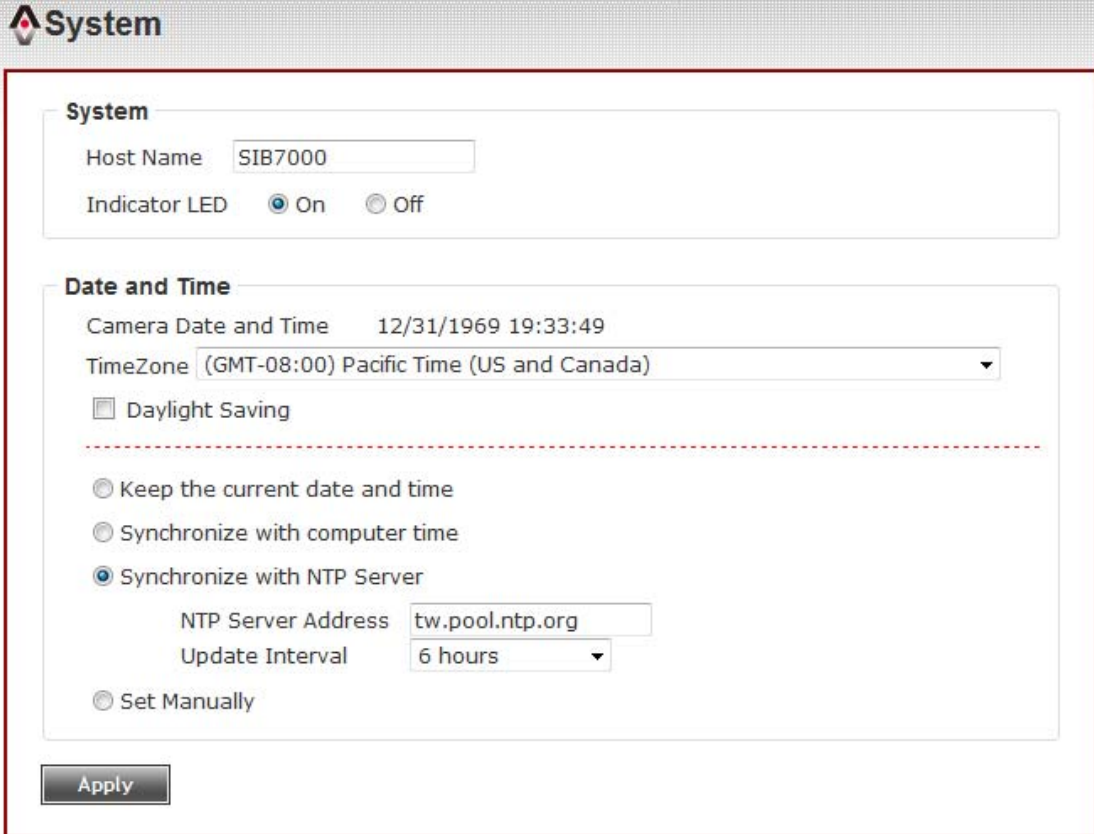


The 'Configuration' submenu will appear, please pick a setup item you wish to configure.



### 3-1 System

In this menu, you can configure basic IP camera settings like hostname and time.



The screenshot shows a web interface for configuring a system. At the top, there is a header with a logo and the word "System". Below this, there are two main sections: "System" and "Date and Time".

**System Section:**

- Host Name:** A text input field containing "SIB7000".
- Indicator LED:** Two radio buttons, "On" (selected) and "Off".

**Date and Time Section:**

- Camera Date and Time:** A text input field showing "12/31/1969 19:33:49".
- TimeZone:** A dropdown menu showing "(GMT-08:00) Pacific Time (US and Canada)".
- Daylight Saving:** A checkbox that is currently unchecked.
- Time Synchronization Options:** Three radio buttons: "Keep the current date and time", "Synchronize with computer time", and "Synchronize with NTP Server" (selected).
- NTP Server Address:** A text input field containing "tw.pool.ntp.org".
- Update Interval:** A dropdown menu showing "6 hours".
- Set Manually:** A radio button that is currently unselected.

At the bottom of the form, there is an "Apply" button.

Here are the descriptions of every setup item:

Item	Description
Host Name	Input the IP camera's hostname here, it can be any meaningful words or characters that will help you to identify this IP camera. You can use IP camera's installation location as host name, and this will help you to identify IP camera when you have many IP cameras installed.
Indicator LED	The LED lights located at the back of IP camera is switched on by default. But, if you don't want other people to know the status of this IP camera (so they will know this IP camera is operating etc.), you can select 'Off' and LED lights will be switched off.

Timezone	Select the time zone of residence from dropdown menu to keep correct date and time.
Daylight Saving	If the area you live uses daylight saving, check this box; otherwise do not check this box to keep time correct.
Keep the current date and time	Select this option and date / time setting will not be changed when you click 'Apply' in the page. You can check 'Camera Date and Time' item in this page to know IP camera's current date and time setting.
Synchronize with computer time	Select this item and IP camera will use your computer's time as its time.
Synchronize with NTP Server	<p>Select this item and IP camera will keep its date and time setting synchronized with specified time server (NTP server). Please input NTP server's IP address or host name in 'NTP Server Address' field, and select time update interval from 'Update Interval' dropdown menu.</p> <p><i>Please note that if this IP camera can't access Internet, you must have a time server on local area network, or set the time manually.</i></p>
Set Manually	Set IP camera's date and time manually. Please set current date and time by 'Date' and 'Time' dropdown menu.

When you finish with above settings, click 'Apply' button to save changes.

## 3-2 Security

In this menu, you can configure IP camera's login account.

There are three kinds of account:

- Administrator (Can view IP camera's video and make changes of camera setting)
- User (Can view IP camera's video and see settings, but can't make any change)
- Guest (Can view IP camera's video only)

There can be multiple users, but only one administrator is allowed, and you can't change administrator's user name (it will always be 'administrator').

The screenshot displays the 'Security' configuration page. At the top, there's a header with a logo and the word 'Security'. Below this, the page is divided into two main sections. The first section, titled 'Administrator', contains fields for 'Password' and 'Retype Password', a 'Modify' button, and a yellow warning box stating: '\* Administrator password length must be between 4 and 8 characters.' The second section, titled '~Account\_list', contains an 'Account List' table with one entry 'New Account' and a 'Remove' button. Below this is a dashed line, followed by fields for 'User Name', 'Password', 'Retype Password', and an 'Authority' dropdown menu set to 'User'. There is a 'New' button next to the Authority dropdown. At the bottom of this section, a yellow warning box contains two messages: '\* User name length must be between 1 and 32 characters.' and '\* Password length must be between 4 and 8 characters.'

Here are the descriptions of every setup item:

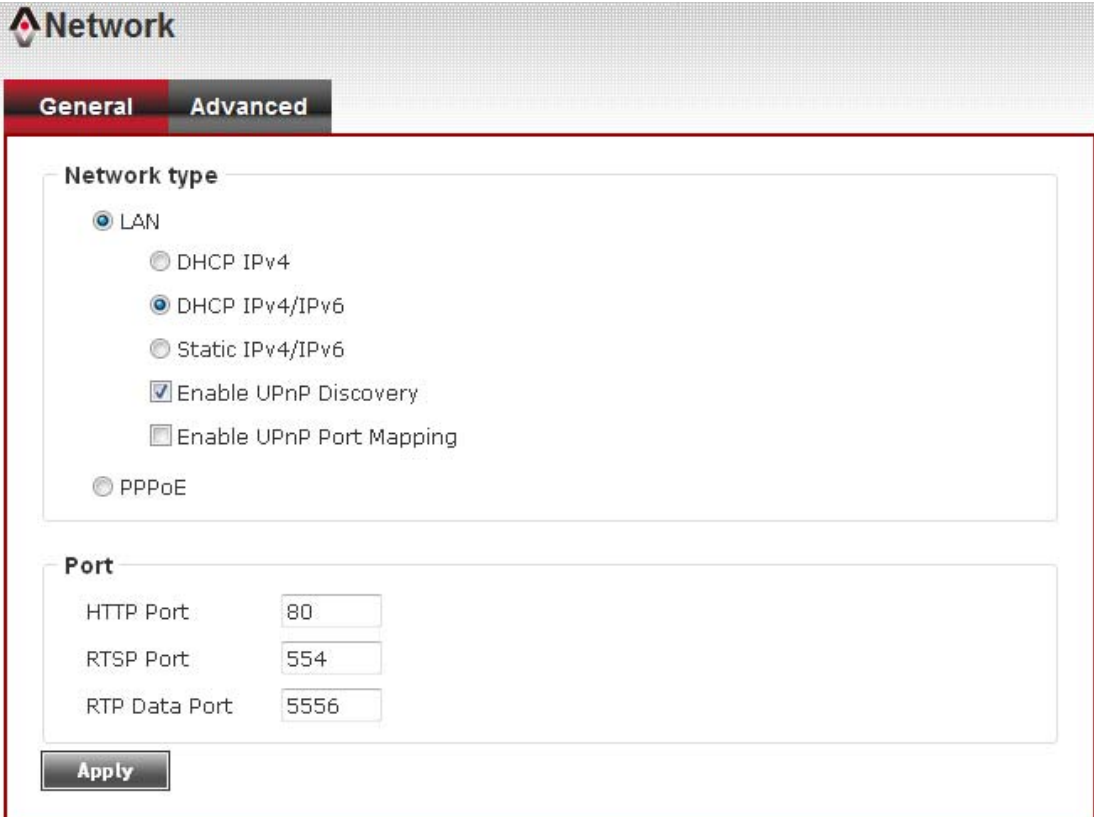
Item	Description
Password / Retype Password <b>(Administrator)</b>	Input administrator's new password in both 'Password' and 'Retype Password' field, and click 'Modify' button to change administrator's password. <i>Please note: Don't forget administrator's password! Or you'll need to reset IP camera's all settings to get administrator's password recovered.</i>
Account List	Here lists all users existed in IP camera. If you want to remove one user, click it in the list, and then click 'Remove' button. <i>If no user is existed, 'New Account' message will be shown here.</i>
User Name	Input new user's username here. User name must be greater than 1 character and less than 32 characters.
Password / Retype Password	Input this user's password in both 'Password' and 'Retype Password' field.
Authority	To define this user's access privilege, select 'User' or 'Guest' in dropdown menu. When you finish inputting new user's information, click 'New' button to create a new user.

### 3-3 Network

In this menu, you can configure IP camera's network setting.

#### 3-3-1 'General' setup page

Setup IP address for this IP camera. This IP camera supports both IPv4 and IPv6 IP address.



The screenshot shows the 'Network' configuration interface. At the top, there is a 'Network' header with a red icon. Below it are two tabs: 'General' (selected) and 'Advanced'. The 'General' tab contains two main sections: 'Network type' and 'Port'. The 'Network type' section has radio buttons for 'LAN' (selected), 'DHCP IPv4', 'DHCP IPv4/IPv6', and 'Static IPv4/IPv6'. There are also checkboxes for 'Enable UPnP Discovery' (checked) and 'Enable UPnP Port Mapping' (unchecked). At the bottom of this section is a radio button for 'PPPoE'. The 'Port' section has three input fields: 'HTTP Port' (80), 'RTSP Port' (554), and 'RTP Data Port' (5556). An 'Apply' button is located at the bottom left of the form.

Here are the descriptions of every setup item:

Item	Description
LAN	Select this option to assign an IP address to LAN port (or obtain an address from DHCP server automatically).  Available options are:

	<p>DHCP IPv4: Obtain an IPv4 IP address from DHCP server on LAN automatically.</p> <p>DHCP IPv4 / IPv6: Obtain both IPv4 and IPv6 address from DHCP server on LAN automatically.</p> <p>Static IPv4 / IPv6: Assign an IPv4 / IPv6 address to IP camera manually. If you don't have a DHCP server on your local area network, you must use this option to specify an IP address.</p> <p>IP Address(IPv4): Input IPv4 IP address*</p> <p>IP Address(IPv6): Input IPv6 IP address*</p> <p>Prefix Length: Input IPv6 IP address' prefix length (0-128)</p> <p>Subnet Mask: Input subnet mask</p> <p>Gateway: Input gateway address</p> <p>Primary DNS: Input DNS server's IP address</p> <p>Secondary DNS: Input backup DNS server's IP address, you can leave this field blank.</p> <p>* You can leave this field blank, if you only wish to use IPv4 or IPv6 IP address.</p> <p>Enable UPnP Discovery: Check this box to enable other devices on network to discover the presence of this IP camera by UPnP. It's recommended to enable this function.</p> <p>Enable UPnP Port Mapping: When UPnP is enabled, check this box to enable UPnP's port mapping.</p>
PPPoE	<p>Select this option to use PPPoE to connect to network. You have to input PPPoE username and password assigned by network operator to get connected.</p>
HTTP Port	<p>Input IP camera's web connection port number here. When this port number is changed, you need to change web browser's port number you used to connect to IP camera.</p>

	For example, IP camera's IP address is 192.168.2.3, and if you changed HTTP port number to 82, please input 'http://192.168.2.3:82' in web browser's address bar to access IP camera's web configuration interface.
RTSP Port	Input RTSP port number. When this port number changes, you must change corresponding settings in external network devices (NVR or CMS software) so they can receive this IP camera's video.
RTP Data Port	Input RTP data port number here.

When you finish with above settings, click 'Apply' button to save changes.



### 3-3-2 'Advanced' setup page

You can setup advanced network settings in this page. This page is intended for advanced settings only, and this IP camera will work fine even you don't make any changes to this page.

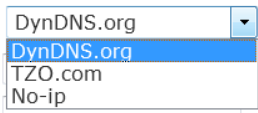
The screenshot shows the 'Advanced' setup page with the following settings:

- Multicast:** ☐ Enable Multicast
- Bonjour:** ☒ Enable Discovery
- Qos:** ☐ Enable Qos
- DDNS:** ☐ Enable DDNS
- HTTPS:** ☒ Enable HTTPS, HTTPS Port: 443

An 'Apply' button is located at the bottom left of the settings area.

Here are the descriptions of every setup item:

Item	Description
Multicast	<p>Enable video multicast:</p> <p>Multicast Group Address: Input multicast group address here, must be an address between 232.0.0.0 to 232.255.255.255.</p> <p>Multicast video port: Input port number for video multicast here.</p>

	<p>Multicast RCTP video port: Input port number for RCTP video here.</p> <p>Multicast audio port: Input port number for audio here.</p> <p>Multicast RCTP audio port: Input port number for RCTP audio here.</p> <p>Multicast TTL: Input TTL value for multicast here.</p>
Bonjour	If you're using MacOS and you have Bonjour installed, you can use it to discover this IP camera.
QoS	<p>Enable QoS to improve the data transfer priority of this IP camera (Your local area network must support QoS).</p> <p>You can select Video / Audio's QoS DSCP value (0 to 63), or both video and audio.</p>
DDNS 	<p>Enable DDNS support if your ISP assigns dynamic IP address to you. You must register a dynamic IP service first. Currently this IP camera supports DynDNS, TZO and No-IP dynamic IP service.</p> <p>Provider: Select dynamic IP service provider.</p> <p>Host Name: Input the host name you obtained from dynamic IP service provider.</p> <p>User name: Input user name used to login dynamic IP service provider.</p> <p>Password: Input the password used to login dynamic IP service provider.</p>
HTTPS	Check 'Enable HTTPS' box to enable HTTPS channel to encrypt transferred data. You can also define HTTPS port number in 'HTTPS Port' field if you don't want to use default value '443'.

When you finish, click 'Apply' to save changes.

### 3-4 IP Filter

When this IP camera is directly connected to Internet and not protected by firewall, this function acts like a mini built-in firewall to protect the safety of this IP camera and avoid attacks from hackers.

**IP Filter**

☐ Enable Filter **Apply**

**Accepted IP list**

192.168.10.1-192.168.10.1 **Remove**

-----

IP Address  ~  **New**

**Deny IP list**

192.168.10.10-192.168.10.11 **Remove**

-----

IP Address  ~  **New**

Here are the descriptions of every setup item:

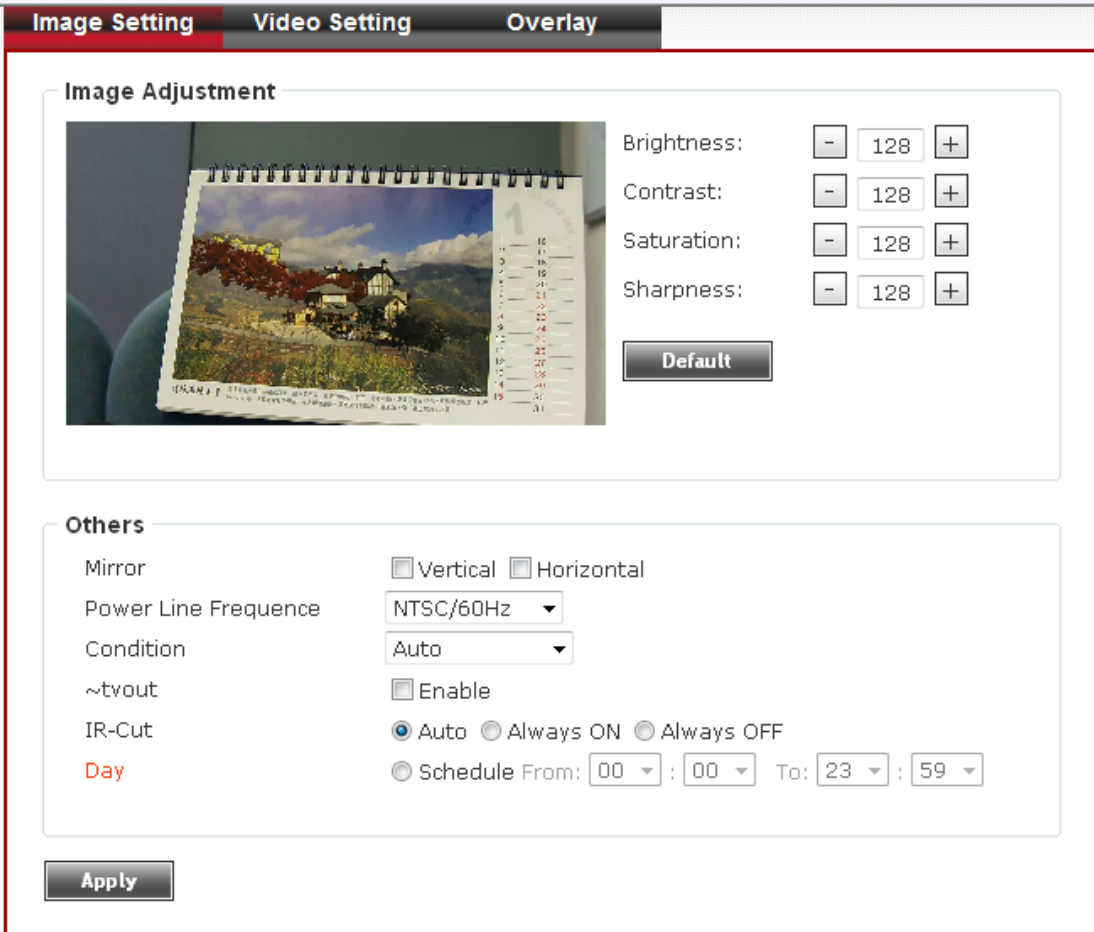
Item	Description
Enable Filter	Check this box to enable IP address filter, uncheck this Box to disable this function.
Accepted IP list	Here lists all IP address that can build connections to this IP camera. If you want to remove a set of IP address from the list, click on the IP address and click 'Remove' button.
IP Address	Input the starting and ending IP address of IP

(Accepted IP list)	<p>address you wish to accept connections here. IP camera will only accept connections established from these IP address.</p> <p>If you want to specify one IP address only, input the same IP address in both field.</p> <p>Click 'New' button to add IP address into accepted IP list.</p>
Deny IP list	<p>Here lists all IP address that cannot build connections to this IP camera. If you want to remove a set of IP address from the list, click on the IP address and click 'Remove' button.</p>
IP Address (Accepted IP list)	<p>Input the starting and ending IP address of IP address you wish to deny connections here. IP camera will deny connections established from these IP address.</p> <p>If you want to specify one IP address only, input the same IP address in both field.</p> <p>Click 'New' button to add IP address into deny IP list.</p>

When you finish with above settings, click 'Apply' button to save changes.

## 3-5 Video

You can adjust the image of the IP camera in this menu.



The screenshot shows the 'Image Setting' sub-menu of the 'Video' menu. At the top, there are three tabs: 'Image Setting' (highlighted in red), 'Video Setting', and 'Overlay'. The main content area is titled 'Image Adjustment' and features a preview window on the left showing a landscape image. To the right of the preview are four sliders for 'Brightness', 'Contrast', 'Saturation', and 'Sharpness', each with a value of 128 and minus/plus buttons. Below these is a 'Default' button. The 'Others' section contains several options: 'Mirror' with 'Vertical' and 'Horizontal' checkboxes; 'Power Line Frequency' set to 'NTSC/60Hz'; 'Condition' set to 'Auto'; 'tvout' with an 'Enable' checkbox; 'IR-Cut' with radio buttons for 'Auto' (selected), 'Always ON', and 'Always OFF'; and a 'Day' schedule option with a time range from 00:00 to 23:59. An 'Apply' button is located at the bottom left.

There are 3 sub-menus in this menu: Image Setting, Video Setting, and Overlay, which can be accessed by tabs on the top:



### 3-5-1 Image Setting


You can adjust the image parameters in this page.

Image Setting

Video Setting

Overlay

Image Adjustment



Brightness:

-

128

+

Contrast:

-

128

+

Saturation:

-

128

+

Sharpness:

-

128

+

Default

Others

Mirror

☐ Vertical
☐ Horizontal

Power Line Frequency

NTSC/60Hz

Condition

Auto

~tvout

☐ Enable

IR-Cut

☒ Auto
☐ Always ON
☐ Always OFF

Day

☐ Schedule From: 00 : 00 To: 23 : 59

Apply

Here are the descriptions of every setup item:

Item	Description
Brightness / Contrast / Saturation / Sharpness	Control the image parameters. Click ' - ' to decrease value, or click ' + ' to increase value. You can also input the value in the field directly.
Default	Set all above values to default value '128'.
Mirror	Check 'Vertical' or 'Horizontal' box to flip the image vertically or horizontally, this will help to correct the orientation of image when IP camera is hanged bottom-up by camera holder. <i>You can click both 'Vertical' and 'Horizontal' box at the same time.</i>
Power Line Frequency	Select the frequency of power line of the place you're using this IP camera. This will help to reduce the flicker of certain lights in the image.
Condition	Select the condition that you'll be using this IP camera

	<p>from dropdown menu.</p> <ul style="list-style-type: none"> <li>- Auto: IP camera will adjust its parameters automatically.</li> <li>- Night: You'll be using this IP camera in dark places where lights are insufficient.</li> </ul>
TV Out	Click "Enable" box to enable its "VIDEO OUT" function for connections and video sending to TV monitors or DVRs.
IR-cut	<p>An IR-cut filter is built in this IP camera to reduce the effect of IR lights (which will change the color of image and makes it looks different than what you see through your eye), and most of IR lights are coming from sunlight.</p> <p>You can select the behavior or IR-cut filter:</p> <ul style="list-style-type: none"> <li>- Auto: IR filter will act automatically. If you don't know if you should use IR filter, select this option.</li> <li>- Always ON: IR filter is always on.</li> <li>- Always OFF: IR filter is always off.</li> </ul>
Day	IR-cut filter will only be switched on when there's sunlight. You can define the starting and ending time when IR-cut filter should be switched on by select 'Schedule' and define starting and ending time by dropdown menu.

When you finish with above settings, click 'Apply' button to save changes.

### 3-5-2 Video Setting

You can adjust the video transfer parameters in this page.

Here are the descriptions of every setup item:

Item	Description
H.264 /MPEG4	Select the compression of main stream: H.264 / MPEG4.
Video Resolution	<p>Select video resolution.</p> <ul style="list-style-type: none"> <li>- H.264: <ul style="list-style-type: none"> <li>2048x1536 (QXGA) / 1920x1080 (1080p)</li> <li>1280x960 (960p) / 1280x720 (720p)</li> <li>720x480 (D1) / 640x480 (VGA)</li> <li>320x240 (QVGA)</li> </ul> </li> <li>- MPEG4: <ul style="list-style-type: none"> <li>1920x1080 (1080p) / 1280x960 (960p)</li> <li>1280x720 (720p) / 720x480 (D1)</li> <li>640x480 (VGA) / 320x240 (QVGA)</li> </ul> </li> <li>MJPEG: <ul style="list-style-type: none"> <li>1280x720 (720p) / 720x480 (D1)</li> <li>640x480 (VGA) / 320x240 (QVGA)</li> </ul> </li> </ul> <p>Please note that some video resolution is not available</p>



	<p>when video encoder is 'MPEG4'.</p> <p>When network speed is insufficient, select a lower video resolution will help.</p>
Frame Rate	<p>Select video frame rate. Please note that some frame rate is not available when video encoder is 'H.264'.</p> <p>When network speed is insufficient, select a lower frame rate will help.</p>
Rate Control	<p>Select video bit rate. You can control bit rate by both 'Video quality' and 'Bitrate':</p> <ul style="list-style-type: none"> <li>- Video quality: There are 5 levels of video quality, select 'very high' to improve video quality but consumes more network bandwidth, and select 'very low' will decrease video quality and consumes less network bandwidth.</li> <li>- Bitrate: Input video's bit rate directly. It must an integer between 512 and 4000. Higher bit rate provides better video quality, but consumes more network bandwidth.</li> </ul>

When you finish with above settings, click 'Apply' button to save changes.

*Note:*

*MJPEG options are only available for portable devices like cell phone.*

The 'Mobile View' is used to enable cell phone monitoring function. Till Yr2011 the IP camera can only supports iPhone series, and this information will be modified without prior notice.

### 3-5-3 Overlay Setting

You can adjust the video overlay parameters in this page.

The screenshot shows the 'Overlay' settings page. It features three tabs: 'Image Setting', 'Video Setting', and 'Overlay'. The 'Overlay' tab is active. The settings are organized into three sections: 'Time Stamp', 'Text', and 'Image'. Each section has an 'Enable' checkbox and a 'Remove the background color of the text' checkbox. The 'Text' field contains 'SMAX' and a warning message '\*length must be between 1~15.'. The 'Image' section has a 'User Define Image' field with a 'Browse...' button and an 'Update' button. A yellow warning box lists three requirements: 1. Only support:Bitmap/JPG/JPEG, 2. Maximum width and height: 160x128, and must be multiple of 4, 3. Maximum size:64KB. An 'Apply' button is located at the bottom left.

Here are the descriptions of every setup item:

Item	Description
Enable Time Stamp	Check this box to enable overlaying time stamp on video.
Remove the background color of the text (for Time Stamp)	Check this box to remove time stamp's background color. You may find this will help the readability of time stamp text in some cases.
Enable Text Display	Check this box to display certain text on video, this will help when you need to identify certain IP camera when you have a lot of IP cameras. Please input the text in 'Text' field. You can input up to 15 characters.
Remove the background color of the text (Text)	Check this box to remove custom text's background color. You may find this will help the readability of text in some cases.

<p>Enable Image Overlay</p>	<p>Check this box to overlay a specific image on video, so you can show certain text / picture on the video and help people to identify this IP camera.</p> <p>Click 'Browse' button to pick a picture on your computer, then click 'Update' button to use the picture. Please note that there are certain restrictions:</p> <ul style="list-style-type: none"> <li>- Select .bmp / .jpg / .jpeg image files only.</li> <li>- Image's resolution should be less than 160 x 128, and can be divided by 4.</li> <li>- Do not upload image files that size is greater than 64KB.</li> </ul>
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

When you finish with above settings, click 'Apply' button to save changes.

### 3-6 Audio

You can adjust audio input / output parameters here.

**Audio**

**Microphone**

☒ Enable Microphone

Audio Type: G711 u-law

Microphone Gain: +10 dB

**Speaker**

☒ Enable Speaker

Audio Type: G711 u-law

Apply

Here are the descriptions of every setup item:

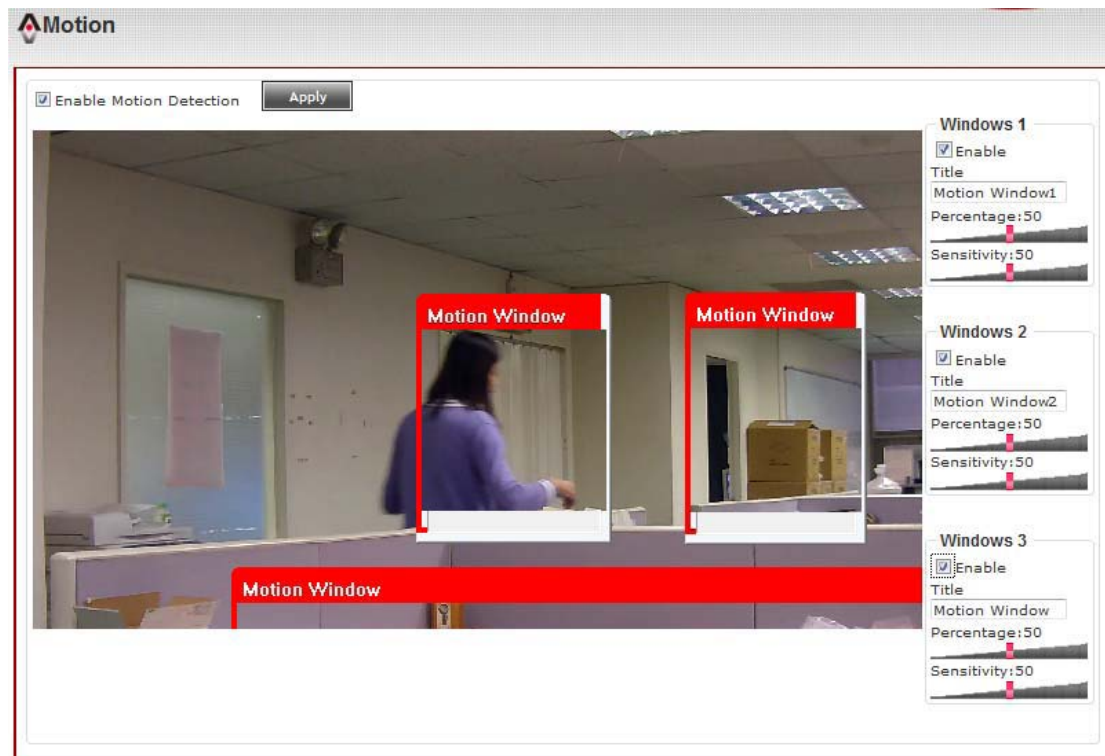
Item	Description
Enable Microphone	Check this box to enable microphone. If you don't want to hear voice from IP camera, you can uncheck this box to disable it.
Audio Type (Microphone)	The format is fixed as G.711
Microphone Gain	If the voice received by microphone is too loud or silent, you can use this function to improve voice volume, so you can hear voice from IP camera more clearly. <ul style="list-style-type: none"><li>- Select -2 or -1 dB to correct the voice that is too loud;</li><li>- Select 0 dB and IP camera will do nothing on the voice;</li><li>- Select +2 dB to +26 dB to amplify the voice.</li></ul>
Enable Speaker (Speaker)	Check this box to enable speaker. If you don't want people at IP camera to hear you, you can uncheck this box to disable it.
Audio Type (Speaker)	The format is fixed as G.711

When you finish with above settings, click 'Apply' button to save changes.

### 3-7 Motion


This IP camera is capable to detect object's motion, so IP camera will only record when there's motion and save disk storage space.

Motion detection is performed by examine the movement of objects in rectangular motion detection area. You can define up to 3 motion detection areas.



Here are the descriptions of every setup item:

Item	Description
Enable Motion Detection	Check this box to enable motion detection.
Enable (Window 1 to Window 3)	Check this box to enable this motion detection window. You can select window 1 to 3 to enable up to 3 motion detection windows. When a motion detection window is enabled, a rectangular will appear on camera's view, with its title on the top. - To move / resize a motion detection window:

	 <ul style="list-style-type: none"> <li>- Move: Use the mouse to drag the title text.</li> <li>- Resize: Use the mouse the drag the four corners (upper-left/right, lower-left/right) to resize it. If you only want to adjust width or height, drag the four sidebars (top, bottom, left, and right).</li> </ul>
Title (Window 1 to Window 3)	Input characters in title field to change motion detection area's title text so you can identify it. Please note that you have to click 'Apply' button and the text will change.
Percentage	Select the percentage of pixel change that will trigger motion detection alert. Select a lower percentage and you can detect tiny changes in motion detection area.
Sensitivity	Select the sensitivity level that will trigger motion detection alert. Select a higher sensitivity and you can detect tiny changes in motion detection area.

When you finish with above settings, click 'Apply' button to save changes.

### 3-8 PTZ Control

If you mount the IP camera on pan-tilt camera cradles that support pan-tilt control via RS-485 connection, you can use this function to control pan-tilt camera cradle so you can control the orientation of IP camera from remote place.

**RS-485**

☒ Enable RS-485

☐ Use Pelco-D

☒ Use Custom Protocol

**Port Setting**

Baud Rate: 2400 bps

Data Bits: 8

Parity: Parity

Stop Bit: 1

**Custom Commands**

Home: [ ] Test

Up: [ ] Test

Down: [ ] Test

Left: [ ] Test

Right: [ ] Test

**Extended Command**

	Command Name	Hexadecimal Message	
Command 1	[ ]	[ ]	Test
Command 2	[ ]	[ ]	Test
Command 3	[ ]	[ ]	Test
Command 4	[ ]	[ ]	Test
Command 5	[ ]	[ ]	Test

Apply

Here are the descriptions of every setup item:

Item	Description
Enable RS-485	Check this box to enable RS-485 functionality.
Use Pelco-D	Select this option and RS-485 interface will output pan-tile control signal in Pelco-D format. This format

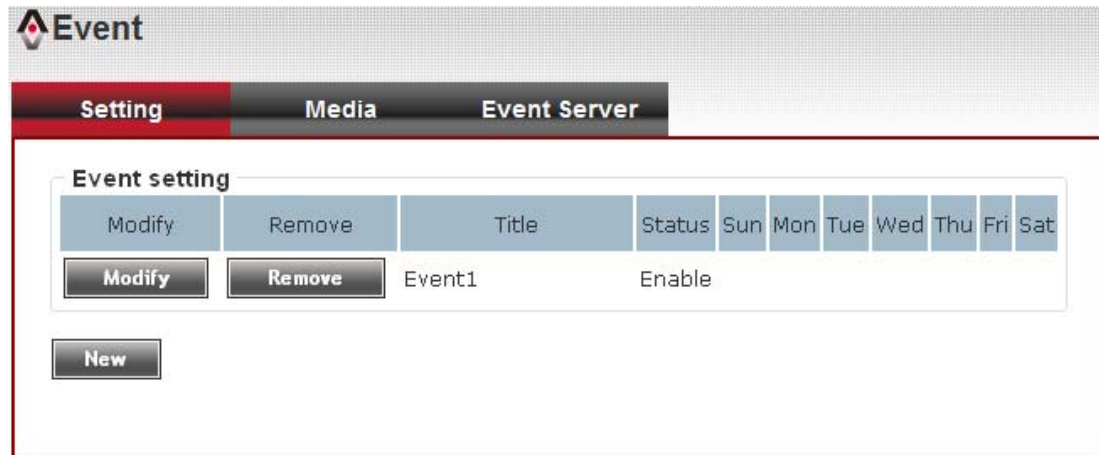
	<p>is widely accepted by most of pan-tilt camera cradles.</p> <p>You have also input pan-tilt camera cradle's address code in 'Address' field. This code must be identical to pan-tilt camera cradle's address code.</p>
Use Custom Protocol	<p>When the pan-tilt camera cradle does not support Pelco-D protocol, you can define a protocol's detail by this function.</p> <p><b><i>Please refer to pan-tilt camera cradle's user manual to define the protocol.</i></b></p> <ul style="list-style-type: none"> <li>- Baud Rate: Select data baud rate of RS-485 interface that pan-tilt camera cradle will accept. When the length of RS-485 connection is very long (longer than 200M), it's not recommended to use high speed connection (greater than 2400bps).</li> <li>- Data Bits: Select data bits of RS-485 connection.</li> <li>- Parity: Select parity bit: odd, even, or space.</li> <li>- Stop Bit: Select stop bit: 1 or 2.</li> <li>- Home/Up/Down/Left/Right: Input the command string used to move pan-tilt camera cradle to home or up/down/left/right position. You can click 'Test' button to send command string for testing.</li> <li>- Command 1 ~ 5: You can define extra pan-tilt camera cradle control strings here by giving it a name (Command Name) and command string (Hexadecimal Message). You can also click 'Test' button to send command string for testing.</li> </ul>

When you finish with above settings, click 'Apply' button to save changes.



### 3-9 Event

When there's an event, you can use this setup page to define what IP camera should do, like send an Email or trigger digital output to activate external alarm.



The screenshot shows a web interface for 'Event' settings. At the top, there's a header with the 'Event' logo and three tabs: 'Setting' (highlighted in red), 'Media', and 'Event Server'. Below the tabs, there's a section titled 'Event setting'. Inside this section, there's a table with columns: 'Modify', 'Remove', 'Title', 'Status', and seven days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat). Below the table, there's a 'New' button.

Modify	Remove	Title	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat
<input type="button" value="Modify"/>	<input type="button" value="Remove"/>	Event1	Enable							

There are three setup pages:



The screenshot shows the header of the Event setup page, including the 'Event' logo and the three tabs: 'Setting', 'Media', and 'Event Server'.


1. Setting: Define a new event and manage events.
2. Media: Define what kind of media file should be saved on designate media.
3. Event Server: Define the details of remote server.

Please refer to following chapters for detailed instructions.

### 3-9-1 Settings

This page lists all existing events. You can click 'Modify' button to edit an existing event, or 'Remove' to delete an existing event.

To create a new even, just click "New" button to add an Event setting.



Setting

Media

Event Server

Event setting

Modify	Remove	Title	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Modify	Remove	Event_1	Enable				▼			

New

Setting

☐ Enable Setting  
Title

Trigger

☐ Motion Detection  
☐ Digital Input 1   
☐ Digital Input 2

Schedule Time

☐ Enable Schedule Time  

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

Time: ☒ Always  
☐ From  :  To  :

Action

☐ Enable FTP  
☐ Enable EMAIL  
☐ Enable Samba( Net Storage )  
☐ Enable SD CARD  
☐ Trigger digital output for  second(s)

Apply

To add a new event, click 'New' button and the descriptions of every setup item is listed below:

Item	Description
Enable Setting	Check this box to enable this event. If you just want to disable this event temporarily, you can uncheck this box to keep this event and disabling while not deleting it.
Title	Input any description text for this event so you can identify it quickly. You can use alphabets, numbers, and symbols include: !\$-.@^_~ (no spaces allowed).
Motion Detection	Check this box and this event will be activated when one of motion detection window detects motion.
Digital Input 1 ~ 2	Check this box and this event will be activated when digital input 1 or 2's input signal is high or low (select from dropdown list).
Enable Schedule Time	Check this box and this event will be activated when designated weekday and time is reached. You also have to check weekday box, and select time from dropdown list. If you select 'Always' as time, this event will be activated during all the day.
Enable FTP	Check this box and IP camera will save file on FTP server (refer to 'FTP Server' setting in 'Event Server' tab) when this event is activated.
Enable EMAIL	Check this box and IP camera will send an Email to designated recipient address (refer to 'SMTP Server' setting in 'Event Server' tab) when this event is activated.
Enable Samba (Net Storage)	Check this box and IP camera will save file on samba server (refer to 'Samba Server' setting in 'Event Server' tab) when this event is activated.
Enable SD CARD	Check this box and IP camera will save file on SD card when this event is activated. A working SD card must be inserted into IP camera in advance.
Trigger digital output for xx second(s).	Check this box and IP camera will trigger digital out to 'high' state for xx seconds when this event is activated, where 'xx' seconds must be defined by the dropdown list.

### 3-9-2 Media

You can define what kind of media file should be saved on designated media.

**Media**  
☐ One Snapshot  
☒ H.264 Video Maximum Size:3 Megabytes  
Pre Event  second(s)  
Post Event  second(s)

Apply

Here are the descriptions of every setup item:

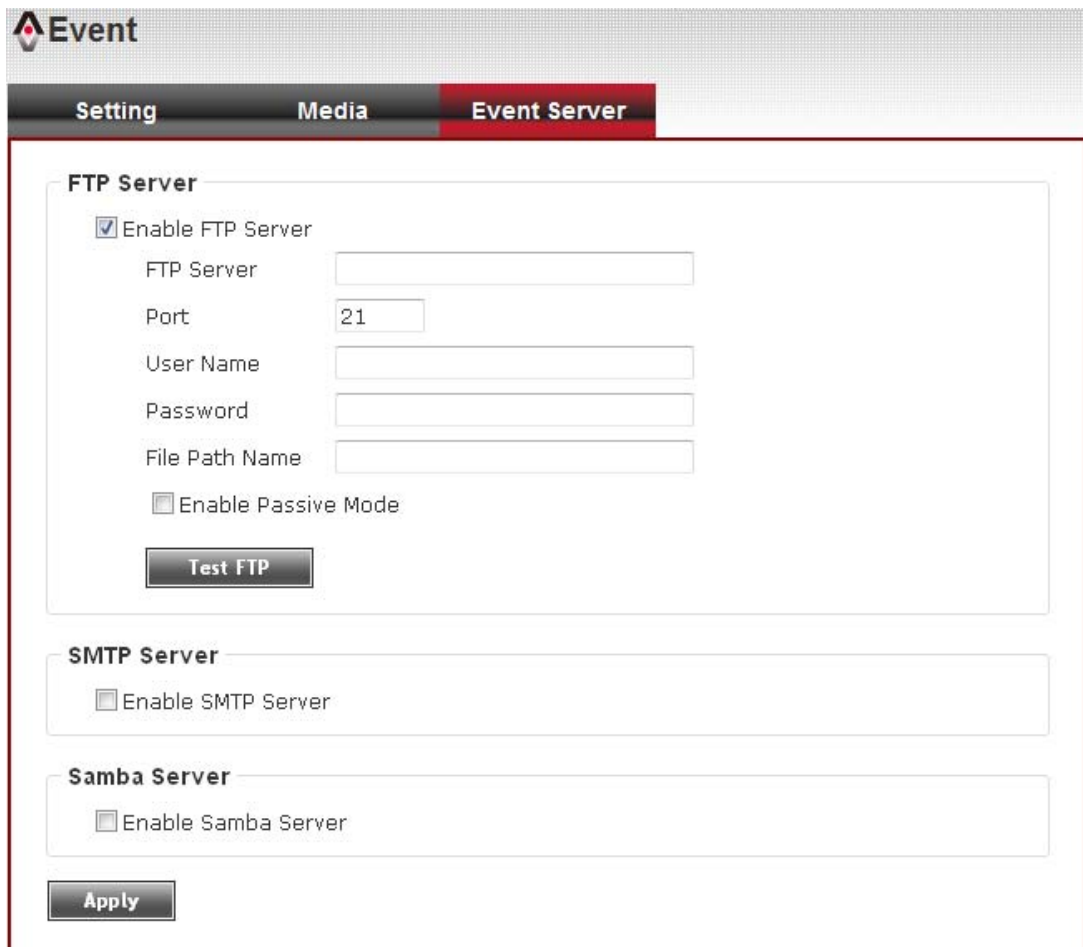
Item	Description
One Snapshot	Save a picture file when event is triggered.
H.264 Video	<p>Save a H.264 video clip. You can also select the recording length before and / or after the time when event is triggered in 'Pre Event' and 'Post' Event'. For example, if you set 'Pre Event' to '10' and 'Post Event' to 5', and an event is triggered at 14:10:30, then the video file will be 15 seconds long, starting from 14:10:20 to 14:10:35.</p> <p><b><i>Tips: You may want to know what happened before event is triggered in many cases, especially when object is outside of motion detection window.</i></b></p> <p><b><i>Note: If the "Pre Event" set to "0" second, the "Post Event" cannot set to "0" second.</i></b></p>

When you finish with above settings, click 'Apply' button to save changes.

### 3-9-3 Event Server

You can define the details of remote media server: FTP (File), SMTP (Email), and Samba (File).

***A Samba server can be any computer running windows operating system with network neighbor function enabled. Many stand-alone network file server also support samba server function.***



The screenshot shows a web-based configuration interface for an "Event" system. At the top, there is a header bar with the "Event" logo and three tabs: "Setting", "Media", and "Event Server". The "Event Server" tab is currently selected. Below the tabs, the interface is divided into three main sections: "FTP Server", "SMTP Server", and "Samba Server".

**FTP Server**

- ☒ Enable FTP Server
- FTP Server:
- Port:
- User Name:
- Password:
- File Path Name:
- ☐ Enable Passive Mode
- 

**SMTP Server**

- ☐ Enable SMTP Server

**Samba Server**

- ☐ Enable Samba Server

At the bottom of the configuration area, there is an  button.

Here are the descriptions of every setup item:

Item	Description
Enable FTP Server	<p>Check this box to enable FTP server upload.</p> <p><input checked="" type="checkbox"/> Enable FTP Server</p> <p>FTP Server <input type="text"/></p> <p>Port <input type="text" value="21"/></p> <p>User Name <input type="text"/></p> <p>Password <input type="password"/></p> <p>File Path Name <input type="text"/></p> <p><input type="checkbox"/> Enable Passive Mode</p> <p><input type="button" value="Test FTP"/></p> <ul style="list-style-type: none"> <li>- FTP Server: Input FTP server's IP address or hostname.</li> <li>- Port: Input FTP server's port number. In most cases it should be default value '21'.</li> <li>- User Name: Input FTP server's username.</li> <li>- Password: Input FTP server's password.</li> <li>- File Path Name: Input the path where you want to save file on FTP server, like 'upload/record'. If you want to save file on this FTP user's home directory, you can leave this field blank.</li> <li>- Enable Passive Mode: Check this box to force IP camera to communicate with FTP server in passive mode (Some FTP Server may only work when you check this box, while others don't).</li> <li>- Test FTP: Click this button to test FTP server settings above immediately.</li> </ul>

SMTP Server	<p>Check this box to enable Email send.</p> <div data-bbox="531 257 1361 981"> <p><b>SMTP Server</b></p> <p><input checked="" type="checkbox"/> Enable SMTP Server</p> <p>SMTP Server <input type="text"/></p> <p>Port <input type="text" value="25"/></p> <p>Sender Email Address <input type="text"/></p> <p>Receiver #1 Email Address <input type="text"/></p> <p>Receiver #2 Email Address <input type="text"/></p> <p>Subject <input type="text" value="SIU7110"/></p> <p><input type="checkbox"/> Authentication</p> <p>User Name <input type="text"/></p> <p>Password <input type="text"/></p> <p><input type="checkbox"/> Requires SSL Encryption</p> <p><input type="checkbox"/> STARTTLS</p> <p><b>Test SMTP</b></p> </div> <ul style="list-style-type: none"> <li>- SMTP Server: Input SMTP server's IP address or hostname.</li> <li>- Port: Input SMTP server's port number. In most cases it should be default value '25'.</li> <li>- Sender Email Address: Input the sender's email address that will appear in the Email send by IP camera. This will help you to identify the Email sent by this IP camera, and may help when you have anti-spam software installed (you can set this Email address to 'White List' in your anti-spam software)</li> <li>- Receiver #1 Email Address: Input primary recipient's Email address. This field is required.</li> <li>- Receiver #2 Email Address: Input backup recipient's Email address. This field is optional.</li> <li>- Subject: Input Email title that will appear in the Email send by IP camera. This will help you to identify the Email sent by this IP camera.</li> <li>- Authentication: Check this box when authentication is required by the Email server you're using. You also need to input Email server's</li> </ul>
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>username and password in corresponding field.</p> <ul style="list-style-type: none"> <li>- Requires SSL Encryption: If your Email server required SSL encryption, check this box. Please note that some Email server uses different port number than standard port 25 when SSL encryption is used.</li> <li>- STARTTLS: If your Email server required STARTTLS encryption, check this box. Please note that some Email server uses different port number than standard port 25 when STARTTLS encryption is used.</li> <li>- Test SMTP: Click this button to test SMTP server settings above immediately.</li> </ul>
Samba Server	<p>Check this box to enable Samba server file upload.</p> <p><input checked="" type="checkbox"/> Enable Samba Server</p> <p>Samba Server Address <input type="text"/></p> <p>Path <input type="text"/></p> <p>User Name <input type="text"/></p> <p>Password <input type="password"/></p> <p><input type="button" value="Test SMB"/></p> <ul style="list-style-type: none"> <li>- Samba Server Address: Input Samba server's IP address or hostname.</li> <li>- Path: Input the path where you want to save file on Samba server, like 'upload/record'. If you want to save file on this user's home directory, you can leave this field blank.</li> <li>- User Name: Input Samba server's username.</li> <li>- Password: Input Samba server's password.</li> <li>- Test SMB: Click this button to test Samba server settings above immediately.</li> </ul> <p><b><i>Tips: Some samba server does not have username and password check, you can just input samba server address and path to access the file storage space.</i></b></p>

When you finish with above settings, click 'Apply' button to save changes.



### 3-10 Recording to SD Card

When a SD card is inserted into IP camera, you can save video files on it.

**Note:**

- 1. Be sure that the SD Card format should be FAT32. The NTFS format cannot be supported by this camera.**
- 2. Unlink motion detection, this function will record video at specified time period on selected weekday(s).**

**Recording**

☒ Enable External storage Recording

Maximum Size of Each File  MB

☐ Enable adding timestamp to files

**Recording Schedule**

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

Time: ☒ Always

☐ From  :  To  :

**Apply**

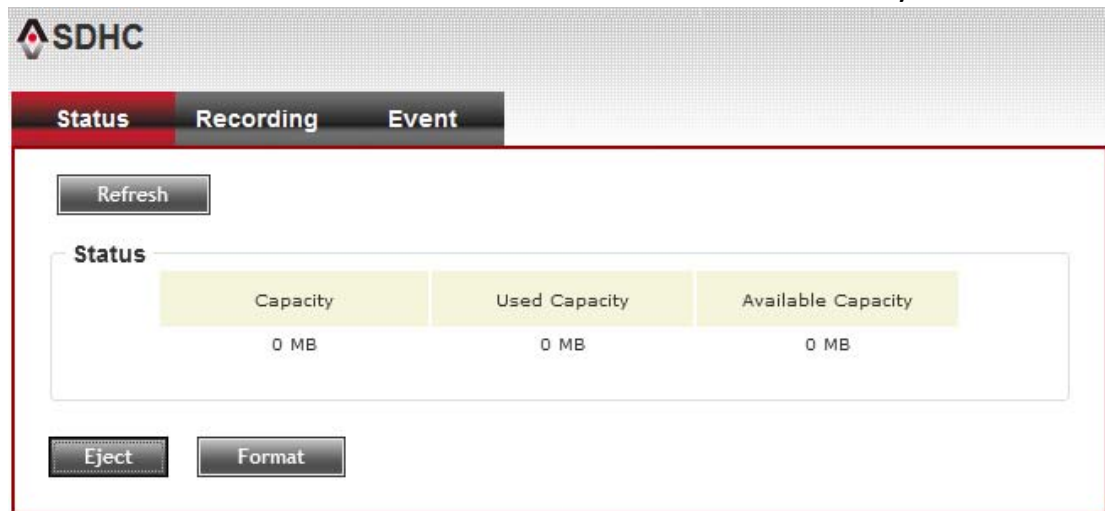
Here are the descriptions of every setup item:

Item	Description
Enable External storage Recording	Check this box to record video on SD card.
Maximum Size of Each File	Input the maximum size of every video file from 1MB to 50MB. IP camera will start a new video file when a recording video file reaches the size limit stated here.
Recording Schedule	Define the recording schedule. You can check Sun to Sat boxes to represent a weekday, and specify time period in 'From' and 'To' field. Select 'Always' to record 24 hours in selected weekday(s).

When you finish with above settings, click 'Apply' button to save changes.

### 3-11 SDHC

The IP camera module has an optional SD card slot PCBA board. The standard module does not include this board. The UI shows the capacity is 0 MB when the module without SD card slot and memory card.



If you need the function please check the option when you place the order of the IP camera module.

Once the module equipped SD card slot and SD card is inserted, the UI will show the capacity of the SD card like the image hereunder.



There are two UI pages to show the record on the SD card. They are mapping to the setting of "Recording to SD card" and "Event" accordingly.

Click "All file" to list all files. You also can define the range and click "Search" to sort the files needed. It shows like the images in the next page.

Status

Recording

Event

All file

Search

Start Time

2012 / 09 / 05 13 : 46 : 31

End Time

2012 / 09 / 05 13 : 56 : 31

Search

Status

Recording

Event

All file

Search

Start Time

2012 / 09 / 05 13 : 47 : 03

End Time

2012 / 09 / 05 13 : 57 : 03

Search

Set the time range then click “Search” then shows the records like below.

Status

Recording

Event

All file

Search

Start Time

2012 / 08 / 05 13 : 53 : 09

End Time

2012 / 09 / 05 14 : 03 : 09

Search

Search Result

Page 1 / 1

Size : KB

	File Name	Size	Date
	SIVD7137-08092012-002443.avi	8255	Thu Aug 9 00:25:40 2012
	SIVD7137-08092012-002340.avi	10290	Thu Aug 9 00:24:42 2012
	SIVD7137-08092012-002235.avi	10291	Thu Aug 9 00:23:38 2012
	SIVD7137-08092012-002131.avi	10292	Thu Aug 9 00:22:34 2012

First page

Previous

Next

Final page

Status

Recording

Event

All file

Search

Start Time

2012 / 08 / 01 13 : 54 : 09

End Time

2012 / 08 / 31 14 : 04 : 09

Search

Search Result

Page 1 / 1

Size : KB

	File Name	Size	Date
	SIVD7137-08092012-002613.avi	1528	Thu Aug 9 00:26:26 2012

First page


Previous

Next

Final page

### 3-12 Log

You can check the usage log of IP camera here.

 Log

**System Log**

Item	Date and Time	Event
1.	06/12/2011 19:13:53	admin login on 1.677728.705901.707517
2.	06/12/2011 18:09:04	[EVENT MGR]: reload config file
3.	06/12/2011 18:07:43	[EVENT MGR]: reload config file
4.	06/12/2011 18:07:43	admin login on 1.677728.705901.707531
5.	06/12/2011 18:02:08	[EVENT MGR]: reload config file
6.	06/12/2011 17:37:25	admin login on 1.564392.592565.564392
7.	06/12/2011 11:36:50	admin login on 1.564392.592565.593691
8.	06/12/2011 11:06:50	admin login on 1.564392.592565.594071
9.	06/12/2011 09:37:11	admin login on 1.602008.630181.602008
10.	06/12/2011 09:03:02	admin login on 1.461328.489501.490750
11.	06/12/2011 09:01:54	[RTSP SERVER]:Start one session<192.168.94.101>
12.	06/12/2011 09:01:53	[RTSP SERVER]:Stop one session<192.168.94.101>
13.	06/12/2011 05:01:47	[NET]:UPnP AV Disable
14.	12/31/1969 16:00:50	[RTSP SERVER]:Start one session<192.168.94.101>
15.	12/31/1969 16:00:49	[RTSP SERVER]:Stop one session<192.168.94.101>
16.	12/31/1969 12:00:43	[NET]:UPnP AV Disable
17.	12/31/1969 21:33:23	admin login on 1.611792.639965.641420
18.	12/31/1969 16:00:55	Sync with NTP server: [1969/12/31 16:00:55]
19.	12/31/1969 16:00:51	[RTSP SERVER]:Start one session<192.168.94.101>
20.	12/31/1969 16:00:49	[RTSP SERVER]:Stop one session<192.168.94.101>

[First page](#) [Previous](#) [Next](#) [Final page](#)

[Remove](#)


In this page, you can click:

1. First page / Final page: Jump to first / final page of log.
2. Previous / Next: Jump to previous or next page of log.
3. Remove: Clear log. You'll be prompted for confirmation.

### 3-13 Device Info

You can check the information and network settings of this IP camera. These information are very useful when you need to repair or fix the problem of this IP camera.

An example of device info page look like this:

 **Device info**

**Basic**

Camera Name	SIB7000
Firmware version	1.0.18_12012009
MAC	00:01:02:02:80:08
Camera Date and Time	06/12/2011 19:31:11

**H.264**

Video Resolution	2048x1536 (QXGA)
Video Quality	Normal
Frame Rate	20 fps

**Audio**

Microphone In	Enable
Microphone Gain	+10 dB
Speaker Out	Enable

**Mobile View**

3GPP Enable	Disable
-------------	---------

**Network**

IP MODE	DHCP IPv4/IPv6
IP Address(IPv4)	192.168.94.101
IP Address(IPv6)	
Subnet Mask	255.255.255.0
Gateway	192.168.94.254
Primary DNS	192.168.94.254
Secondary DNS	0.0.0.0

## 3-14 Maintenance

You can do some maintenance job about this IP camera here.

**Maintenance**

**Reboot**  
System will be rebooted.  
**Reboot**

**Factory Reset**  
Factory reset will restore all the settings to factory default.  
**Reset**

**Backup**  
**Backup** **Backup to SD card device**

**Restore**  
Select the configuration file to restore  
 **Browse...** **Restore**  
**Restore from SD card device**

**Firmware**  
Current Firmware Version 1.0.18\_12012009  
 **Browse...** **Upgrade**

Here are the descriptions of every setup item:

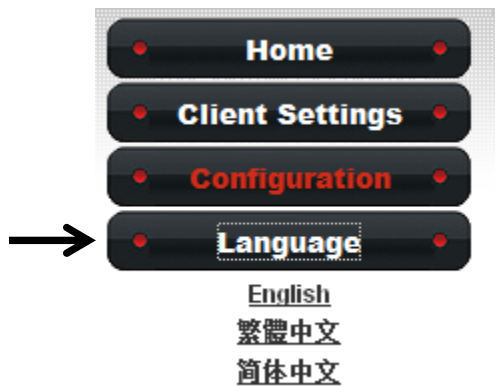
Item	Description
Reboot	Click this button to reboot the IP camera. This function is useful when you find IP camera is not working properly.
Reset	Clear all settings of IP camera and reset to factory default setting.
Backup	Backup IP camera's setting and save it on your computer.
Backup to SD card device	Backup IP camera's setting and save it on SD card. A SD card must be inserted into SD card slot when you click this button, or you'll receive an error message.
Restore	Restore a previously-saved configuration file saved on your computer. Click 'Browse' button to select a file on your computer first, then click 'Restore'

	button.
Restore from SD card device	Restore IP camera's configuration which is previously-saved on SD card.
Upgrade	Upgrade IP camera's firmware. Click 'Browse' button to select a firmware image file on your computer first, then click 'Upgrade' button.

### 3-15 Language

You can change the display language of web interface.

Click 'Language' button and select one language. More languages may available in latest firmware file.





## Chapter IV      Troubleshooting

Please don't panic when you found this IP Camera is not working properly. Before you send this IP Camera back to us, you can do some simple checks to save your time:

Problem description	Possible solution(s)
Can't connect to IP Camera	<ol style="list-style-type: none"><li>1) Please check the IP address of IP Camera again.</li><li>2) Please make sure the network cable is correctly connected to your local area network.</li><li>3) Please make sure power cable is correctly connected to IP Camera.</li><li>4) Please make sure IP Camera is switched on (the LED lights on IP Camera will light up).</li></ol>
No IP Camera found	<ol style="list-style-type: none"><li>1) 'Auto search' function only works on IP Cameras located on local area network.</li></ol>
No image	<ol style="list-style-type: none"><li>1) If the place where IP camera is installed is too dark, try to add some lights when possible.</li><li>2) Check if there's anything covering the lens.</li></ol>

## Chapter V Specification

IMAGE	
Image Sensor	1/2.5" 5 Mega pixel Color CMOS sensor
Resolution	2592x 1944
Sensitivity	0.5 Lux 1/F1.2
Lens	CS mount Lens
Auto Iris	DC-Iris support
NIGHT VISION	
Night vision function	Built-in removable IR cut filter
NETWORK VIDEO	
Compression	H.264, MPEG-4, M-JPEG
Auto Exposure Control	Yes
Auto White Balance	Yes
Auto Gain Control	Yes
Text Overlay	Text and Date-time
Image Overlay	Support JPG and Bitmap image format
Image resolution	QXGA (2048 x1536): 20 fps 1080p (1920 x 1080): 30 fps Quad-VGA (1280 x 960): 30 fps 720p (1280 x 720): 30 fps VGA (640 x 480): 30 fps QVGA (320 x 240): 30 fps
High Resolution mode:	MJPEG@QXGA/1080 p or H.264 QXGA/1080p or MPEG4@1080p
Multi-stream mode:	MJPEG@720p/D1/VGA/QVGA/QCIF and H.264 @720p/D1/VGA/QVGA/QCIF or MPEG4@720p/D1/VGA/QVGA and 3GPP
SYSTEM	
Network Processor	DSP base ( Davinvi TMS320DM368)
Power	DC12V/AC24V
Power Consumption	8 watts max.
Environment	Operation Temperature: 0°C ~ 50°C Humidity: 20% ~ 85% non-condensing
	Storage Temperature: -15°C ~ 60°C Humidity: 0% ~ 90% non-condensing
Approval	CE, FCC class B
Video Out	
Composite	CVBS / 1 Vp-p±0.2 / 75 Ohms ; BNC connecter

<b>AUDIO</b>	
Audio Input	Internal Omni-directional Microphone Sensitivity: more than -42Db +/- 3dB Freq Response: 100~10000Hz External Mic. In ;
Audio Output	Line level out ;1 Vrms ; 3.5mm phone jack; Mono
Compression method	PCM/AMR
Audio S/N ratio	More than 60dB
Operation mode	2 way audio
<b>ALARM</b>	
Alarm Input	2 x input for dry contacts, Normal Open / Normal Closed adjustable, input pulse length 50 ms min.
Alarm Output	1 x dry relay contact, Normal Open / Normal Closed adjustable, 70 VDC / 200 mA max
<b>NETWORK</b>	
Interface	One RJ45 port; IEEE 802.3u compliant 10/100 Mbps Fast Ethernet with Auto-MDIX
Support Protocols	TCP/IP,IPV6,UDP,ICMP ,DHCP ,NTP ,DNS ,DDNS ,SMTP ,FTP ,HTTP ,HTTPs ,Samba,PPPoE ,UPnP, Bonjour, RTP,RTSP,RTCP
<b>LED and Button</b>	
Power	Amber Color ;Light on: system power is on; light off: system power is off
Link/act. LED	Green LED: Light on still when link connected; light off when link is off
Rest button	Push and Release bottom will be Reboot Push and hold over 5 sec will be Factory reset
<b>Physical Info.</b>	
WEIGHT	390gm (Camera body only, w/o lens)
DIMENSIONS	130.4mm (L) x 72.15mm (W) x 58.30mm (H)
