3MP_IP_Bullet Network Camera User Manual

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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.
- Support IEEE802.3af Power over Ethernet (PoE) standard.

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.

| ltem 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 | Varifocal 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]



| ltem | 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. 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.



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



3. Connect Ethernet cable to LAN port.



- 4. Plug DC power adapter to power outlet on the wall.
- 5. Connect DC power cable to IP Camera's DC power connector.



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.

Chapter II Using Network IP Camera by Web

Interface

2.1 Locate the IP address of Network IP Camera

You can use your new Network IP Camera by its web user interface via web browser. Currently the viewing system requirement for Network IP camera is:

- 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 must know the IP address of IP Camera before you can connect to it. The IP Camera will use DHCP server on your local network to obtain an IP address automatically by default. So, you can check your DHCP server's IP address lease table to find the IP address of IP Camera.

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".

| Model Name | Host Name | IP Address | Port | MAC Address | Camera IP = 192.168.2.9 |
|------------|-----------|-------------|------|-------------------|---|
| ACM-PT300 | ACM-PT300 | 192.168.2.9 | 80 | 00:0C:0C:A0:03:60 | Made = 00.00.00.30.00 Model Name = ACM-PT300 Version = 1.01.61 Host Name = ACM-PT300 Subnet Mask = 255.255.255.0 Gateway = 192.168.2.1 Primary DNS = 255.255.255.255 Secondary DNS = 0.0.00 HTTP Port = 80 RTSP Port = 554 |
| About | Die | course 0 | Link | Chang | o TP Evit |

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:

| Windows Securi | ty 💽 |
|--|--|
| The server 192 Warning: This sent in an inso connection). | 2.168.94.101 at SMP_IP_BOX requires a username and password. s server is requesting that your username and password be ecure manner (basic authentication without a secure |
| | admin admin The member my credentials |
| | OK Cancel |

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:

| 🥖 3 Megapixels Pan-Tilt IP Camera - Windows Internet Explorer | | | |
|---|---|---------------------------------------|---------------------------|
| ⓒ ○ ♥ 🙋 http://211.21.52.135/default_ie.htm | | 👻 💀 😽 🗶 🔽 Bing | + م |
| 🚖 Favorites 🛛 🚖 🙋 Suggested Sites 👻 🙋 Web Slice Gallery 👻 | | | |
| 2 Megap Pan-mit IP Camera | | 🗄 🔹 🗟 👻 🖷 🔻 🗖 | ige - Sine, - Tools - 🕖 - |
| This website wants to install the following add-on: 'SStreamVideo.cab' from 'Fire and the state of the sta | est Security Systems Co., Ltd'. If you trust the website and the add-on a | and want to install it, click here | × |
| | 3 Megapixels Pan-Tilt IP Camera | ACM-PT300 | |
| | | | |
| • Home • 🔯 | | | |
| Stream H.264 - This is a plu disabled it. | igin activex. If you see this text, it means either your bro | owser does not support activex or has | |

Right click the indication bar and click: "Install This Add-on for All Users on This Computer..." *to install ActiveX plugin.* For IE 9:

This webpage wants to run the following add-on: 'SStreamVideo.cab' from 'Finest Security Systems Co., Ltd'. What's the risk? Allow 💌 🗙

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'

| Windows Secu | rity Alert | | x |
|-----------------------------|-------------------------------------|--|----|
| 💮 Windo | ows Firewal | I has blocked some features of this program | |
| Windows Firewall h | as blocked som | e features of Internet Explorer on all public and private | |
| | Name: | Internet Explorer | |
| G | Publisher: | Microsoft Corporation | |
| | Path: | C:\program files\internet explorer\iexplore.exe | |
| Allow Internet Exp | lorer to commur | icate on these networks: | |
| 📝 Private netv | vorks, such as n | ny home or work network | |
| Public netwo because the | orks, such as the se networks of | ose in airports and coffee shops (not recommended ten have little or no security) | |
| What are the risks | of allowing a pr | ogram through a firewall? | |
| | | Allow access Canc | el |

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.

| • Home • | |
|--|--|
| Stream H.264 • | |
| Preset Go 1:left-top Patrol Go Stop | |
| Digital Output ON OFF | |
| Client Settings Configuration Language | |
| Language | |

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:

| ltem | 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 | Switch digital output interface on or off. | |
| (ON / 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 | |

| Original size / | Switches live image view between original size | |
|----------------------|--|--|
| Fit screen | (full size: 3M pixels) and fit screen (smaller | |
| | size). | |
| | If you want to see video in detail, switch to | |
| لغا / تقا | 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. | |
| 'Connect' button | Start live video view. | |
| | | |
| | | |
| 'Disconnect' button | Stop live video view. | |
| | | |
| 'Snapshot' button | Take a snapshot or camera video and save | |
| | image file on your computer. When you click | |
| | this button, a new window will appear: | |
| | Sava Picture | |
| | | |
| | | |
| | | |
| | Ben | |
| | | |
| | | |
| | | |
| | | |
| | 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'. | |
| | | |
| 'Start Video Record' | Click this button to record video and save video | |
| button | file on your computer. You'll be prompted to | |
| | indicate the folder on your computer to save | |
| | video file. | |
| 'Enable Digital | This function will enlarge video view digitally | |

| Zoom' button | from 1X to 10X, so you can see objects in video |
|-------------------|--|
| €. | in detail. |
| | 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. |
| Enable / Disable | When mute is enabled (💌), you will not hear |
| mute button | the voice from IP camera; If you want to hear |
| 📕 , 🚺 | voice from IP camera, click this button to |
| | disable mute (🔳). |
| | You can drag the slide bar (|
| | enable/disable mute button to adjust audio |
| | playback volume. |
| Start / Stop talk | Start or stop playing your voice through IP |
| Button | camera's audio output. When talk is stopped, |
| R (R | people at IP camera will not hear you. |
| | 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. |

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:

| rotocol Option | |
|---------------------------------------|--------|
| RTSP | |
| © HTTP | |
| Folder: C:\Recording Prefix: CLIP | Browse |
| Add date and time suffix to file name | |

| Here are | the descri | ptions of | everv setu | p item: |
|----------|------------|-----------|------------|---------|
| | | | | |

| ltem | Description | |
|---------------------|--|--|
| RTSP | Select this option to use RTSP (Real-Time | |
| | Streaming Protocol) to transfer video data. | |
| НТТР | 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 | Check this box to add data and time to the | |
| suffix to file name | ending part of video file's filename, so you can | |
| | see the date and time the video file is created | |
| | directly from its filename. | |

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.

| • |
|---|
| |
| |
| |
| |
| |
| |
| |
| |
| |

Here are the descriptions of every setup item:

| ltem | 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 | Select this option and date / time setting will not | |
| date and time | 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 | Select this item and IP camera will use your | |
| computer time | computer's time as its time. | |
| Synchronize with | Select this item and IP camera will keep its date | |
| NTP Server | 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. | |
| | | |
| | 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. | |
| Set Manually | Set IP camera's date and time manually. Please | |
| | set current date and time by 'Date' and 'Time' | |
| | dropdown menu. | |

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').

| Administrator | | |
|---|---|-----------------------|
| Password | | |
| Retype Password | | Modify |
| * Administrator pass | word length must be betwee | n 4 and 8 characters. |
| | | |
| -Account_list | | |
| Account List | New Account | Remove |
| | | |
| | | |
| | | |
| | | |
| User Name | | |
| Password | | |
| Retype Password | | |
| Authority | User 👻 | New |
| | | |
| * User name length r * Password length m | must be between 1 and 32 c ust be between 4 and 8 chai | characters. |
| reasoned ranger in | | locters, |

Here are the descriptions of every setup item:

| Item | Description | |
|-------------------|--|--|
| Password / Retype | Input administrator's new password in both | |
| Password | 'Password' and 'Retype Password' field, and | |
| (Administrator) | click 'Modify' button to change administrator's | |
| | password. | |
| | 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. | |
| 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. | |
| | If no user is existed, 'New Account' message will | |
| | be shown here. | |
| User Name | Input new user's username here. User name | |
| | must be greater than 1 character and less than | |
| | 32 characters. | |
| Password / Retype | Input this user's password in both 'Password' | |
| 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.

| General Advar | ced | |
|---------------|-------------------|--|
| Network type | | |
| LAN | | |
| C DHCP IF | v4 | |
| OHCP IF | v4/IPv6 | |
| 🔘 Static IF | v4/IPv6 | |
| 📝 Enable | IPnP Discovery | |
| 🔳 Enable | IPnP Port Mapping | |
| © PPPoE | | |
| Port | | |
| HTTP Port | 80 | |
| RTSP Port | 554 | |
| RTP Data Port | 5556 | |

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: |

| | DHCP IPv4: Obtain an IPv4 IP address from DHCP server |
|-----------|---|
| | on LAN automatically. |
| | |
| | DHCP IPv4 / IPv6: Obtain both IPv4 and IPv6 address |
| | from DHCP server on LAN automatically. |
| | |
| | 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 IR address |
| | specify an ir address. |
| | IP Address(IPv4): Input IPv4 IP address* |
| | IP Address(IPv6): Input IPv6 IP address* |
| | Prefix Length: Input IPv6 IP address' prefix length |
| | (0-128) |
| | Subnet Mask: Input subnet mask |
| | Gateway: Input gateway address |
| | Primary DNS: Input DNS server's IP address |
| | Secondary DNS: Input backup DNS server's IP |
| | address, you can leave this field blank |
| | |
| | * You can leave this field blank if you only wish to |
| | use IPv/ or IPv6 IP address |
| | |
| | Enable UPnP Discovery: Check this b ox to enable other |
| | devices on network to discover the presence of this IP |
| | camera by UPnP. It's recommended to enable this |
| | function. |
| | |
| | Enable UPnP Port Mapping: When UPnP is enabled. |
| | check this box to enable UPnP's port mapping. |
| PPPoF | Select this option to use PPPoF to connect to network |
| | You have to input PPPoF username and password |
| | assigned by network operator to get connected |
| HTTP Port | Input IP camera's web connection port number here |
| | When this port number is changed you pood to change |
| | woh browsor's port number you used to connect to ID |
| | web browser's port number you used to connect to IP |
| | camera. |

| | 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 | Input RTP data port number here. |
| Port | |

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.

| General | Advanced | | |
|---------------|--------------------------|--|--|
| – Multicast | le Multicast | | |
| Bonjour | le Discovery | | |
| Qos Enab | le Qos | | |
| DDNS | le DDNS | | |
| HTTPS Enab | le HTTPS TPS Port 443 | | |
| Apply | | | |

Here are the descriptions of every setup item:

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

| | Multicast RCTP video port: Input port number for RCTP |
|---------|--|
| | video here. |
| | |
| | Multicast audio port: Input port number for audio |
| | here. |
| | Multicast PCTD audio parts Input part number for PCTD |
| | audio here |
| | addio here. |
| | Multicast TTL: Input TTL value for multicast here. |
| Bonjour | If you're using MacOS and you have Bonjour installed, |
| | you can use it to discover this IP camera. |
| QoS | Enable QoS to improve the data transfer priority of this |
| | IP camera (Your local area network must support QoS). |
| | |
| | You can select Video / Audio's QoS DSCP value (0 to |
| | 63), or both video and audio. |
| DDNS | 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 and TZO |
| | dynamic IP service. |
| | Provider: Select dynamic IP service provider. |
| | Hast Name: Input the bast name you obtained from |
| | dynamic ID service provider |
| | dynamic if service providei. |
| | User name: Input user name used to login dynamic IP |
| | service provider. |
| | Password: Input the password used to login dynamic IP |
| | service provider |
| ΗΤΤΡς | Check 'Enable HTTPS' hox to enable HTTPS channel to |
| | encrypt transferred data. You can also define HTTPS |
| | nort number in 'HTTPS Port' field if you don't want to |
| | use default value 'AA3' |
| | |

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.

| Enable Filter Apply | | |
|-----------------------|---------|--------|
| 192.168.10.1-192.168. | 10.1 | Remove |
| IP Address | ~ | New |
| Deny IP list | 3.10.11 | Remove |
| | | |

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) | address you wish to accept connections here. IP |

| | camera will only accept connections established from these IP address. If you want to specify one IP address only, input the same IP address in both field. |
|----------------------------------|--|
| | IP list. |
| Deny IP list | 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. |
| IP Address (Accepted IP list) | 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. If you want to specify one IP address only, input the same IP address in both field. Click 'New' button to add IP address into deny IP list. |

3-5 Video

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

| a starter | and for | Brightness: - 110 + |
|---|--|---|
| | | Contrast: - 132 + |
| 102 | | Saturation: - 135 + |
| | | Sharpness: - 180 + |
| | | |
| Others Mirror | | |
| Others Mirror Power Line Frequ | Uence NTSC | tical Horizontal /60Hz |
| Others Mirror Power Line Frequ Condition(AWB) | uence NTSC | tical Horizontal /60Hz T |
| Others Mirror Power Line Frequ Condition(AWB) TV out | uence NTSC outdo Ver | tical Horizontal /60Hz por able |
| Others Mirror Power Line Frequ Condition(AWB) TV out WDR | uence NTSC outdo Vence NTSC outdo ON | tical Horizontal /60Hz T por T |
| Others Mirror Power Line Frequ Condition(AWB) TV out WDR IR-Cut(Day/Night | uence NTSC outdo Ven Outdo En: ON E) @ Aut | tical Horizontal /60Hz bor able co 		Always ON(B/W) 		Always OFF(Color) |

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

| Video | | | |
|---------------|---------------|---------|--|
| Image Setting | Video Setting | Overlay | |

3-5-1 Image Setting

You can adjust the image parameters in this page.

| nage Adjustment | - | -/ | Drights agai | |
|---|---|--|---------------------|------------------------------------|
| Comment of the state | 1. | 1-14 | Brightness: | |
| | | | Contrast: | - 132 + |
| | | | Saturation: | - 135 + |
| Total and the second | 1.02. 2 | | Sharpness: | - 180 + |
| Design of the | A CONTRACT OF STREET, | | | 7 |
| | | | Default | L |
| | | And in case of the local division of the loc | | |
| | | | | |
| | | - | | |
| | | | | |
| | | | | |
| others | | | | |
| others Mirror | 🗖 Vertica | al 🗌 Horizon | tal | |
| Others Mirror Power Line Frequence | Vertica NTSC/60 | al 🗌 Horizon' | tal | |
| Athers Mirror Power Line Frequence Condition(AWB) | Vertica NTSC/60 outdoor | al 🔲 Horizoni Hz 👻 | tal | |
| Pthers Mirror Power Line Frequence Condition(AWB) TV out | Vertica NTSC/60 outdoor Renable | al 🔲 Horizon' Hz 👻 | tal | |
| Mirror Power Line Frequence Condition(AWB) TV out WDR | □ Vertica NTSC/60 outdoor ☑ Enable □ ON | al 🗌 Horizon Hz 🔻 | tal | |
| Others Mirror Power Line Frequence Condition(AWB) TV out WDR IR-Cut(Day/Night) | Vertica NTSC/60 outdoor C Enable ON ON Auto | Always ON | tal (B/W) © Alwa | ays OFF(Color) |
| Dthers Mirror Power Line Frequence Condition(AWB) TV out WDR IR-Cut(Day/Night) Day | Vertica NTSC/60 outdoor Enable ON ON Schedu | Always ON | tal (B/W) ◎ Alwa | ays OFF(Color) To: 23 *]; 59 *] |

Here are the descriptions of every setup item:

| Item | Description |
|--------------|---|
| Brightness / | Control the image parameters. Click ' - ' to decrease |
| Contrast / | value, or click ' + ' to increase value. You can also input |
| Saturation / | the value in the field directly. |
| Sharpness | |
| 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. |
| | You can click both 'Vertical' and 'Horizontal' box at the |
| | same time. |
| Power Line | Select the frequency of power line of the place you're |
| Frequency | 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 |

| | from dropdown menu. |
|--------|---|
| | - Auto: IP camera will adjust its parameters |
| | automatically. |
| | - Night: You'll be using this IP camera in dark places |
| | where lights are insufficient. |
| TV Out | Click "Enable" box to enable its "VIDEO OUT" function |
| | for connections and video sending to TV monitors or |
| | DVRs. |
| WDR | Click "on" box to enable its WDR function |
| IR-cut | 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. |
| | You can select the behavior or IR-cut filter: |
| | - Auto: IR filter will act automatically. If you don't |
| | know if you should use IR filter, select this option. |
| | Always ON: IR filter is always on. |
| | Always OFF: IR filter is always off. |
| 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. |

3-5-2 Video Setting

You can adjust the video transfer parameters in this page.

| Main Stream | | |
|------------------------|----------------|--|
| H.264 | | |
| Video Resolution | 1920×1080 (108 | 10P) 🔻 |
| Frame Rate | 30 fps 👻 | |
| Rate Control | Video quality | Normal 👻 |
| | | 1500 |
| | Bitrate | kbps *number must be between 512~4000. |
| MPEG4 | | |
| Mobile View | | |
| Oisable | | |
| 🔘 3GPP without Au | dio | |
| 🔘 3GPP with Audio | | |
| *~One_snapshot_is_supp | oorted | |
| | | |

Here are the descriptions of every setup item:

| Item | Description |
|------------|--|
| H.264 | Select the compression of main stream: H.264 / MPEG4. |
| /MPEG4 | |
| Video | Select video resolution. |
| Resolution | H.264: 2048x1536 (QXGA) / 1920x1080 (1080p) 1280x960 (960p) / 1280x720 (720p) 720x480 (D1) / 640x480 (VGA) 320x240 (QVGA) MPEG4: 1920x1080 (1080p) / 1280x960 (960p) 1280x720 (720p) / 720x480 (D1) 640x480 (VGA) / 320x240 (QVGA) MJPEG: 1280x720 (720p) / 720x480 (D1) 640x480 (VGA) / 320x240 (QVGA) |

| | when video encoder is 'MPEG4'. |
|------------|---|
| | When network speed is insufficient, select a lower video |
| | resolution will help. |
| Frame Rate | Select video frame rate. Please note that some frame |
| | rate is not available when video encoder is 'H.264'. |
| | When network speed is insufficient, select a lower frame |
| | rate will help. |
| Rate | Select video bit rate. You can control bit rate by both |
| Control | 'Video quality' and 'Bitrate': |
| | 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. 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. |

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.

| | | 10000000000000000000000000000000000000 |
|-------------------------|--|--|
| Time Stamp | | |
| 🔲 Enable Ti | me Stamp | |
| 🔲 Rem | iove the background c | color of the text |
| Text | | |
| 🔲 Enable Te | ext Display | |
| Text 9 | MAX | *length must be between 1~15. |
| 🔲 Rem | ove the background c | color of the text |
| Image | | |
| 🔲 Enable Ir | nade Overlav | |
| User D | efine Image | Browse Update |
| 1. On 2. Ma 3. Ma | y support:Bitmap/JPG/JP kimum width and height: kimum size:64KB. | PEG. 160x128,and must be multiple of 4. |
| | | |
| | | |

Here are the descriptions of every setup item:

| Item | Description |
|--------------------|---|
| Enable Time | Check this box to enable overlaying time stamp on |
| Stamp | video. |
| Remove the | Check this box to remove time stamp's |
| background color | background color. You may find this will help the |
| of the text | readability of time stamp text in some cases. |
| (for Time Stamp) | |
| Enable Text | Check this box to display certain text on video, this |
| Display | 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 | Check this box to remove custom text's |
| background color | background color. You may find this will help the |
| of the text (Text) | readability of text in some cases. |

| Enable Image | Check this box to overlay a specific image on |
|--------------|--|
| Overlay | video, so you can show certain text / picture on |
| | the video and help people to identify this IP |
| | camera. |
| | 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: |
| | - Select .bmp / .jpg / .jpeg image files only. |
| | - Image's resolution should be less than 160 x |
| | 128, and can be divided by 4. |
| | - Do not upload image files that size is greater |
| | than 64KB. |

3-6 Audio

You can adjust audio input / output parameters here.

| Microphone | | | |
|---------------------|------------|---|--|
| 🗵 Enable Microphone | | | |
| Audio Type | G711 u-law | ¥ | |
| Microphone Gain | +10 dB | • | |
| Speaker | | | |
| Audio Type | G711 u-law | * | |

Here are the descriptions of every setup item:

| Item | Description |
|----------------|---|
| Enable | Check this box to enable microphone. If you don't |
| Microphone | want to hear voice from IP camera, you can uncheck |
| | this box to disable it. |
| Audio Type | The format is fixed as G.711 |
| (Microphone) | |
| Microphone | If the voice received by microphone is too loud or |
| Gain | silent, you can use this function to improve voice |
| | volume, so you can hear voice from IP camera more |
| | clearly. |
| | - Select -2 or -1 dB to correct the voice that is too |
| | loud; |
| | - Select 0 dB and IP camera will do nothing on the |
| | voice; |
| | - Select +2 dB to +26 dB to amplify the voice. |
| Enable Speaker | Check this box to enable speaker. If you don't want |
| (Speaker) | people at IP camera to hear you, you can uncheck |
| | this box to disable it. |
| Audio Type | The format is fixed as G.711 |
| (Speaker) | |

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 | Check this box to enable motion detection. |
| Detection | |
| Enable | Check this box to enable this motion detection |
| (Window 1 to | window. You can select window 1 to 3 to enable up |
| Window 3) | 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: |

| | Motion Window |
|--------------|---|
| | |
| | |
| | - Move: Use the mouse to drag the title text. |
| | - 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). |
| Title | Input characters in title field to change motion |
| (Window 1 to | detection area's title text so you can identify it. |
| Window 3) | 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. |

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.

| Enable RS-485 | | | |
|---------------|--------------|-------------------|------|
| OUse Pelco-D | | | |
| Use Custom P | rotocol | | |
| Port Setting | n | | |
| Baud Rate | 2400 bps 🔻 | | |
| Data Bits | 8 - | | |
| Parity | Parity 👻 | | |
| Stop Bit | 1 • | | |
| Custom Comr | nands | | |
| Home | | Test | |
| Up | | Test | |
| Down | | Test | |
| Left | | Test | |
| Right | | Test | |
| Extended Cor | mmand | | |
| | Command Name | Hexadecimal Messa | ge |
| Command 1 | | | Test |
| Command 2 | | | Test |
| Command 3 | | | Test |
| Command 4 | | - | Test |
| Command 5 | | 1 | Test |
| | | | |

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 | |

| | is widely accepted by most of pan-tilt pan-tilt | | |
|------------|---|--|--|
| | camera cradles. | | |
| | 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. | | |
| Use Custom | When the pan-tilt camera cradle does not support | | |
| Protocol | Pelco-D protocol, you can define a protocol's detail | | |
| | by this function. | | |
| | Please refer to pan-tilt camera cradle's user manual | | |
| | to define the protocol. | | |
| | - 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). | | |
| | - Data Bits: Select data bits of RS-485 | | |
| | connection. | | |
| | - Parity: Select parity bit: odd, even, or space. | | |
| | - Stop Bit: Select stop bit: 1 or 2. | | |
| | - 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. | | |
| | - 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 | | |
| | tosting | | |
| | | | |

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.

| Setting | Media | Event Ser | rver | |
|---------------|--------|-----------|-------------------------------|-------|
| Event setting | 9 | | | |
| Modify | Remove | Title | Status Sun Mon Tue Wed Thu Fi | ri Sa |
| Modify | Remove | Event1 | Enable | |
| New | | | | |

There are three setup pages:

| Event | | |
|---------|-------|--------------|
| Setting | Media | 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.

| Event | | | | |
|---------------|----------------------------|-----------------------|---------------|------------------------|
| Setting | Media | Event Serve | r | |
| Event setting | | | | |
| Modify | Remove | Title | Status Sun Mo | on Tue Wed Thu Fri Sat |
| Modify | Remove | vent_1 | Enable | V |
| New | | | | |
| | | | | |
| etting | | | | |
| Enable Setti | ng | | | |
| Title | | | | |
| Trigger — | | | | |
| Motion [| Detection | | | |
| 🔲 Digital I | nput 1 High | ~ | | |
| 📃 Digital I | nput 2 High | • | | |
| Schedule | Time | | | |
| Enable S | Schedule Time | | | |
| | Sun Mon | Tue Wed | Thu Eri Es | Sat |
| | | | | Jac |
| Ti | me: 🔘 Always | | | |
| | C From 00 |) 🔻 : 00 🔻 To 23 | ▼ : 59 ▼ | |
| | | | | |
| Action | | | | |
| Enable I | FTP | | | |
| Enable I | EMAIL Samba (Nati Char | \ | | |
| Enable : | Samba(Net Stor | age) | | |
| | digital output for | 01 v second(s) | | |
| | | | | |
| Apply | | | | |

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

| ltem | 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 | Check this box and this event will be activated when |
| Detection | one of motion detection window detects motion. |
| Digital Input | Check this box and this event will be activated when |
| 1~2 | digital input 1 or 2's input signal is high or low (select |
| | from dropdown list). |
| Enable | Check this box and this event will be activated when |
| Schedule Time | 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 | Check this box and IP camera will save file on samba |
| (Net Storage) | server (refer to 'Samba Server' setting in 'Event |
| | Server' tab) when this event is activated. |
| Enable SD | Check this box and IP camera will save file on SD |
| CARD | card when this event is activated. A working SD card |
| | must be inserted into IP camera in advance. |
| Trigger digital | Check this box and IP camera will trigger digital out |
| output for xx | to 'high' state for xx seconds when this event is |
| second(s). | 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 Max | ximum Size:3 Megabytes |
| Pre Event | 0 🔻 second(s) |
| Post Event | 5 🔻 second(s) |
| | |
| Apply | |

Here are the descriptions of every setup item:

| ltem | Description | | | |
|--------------|--|--|--|--|
| One Snapshot | Save a picture file when event is triggered. | | | |
| H.264 Video | 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. | | | |
| | Tips: You may want to know what happened before event is triggered in many cases, especially when object is outside of motion detection window. Note: If the "Pre Event" set to "0" second, the "Post Event" cannot set to "0" second. | | | |

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.

| | Media | Event Server | |
|--------------|----------------|--------------|--|
| TP Server | | | |
| 🗷 Enable FTP | Server | | |
| FTP Serve | er | | |
| Port | 21 | | |
| User Nan | ne | | |
| Passwor | d | | |
| File Path | Name | | |
| 🔳 Enabl | e Passive Mode | | |
| | | | |
| Test | FTP | | |
| | | | |
| SMTP Server | | | |
| Enable SMT | 「P Server | | |
| amba Server | | | |
| annoa server | | | |

| Item | Description | | |
|------------|--|--|--|
| Enable FTP | Check this box to enable FTP server upload. | | |
| Server | Inable FTP Server | | |
| | FTP Server | | |
| | Port 21 | | |
| | User Name | | |
| | Password | | |
| | File Path Name | | |
| | 🔲 Enable Passive Mode | | |
| | Test FTP | | |
| | FTP Server: Input FTP server's IP address or | | |
| | hostname. | | |
| | Port: Input FTP server's port number. In most cases | | |
| | it should be default value '21'. | | |
| | User Name: Input FTP server's username. | | |
| | Password: Input FTP server's password. 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. | | |
| | - 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). | | |
| | - Test FTP: Click this button to test FTP server settings | | |
| | above immediately. | | |

Here are the descriptions of every setup item:

| SMTP Server | Check this box to enable Email send. | | |
|-------------|--|---|--|
| | SMTP Server | | |
| | 🗷 Enable SMTP Server | | |
| | SMTP Server | | |
| | Port | 25 | |
| | Sender Email Address | | |
| | Receiver #1 Email Address | | |
| | Receiver #2 Email Address | | |
| | Subject | SIU7110 | |
| | Authentication | | |
| | User Name | | |
| | Password | | |
| | 🔲 Requires SSL Encrypti | on | |
| | STARTTLS | | |
| | Test SMTD | | |
| | | | |
| | Port: Input SMTP servicases it should be defaured be defaured. Sender Email Address address that will apperent address that will apperent by this IP camera have anti-spam software by this IP camera bave anti-spam software by the sent by the software by the software by the sent set address to 'Whe software by the set address to 'Whe software by the set address to 'Whe software by the set address to subject: Input Email addre by IP camera identify the Email sent by IP camera by the set address to the set addr | ver's port number. In most ult value '25'. : Input the sender's email ear in the Email send by IP o you to identify the Email a, and may help when you re installed (you can set this ite List' in your anti-spam Address: Input primary ss. This field is required. Address: Input backup ss. This field is optional. itle that will appear in the hera. This will help you to by this IP camera. eck this box when | |
| | authentication is required authentication is required using. You also | uired by the Email server need to input Email server's | |

| | username and password in corresponding field. 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. 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. Test SMTP: Click this button to test SMTP server settings above immediately. |
|--------------|--|
| Samba Server | Check this box to enable Samba server file upload. Enable Samba Server Samba Server Address Path User Name Password Test SMB Samba Server Address: Input Samba server's IP address or hostname. 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. User Name: Input Samba server's username. Password: Input Samba server's password. Test SMB: Click this button to test Samba server settings above immediately. Tips: Some samba server does not have username and password check, you can just input samba server |

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).

| Ena | ble External storage Recording |
|-----|----------------------------------|
| | Maximum Size of Each File 10 MB |
| | Enable adding timestamp to files |
| | |
| | Recording Schedule |
| | Sun Mon Tue Wed Thu Fri Sat |
| | Time: 💿 Always |
| | © From 0 ▼ : 0 ▼ To 0 ▼ : 0 ▼ |
| | |

Here are the descriptions of every setup item:

| Item | Description |
|-------------------|---|
| Enable External | Check this box to record video on SD card. |
| storage Recording | |
| Maximum Size of | Input the maximum size of every video file from |
| Each File | 1MB to 50MB. IP camera will start a new video |
| | file when a recording video file reaches the size |
| | limit stated here. |
| Recording | Define the recording schedule. You can check |
| Schedule | 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). |

3-11 Log

You can check the usage log of IP camera here.

| Δ | | _ |
|---|----|---|
| | LO | g |

| tem | 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]:UPnPAV 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]:UPnPAV 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> |
| Fir | st page Previous | Next Final page |
| | | |

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.

3-12 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:

| Basic | | | | | | |
|-----------------------|-----------------|--|---------------|--|--|--|
| Camera Name | 3MP_IP_BO | x | | | | |
| Firmware version | 1.01.61 | | | | | |
| MAC | 00:0c:0c:a0 | 00:0c:0c:a0:03:60 12/29/2011 20:21:07 | | | | |
| Camera Date and | Time 12/29/2011 | | | | | |
| 1.264 | | MJPEG | | | | |
| Video Resolution 7 | 20x480 (D1) | Video Resolution | 640x480 (VGA) | | | |
| Video Quality H | ligh | Video Quality | Normal | | | |
| Frame Rate 3 | 0 fps | Frame Rate | 15 fps | | | |
| Audio | | Mobile View | | | | |
| Microphone In E | nable | 3GPP Enable | Disable | | | |
| Microphone Gain + | -18 dB | | | | | |
| Speaker Out D | isable | | | | | |
| letwork | | | | | | |
| IP MODE | Static IPv4/ | /IPv6 | | | | |
| IP Address(IPv4) | 192.168.2.9 | 9 | | | | |
| IP Address(IPv6) | | | | | | |
| Subnet Mask | 255.255.25 | 5.0 | | | | |
| Gateway | 192.168.2. | 1 | | | | |
| Primary DNS | 192.168.1. | 1 | | | | |
| Secondary DNS | 0.0.0 | | | | | |

3-13 Maintenance

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

| Reboot | | | | | |
|-----------|--------------------------------|-------------------|-------------------|---------|--|
| System | n will be reboote | d. | | | |
| Rei | boot | | | | |
| Factory R | eset | | | | |
| Factor | / reset will resto | re all the settin | igs to factory de | fault. | |
| Re | set | | | | |
| Backup | | | | | |
| Bac | kup | Backup to SD | card device | | |
| Restore | | | | | |
| Select | the configuration | n file to restore | 5 1 | | |
| | | | Browse | Restore | |
| | Restore from SD | card device | | | |
| Firmware | | | | | |
| Curren | t <mark>Firmware Vers</mark> i | on 1.0.18_120 | 12009 | | |
| _ | | | | 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 | Backup IP camera's setting and save it on SD card. A |
| card device | 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 | Restore | IP | camera's | configuration | which | is |
| SD card device | previousl | y-sav | /ed on SD ca | ard. | | |
| Upgrade | Upgrade IP camera's firmware. Click 'Browse' button | | | | | |
| | to select a firmware image file on your computer | | | ter | | |
| | first, ther | n clic | k 'Upgrade' | button. | | |

3-14 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 | 1) Please check the IP address of IP Camera | | |
| Camera | again. | | |
| | 2) Please make sure the network cable is | | |
| | correctly connected to your local area network. | | |
| | 3) Please make sure power cable is correctly | | |
| | connected to IP Camera. | | |
| | 4) Please make sure IP Camera is switched | | |
| | on (the LED lights on IP Camera will light | | |
| | up). | | |
| No IP Camera found | 1) 'Auto search' function only works on IP | | |
| | Cameras located on local area network. | | |
| No image | 1) If the place where IP camera is installed is | | |
| | too dark, try to add some lights when | | |
| | possible. | | |
| | 2) Check if there's anything covering the | | |
| | lens. | | |

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 | | | | | |
| | QXGA (2048 x1536): 20 fps | | | | | |
| | 1080p (1920 x 1080): 30 fps | | | | | |
| | Quad-VGA (1280 x 960): 30 fps | | | | | |
| Image resolution | 720n (1280 x 720): 30 fns | | | | | |
| | $V(A (640 \times 480)) = 20 \text{ fm}$ | | | | | |
| | VGA (640 x 480): 30 lps | | | | | |
| | QVGA (320 x 240): 30 fps | | | | | |
| High Resolution mode: | MJPEG@QXGA/1080 p or H.264 QXGA/1080p or | | | | | |
| mgn nesolution mode. | MPEG4@1080p | | | | | |
| | MJPEG@720p/D1/VGA/QVGA/QCIF and | | | | | |
| Multi-stream mode: | H.264 @720p/D1/VGA/QVGA/QCIF or | | | | | |
| | MPFG4@720p/D1/VGA/OVGA and 3GPP | | | | | |
| SYSTEM | | | | | | |
| Network Processor | DSP base (Davinvi TMS320DM368) | | | | | |
| Power | DC12V/AC24V | | | | | |
| Power Consumption | 8 watts max. | | | | | |
| | Operation Temperature: | | | | | |
| - · · | 0° C ~ 50° C Humidity: 20% ~ 85% non-condensing | | | | | |
| Environment | Storage Temperature: | | | | | |
| | -15 $^{\circ}$ C ~ 60 $^{\circ}$ C Humidity: 0% ~ 90% non-condensing | | | | | |
| Approval | CE, FCC class B | | | | | |
| Video Out | | | | | | |
| Composite | CVBS / 1 Vp-p±0.2 / 75 Ohms ; BNC connecter | | | | | |

| AUDIO | | | | |
|--|---|--|--|--|
| | Internal Omni-directional Microphone | | | |
| | Sensitivity: more than -42Db +/- 3dB | | | |
| Audio Input | Freg Response: 100~10000Hz | | | |
| | External Mic In : | | | |
| Audio Output | Line level out :1 Vrms : 3 5mm phone jack: Mono | | | |
| Compression method | PCM/AMR | | | |
| | More than 60dB | | | |
| Operation mode | 2 way audio | | | |
| ALARM | | | | |
| 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 | | | |
| NETWORK | | | | |
| Interfece | One RJ45 port; IEEE 802.3u compliant 10/100 Mbps | | | |
| Interface | 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 | | | |
| LED and Button | | | | |
| 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 when link is off | | | | |
| Post hutton | Push and Release bottom will be Reboot | | | |
| Rest button | Push and hold over 5 sec will be Factory reset | | | |
| Physical Info. | | | | |
| WEIGHT | 390gm (Camera body only, w/o lens) | | | |
| DIMENSIONS | 130.4mm (L) x 72.15mm (W) x 58.30mm (H) | | | |
| | | | | |