



D/N 2MP HD PTZ Dome IR IP Camera



IRS1204 / IRS1208 / IRS1304 / IRS1308

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User Manual

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Summary

LILIN's IRS1204/8 & 1304/8 series feature day/night 2MP HD PTZ dome IR IP cameras. These cameras adopt the latest compression technologies, which allow four simultaneous 1080p streams (Quadruple Streaming) in H.264 or MJPEG formats in different resolutions. LILIN's multiple compression technology allows transmission of high-quality videos in various resolutions such as 2MP, D1, and CIF to suit both high and low bandwidth network environments.

Our dome IR IP cameras are equipped with an intelligent video analytics engine that features sound detection and motion detection, which can send advanced alarm information that is compatible with other software and hardware. Moreover, the cameras provide two-way audio, SD card recording, mobile device live access, email notification with JPEG snapshots, and JPEG-to-FTP upload. Other features include progressive-scan, H.264 high-quality compressed video, and ONVIF compliancy.

LILIN's IRS1204/8 & 1304/8 series also supports LILIN Navigator, a video management application that maximizes the capabilities of the cameras and provides you with a comprehensive video management solution.

Key Features

- Supports various encoding formats (H.264 and MJPEG)
- Multiple Streaming technology, supporting up to four concurrent streams
- Built-in intelligent video analytics engine that can send Email or FTP snapshot alarms
- Day/night video quality scheduling
- Audio and motion detection
- Two-way audio (select models only)
- Bit rate and frame rate on-the-fly adjustment
- Supports Android, iPad, and iPhone mobile live monitoring
- Supports dynamic DNS (DDNS) and network time protocol (NTP)
- Supports HTTPAPI integration
- Supports G.711 (select models only)
- Supports ONVIF protocol
- Supports LILIN Navigator

Trademark Acknowledgments

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Other References

Mobile devices

For mobile surveillance, refer to the detail page of LILINViewer on Apple App Store or Google Play.

LILIN Universal ActiveX Control

Sample codes and documents are included in the product CD and can be downloaded from our company website.

LILIN HTTP API

For non-ONVIF integration, see the LILIN HTTP API document. HTTP API is used in all LILIN IP cameras.

Caution

- Do not drop or damage the equipment
- Do not install the equipment near fire or heat sources
- Keep the equipment from rain, moisture, smoke, or dust
- Do not cover the opening of the cabinet with cloth and/or plastic or install the unit in poorly ventilated places. Allow 10cm between this unit and its surroundings
- Do not continue to operate the unit under abnormal conditions such as smoke, odor, or loss of signal whilst power is turned on
- Do not touch the power cord with wet hands
- Do not damage the power cord or leave it under pressure
- To avoid unnecessary magnetic interference, do not operate this unit near magnets, speaker systems, etc.
- All connection cables should be grounded properly



Chapter 1 System Overview

Chapter 1-1 System Requirements

LILIN's IP cameras adopt compression technology that provide high compression rate and superior video quality. However, video performance depends highly on CPU power and network bandwidth for video streaming. The following sections specify the system requirements for using LILIN IP cameras.

Chapter 1-2 Software Requirements

Merit LILIN Universal ActiveX software components or QuickTime are required for a web browser to display MJPEG or H.264 video. When you first log in to our IP camera, you may see a prompt box as below:



Click **Install** and follow the onscreen instructions to install necessary components.

Also, if necessary, download Flash Player in order to control the PTZ at

<http://www.adobe.com/products/flashplayer>



Chapter 2 Before Accessing IP Cameras

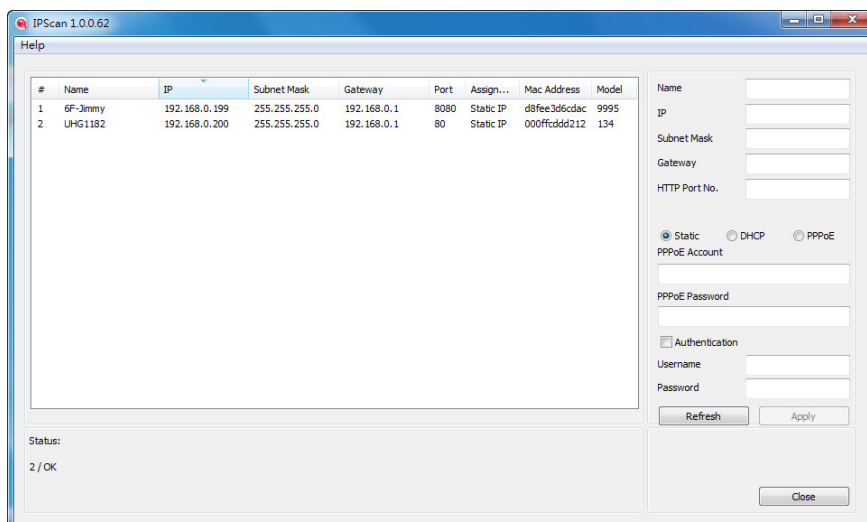
Before accessing the IP cameras, make sure that the camera's RJ-45 network connector, audio cable, and power cable are properly connected. To set the IP address, consult your network administrator. The default IP address for each IP camera is 192.168.0.200. Users can use the default IP address to verify the camera's network connection.

Chapter 2-1 Configure IP Addresses using the IPScan Utility

To configure the IP address of your cameras, download IPScan from our official website:

<http://www.meritlilin.com/webe/html/download>. Or, you can execute the IPScan installer from the installation CD directly. To change the IP address, subnet mask, gateway, or HTTP port of your cameras, follow the steps below:

- Run the IPScan utility
- Click **Refresh**. All available devices will be listed on the screen
- Select the device item from the device list
- To edit or modify IP address, subnet mask, gateway, or HTTP port, use the box
- Click **Apply** for the changes to take effect
- Click **Refresh** again to verify the changed settings



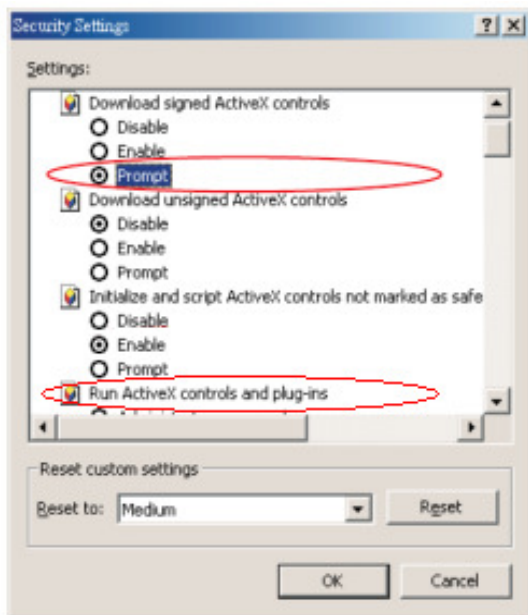
Chapter 2-2 Configure IP Addresses through HTML Connection

To change an IP address on a webpage, type the default IP address (192.168.0.200) into the browser address bar and follow the steps below:

- Log in to your LILIN IP camera using the default username **admin** and default password **pass**
- Click **Setup**→**Network** to edit or modify IP address, subnet mask, gateway, or HTTP port
- Click **Submit** for the changes to take effect.

Chapter 2-3 Web Browser Settings & Software Components Required

Make sure your Internet browser allows signed ActiveX plug-in to run on your PC. Set Download Signed ActiveX plug-in controls to Prompt and enable Run ActiveX control and plug-in. You can set this in **Internet Explorer→Tools→Internet Options→Security→Custom Settings**.



Once completed, you can access the IP camera's live video by entering the default IP address into your web browser. A security warning dialog box will appear. Click **OK** to download the ActiveX directly from the IP camera.

Chapter 2-4 Login

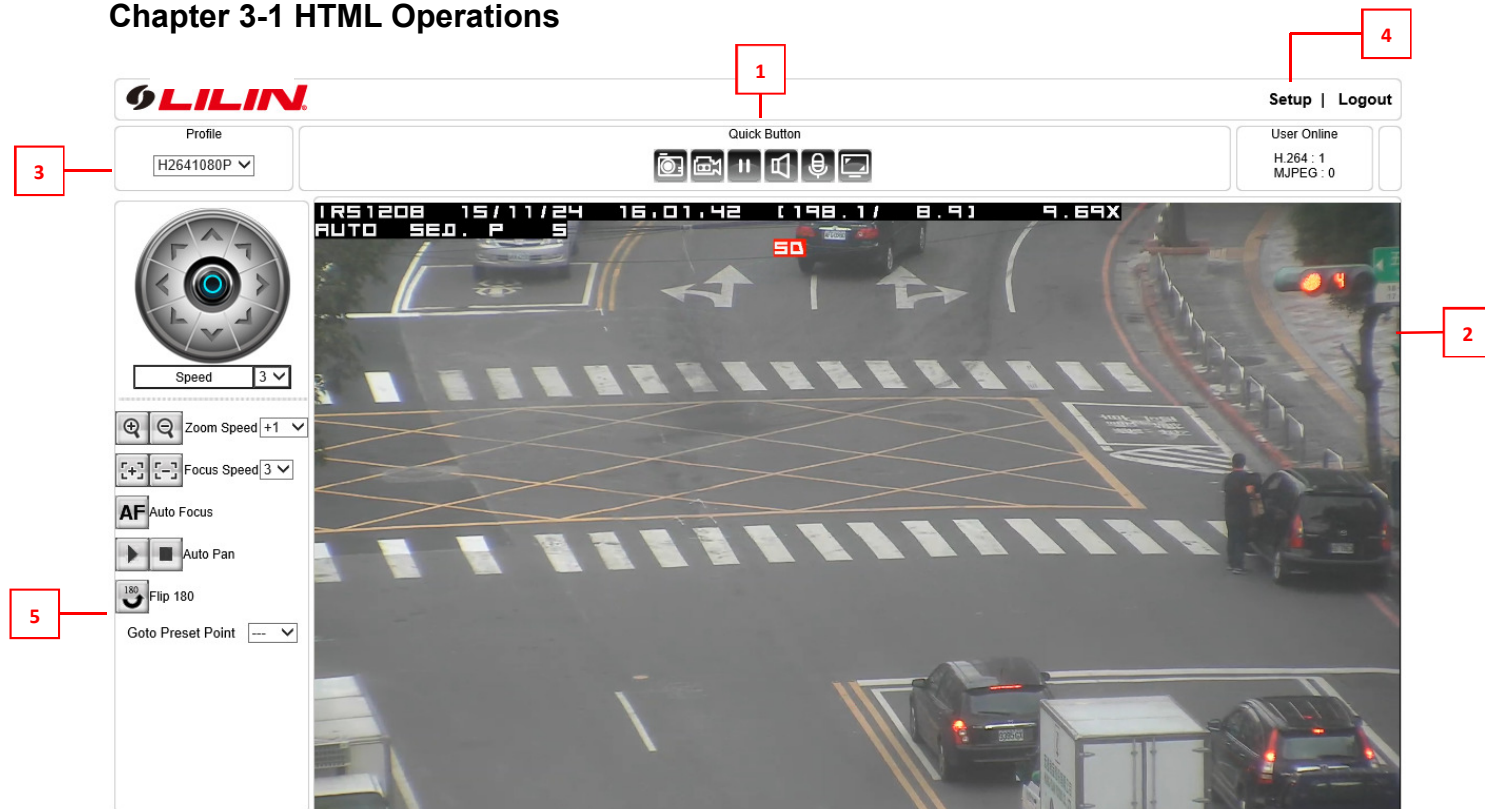
You can log in to the camera as administrator or guest. The default username for administrator is **admin**, and the password **pass**. Then press **submit** to log in.



Chapter 3 LILIN IP Camera Operations

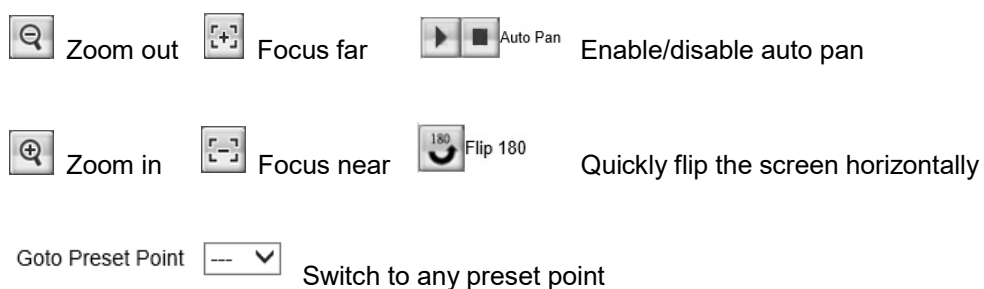
When logged in as an administrator, two main features are available: 1) camera operations and 2) configurations.

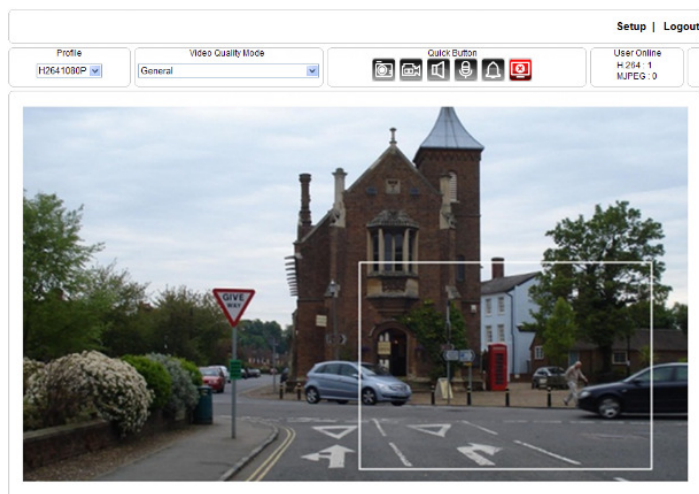
Chapter 3-1 HTML Operations



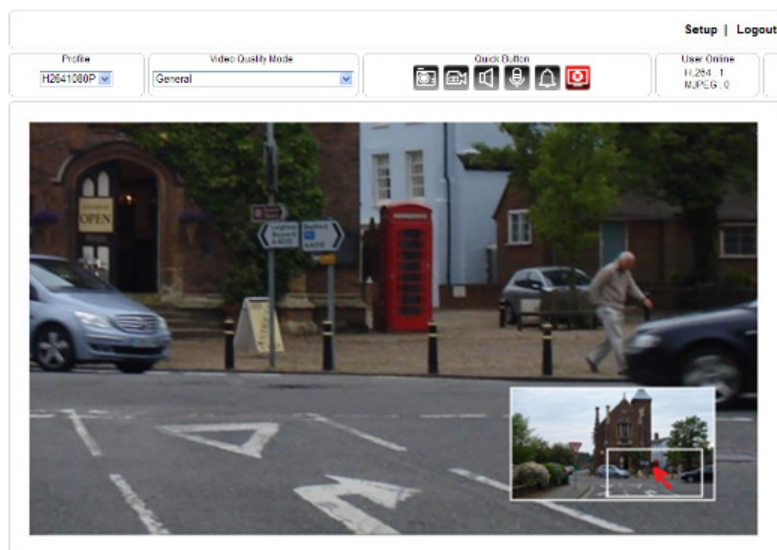
1. Quick buttons—IP camera shortcuts
2. ActiveX display screen—Display RTSP H.264 or MJPEG streaming video
3. Profile switching menu—Switching from one profile to another
4. Setup buttons—IP camera setup menu
5. PTZ control panel

Chapter 3-2 PTZ Functions





Move your cursor to the PIP window and drag inside it to perform ePan and eTilt actions. The scroll wheel can be used to zoom in and zoom out.



Right-click to exit the ePTZ mode.

Chapter 3-2 IP Camera Main Controls

The quick control panel buttons are described below:

	Take a snapshot of the video
	Start recording
	Pause recording

	Speaker on/off (for audio models only)
	Microphone on/off (for audio model only)
	Enlarge the live view

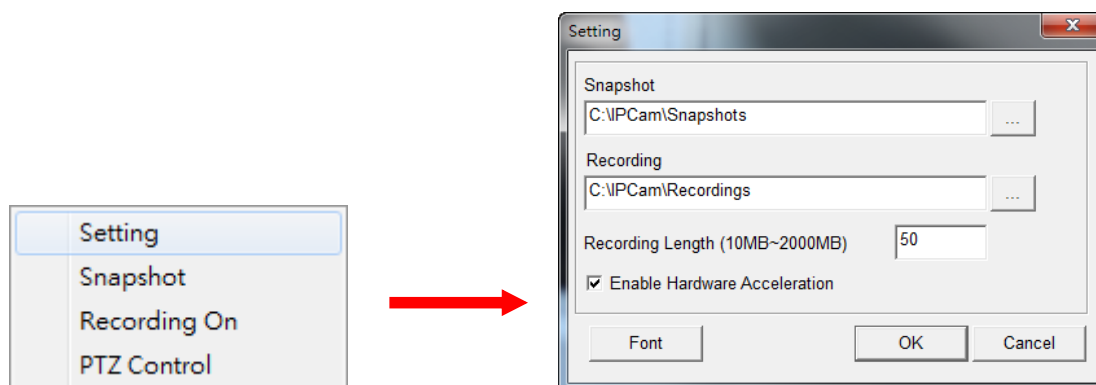
Chapter 3-2-1 Two-way Audio (only available for audio-ready cameras)

For models supporting two-way audio, click the microphone icon  to speak to a remote site. Click the icon again to turn the microphone off.

Click the speaker icon  to monitor the audio of a remote site. Click the icon again to turn the speaker off.

Chapter 3-2-2 Record to a Local PC

To record to a local PC, right-click anywhere on the screen. Choose **Setting** to specify the recording paths and recording sizes, and choose **Recording On** to start recording.



Chapter 4 Basic Settings

As an administrator, you can configure the IP camera via a standard HTML webpage. Click **Setup** at the top-right corner of the screen after you log in to the camera.



Chapter 4-1 System



Chapter 4-1-1 General

Under **System Settings→General**, you will see server system information, such as MAC address, firmware version, user settings, and system time settings. To modify these options, follow the below instructions.

Basic >> System >> General

MAC Address	00:0f:fc:24:53:53
Firmware Version	2.0.5
Firmware Build Date	Oct 16 2015 11:19:07
Pan-Tilt Firmware Version	4.0.5
CCD Firmware Version	1.00
OS Version	Linux 2.6.38.8 (Fri Jul 31 15:54:06 CST 2015)
System Reboot Time	2015/11/18 16:38:02
Device Name	IRS1208
Language	English ▼
Display Device Name	☒ Enable ☐ Disable
Display Time Status	☒ Enable ☐ Disable
Display PTZ OSD	☒ Enable ☐ Disable
Display AutoPan OSD	☒ Enable ☐ Disable
ActiveX OSD Display	☐ Enable ☒ Disable
ActiveX OSD Name	IRS120
Web Title Name	Merit LILIN H.264 IRS120
Low Latency Mode	☐ Enable ☒ Disable
Submit	

- MAC Address: The MAC address of your camera.
- Firmware, Pan-Tilt Firmware, and CCD Firmware Version: Here you can see the version of your camera firmware, pan-tilt firmware, and CCD firmware. To update the firmware, see **Chapter 4-10 Maintenance**.

- OS Version: The version number of your operating system.
- System Reboot Time: The last time your system was rebooted.
- Device Name: The device name can be found using the IPscan utility, which allows you to identify IP cameras. To change the device name, enter a new name for the IP camera and click **Submit**.
- Language: Change the language of the camera interface.
- Display Device Name: Enable/disable to show/hide the name determined in **Device Name**
- Display Time Status: Enable/disable to show/hide camera time on the OSD.
- Display PTZ OSD: Enable/disable to show/hide the PTZ position on the OSD.
- Display AutoPan OSD: Enable/disable to show/hide the AutoPan string on the OSD.
- ActiveX OSD Display: Enable/disable to display/hide the device name.
- ActiveX OSD Name: The name you enter here will be displayed on the top-right corner of the ActiveX screen.
- Web Title Name: Enter the name to be displayed on the web browser.
- Low Latency Mode: Enable to reduce latency, if any.

Chapter 4-1-2 User

Our camera supports up to 10 user accounts. Each account can be individually configured for access rights. To add/edit a user, click **Add/Edit User**. To access an IP camera without authentication, switch the **Bypass Logon** option to **On**. Enable **IPScan Bypass Logon** to log in the camera through IPScan without authentication. To add a user, press **Add User**, and you will see the following screen:

Basic >> System >> User

Bypass Logon ☐ On ☒ Off
IPScan Bypass Logon ☒ On ☐ Off

Account	
New Password	
Confirm Password	
User Group	☒ Administrator , ☐ Operator , ☐ Viewer
Administrator	☒
Panel Control	☒
SPD PTZ	☒
Streaming 1 (H2641080P)	☒
Streaming 2 (JPEG480P)	☒
Streaming 3 (H264480P)	☒
Streaming 4 (JPEGCIF)	☒
Submit Cancel	

Enter the account name and password for the new account, and then check to assign the access rights for this

account.

To edit account information, click **Edit User**. To delete a user, click **Remove User**. Click **Submit** to update the settings.

Chapter 4-1-3 Time

You can change the time of your camera through a HTML web page. Simply select the date and time in the drop-down menus, and click **Submit** to apply. You may also set the daylight saving time in this page.

Basic >> System >> Timer

Server Time Mon, 19 Jan 2015 15:07:35 GMT+0800

Synchronize with NTP ☐ Every Hour ☒ Off

Time Server time.stdtime.gov.tw

Time Zone ((GMT +08:00) Taipei)

Time 2015/1/19 15:07:35 Synchronize with PC

Daylight Saving Time ☐ On ☒ Off

Start Date 1/1/0 (Month/Date Hour)

End Date 12/31/23 (Month/Date Hour)

Submit

Synchronize with an NTP server

To synchronize with an NTP server, change the **Synchronize with NTP** to **Every Hour**. The camera will synchronize its system time with a time server every hour.

Note: This function requires Internet connection.

Chapter 4-2 Video / Audio

System

Video / Audio

Network

Maintenance

PTZ

Chapter 4-2-1 General

To transmit video over a low bandwidth network such as the Internet, set the bit rate close to the actual upload bandwidth. The camera will encode frames based on the bit rate setting.

Basic >> Video / Audio >> General

Profile :

TV System : ☒ NTSC ☐ PAL Output

Fix Bitrate Mode : ☐ Enable ☒ Disable

H.264 :1920 x 1080

Profile Name : H2641080P

Output Frame Rate :

GOP (Group of Pictures) :

VBR/CBR Mode :

Bit Rate :

Alarm Weighted Mode : ☐ Enable ☒ Disable

RTSPURL : rtsp://59.124.49.22/rtspH2641080p

JPEG :720 x 480

Profile Name : JPEG480P

Output Frame Rate :

Image Quality :

Alarm Weighted Mode : ☐ Enable ☒ Disable

RTSPURL : rtsp://59.124.49.22/rtspjpeg480p

H.264 :720 x 480

Profile Name : H264480P

Output Frame Rate :

GOP (Group of Pictures) :

VBR/CBR Mode :

Bit Rate :

Alarm Weighted Mode : ☐ Enable ☒ Disable

RTSPURL : rtsp://59.124.49.22/rtspH264480p

JPEG :352 x 240

Profile Name : JPEGCIF

Output Frame Rate :

Image Quality :

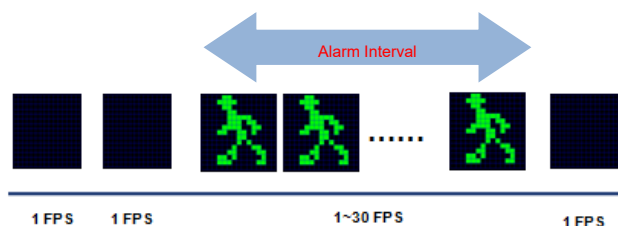
Alarm Weighted Mode : ☐ Enable ☒ Disable

RTSPURL : rtsp://59.124.49.22/rtspjpegcif

Submit

Load Default

- Profiles: 6 customizable profiles
- TV Out: NTSC/PAL video systems
- Entropy Coding Mode: Choose between standard- (**Main Profile**) and good-quality (**High Profile**) encoders
- Fixed Bitrate Mode: Enable to set the bitrate to a fixed constant
- Output frame rate: The frame rate of the video
- GOP: The number of I-frames to be displayed in one second
- VBR: Variable bit rate, an encoding mode that reduces the use of bandwidth; CBR: constant bit rate, an encoding mode that consumes more bandwidth
- Bit rate: The maximum bit rate available for your network connection.
- Alarm Weighted Mode: Weighted mode is activated when an alarm is triggered, and the stream rate will increase to the maximum rate (this may differ depending on the model you use). If there is no alarm activity, the stream remains at 1 FPS to save bandwidth and storage.



- RTSP URL: Allows you to see the video stream through the Real Time Streaming Protocol.
- Image Quality: Adjust the compression rate of the MJPEG.

Chapter 4-2-2 Quality Tuner

This menu allows you to adjust brightness, auto contrast, contrast, hue, saturation, and sharpness both for the Day Mode and Night Mode. Individual day/night settings ensure the camera to provide optimal video quality.

Day Night Mode

Day Night Mode	Quality Tuner	Exposure Controller
☐ Auto ☒ Day Mode ☐ Night Mode		
Load Default		

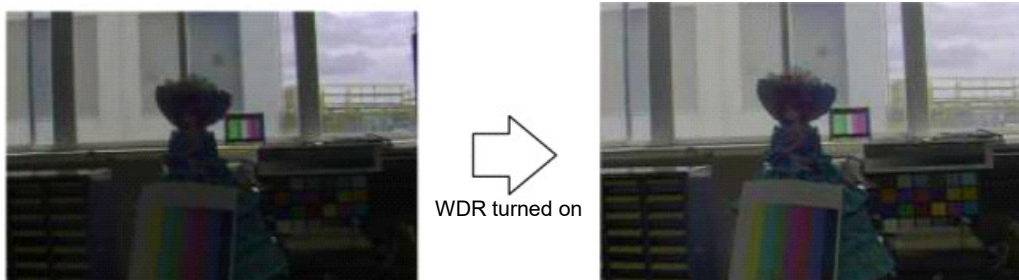
- Auto: Automatically switches between **Day Mode** or **Night Mode** based on sensor signals.
- Day Mode: Set to colored video mode.
- Night Mode: Set to black-and-white video mode.

Quality Tuner

IRS1204/1208

Day Night Mode	Quality Tuner	Exposure Controller
Mirror	Off ▼	
Flip	Off ▼	
WDR	Off ▼	
DNR	1 ▼	
Sharpness	Auto ▼	
White Balance Mode	Auto ▼	
Auto Mode	Normal ▼	
Manual Red	80 ▼	
Manual Blue	80 ▼	
Load Default		

- Mirror: Turn **On** to invert the screen horizontally.
- Flip: Turn **On** to invert the screen vertically.
- WDR: The Wide Dynamic Range function enhances back-lighted subjects to capture more details.



- DNR: The Digital Noise Reduction function can reduce the noise occurred when shooting under low-

light environments or using slow shutter. The settings are **Off** or **1–3**, with a default of **1**.

- Sharpness: Intensifies the contour of subjects. The settings are **Auto** or 1–16, with a default of **Auto**.
- White Balance Mode: Choose **Auto** to switch between three white balance options (**Normal**, **Sodium Vapour Light**, and **Mercury Vapour Light**). Choose **Manual** to adjust the gain of red and blue elements.
- Manual Red: Adjust the intensity of red (1–160).
- Manual Blue: Adjust the intensity of blue (1–160).

IRS1304/8

Day Night Mode	Quality Tuner	Exposure Controller
Mirror	Off	
Flip	Off	
WDR	Off	
DNR	1	
Sharpness	Auto	
White Balance Mode	Auto	
Auto Mode	Normal	
Manual Red	80	
Manual Blue	80	
Defog Level	Off	
Enhance Intensity	Off	
Enhanced Intensity Level	0	
High Light Compensative	0	
Electronic Image Stabilization	Off	

[Load Default](#)

- Defog Level: The settings are **Off**, **1–3**, or **Auto**. **Auto** allows the camera to automatically determine the thickness of fog. Larger number means better fog removal. The default settings are **Off**.
- Enhance Intensity (EI) : The settings are **Off**, **On**, and **High Light Compensative**.
- After **EI** is enabled, the drop-down menu of **EIL** will become available. This function improves the quality in low-light conditions. It refrains from activating the black-and-white mode and attempts to produce colored videos in low-light conditions. **High Light Compensative** can reduce glare occurred under bright light.
- Enhanced Intensity Level (EIL): Only one of **EIL/Defog/WDR** can be activated at one time. The priority is EIL > Defog > WDR. The settings are **0**, **32**, **64**, **96**, **128**, **160**, **192**, **224**, and **256**, with a default of **0**.
- High Light Compensation: The settings are **0**, **32**, **64**, **96**, **128**, **160**, **192**, **224**, and **256**, with a default of **0**.
- Electronic Image Stabilization (EIS) : EIS is limited to the actual sources and forms of vibration. When EIS is activated, the camera will automatically disable DSS. Once EIS is disabled, the camera will turn DSS back on. Also, when EIS is on, all settings related to shutter priority will be paused, and these settings will be resumed the moment when EIS is turned off. Motion detection and WDR are also disabled when EIS is enabled, but these two functions have to be manually turned on after EIS is disabled.

Exposure Controller

Day Night Mode	Quality Tuner	Exposure Controller
Auto Gain Control(SENSE UP+)	30dB ▼	
Exposure Controller	Shutter Priority ▼	
Full Auto		
Auto Slow Shutter	x8 ▼	
Back-light Compensation	Off ▼	
Shutter Priority		
Shutter Speed	1/180 ▼	
Iris Priority		
Iris Position	F1.6 ▼	
Manual Mode		
Fix Shutter Speed	1/30 ▼	
Fix Iris Position	F1.6 ▼	
Fix Gain Position	0dB ▼	
Load Default		

- Auto Gain Control (SENSE UP+): The settings are **Off, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, 21dB, 24dB, 27dB, 30dB, 33dB, 36dB, 39dB, 42dB, and 45dB**, with a default of **30dB**.
- Exposure Controller: The settings are **Full Auto, Shutter Priority, Iris Priority, and Manual**.
- Full Auto: Automatically control the exposure by metering the brightness of subjects. The settings are **Auto Slow Shutter (ASS)** and **Back-light Compensation**.
- Auto Slow Shutter: Enable to automatically adjust the speed of slow shutter under low-light conditions. The settings are **Off, x2, x4, x8, x16, and x32**, with a default of **8**.
- Back-light Compensation: When the subject is too dark to be visible, this function will adjust the exposure value, enhance the brightness of the scene, and make the subject clearer. Only one of **Back-light Compensation** or **WDR** can be activated at one time.
- Sutter Priority: After you select the shutter speed, the iris value will be determined automatically by the camera.
- Sutter Speed: 1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/120, 1/180, 1/250, 1/500, 1/k, 1/2k, 1/4k, 1/10k, and 1/30k, with a default of 1/30.
- Iris Priority: After you select the aperture value, the shutter speed will be determined automatically by the camera.
- Iris Position: F1.6, F2.3, F3.2, F4.5, F6.4, F9.0, F12.8, F18.1, F25.6, and F36.2, with a default of F1.6.
- Manual Mode: Manually adjust the shutter speed, aperture value, and gain level.
- Fix Shutter Speed: Select and fix the shutter speed manually to 1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/120, 1/180, 1/250, 1/500, 1/k, 1/2k, 1/4k, 1/10k, and 1/30k, with a default of 1/30.
- Fix Iris Position: Select and fix the aperture manually to F1.6, F2.3, F3.2, F4.5, F6.4, F9.0, F12.8, F18.1, F25.6, and F36.2, with a default of F1.6.
- Fix Gain Position: Select and fix the gain level manually to 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, 21dB, 24dB, 27dB, 30dB, 33dB, 36dB, 39dB, 42dB, and 45dB, with a default of 30dB.

Chapter 4-3 Network

System

Video / Audio

Network

Maintenance

PTZ

Chapter 4-3-1 General

Network settings are the basic settings that connect LILIN IP cameras to the network. The default IP address of our IP cameras is 192.168.0.200. Enter this IP address into your web browser to verify the network connection between a local PC and your IP camera.

To set up a local area network, enter the IP address, subnet mask, gateway, and DNS. Also enter account name and password if you are using PPPoE to connect to the network. Click **Submit** to update the settings.

Basic >> Network >> General

Network	☒ Static ☐ DHCP ☐ PPPoE
IP Address	192.168.3.55
Subnet Mask	255.255.255.0
Gateway	192.168.3.254
Default DNS	168.95.1.1
Second DNS	168.95.1.1
Account	account@pppoe.com
Password	••••••••

To acquire Internet access, contact your local Internet Service Provider (ISP) for a global IP address. Enter the IP address (global), subnet mask, and gateway IP provided by your ISP.

- **Default DNS**—The IP address of the default and first DNS server
- **Second DNS IP Address**—The IP address of the backup and second DNS server to the default DNS
- **PPPoE Account**—Username of the PPPoE service
- **PPPoE Password**—Password of the PPPoE service

A router, gateway, or other DHCP software server can remotely assign an IP address to your IP camera. There is no need to manually configure the IP address, subnet mask, and gateway. However, every time the DHCP service is rebooted, the IP address of the IP camera may vary. You may need to use IPscan to search for the IP camera. To enable DHCP, click the **DHCP** option and click **Submit**.

Chapter 4-3-2 HTTP/RTSP Service

HTTP and RTSP are two reliable protocol for video streaming. With correct port forwarding, videos can be sent over the Internet. Details are described in the appendix. To change the HTTP port number, consult your network administrator. Choose the streaming type you want to use (HTTP or RTSP/UDP). Click **Submit** for the changes to take effect.

Basic >> Network >> HTTP/RTSP Service

HTTP Port	80
RTSP Port	554
ONVIF	Standard
RTSP Package Size	1 KB
METADATA	☐ On ☒ Off
RTCP Check	☒ On ☐ Off
Repeated delivery of SPS/PPS	☒ On ☐ Off
RTSP Authentication	☒ On ☐ Off
Video Port	☒ HTTP Port ☐ RTSP/UDP Port
Profile Name H264 1920x1080	stream0
Profile Name JPEG 720x480	stream1
Profile Name H264 720x480	stream2
Profile Name JPEG 352x240	stream3

Settings on this page are described below:

- ONVIF: Choose a ONVIF protocol from the drop-down list
- RTSP Package Size: Choose the size of each RTSP package depending on your bandwidth
- METADATA: Enable/disable METADATA
- RTCP Check: Enable to send RTCP packages for transmission optimization
- Repeated Delivery of SPS/PPS: Enable to send SPS/PPS information before I frames
- RTSP Authentication: Enabling this option will require username and password when connecting to the RTSP stream
- Video Port: Choose between HTTP or RTSP/UDP for your stream
- Profile Name: Change the profile name

Chapter 4-3-3 DDNS

The DDNS service allows you to automatically update the DNS server. LILIN provides three DDNS servers to choose from (we recommend you use the first one from the drop-down menu). Click **Submit** for the changes to take effect.

Basic >> Network >> DDNS

DynDNS	http://www.ddnsipcam.com
DDNS	☐ Enable ☒ Disable
Account	ddd212
Password	****
New Password	
Host name	ddd212 http://ddd212.ddnsipcam.com
WAN IP	

To activate DDNS, go to www.ddnsipcam.com. If the IP camera is on Internet with a global IP address, use the last 6 digits of the MAC address as the host name with default account and the default password,. The IP camera will automatically register to www.ddnsipcam.com.

Note• The DDNS feature requires Internet connection

Chapter 4-3-4 SNMP

Basic >> Network >> SNMP

SNMP	☐ Enable ☒ Disable
SNMP v1/v2	
Read Only Community	public
Read/Write Community	private
SNMP v3	
Username	admin
Authentication Password(MD5)	password
Privacy Password(DES)	password
Read/Write Security Name	public
Read Only Security Name	private
SNMP Heartbeat	☐ Enable ☒ Disable
SNMP Heartbeat Server	255.255.255.255
SNMP Heartbeat Dwell Time	1 Sec.

Enable to activate SNMP service. Modify the fields to suit your needs, and click **Submit** for the changes to take effect.

Chapter 4-4 Maintenance

System**Video / Audio****Network****Maintenance****PTZ**

Basic >> Maintenance >> Firmware Update

Please do not turn off power and wait until this web page shows up automatically. Fail to update firmware correctly due to network communication issue that it may damage this machine and is required to ship back to your vender for repair.

File System(flasham33pl.bin/flashaml33pl.bin)

flasham33pl.bin:Application Firmware

flashaml33pl.bin:Linux OS

瀏覽...

Submit

Upload 0%

Export Settings

Export

Import Setting

瀏覽...

Upgrade

Load Default

Load Default

Reboot System

Reboot System

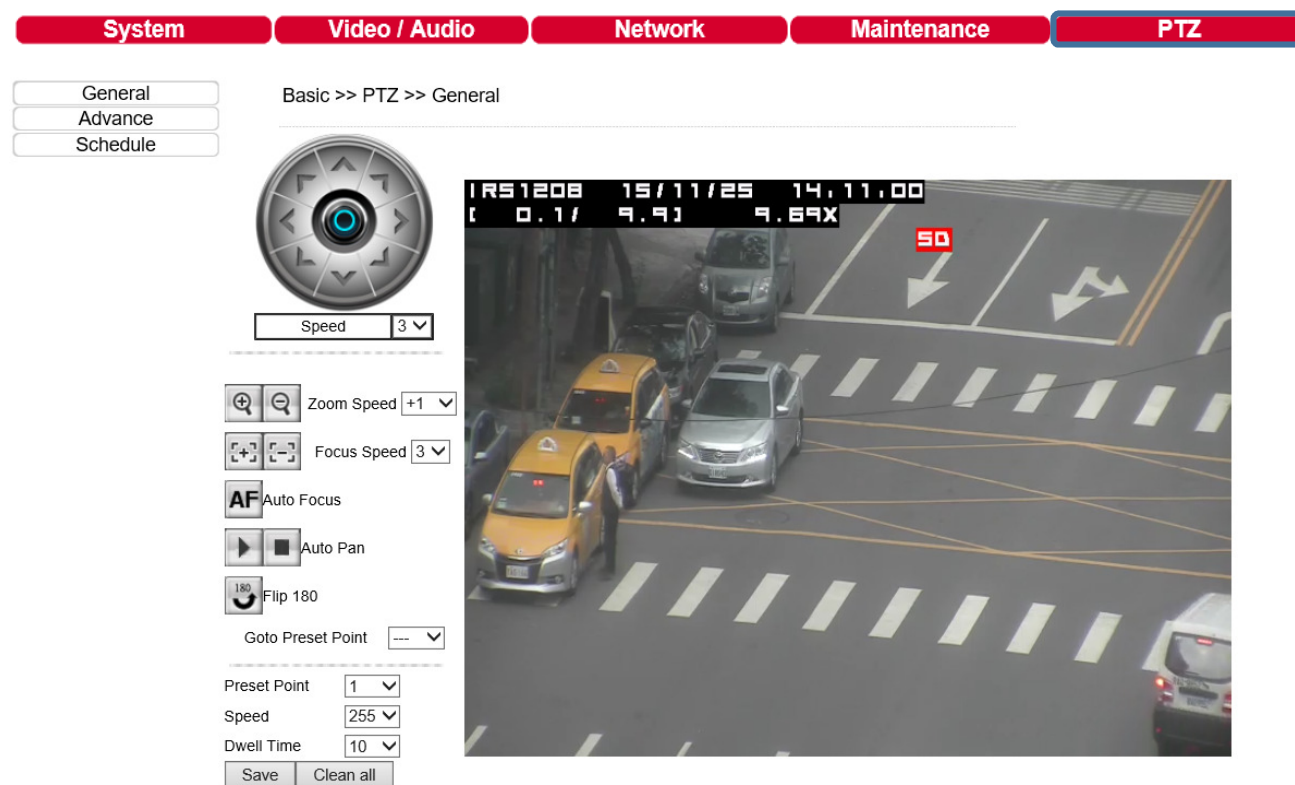
In the **Maintenance** page, you can click **Load Default** to restore the camera to factory settings, or click **Reboot System** to restart the camera. Restoring to factory settings does not affect IP addresses.

To update the firmware of your IP camera, click **Browse** and locate the update file. Click **Submit** to start the firmware update.

Warning: Never disconnect the power during the update. This could cause irreversible damage to your device.

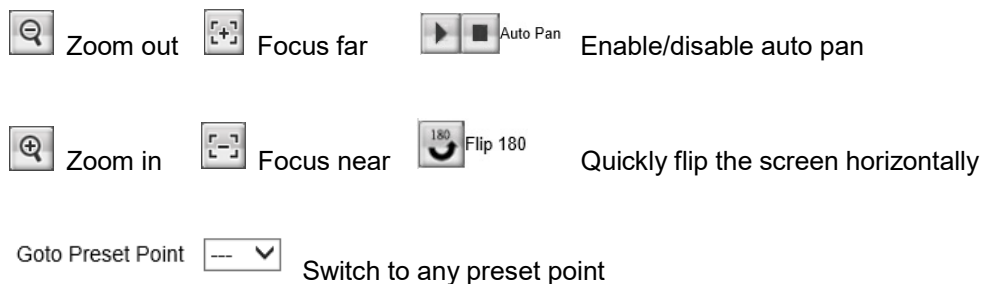
Note: If you forget your password, please contact your vendor or send the device to us.

Chapter 4-5 PTZ

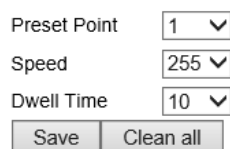


Chapter 4-5-1 General

The PTZ control panel are described in details as followed:



AF Auto Focus **Click to focus automatically**



Select a preset point from the drop-down menu. Choose the speed you want the screen to move to the preset point and set the dwell time. Click **Save** for the changes to take effect, or click **Clean all** to discard all changes.

Chapter 4-5-2 Advance

Lens Advance

Lens Advance	Pan-Tilt Setup	Auto Scan Setup	Tour Setup	Patrol Setup
Type: Camera Advanced				
Lens				
Focus Mini Length	1 cm ▼			
Digital Zoom	Off ▼			
Lens Initialize	Apply			
Preset Position	MF ▼			
Pan-Tilt Movement	AF ▼			

- Focus Mini Length: The minimum focus distance, which can be set to **1 cm**, **10 cm**, **30 cm**, **1.0 m**, **1.5 m**, and **3.0 m**.
- Digital Zoom: Enable to permit digital zoom when the maximum optical zoom is reached. The zoom level is 20~240X (IRS1204/8) and 30~360X (IRS1304/8).
- Lens Initialize: Restore the lens to the factory default.
- Preset Position: Choose **MF** or **AF** as the focus mode for presets.
- Pan-Tilt Movement: Choose **MF** or **AF** as the focus mode after the lens is moved.

Pan-Tilt Setup

Lens Advance	Pan-Tilt Setup	Auto Scan Setup	Tour Setup	Patrol Setup
Type: Pan-Tilt Setup				
Home Position	Off ▼	Preset 1 ▼		Apply
Self Return Time	Off ▼	Min 0 ▼ Sec. 0 ▼		Apply
Self Return Mode	Off ▼	Home ▼		Apply
Auto Mode	On ▼	Patrol1 ▼		Apply
Self Diagnosis	On Off			

- Home Position: The lens will return to the pre-determined preset point at the return time.
- Self Return Time: Set the time when the lens will return to the pre-determined preset point.
- Self Return Mode: The lens will return to the pre-determined preset point at the desired return time using the designated return mode, the options of which include **Home**, **Scan**, **SEQ**, **Tour**, and **Patrol**.
- Auto Mode: Turn on to enter the automatic mode, where the camera will perform the designated mode, including **Scan**, **SEQ**, **Tour**, or **Patrol**.
- Self Diagnosis: Click **On** to perform self diagnosis.

Auto Scan Setup

Lens Advance | **Pan-Tilt Setup** | **Auto Scan Setup** | **Tour Setup** | **Patrol Setup**

Type:Auto Scan Setup

Auto Scan Path ▾

Dwell Time ▾ Sec.

Speed ▾

Start Position

End Position

- Auto Scan Path: Select from one of the 16 paths.
- Dwell Time: Set the time you want the camera to stay at each point.
- Speed: The speed of lens movement.
- Start Position: Move the lens to a desired position, and click **Apply** to set the start position.
- End Position: Move the lens to a desired position, and click **Apply** to set the end position.

Tour Setup

Lens Advance | **Pan-Tilt Setup** | **Auto Scan Setup** | **Tour Setup** | **Patrol Setup**

Type:Tour Setup

Tour Path ▾

1	- ▾	9	- ▾	17	- ▾	25	- ▾
2	- ▾	10	- ▾	18	- ▾	26	- ▾
3	- ▾	11	- ▾	19	- ▾	27	- ▾
4	- ▾	12	- ▾	20	- ▾	28	- ▾
5	- ▾	13	- ▾	21	- ▾	29	- ▾
6	- ▾	14	- ▾	22	- ▾	30	- ▾
7	- ▾	15	- ▾	23	- ▾	31	- ▾
8	- ▾	16	- ▾	24	- ▾	32	- ▾

In this page, you are allowed to set 32 preset points for 4 different tour paths. You can arrange the position and sequence of these preset points at will. The settings in this page also apply to **Return Mode** and **Auto Mode**.

Patrol Mode

Lens Advance | **Pan-Tilt Setup** | **Auto Scan Setup** | **Tour Setup** | **Patrol Setup**

Type:Patrol Setup

Patrol Path ▾

Here you can record the path for the camera to patrol. Click **Start** to begin recording, and click **End** to finish recording. **Clean** will clear the selected patrol path.

Chapter 4-5-3 Schedule

Basic >> PTZ >> Schedule

Schedule

	0:00							6:00							12:00							18:00						
Mon	S	S	S	S	S	S	S	S	5	S	S	S	S	S	3	S	S	S	S	S	3	S	S	S	S	S	S	
Tue	S	S	S	S	S	S	S	S	5	S	S	S	S	S	3	S	S	S	S	S	3	S	S	S	S	S	S	
Wed	S	S	S	S	S	S	S	S	5	S	S	S	S	S	3	S	S	S	S	S	3	S	S	S	S	S	S	
Thu	S	S	S	S	S	S	S	S	5	S	S	S	S	S	3	S	S	S	S	S	3	S	S	S	S	S	S	
Fri	S	S	S	S	S	S	S	S	5	S	S	S	S	S	3	S	S	S	S	S	3	S	S	S	S	S	S	
Sat	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
Sun	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	

☒ Not Scheduled
 ☐ Scan1
 ☐ SEQ
 ☐ Tour1
 ☐ Patrol1
 ☐ Preset 1 1 v

☐ Scan2
 ☐ Tour2
 ☐ Patrol2
 ☐ Stop

☐ Scan3
 ☐ Tour3
 ☐ Patrol3

☐ Scan4
 ☐ Tour4
 ☐ Patrol4

Choose a mode and set the time in the schedule when you want this mode to be activated. Click **Apply** for the changes to take effect.

Chapter 5 Advanced Mode

The **Advanced Mode** provides several professional settings that are not available in the **Basic Mode**.

Chapter 5-1 System

System

Video / Audio

Network

Event

Notification

Maintenance

PTZ

Chapter 5-1-1 System Log

You can view the system-generated log in this page. Click **Save** to export the log to a text file.

Advance >> System >> System Log

Log Page 1

1.	192.168.0.1	2012/10/23 20:17:44	USER LOGOUT
2.	192.168.0.1	2012/10/23 20:17:41	USER LOGIN
3.	192.168.0.1	2012/10/23 20:05:01	USER LOGOUT
4.	192.168.0.1	2012/10/23 19:50:15	USER LOGIN
5.	192.168.0.1	2012/10/23 19:50:11	USER LOGOUT
6.	192.168.0.1	2012/10/23 19:50:09	USER LOGIN

Save

Clean All

Chapter 5-2 Video/Audio Settings

System**Video / Audio**

Network

Event

Notification

Maintenance

PTZ

Chapter 5-2-1 SPD Privacy Mask Solution

Privacy Mask

Mask 1 ☐ Enable ☒ Disable

Edit Mask

Mask No None Edit

Mask Color Magenta

Mask Wsize 8

Mask Hsize 8

Submit

Clean Mask

Mask No None

Submit

LILIN cameras provide up to 8 sets of privacy masking. Choose **Enable**, then press **Edit** for a mask to appear in the center of the screen. You can also adjust the color, width, and length of the mask. Click **Submit** for the changes to take effect. Choose any of the masks in the drop-down menu of **Mask No.**, and click **Submit** to clear the settings of that mask.

Chapter5-2-2 Audio Adjust

Advance >> Video / Audio >> Audio Adjust

Audio Adjust	☒ Enable ☐ Disable
Audio Input Volume	50 ▼
Audio Input Gain	0 dB ▼
Audio Output Volume	50 ▼
Audio Coding Type	G711 u-law
Sampling Rate	8000 Hz ▼
Bit Rate	16 kbit/s

Submit

Detailed audio settings are described below:

- Audio Input Volume: MIC or line-in volume
- Audio Input Gain: level of gain for audio input
- Audio Output Volume: volume adjustment
- Audio Coding Type: G.711 u-Law
- Sampling rate: set the audio sampling rate
- Bit Rate: 16 Kbit/s

Chapter 5-3 Network

[System](#)[Video / Audio](#)[Network](#)[Event](#)[Notification](#)[Maintenance](#)[PTZ](#)

Chapter 5-3-1 Multicast

LILIN cameras support video streaming of 4 different content formats. Under this page, you can configure the settings for individual streams.

Advance >> Network >> Multicast

H2641080P	IP Address	239.0.0.0
	Video Port	1234
	Video Port RTCP	1235
	Audio Port	1236
	Audio Port RTCP	1237
	TTL	5
JPEG480P	IP Address	239.0.0.0
	Video Port	1234
	Video Port RTCP	1235
	Audio Port	1236
	Audio Port RTCP	1237
	TTL	5
H264480P	IP Address	239.0.0.2
	Video Port	5568
	Video Port RTCP	5569
	Audio Port	5570
	Audio Port RTCP	5571
	TTL	5
JPEGCIF	IP Address	239.0.0.3
	Video Port	5572
	Video Port RTCP	5573
	Audio Port	5574
	Audio Port RTCP	5575
	TTL	5

Submit

Chapter 5-3-2 IP Address Filtering

LILIN cameras provide an IP address filter to help you block unauthorized IP addresses from accessing the camera. Enable the service before you enter the IP address you want to block, and press **Add**. Click **Delete** to remove an IP address from the list.

Advance >> Network >> IP Address Filtering

IP Address Filtering ☒ Enable ☐ Disable

IP Address

192.168.0.100

Chapter 5-3-3 UPnP Settings

The UPnP service is a network protocol that allows Windows PC users to access IP cameras in a LAN environment. To activate the UPnP service, choose **Enable** to activate.

Basic >> Network >> UPnP

UPnP Service ☒ Enable ☐ Disable

Friendly Name UPnP IPCam Device

In Windows, go to **Network→File Explorer** to see the IP cameras via the UPnP protocol.

Chapter 5-3-4 Bonjour

Bonjour is Apple's implementation of zero-configuration networking protocol. Click **Enable** to activate this service.

Advance >> Network >> Bonjour

Bonjour ☐ Enable ☒ Disable

Friendly Name Bonjour IPCam Device-ddd212

Chapter 5-3-5 SDDP/Heartbeat

With SDDP/Heartbeat support, you can connect to any compatible devices. Enable the service before you make the connection.

Advance >> Network >> SDDP / Heartbeat

SDDP Service ☒ Enable ☐ Disable

Heartbeat Service ☐ Enable ☒ Disable

Heartbeat Server 225.225.225.225

Heartbeat Port 5000

Heartbeat Dwell Time 1 Sec.

Chapter 5-4 Event

System**Video / Audio****Network****Event****Notification****Maintenance****PTZ**

Here you can configure the detection settings for motion, tamper, sound, alarm, and network failure. Choose an event type in the drop-down menu, then click **Edit Event**.

Advance >> Event >> Event

Event Name	Motion Detection Edit Event						
Event	Status	FTP	SMTP	SD Card	Alarm Output	HTTP POST	Schedule
Motion Detection	Disable						Auto
Tamper Detection	Disable						Auto
Audio Detection	Disable						Auto
Alarm Detection	Disable						Auto
Network Detection	Disable	-	-			-	Auto

Then the page you see allows you to choose the action to take when the chosen events are detected, such as sending JPEG images to an FTP server or an email account, and/or triggering SD card video recording. To schedule event monitoring, choose **Schedule** when you edit an event and highlight the time periods you want the camera to detect events. Click **Submit** for the changes to take effect.

Advance >> Event >> Event

Event Motion Detection

Enable ☒

Action

☐ FTP Service Dwell Time Sec.

☐ SMTP Service Dwell Time Sec.

☐ SD Card Service Dwell Time Sec.

☐ Alarm Output Dwell Time Sec.

☐ HTTP POST Service Dwell Time Sec.

HTTP POST Service : URL

☐ SNMP Trap Service

Schedule

☐ Always

☒ Schedule

	0:00	6:00	12:00	18:00
Sun				
Mon				
Tue				
Wed				
Thu				
Fri				
Sat				

☒ Event Schedule

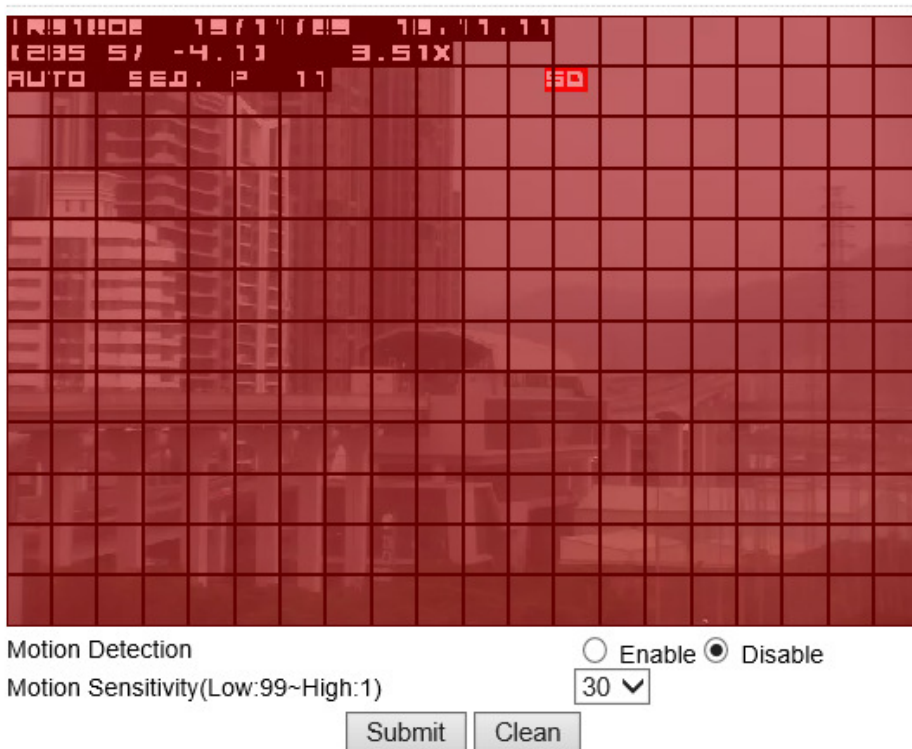
☐ Not Scheduled

- FTP Service: When an alarm is triggered, snapshots will be sent to a pre-determined FTP site during the specified time.
- SMTP Service: When an alarm is triggered, snapshots will be sent to pre-determined Email addresses during the specified time.
- SD Card Service: When an alarm is triggered, snapshots will be saved to the inserted SD card during the specified time.
- Alarm Output: When an alarm is triggered, alarm notifications will be sent to the external device connected to the camera during the specified time.
- HTTP POST Service: Enter a URL, and when an alarm is triggered, snapshots will be posted to the website during the specified time.

Chapter 5-4-1 Motion Detection

Once the above configurations are set, click **Motion Detection** to determine the areas to monitor. Simply double-click or drag across the areas you want to monitor, and cancel your selection by double-click again or drag across the areas you don't want to monitor with the right mouse button.

Advance >> Event >> Motion Detection



Motion Detection

Motion Sensitivity(Low:99~High:1)

☐ Enable ☒ Disable

30 v

Submit Clean

Chapter 5-4-2 Audio Detection (audio models only)

When the detected sound exceeds the sensitivity level, the audio detector will trigger an alarm and send a notification.

Advance >> Event >> Audio Detection



Audio Detection ☐ Enable ☒ Disable
 Audio Detection OSD ☐ Enable ☒ Disable
 Audio Detection Trigger Level (Easy:1~Hard:99)
 Audio Detection Sensitivity (Low:1~High:99)

Submit

Chapter 5-4-3 Alarm Detection

If you connect an external alarm digital input to the IP camera, enable **Alarm Notification** and switch between **NO** (normally open) and **NC** (normally closed) for the input.

Advance >> Event >> Alarm Detection

Alarm Notification ☐ Enable ☒ Disable
 Alarm Input Mode ☒ NO ☐ NC
 Alarm OSD ☐ On ☒ Off
 Alarm To Preset 1 ☒ On ☐ Off
 Alarm To Preset 2 ☒ On ☐ Off
 Alarm To Preset 3 ☒ On ☐ Off
 Alarm To Preset 4 ☒ On ☐ Off
 Alarm To Preset 5 ☒ On ☐ Off
 Alarm To Preset 6 ☒ On ☐ Off
 Alarm Time Set Min.

Submit

Chapter 5-4-4 Network Detection

Enable this option to send a notification upon network failure.

Advance >> Event >> Network Detection

No Network Activity ☐ Enable ☒ Disable

Chapter 5-5 Notification

System

Video / Audio

Network

Event

Notification

Maintenance

PTZ

Chapter 5-5-1 FTP Service

Enter the required FTP information to send alarm snapshots to an FTP server.

Advance >> Notification >> FTP Service

FTP Server IP/DNS	ftp.server.com
FTP Server Port	21
Account	Account
Password	
Directory	/alarm_jpeg/
Prefix	
Date Format	YYMMDD_hhmmss ▼
Postfix	
File Format	JPEG480P ▼
Auto FTP Sent	☐ Enable ☒ Disable
Auto FTP Sent Dwell	1 Hour ▼

- FTP server IP/DNS— IP address or domain name of the FTP server
- Account— account name to log in to the FTP server
- Password— password of the account
- Directory—file path for storing the JPEG snapshots
- Prefix—prefix of the JPEG filename
- Date format—date string for the JPEG filename
- Postfix—postfix of the JPEG filename

Chapter 5-5-2 SMTP (Email) Service

If an alarm is triggered, you can send a snapshot to the email account(s) you designate. Enter the required information to enable this service.

Advance >> Event >> SMTP Service

E-mail Receiver Setting

E-mail Address1

E-mail Address2

E-mail Address3

E-mail Address4

E-mail Address5

E-mail Sender Setting

E-mail Address

SMTP Server

SMTP Authentication ☒ AUTH LOGIN ☐ AUTH SSL

SMTP Port

Authentication ☐ Enable ☒ Disable

Auth Account

Auth Password

Chapter 5-5-3 HTTP POST Service

Through the POST protocol, the camera can automatically send notification snapshots to a website if an alarm is triggered.

Advance >> Notification >> HTTP POST Service

HTTP POST Server IP/DNS

HTTP POST Server Port

Account

Password

JPEG Attachment ☐ Enable ☒ Disable

Attachment File Format ☐ Fixed ☒ Date

Attachment File Name

Chapter 5-5-4 SD Card Service

Ensure an SD card is properly installed to the camera before you enable the SD recording option. The camera will start recording videos when an alarm occurs.

Advance >> System >> SD Card Service

SD Recording	☐ On ☒ Off
SD Recording OSD	☐ On ☒ Off
SD Recording Continuous	☐ On ☒ Off
Recording Format	H2641080P
Pre Record Time	5 Sec.
SD Card Status	NORMAL
SD Card State	SD Card No Plug In
SD Card Total Bytes	0 MBytes
SD Card Free Bytes	0 MBytes

Warning: Ensure to click **Unmount** before removing the SD card, or the system may crash.

Chapter 5-5-5 SD Card Backup

To download a specific clip, right-click the file you want to download and save the AVI file to a local PC.

Advance >> System >> SD Card Backup File

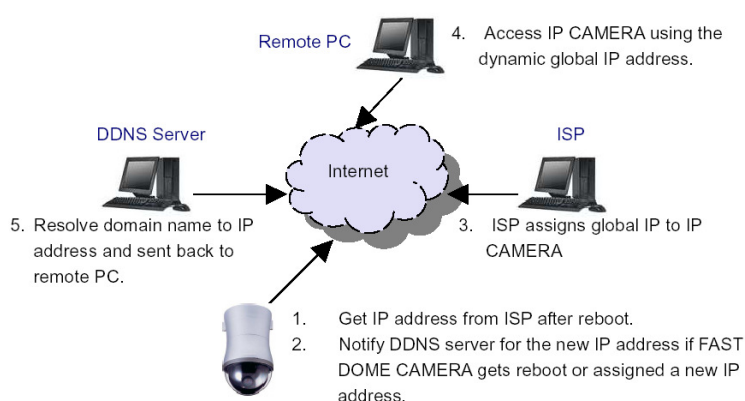
- 20120927
 - 09
 - 11
 - 12
 - 2012/09/27 12:00:20
 - 2012/09/27 12:02:20
- 20121005
- 20121008
- 20121027

Appendix

DDNS and PPPoE Network Settings

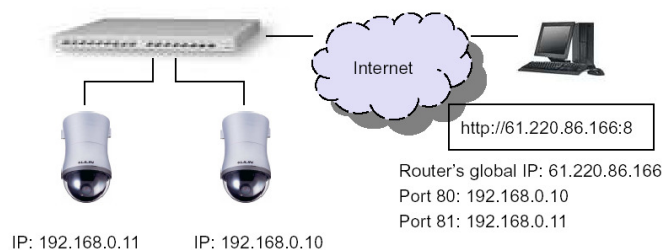
One of the advantages of adopting DDNS and PPPoE services is to save the cost of renting a global IP address. When you power on a camera with a video server and connect to the Internet with the PPPoE service, the camera asks your ISP for a dynamic global IP address. This Internet-accessible IP address will be renewed by the ISP every time you log on the Internet.

Whenever the IP is changed, the camera with the video server will notify the DDNS server of your new IP address. A remote user who intends to connect to the camera with the video server can enter the domain name in the web browser. The domain name will be translated to a new IP address to be used by the camera.



Advanced Port Forwarding Technology

Communication port forwarding technology has been widely used to share a global Internet IP to other devices on the network. The infrastructure of this technology is shown in the below figure, in which the port 80 of the IP router is forwarded to the device with an IP of 192.168.0.10, and the port 81 of the router is forwarded to the device with an IP of 192.168.0.11. When a remote PC on the Internet tries to access the port 81, the user is actually accessing 192.168.0.11, private IP of given by the router.



Restore to Factory Default

To restore the IP camera to the factory default, follow the below procedures:

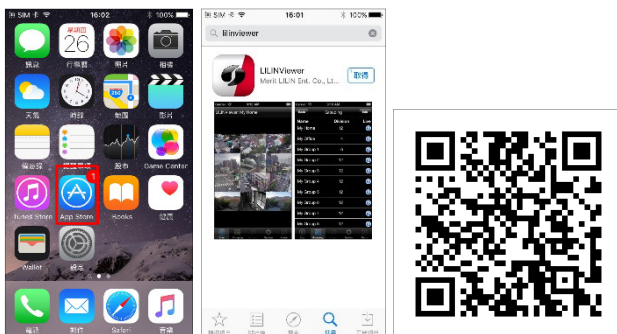
1. Short the "Restore to Factory Default RESET" cable for 10 seconds before releasing.
2. The camera will restart.
3. Launch to IPScan Utility to search for the IP camera.
4. Access the IP camera via an Internet browser.
5. Enter the default username and password.

SD Card Compatibility

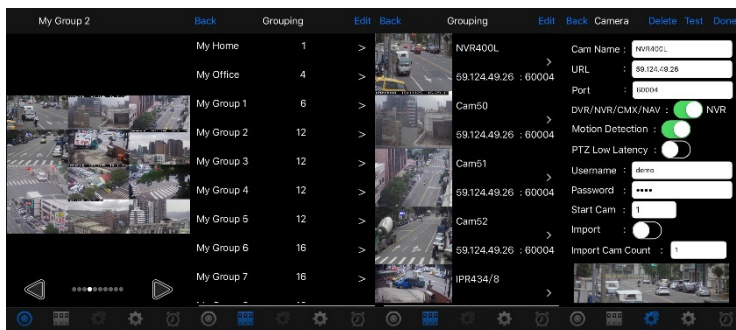
Manufacturer	Capacity	SDHC/SDSC
Sandisk	16GB	SDHC
Sandisk	8GB	SDHC
Transcend	8GB	SDHC
Transcend	4GB	SDHC
Sandisk	32GB	SDHC

For iPhone Users

Tap **App Store**, and search and download **LILINViewer** by Merit LILIN Ent. Co., Ltd. Or, you can scan the QR Code below.



Open **LILINViewer**, then choose tab **Groupings**. Select a group, choose a camera type, and add a camera.



Next, enter camera information as follows:

1. Cam Name: IP Camera or DVR camera name
2. URL: IP address

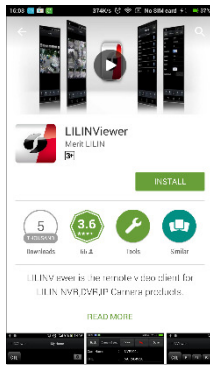
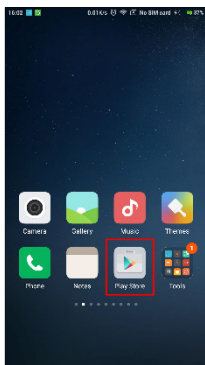
3. Port

4. Enter your username and password. The default IP camera user name is **admin**, password **pass**. The default DVR user name is **admin**, password **1111**.

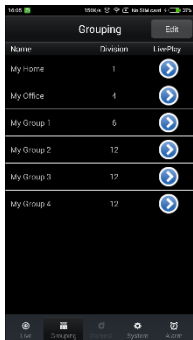
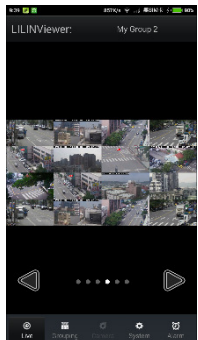
After you enter the above information, tap **Done** to save the changes, and the live view of your IP camera or DVR will appear.



For Android Users



Tap **Play Store** to download **LILINViewer** by Merit LILIN, or scan the following QR code.



Open **LILINViewer**, then choose tab **Groupings**. Select a group, choose a camera type, and add a camera.

Next, enter camera information as follows:

1. Cam Name: IP Camera or DVR camera name
2. URL: IP address
3. Port

4. Enter your username and password. The default IP camera user name is **admin**, password **pass**. The default DVR user name is **admin**, password **1111**.

After you enter the above information, tap **Done** to save the changes, and the live view of your IP camera or DVR will appear.