



IP PT Illuminator User Manual

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Summary

The IP PT illuminator integrates a laser white-light zoom illumination module, capable of adjusting the beam angle according to the target's distance for precise aiming. The projection distance can reach 100 meters. Paired with an IP PTZ camera, it can assist with nighttime illumination or serve as an intrusion warning light, enabling the camera to capture clear, full-color images at night for effective surveillance.

The IP PT illuminator is capable of continuous 360-degree rotation, with a variable speed range of 0.1 to 120 degrees per second. Users can smoothly control and accurately position the illuminator to aim and project it onto specific targets, providing excellent support for surveillance applications.

The IP PT illuminator provide IP67-rated protection against water and dust. It can operate normally in harsh environments.

Key Features

- Support network time protocol (NTP)
- Support dynamic DNS (DDNS)
- Support HTTP API integration

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HTTP API

Sample code and documentation are included on the product CD and can also be downloaded from our website.

Please refer to the HTTP API documentation. All of our network cameras use the HTTP API.

Disclaimer

Please be aware that this user manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable or available to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

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 Summary

The illuminator device is a laser illuminator for a total dark area. The illuminator device can be synchronized by an AI PTZ for visioning.

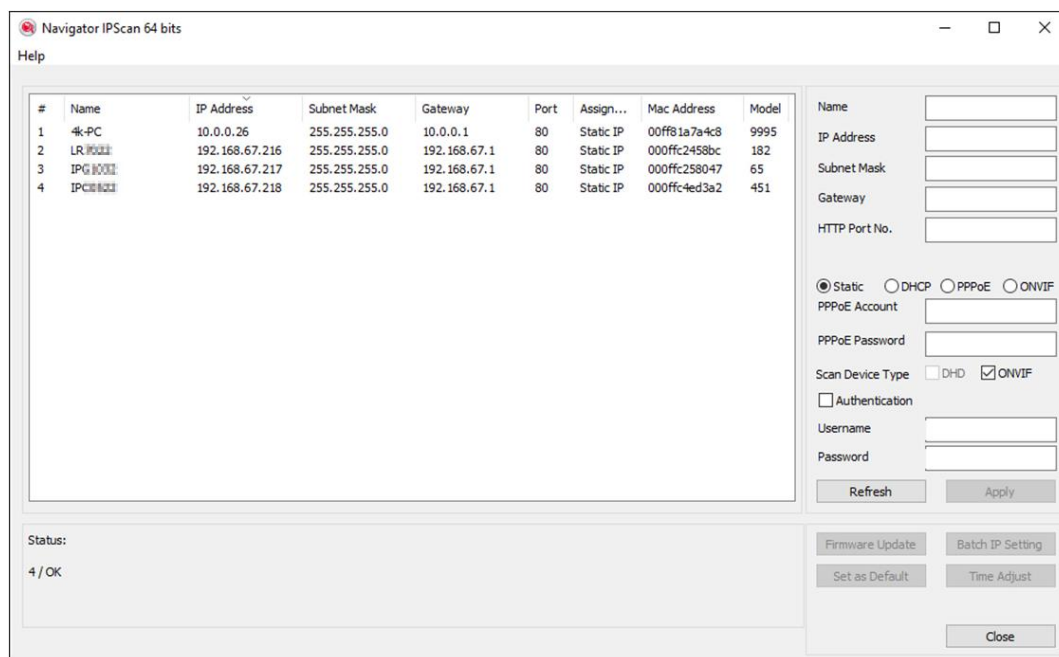
Chapter 2 Before Accessing IP PT Illuminator

Before accessing the IP PT illuminator, make sure that the illuminator's RJ-45 network connector, and power cable are properly connected. To set the IP address, consult your network administrator. The default IP address for each IP PT illuminator 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 IP PT illuminator, download [IPScan](#) from our official website. 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 IP PT illuminators, 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



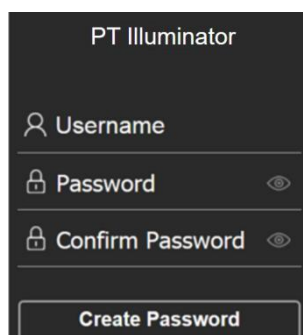
Chapter 2-2 Configure IP Addresses through HTML Connection

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:

- Due to security reason, create the username and password for the first login. To login to the IP PT illuminator, please create the username and password on the login page. Press **Confirm** to complete the setting and login simultaneously.
- 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 Login

Due to security reason, create the username and password for the first login. To login to the IP PT illuminator, please create the username and password on the login page. Press **Confirm** to complete the setting and login simultaneously.

A dark-themed login form titled "PT Illuminator". It contains three input fields: "Username" with a magnifying glass icon, "Password" with a lock icon and a toggle eye icon, and "Confirm Password" with a lock icon and a toggle eye icon. Below these fields is a "Create Password" button.

Minimum Password Strength Requirements:

1. The password length must be 8 or more characters.
2. The password must include at least 1 number (0 ~ 9), 1 uppercase letter, 1 lowercase letter and 1 symbol(~ ? / + = , : ; . ' @ # ¥ % ^ & * () _ -).

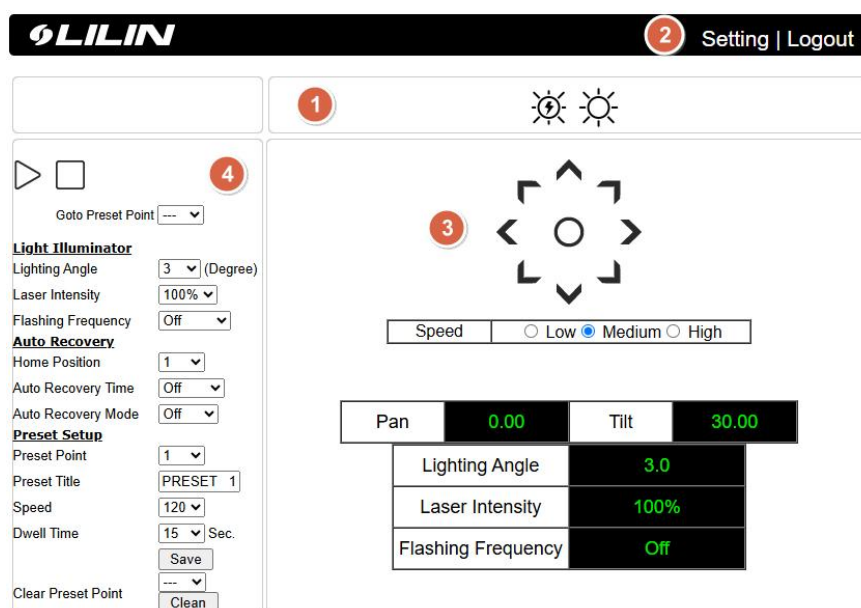
Note: Please preserve the credential for accessing the camera properly. Forgetting the credential for accessing the camera, please perform hardware factory default.

Chapter 3 IP PT Illuminator Operations

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

Chapter 3-1 HTML Operations

1. **Quick buttons:** IP PT illuminator shortcuts
2. **Setup buttons:** IP PT illuminator setup menu
3. **PT Control Panel**
4. **Drop-down settings menu**

The interface shows the "LILIN" logo and "Setting | Logout" in the top bar. A left sidebar contains controls for "Goto Preset Point", "Light Illuminator" (Lighting Angle, Laser Intensity, Flashing Frequency), "Auto Recovery" (Home Position, Auto Recovery Time, Auto Recovery Mode), "Preset Setup" (Preset Point, Preset Title, Speed, Dwell Time), and "Clear Preset Point". The main area features a PT control panel with a directional pad (labeled 3), a "Speed" selector (Low, Medium, High), and a table of current settings. A red circle labeled 1 is at the top, and a red circle labeled 4 is near the sidebar settings.

Pan	0.00	Tilt	30.00
Lighting Angle		3.0	
Laser Intensity		100%	
Flashing Frequency		Off	

Chapter 3-2 Quick Buttons

The quick control panel buttons are described below:

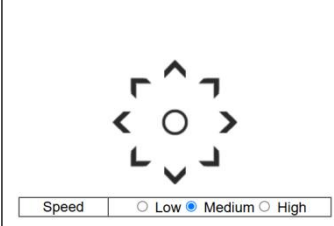
Icon	Description
	Light flashing mode
	Constant light mode

Chapter 3-3 Function Panel

	Auto Pan Start	☐	Auto Pan Stop		
				Goto Preset Point ---	Go to preset position
Light Illuminator		Set the lighting function			
Auto Recovery		If the PT illuminator idles for a period of time, the selected function will be activated automatically.			
Preset Setup		Preset Position Setup.			
Light Illuminator Lighting Angle 3 (Degree) Laser Intensity 100% Flashing Frequency Off		Light Illuminator drop-down options ● Lighting Angle: Adjustable beam angle ranging from 1.6° to 11°. ● Laser Intensity: The light intensity can be adjusted from 0% to 100%. The larger the percentage, the stronger the light intensity. ● Flashing Frequency: The flashing frequency in flashing mode can be set to Off, Low, Medium, or High.			
Auto Recovery Home Position 1 Auto Recovery Time Off Auto Recovery Mode Off		Auto Recovery drop-down options Home Position: Specify a home position for one of the presets. Auto Recovery Time: If the PT illuminator idles after the chosen time period, the selected function will be activated automatically. Auto Recovery Mode: Return time activation triggers a return to home position or sequence (preset position).			
Preset Setup Preset Point 1 Preset Title Speed 120 Dwell Time 15 Sec. Save Clear Preset Point --- Clean		Preset Setup drop-down options A total of 256 preset positions can be programmed for the IP PT Illuminator. To set up a preset position, first move the cursor to the PT control panel. Then move to the desired position by using the pan and tilt buttons. And configure the lighting parameters (e.g., beam angle, intensity, etc.) Next, assign a number for the current position from the drop-down Preset Point list. Then assign a Dwell Time and Speed for the current position from the drop-down menus. Click Save for the changes to take effect. To delete a preset, go to the " Clear Preset Point " dropdown menu, select the preset number you wish to remove, and press "Clean" to apply the changes. Preset Title: Support up to 28 English or numeric user-defined preset point names. If it is left blank, the default preset point name will be displayed.			

Chapter 3-3-1 Vertical and Horizontal Direction Controls

The PT illuminator can be controlled vertically and horizontally via the control panel. The details are described below:



8 Directional buttons control for Pan-Tilt

As shown in the image to the left, eight arrow buttons and speed options are provided for controlling the pan and tilt of the IP illuminator.

Users can select from three speed levels — Low, Medium, or High — in the menu. The spotlight will move in the direction of the arrow button pressed, according to the selected speed.

Below image shows the current pan and tilt angles, as well as beam angle, light intensity, and flashing frequency settings.

Pan	1.09	Tilt	30.00
Lighting Angle	3.0		
Laser Intensity	100%		
Flashing Frequency	Off		

Chapter 3-3-2 Auto Patrol

The IP PT illuminator supports an Auto Patrol mode, allowing it to automatically patrol preset scenes for lighting projection. Once Auto Patrol mode is enabled and a patrol type is selected, pressing the “AutoPan Start” icon will immediately start the patrol. To stop the patrol, press the “AutoPan Stop” icon



or operate the directional control (joystick or arrow keys) to stop the patrol immediately.

Auto Pan Mode: Sequence

Chapter 3-3-3 Preset Position

The IP PT illuminator can store and execute up to 256 preset positions. These preset positions can be manually recalled or automatically triggered through Auto Patrol mode or Auto Return mode.

Saving Presets: Please go to the preset point to set the operation and store it (it can only be executed at the stored preset point position).

Executing Presets: Go to the Execute preset point drop-down option and select Execute.

Chapter 4 Settings

As an administrator, you can configure the IP PTZ 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, os version, system reboot time, and device name settings. To modify these options, follow the instructions below:

Setup > System > General

MAC Address	00:0f:fc:90:99:09
Firmware Version	12.1.001.6371
Pan-Tilt Firmware Version	1.3.6.1
OS Version	Linux 4.9.84
System Reboot Time	2000/01/17 12:58:13 Mon CST
Device Name	IM57114AE

- **MAC Address:** The MAC address of the IP PT illuminator.
- **Firmware Version:** Firmware version of the IP PT illuminator. To update the firmware, please refer to the "Maintenance" section.
- **Pan-Tilt Firmware Version:** Check if the firmware is up-to-date.
- **OS Version:** The version number of the 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 the IP PT illuminators. To change the device name, enter a new name for the IP PT illuminator and click OK.

Chapter 4-1-2 User

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

Setup > System > User

Bypass Logon ☐ OFF

IPScan Bypass Logon ☒ ON

Password Strength ☐ OFF

Authentication Security ☐ OFF Within: Min. Failed Login Attempts: Account Blocking Time: Min.

Operation Timeout ☒ ON Min.

Account

New Password

Confirm Password

User Group ☒ Administrator , ☐ Operator , ☐ Viewer

Password has to meet the following criteria:
(1)More than or equal to 8 characters,
(2)Allow uppercase letter, lowercase letter, number digit, and special character,
(3)Must have at least three types of character sets.

Enter the account name, password and confirm password to add new account, and then check to assign the access rights for this account. Click OK to update the settings.

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

Chapter 4-1-3 Date and Time Settings

You can change the time of your PT Illuminator through a HTML web page. Simply select the date and time in the drop-down menus, and click OK to apply. You may also set the holiday list in this page.

Setup > System > Date/Time

Server Time 2025/10/17 14:56:10 GMT+0800

Synchronize with NTP ☒ Every Hour ☐ Off

Time Server time.stdtime.gov.tw

Time Zone (GMT+08:00) Taipei

Time 2025 / 10 / 17 14 : 55 : 26 Synchronize with PC

Enable Holiday List ☒

Select	Name	Start Date(Month-Date Hour:Min)	End Date(Month-Date Hour:Min)
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59
☐		1 - 1 0 : 0	12 - 31 23 : 59

OK

Synchronize with an NTP server

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

Note: This function requires Internet connection.

Chapter 4-1-4 System Log

You can view the system-generated log in this page. Click Save icon to export the log to a text file. You can also search for log file by selecting the type keyword.

Setup > System > System Log

Page 1 of 3 Type: ALL Displaying 1 to 25 of 69 items

IP Address	User	Date & Time	Log Description
192.168.8.80	admin	2025/10/17 14:55:21	Manual Time Settings, 20251017145518(SYSTEM MESSAGE)
192.168.8.80	admin	2025/10/17 14:55:21	Update NTP Settings(SYSTEM MESSAGE)
192.168.8.80	admin	2000/01/17 13:12:09	Manual Time Settings, 20251017145518(SYSTEM MESSAGE)
192.168.8.80	admin	2000/01/17 13:12:09	Update NTP Settings(SYSTEM MESSAGE)

Chapter 4-2 Network

LILIN Home Page | Language | Logout

System **Network** Preset Point Info Maintenance

Chapter 4-2-1 General

Network settings are the basic settings that connect the IP PT illuminator to the network. The default IP address of IP PT illuminator 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 PT illuminator.

To set up a local area network, enter the IP address, subnet mask, gateway, and DNS. Click OK to update the settings.

Setup > Network > General

Network	☒ Static ☐ DHCP ☐ PPPoE
IP Address	192.168.8.121
Subnet Mask	255.255.255.0
Gateway	192.168.8.121
Primary DNS	168.95.1.1
Secondary DNS	168.95.1.1
Account	account@pppoe.com
Password	
2nd IP Address	☐ Enable ☒ Disable
2nd IP Address	192.168.0.200
2nd Subnet Mask	255.255.255.0
3rd IP Address	☐ Enable ☒ Disable
3rd IP Address	192.168.0.200
3rd Subnet Mask	255.255.255.0
OK	

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.

- **Primary DNS** —The IP address of the default and first DNS server
- **Secondary DNS IP Address**—The IP address of the backup and second DNS server to the default DNS

Chapter 4-2-2 General IPv6

Please enter the relevant IPv6 information. Click "OK" to apply the settings.

Setup > Network > General IPv6

Network ☐ On ☒ Off

IP Address /

Default Gateway

Primary DNS

OK

Chapter 4-2-3 HTTP Service

HTTP (Hypertext Transfer Protocol) is used to log in to the device through a web browser. It allows image snapshots, remote control, and configuration changes. It supports HTTP API and can be used to control pan, tilt, and etc.. Correct port forwarding settings. 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 & HTTPS or HTTPS). Click OK for the changes to take effect.

Setup > Network > HTTP Service

HTTP Port

HTTP Connection Policy ☒ HTTP & HTTPS ☐ HTTPS Service

OK

Chapter 4-2-4 HTTPS Service

The IP PT illuminator support HTTPS (Hypertext Secure Transmission Protocol) service. HTTPS is an Internet protocol that ensures the integrity and confidentiality of data as it travels between users' computers and websites. When users visit any website, they want a secure and private online experience.

HTTPS can be regarded as the advanced security version of HTTP. The SSL protocol is added as a security certificate. Therefore, the website can prevent data thief from directly seeing the transmitted data even if they intercept the transmitted information by using the encryption on the agreement.

Setup > Network > HTTPS Service

HTTPS Service ☐ Enable ☒ Disable

There are two options to set HTTPS service:

1. The first option is to create a free self-signed certificate by filling-in the blank field below, then click **Create a certificate**.

HTTPS Service	☒ Enable ☐ Disable
HTTPS Status	Disable
Certificate Status	Not installed
Method	Create self-signed certificate
Country	US
State or province	Taiwan123
Locality	Taipei123
Organization	IPCAM12
Organization Unit	IPCAM123
Common Name	rw.example.com@@123
Validity	365
Create a certificate.	

A pop up message will display:

Organization Unit	IPCAM123
Common Name	rw.example.com@@123
Validity	365
Create a certificate.	
Create a certificate.	

Then, you will notice that **Certificate Status** has changed from **Not Installed** to **Active**

HTTPS Service	☒ Enable ☐ Disable
HTTPS Status	Disable
HTTPS Port	443
Certificate Status	Active
Method	Create self-signed certificate
Country	US
State or province	Taiwan123
Locality	Taipei123
Organization	IPCAM12
Organization Unit	IPCAM123
Common Name	www.example.com@@123
OK Remove a certificate.	

Click **OK** to activate HTTPS function. And the **HTTPS Status** will have changed from **Disable** to **Enable**.

HTTPS Service	☒ Enable ☐ Disable	→	HTTPS Service	☒ Enable ☐ Disable
HTTPS Status	Disable		HTTPS Status	Enable

This IP PT Illuminator may now be connected via HTTPS protocol with your browser.

2. The second option is to purchase an SSL certificate by selecting **Create a certificate request and install**. After purchasing the SSL certificate from a third party company, browse your computer to upload the SSL certificate. If it is successful, the **Certificate Status** will have changed from **Not Installed** to **Active**. And **HTTPS Status** will have changed from **Disable** to **Enable**.

HTTPS Service	☒ Enable ☐ Disable
HTTPS Status	Disable
Certificate Status	Waiting for a certificate.
Download File	Download
Select a certificate file	Browse... Upload
Method	Create a certificate request and install.
Country	US
State or province	Taiwan123
Locality	Taipei123
Organization	IPCAM12
Organization Unit	IPCAM123
Common Name	www.example.com@@123

Chapter 4-2-5 IP/MAC Address Filtering

The PT illuminator provides an IP/MAC address filter to help you block unauthorized IP/MAC addresses from accessing the PT illuminator. Enable the service before you enter the IP address you want to block, and press OK.

Setup > Network > IP/MAC Address Filtering

IP/MAC Address Filtering	☒ Enable ☐ Disable
Allow / Deny	☒ Allow ☐ Deny
IP Address	
	Prompt:<IP Address><Enter>
MAC Address	
	Prompt:<MAC Address><Enter>
OK	

- **IP/MAC Address Filtering:** The switch for IP/Mac address filtering.
- **Allow / Deny:** Allow / deny to access by the IP/Mac address.
- **IP Address:** Specify the IP address for filtering.
- **MAC Address:** Specify the IP MAC for filtering.

Chapter 4-2-6 DDNS

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

Setup > Network > DDNS

Server Name	http://www.ipddns.cc
DDNS	☐ OFF
Account	249906
Password	*****
Host Name	249906
	http://61.216.97.157:3001
WAN IP	



Refresh

OK

To activate DDNS, go to www.ddnsipcam.com. If the IP PT illuminator 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 PT illuminator will automatically register to www.ddnsipcam.com.

Note: The DDNS feature requires Internet connection.

Chapter 4-3 Preset Point Info

LILIN

Home Page | Language | Logout

System

Network

Preset Point Info

Maintenance

Preset point information list displays the stored preset parameters in a table, enabling users to easily access and review the details of each preset.

Preset Point Info

Setup > > Preset Point Info

Preset Point	Preset Title	Pan	Tilt	Speed	Dwell Time	Lighting Angle	Laser Intensity	Flashing Frequency
1	PRESET 1	250.27	7.20	120	15	11	100%	關閉
2	PRESET 2	188.84	31.01	120	15	5	80%	中
3								
4								
5								
6								
7								
8								
9								
10								

Chapter 4-4 Maintenance



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

To update the PT illuminator's firmware, click Browse and select an update file. Click "Submit" to start the firmware update.

To export the PT illuminator settings file, click "Export XML"; to apply the PT illuminator settings file, click "Browse" to the right of the Import Configuration File option, select the configuration file to apply, and then select "Upgrade".

Setup > 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 may damage this machine and may be required to ship back to your vendor for repair.

flashcv25s55mpl.bin:Application Firmware
flashcv25s55mpl-s.bin:Encrypted Application Firmware

No file chosen

Upload 0%

Export Config File

☐ Network Setting
☒ System Setting
☒ Preset Point Info Setting

Import Config File No file chosen

Reboot System

Default Settings
☒ Initialize without Network Settings & System Settings
☐ Initialize All Settings

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

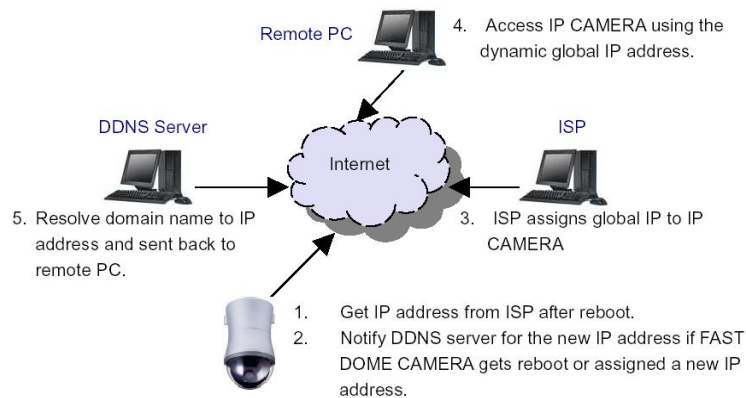
Note: If you forget your password, please contact your vendor or send the device to us.

Appendix

DDNS Network Settings

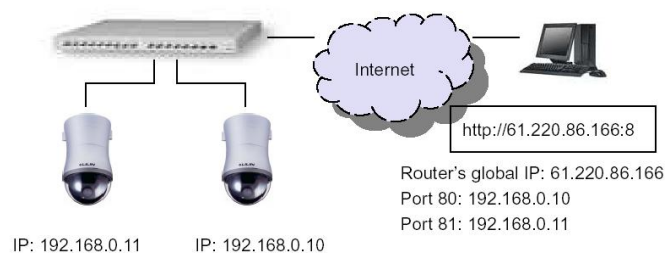
One of the advantages of adopting DDNS and PPPoE services is to save the cost of renting a global IP address. When you power on a camera with a video server and connect to the Internet with the PPPoE service, the camera asks your ISP for a dynamic global IP address. This Internet-accessible IP address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



Restore to Factory Default

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

1. Press the "Restore to Factory Default RESET" button for 15 seconds before releasing.
2. The network server will restart.
3. Launch to IPScan Utility to search for the PT Illuminator.
4. Access the IP device via an Internet browser.
5. Due to security reason, create the username and password for the first login. To login to the PT Illuminator, please create the username and password on the login page. Press Confirm to complete the setting and login simultaneously.

