

S7/S8 Series 4K IP PTZ Camera User Manual

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Summary

LILIN S7 and S8 series IP PTZ cameras include a series of 4K and 5 MP resolution IP PTZ cameras, day and night high-quality auto-focus network cameras. This camera adopts the latest Smart H.265 image compression technology, and the network transmission of ultra-high resolution images is smoother. LILIN's multi-streaming technology can provide 4K, 2 million, 720p, D1, CIF and other resolutions, which can be adapted to transmit high-quality images under various bandwidth network environments.

Ultra-low light sensor, color night light enhanced mode, 4K picture is more realistic. Ultra-wide dynamic HDR technology, up to 120dB in high backlight environment, the face image is clearer.

The 25X/30X IP PTZ Cameras are capable of of making 360° continuous rotations, users can accurately position the camera to identify specific targets. The IP PTZ Cameras provide IP66-rated protection against water and dust. The 25X/30X optical zoom give the IP PTZ Camera an impressive range making it ideal for numerous applications.

The S7 and S8 series of IP PTZ cameras support SmartEvent technology, which provides programmable and scheduled alarm DO triggering, counters and virtual digital inputs to provide network system integration. LILIN cameras provide output functions for sending alarm information, including smartphone connections, email snapshots, and FTP snapshots.

In addition, The S7 and S8 series IP PTZ cameras can connect to Navigator VMS software. This software can enhance the performance of the network camera and provide you with a complete video management solution.

Key Features

- Supports Smart H.264 and H.265 encoding formats.
- Built-in GPU engine for Aida plug-in
- Al detection can send Email or FTP snapshot alarms
- SmartEvent for digital output
- Ultra low light & HDR at 120dB
- Day/night video quality independent scheduling
- Bit rate and frame rate on-the-fly adjustment
- Support dynamic DNS (DDNS) and network time protocol (NTP)
- Support HTTP API integration
- Support ONVIF protocol
- Support LILIN Navigator

Trademarks & Acknowledgments

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Other References

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.

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 System Requirements

LILIN's IP PTZ camera uses compression technology that provides 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 PTZ cameras.

Chapter 1-2 Software Requirements

Chapter 1-2-1 Apple Mac OS

LILIN IP PTZ camera uses HTML5 streaming which supports Safari browser for accessing video streaming of the IP PTZ camera on Apple Mac OS without any software plug-in.



Chapter 1-2-2 PC Windows OS

Merit LILIN Universal ActiveX software components for a web browser to display MJPEG or H.264/H.265 video. When you first log in to our IP PTZ camera, you may see a prompt box as below via Windows OS.



Click Install and follow the onscreen instructions to install necessary component.



Chapter 2 Before Accessing IP PTZ Cameras

Before accessing the IP PTZ 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 PTZ 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 <u>IPScan</u> 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 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

Na Help	vigator IPScan 64	bits								_		×
# 1 2 3 4	Name 4k-PC IR7022 IPG1032 IPC0522	IP Address 10.0.0.26 192.168.67.216 192.168.67.217 192.168.67.218	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	Gateway 10.0.0.1 192.168.67.1 192.168.67.1 192.168.67.1	Port 80 80 80 80	Assign Static IP Static IP Static IP Static IP	Mac Address 00ff81a7a4c8 000ffc448bc 000ffc4ed3a2 000ffc4ed3a2	Model 9995 182 65 451	Name IP Address Subnet Mask Gateway HTTP Port No. © Static O DH PPPoE Account PPPoE Account PPPoE Password Scan Device Type Authentication Username Password Refresh		Poe O c	DNVIF
Status 4 / OK	5:								Firmware Update Set as Default	Ba	tch IP Sett Time Adjus Close	ting st

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 PTZ camera, 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 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.

Security Settings
Settings:
Download signed ActiveX controls
O Enable
Compt Download unsigned ActiveX controls
O Disable O Epshie
O Prompt
O Disable
Enable Prompt
Run ActiveX controls and plug-ins
Reset to: Madum Peset
OK Cancel

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

Chapter 2-4 Login

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

9LILIN
IPCAM
0
Bassword ◎
Confirm Password 💿
Create Password

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 LILIN IP PTZ 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 PTZ camera shortcuts
- 2. ActiveX display screen: Display RTSP H.264/H.265 or MJPEG streaming video
- 3. Profile switching menu: Switching from one profile to another
- 4. Setup buttons: IP PTZ camera setup menu
- 5. PTZ Control Panel

Chapter 3-2 Quick Buttons

The quick control panel buttons are described below:

Icon	Description
	PTZ control panel
; O	Take a snapshot of the video
	Start recording
$\left[\right] \left[\right]$	Pause recording
Ŷ	Speaker output control
Ŷ	Microphone input control
\bigcirc	Alarm out 1&2
	Enlarge the live view
	Privacy Mask
Q	Video quality basic
₽Ţ	Video quality advance



Chapter 3-2-1 Privacy Mask

LILIN camera provides up to 16 sets of privacy masking. On **Edit Mask**, select a number from the Mask No. drop-down menu and a mask will appear in the center of the screen. You can also adjust the color, width, and length of the mask and move the camera to the appropriate position to hide any object. Press **Submit** and **Confirm** to save the changes.

To disable the function, select a **Mask** number to disable and click on **Disable**.

To remove a mask, select a number from the **Mask No.** drop-down menu under **Clean Mask** and click **Submit** and **Confirm** to save the changes.

<u>=</u> ⊡r•∥ ∿ ₽ ⊅	¢ŢŢ	
	Privacy Mask Mask Edit Mask Mask No Mask Color Mask Width Mask Height Clean Mask Mask No	1 Cenable Disable None Edit White 32 24 Submit None Submit

Chapter 3-2-2 Quality Basic

This menu allows you to adjust brightness, 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.

Ξ⊡t=∥¢₽¢	
	Quality Basic Day Mode Night Mode
	3D Noise Reduction : 10 (Low / High)
	Contrast : 60 (Low / High)
No atra	Hue : 50 (Low / High) Saturation : 50 (Low / High)
	Sharpness : 25 (Low / High)
	Load Default

• **3D Noise Reduction:** If the noise of the video is high at night, set the setting to high if needed.



Chapter 3-2-3 Video Quality Advance

In this page, you have access to Exposure, Automatic Gain Control, White Balance Control, Sense Up, Shutter Speed, and IR-Cut settings allowing you to adjust camera video quality for day and night.

The camera provides two sets of video quality database for day or night mode. This is very useful settings for video quality especially for ANPR/LPR application where the shutter speed can be customized at night. The video quality settings can be applied by Day and Night Switch explained later in this chapter.

Ĵ [] [] [] [] []
Quality Advance Day Mode Night Mode White Balance Control Auto Exposure Value 7 Exposure Value 7 Exposure Mode Full Auto Shutter Value Range Full range shutter Auto Gain Control(SENSE UP+) 42 Color Mode Color IR LED (Far) Off IR LED (Near) Off IR Cut Filter On Defog Off Load Default Load Default

Video setting options are described as follows:

- White Balance Control: Adjusts the white balance manually or automatically.
- **Exposure Value:** Adjusts the value of exposure; the higher the value is set, the brighter the video is.
- **Exposure Mode:** Full Auto, Shutter Priority, Iris Priority Full Auto: Aberture value and shutter speed are adjusted automatically. Shutter Priority : Auto iris, and the shutter speed are adjustable. Shutter speeds are 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000, default value is depending on model.
- Iris Priority: Auto shutter and the aperture value are adjustable. Fix iris position: F1.6, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11, F14, and Close. The default value depends on model.
- Shutter Value Range: Set the min and max shutter values.
- Auto Gain Control (Sense Up+): See the below description.
- Sense Up: Select the level of Sense Up to enhance the video.
- **Color Mode:** Switch between color/black-and-white mode.
- IR LED (Far): IR long-distance illuminator light source setting can be set to off, auto, fix power. If auto is selected, the appropriate illuminator light source power will automatically adjust according to the zoom ratio.
- IR LED (Near): IR short-distance illuminator light source setting can be set to off, auto, fix power. If auto is selected, the appropriate illuminator light source power will automatically adjust according to the zoom ratio.
- IR Cut Filter: Enable/disable the IR cut filter.
- **Defog:** When the surrounding area of the subject is foggy and shows low contrast, the defog mode will make the subject appear clearer.
- Electronic Image Stabilizer: Switching ON to reduce image blur caused by, for example, vibration. This function allows you to obtain images without much blurring. A vibration frequency of around 10 Hz can be most effectively reduced. The Image Stabilizer function employs the digital zoom system, so the angle of view and resolution are changed, but the sensitivity is maintained.



Chapter 3-2-3-1 White Balance Control (AWB)

There are day time and night time auto white balance controls (ATW) for the camera.

Manua	al \sim
R-	128 ~
Gain	(1~255)
B- Gain	$128 \times (1 \sim 255)$
	Manua R- Gain B- Gain

- White Balance Control: Auto white balance and manual white balance
- **R-Gain:** Red gain specific auto white control
- **B-Gain:** Blue gain specific auto white control
- One Push AWC: One time AWB setting

Chapter 3-2-3-2 Sense Up+

Sense Up+ (AGC) is a low-light and high-sensitivity DSP control that enables outstanding video quality even in low-light environments. Sense Up+ technology can be used for both black-and-white and/or color video modes. To enable Sense Up+, first enable Auto Gain Control (AGC). Use Sense Up+ with 3D noise reduction (3D DNR) can reduce noise that occurs in low light environments. AGC and 3D DNR do not cause motion blur. If the picture is still too dark under the environment, turn on Sense Up (slow shutter) instead, however, it may cause motion blur in low-light conditions.



Chapter 3-3 PTZ Control Panel

Ð	Zoom In Q Zoom Out Zoom Speed 7 \vee Zoom Speed				Zoom Speed	
[+]	Focus Far	[ו]	Focus Near	Focus Speed $1 \vee$	Focus Speed	
AF	Auto Focus			Normal AF V	Focus Mode	
\supset	Auto Pan Start		Auto Pan Stop	Scan1 ~	Auto Pan Mode	
5	Flip 180			Goto Preset Point V	Go to preset position	
PTZ Setup		PTZ Function Setup.				
Lens Setup Lens Function Setup.						
Day Nig	Day Night Mode Setup Day and Night Switch Function Setup					
		If the IP PTZ camera idles for a period of time, the selected function will be				
Autor	ecovery	activated automatically.				
Auto So	can Setup	Auto Scan Function Setup				
Preset	Setup	Preset Position Setup.				
Patrol S	Setup	Memory Patrol Function Setup				



PTZ Schedule Set	tup	PTZ Schedule Function Setup
PTZ Setup		PTZ setup drop-down options
Turbo Speed	Off ∽	Turbo Speed: When this function is turned on, the speed of preset position
Flip Function	Mode 1 V	operations will be boosted (360 degrees per second). (The turbo speed is
Vertical Limit	-30 ~	depends on model or firmware version)
Click To Center	Off ∽	 Off : PTZ moves up to the vertical upper limit, then moves down to
Mouse PTZ Control	Off v	90 degrees and stop.
		 Digital : PTZ moves up to the vertical upper limit, then moves
Motor Power Saving	On ∽	down to vertical lower limit and stop.
		 Mode 1 : PTZ moves up to the vertical upper limit, then moves
		down to 90 degrees and then, it flips 180 degrees horizontally
		 Mode 2: PTZ moves up to the vertical upper limit, then moves
		down to 90 degrees and then, it flips 180 degrees horizontally
		and moves up vertically.
		Vertical limit: Set the above PTZ maximum angle limit.
		Click To Center: After the function is enabled, move the mouse to the
		ActiveX display screen and press the left mouse button. PTZ will move the
		current position image of the mouse to the center of the screen.
		Mouse PTZ Control: Enable this function and move the mouse to the
		ActiveX display screen and press the left mouse button. After the arrow
		appears on the ActiveX display screen, move the mouse up, down, left, and
		right. The PTZ will move as per mouse control direction. The closer the
		mouse is to the edge of the display screen, the faster the PTZ will move. To
		control the lens zoom ratio, push the mouse scroll wheel up or down.
		Motor power saving mode: Turn the motor power saving mode on or off.
		After the power saving mode is turned on, when the vertical and horizontal
		motors stop running, the control system will enter the power saving mode to
		reduce the motor torque to 70%. When the vertical or horizontal motor is
		running, the motor torque will return to 100% (This feature depends on the
		model or firmware version).
Lens Setup		Lens Setup drop-down options
Focus Sensitivity	Normal ~	Focus sensitivity: Auto focus sensitivity.
Auto Focus Search	Narrow ~	Auto Focus Search: Auto focus search range setting.
Near Focus Limit	1.5m ∽	Near Focus Limit: Maximum focus distance setting.
Digital Zoom	Off ∽	Didital /00m. Enable didital zoom atter the ontical zoom is exhausted
Drocot Desition		Digital 200111. Enable digital 200111 and the optical 2001113 exhausted.
Preset Position	MF ~	Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations
Pan-Tilt Movement	MF ~ AF ~	Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus
Pan-Tilt Movement	MF ~ AF ~ Apply	Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements.
Pan-Tilt Movement Lens Initialize Auto Calibration	MF ~ AF ~ Apply Off ~	Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory
Pan-Tilt Movement Lens Initialize Auto Calibration	MF ~ AF ~ Apply Off ~	Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults
Pan-Tilt Movement Lens Initialize Auto Calibration	MF ~ AF ~ Apply Off ~	Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00
Pan-Tilt Movement	MF ~ AF ~ Apply Off ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night.
Pan-Tilt Movement Lens Initialize Auto Calibration	MF ~ AF ~ Apply Off ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value	MF ~ AF ~ Apply Off ~ P 44	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto.Switch Time	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec.	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination.
Pan-Tilt Movement Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode.
Par-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Night to Day Threshold	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~ 12 ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Night to Day Threshold	MF ~ AF ~ Apply Off ~ 44 2 ~ Sec. 6 ~ 12 ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light source signal.
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Night to Day Threshold Day Mode Night Mode	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~ 12 ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light source signal. Switch Time : Select the delay time for switching between day
Pan-Tilt Movement Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Night to Day Threshold Day Mode Night Mode Night Mode	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~ 12 ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light source signal. Switch Time: Select the delay time for switching between day and night modes °
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Night to Day Threshold Day Mode Night Mode Schedule	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~ 12 ~	 Preset Position: Enable digital Zoom after the optical Zoom is exhibited. Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light source signal. Switch Time: Select the delay time for switching between day and night modes ° Day to Night Threshold: Turn on the infrared threshold according to the
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Day Mode Night Mode Schedule Day to Night Time	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~ 12 ~ 0 ~ : 0 ~	 Preset Position: Enable digital 200m after the optical 200m is contacted. Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light source signal. Switch Time: Select the delay time for switching between day and night modes ° Day to Night Threshold: Turn on the infrared threshold according to the measured luminance.
Pan-Tilt Movement Lens Initialize Auto Calibration Day Night Mode Setu Light sensor current value Auto,Switch Time Day to Night Threshold Day Mode Night to Day Threshold Schedule Day to Night Time Night to Day Time	MF ~ AF ~ Apply Off ~ P 44 2 ~ Sec. 6 ~ 12 ~ 0 ~ : 0 ~ 0 ~ : 0 ~	 Preset Position: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs preset operations. Pan-Tilt Movement: Set the camera to Auto-Focus (AF) or Manual-Focus (MF) when the camera performs Pan-Tilt movements. Lens Initialize: Click Apply to restore the zoom and focus to factory defaults Auto Calibration: Turn on this option to automatically perform AF at 00:00 every night. Day Night Mode Setup drop-down options Light sensor current value: Used to measure the current ambient light source illumination. Auto, Switch Time: Set the level of sensitivity for the Auto Mode. Auto : Automatically switch between day (color) or night (black and white) mode according to the intensity of the light source signal. Switch Time: Select the delay time for switching between day and night modes ° Day to Night Threshold: Turn on the infrared threshold according to the measured luminance.



	Day to Night Time: Set the time to switch from day to night mode.
	Night to Day Time: Set the time to switch from night to day mode.
	IR Curve: Select night mode ambient light source wavelength.
Auto Recovery	Auto Recovery drop-down options
Home Position Off ~	Home Position: Specify a home position for one of the presets.
Auto Recovery Time Off ~	Auto Recovery Time: If the IP PTZ camera idles after the chosen time
Auto Recovery Mode Off ~	period, the selected function will be activated automatically.
	Auto Recovery Mode: Return to home position in modes such as home
	position, auto scan mode, tour mode, patrol mode or auto tracking. Users
	are able to set an operation mode to ensure all-day monitoring. In the
	Recovery Mode, if the IP PTZ Camera idles for a period of time, the
	selected function will be activated automatically. The Recovery Mode allows
	constant and accurate monitoring to avoid the Dome Camera from idling or
	missing events.
Auto Scan Setun	Auto Scan Setup drop-down options
Auto Scan ID	Auto Scan ID: Select a scan path (1~16) from the drop-down list.
	Speed: Set the scanning speed between two positions.
Speed 5 ~	Dwell Time: Set the time you want the camera view to stay at the start
Dwell Time 5 ×	position or end position.
	Start Position: Set the start position of the selected scan path.
Start Position Apply	End Position: Set the end position of the selected scan path.
End Position Apply	
Preset Setup	Preset Setup drop-down options
Preset Point 1 ~	A total of 256 preset positions can be programmed for the IP PTZ camera.
Preset Title	Please refer to the instructions below to configure preset positions. To set up
Speed 255 V	a preset point, first move the cursor to the PTZ control panel. Then move to
	the desired position by using the pan, tilt and zoom buttons. Next, assign a
Dwell Time Save	number for the current position from the drop-down Preset Point list. Then
~	assign a Dweil Time and Speed for the current position from the drop-down
Clear Preset Point Clean	Propert Title: Support up to 28 English or numeric upor defined propert point.
	preset fille: Support up to 26 English of humenc user-defined preset point
	names. If it is left blank, the default preset point name will be displayed. The
	of the preset point will be displayed of the screen after the execution
	will be displayed on the display screen after the PTZ information in the OSD
	setting is set to on
	The IP PTZ Camera Series supports up to sixteen patrol paths. To set up a
Patrol Setup	natrol path select a path number from the drop-down list. Then move the
Patrol ID 1 ~	cursor to the PTZ control pane, and move the camera to a desired view (PTZ
Start End Clean	controls) as the start point of the patrol path. Click Start and move around
	the camera view at will to program the patrol path via PTZ controls. When
	you finish programming, click End or recording time stop to end the
	programming process. This function can be activated in return mode or
	automatic mode.
PTZ Schedule Setup	PTZ Schedule Setup: Turn on or off the PTZ schedule function. Please refer
DTZ Sebedule	to the "Schedule" setting page to set the PTZ schedule.
PTZ Schedule On V	



Chapter 3-3-1 Vertical and Horizontal Direction Controls

Two modes are available for moving the camera vertically and horizontally. The details are described below:



Chapter 3-3-2 Zoom and Auto Focus Function

Here you are allowed to change the settings of autofocus functions for autofocus-supported cameras.



- Zoom Speed: Set the speed for Zoom In and Zoom Out
- Focus Speed: Set the speed for Focus Near and Focus Far
- Auto Focus: Normal AF, Interval AF, Zoom Trigger AF

Note: Auto focus camera model only.

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.



Setting Log Out

Chapter 4-1 System

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Chapter 4-1-1 General

Under System Settings \rightarrow 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 > Genera	Setup > System > General						
MAC A data a	00.06600.00.40						
MAC Address	UU:UT:TC:26:62:18						
Firmware Version	10.1.001.2605						
CCD Firmware Version	3.11						
Pan-Tilt Firmware Version	0.0.2						
I/O Firmware Version	0						
OS Version	Linux 4.9.84						
System Reboot Time	2021/04/20 07:33:24 Tue CST						
Device Name	S7R5554/8/9EX25						
	ОК						

- MAC Address: The MAC address of the IP PTZ camera
- Firmware Version: Firmware version of the IP PTZ camera
- CCD Version/Pan-Tilt Firmware Version/ I/O Firmware Version: Check if the firmware is up-to-date.
- **OS Version:** The version number of the IP PTZ camera
- 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 PTZ cameras. To change the device name, enter a new name for the IP PTZ camera and click OK.

Chapter 4-1-2 User

The IP PTZ camera 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 PTZ camera without authentication, switch the Bypass Logon option to On. Enable IPScan Bypass Logon to log in the IP PTZ camera 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: 30 • Min. Failed Login Attempts: 5 • IP Block Length: 5 • Min.
Account	
New Password	
	Password have 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.
Confirm Password	
User Group	 Administrator , Operator , Viewer
	OK Cancel

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 Timer Settings

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 OK to apply. You may also set the holiday list in this page.

Server Time	ime 2021/04/20 15:47:06 GMT+0800																	
Synchronize with NTP	O Every	Hou	r 🔍	01	f													
Time Server	time.stdtim	ne.g	ov.tv	v v														
Time Zone	(GMT+08:	00)	Taip	ei														\sim
Time	2021 🗸 /	1 ~	· / 2	0 ~	-	15	~:	46 ·	• : 4	7 🗸		Syn	ichr	oniz	ze w	ith P	5	
Enable Holiday List																		
Select Name	-	S	art	Dat	e(N	lont	h-D	ate	Hou	r:Mi	n)	End D	Date	e(Mo	onth	-Date	Н	our:M
		1	~] -	1	~	0	~	· : 0	×		12 🗸] -	31	~	23	~	59 🗸
		1	~] -	1	~	C	~	· : 0	v	Ì	12 🗸] -	31	~	23	~	59 🗸
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	59 v
] [1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	<u>5</u> 9 ~
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	59 🗸
] [1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	5 9 v
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	5 9 v
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	59 🗸
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	59 v
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	•	23	~	59 🗸
		1	~] -	1	~	C	~	· : 0	¥		12 🗸] -	31	~	23	~	<u>5</u> 9 ~
		1	~] -	1	~	C	~	· : 0	~		12 🗸] -	31	~	23	~	59 🗸

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 4-1-4 OSD Settings

OSD (on screen display) is for the use of displaying system information on the video. There are features of date and status available.





Camera ID, Date, Status and PTZ info are described below:

- OSD: Click to enable or disable the OSD
- Foreground Color: The color of the text
- Background Color: The background color of the text

Chapter 4-1-5 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	e 1 of 35	; ⊳ ष ∘ T	iype: ALL 🗸 🔁	Displaying 1 to 5 of 859 items ;			
IP Address	User	Date & Time	Log Description				
192.168.8.153	admin	2021/04/20 15:12:45	Set #1 Digital Output Status(0)(SYSTEM MESSAGE)				
192.168.8.153	admin	2021/04/20 15:12:44	Set #0 Digital Output Status(0)(SYSTEM MESSAGE)				
192.168.8.153	admin	2021/04/20 15:12:41	Set #1 Digital Output Status(1)(SYSTEM MESSAGE)				
192.168.8.153	admin	2021/04/20 15:12:33	Set #0 Digital Output Status(1)(SYSTEM MESSAGE)				
		2021/04/20 07:33:24	Power On(SYSTEM MESSAGE)				

Chapter 4-2 Video

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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 encodes frames based on the bit rate setting.

Setup > Video > General							
Encoder2	Encoder2 : Enable Disable						
Encoder3/TV Out : O Disable/(TV Out Enable) Enable/(TV Out Disable)							
Video Standard :							
Image Enhance Mode	: HDR V						
Encoder1		Encoder3					
Profile Name	H.264 🗸	Profile Name	H.264 🗸				
Resolution	2592x1944 ✓	Resolution	720x576 🗸				
Output Frame Rate	30 🗸	Output Frame Rate	15 🗸				
GOP (Group of Pictures)	30 🗸	GOP (Group of Pictures)	15 🗸				
Stream Mode	CBR 🗸	Stream Mode	CBR 🗸				
Bit Rate	4 Mbps 🗸	Bit Rate	1 Mbps 🗸				
RTSP URL	rtsp://192.168.8.246:554/stream0	RTSP URL	rtsp://192.168.8.246:554/stream2				
Encoder2		Encoder4					
Profile Name	H.264 🗸	Profile Name	JPEG 🗸				
Resolution	720x480 🗸	Resolution	352x240 ✔				
Output Frame Rate	15 🗸	Output Frame Rate	15 🗸				
GOP (Group of Pictures)	15 🗸	Image Quality	80 ~				
Stream Mode	CBR 🗸	RTSP URL	rtsp://192.168.8.246:554/stream3				
Bit Rate	1 Mbps 🗸						
RTSP URL	rtsp://192.168.8.246:554/stream1						
	ОК	Load Default					



- Encoders: 4 customizable encoders
- Video Standard: NTSC/PAL setting
- Image Enhance Mode: HDR switch
- **Profile Name:** The selection of JPEG/H.264/H.265 video compression
- **Resolution:** The resolution of the video stream
- **Output Frame Rate:** The frame rate of the video
- **GOP:** The number of I-frames to be displayed in one second
- **Stream Mode:** 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
- **RTSP URL:** Allow you to access the video stream via the Real Time Streaming Protocol
- Image Quality: The compression rate of the H.264/H.265 stream

Chapter 4-2-2 Audio Adjust

Setup > Video > Audio Adjust					
Audio Adjust	Enable \bigcirc Disable				
Audio Input Volume	50 ~				
Audio Input Gain	0 ~				
Audio Output Volume	50 ~				
Audio Encoding Type	ullet G711 u-law $igtrianglet$ AAC				
Sampling Rate	8000 ~				
Bit Rate	16 kbit/s				
	ОК				

- Audio Adjust: The switch for audio adjust
- Audio Input Volume: MIC or line-in volume
- Audio Input Gain: MIC or line-in volume
- Audio Output Volume: volume adjustment
- Audio Encoding Type: volume adjustment
- Sampling Rate: set the audio sampling rate
- Bit Rate: 16 Kbit/s

Chapter 4-3 Controls

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Chapter 4-3-1 Digital I/O

The IP PTZ camera supports NO and NC control interface. To set up, connect the external alarm digital input to the IP PTZ camera. And switch between NO (normally open) and NC (normally closed) for the input.



Chapter 4-3-2 Global Counter

The global counters are for counting a trigger of a remote device. The global counter can be triggered by a metadata, or a virtual input. The global counters can be used for output purposes, such as LED display.





Chapter 4-3-3 Virtual Input

The IP PTZ camera provides up to 16 virtual inputs. The virtual inputs are CGI commands that these can be used for other remote device to trigger.

Setup > Contro	ls > Virtual Input
Virtual Input #1	State: 1
Virtual Input #2	State: 0
Virtual Input #3	State: 0
Virtual Input #4	State: 0
Virtual Input #5	State: 0
Virtual Input #6	State: 0
Virtual Input #7	State: 0
Virtual Input #8	State: 0
Virtual Input #9	State: 0
Virtual Input #10	State: 0
Virtual Input #11	State: 0
Virtual Input #12	State: 0
Virtual Input #13	State: 0
Virtual Input #14	State: 0
Virtual Input #15	State: 0
Virtual Input #16	State: 0

Chapter 4-3-4 Metadata

Metadata is the HTTP response of a CGI command. LILIN IP PTZ camera is able to receive the metadata from an IP device. The metadata is the URL response of an IP device.

Setup > Controls > Metadata	
Number	1
Metadata Enable	
Metadata Server Name	metaservername0
Metadata Type	HTTP Multipart Response ▼
Metadata Server IP/DNS	metaserver.com
Metadata Server Port	80
Account	Account
Password	••••••
Metadata URL	/url
	parser
Metadata Parser	
	OK Cancel

The example below, LILIN IP PTZ camera is able to receive the metadata of motion events, MotionDetect token of /getalarmmotion CGI command, from an IP device. The events are captured into the valuable %Trigger1% for actions. In the SmartEvent, %Trigger1% can be used for a global counter for event triggering.



To setup metadata, finish the settings below:

Metadata Enable: Enable metadata service. Metadata Server Name: Specify the name of the metadata service. Metadata Type: (1) HTTP multipart response, (2) HTTP response

(1) HTTP multipart response—Continuous responses

(2) HTTP response—Client-pull by a schedule

Metadata Server IP/DNS: The IP address of an integrated device.
Metadata Server Port: The port number of the integrated device.
Account: Account name of an integrated device.
Password: password of an integrated device.
Metadata URL: The URL of the an integrated device. "/" is required.
Metadata Parser: The parsing tokens for the valuables of Triggers.

Special characters

If there are special characters such as "/", "\r", "\n", and "\r\n" in the metadata, enter special characters for parsing the metadata.

%Split% %CR% => \r %LF% => \n %CRLF% => \r\n

Metadata Enable		
Metadata Server Name	Tripwire2	
Metadata Type	HTTP Multipart Response V	
Metadata Server IP/DNS	192.168.0.200	
Metadata Server Port	80	
Account	admin	
Password	••••	
Metadata URL	/getalarmmotion	
Metadata Parser	hit2=%Trigger3%,	
	<i>h</i>	
Enter the parsing tokens in the meta pa The max length is 127 characters inclu	arser field for triggering an event from metadata URL of a third party device. ding spaces.	
The parsing tokens of Metadata respor	nse are described below::	
The parsing tokens of Metadata response are described below:: % Trigger1% => Metadata #1 % Trigger2% => Metadata #2 % Trigger3% => Metadata #4 % Trigger6% => Metadata #4 % Trigger6% => Metadata #6 % Trigger7% => Metadata #7 % Trigger9% => Metadata #9 % Trigger9% => Metadata #9 % Trigger1% => Metadata #10 % Trigger1% => Metadata #11 % Trigger12% => Metadata #11 % Trigger12% => Metadata #11 % Trigger12% => Metadata #11 % Trigger13% => Metadata #11 % Trigger14% => Metadata #11 % Trigger14% => Metadata #13 % Trigger14% => Metadata #16 % Trigger16% => Metadata #16		
%Split% %CR% => \r %LF% => \n %CRLF% => \r/n		
	OK Cancel	

Chapter 4-4 Network

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System	Video	Controls	Network	SmartEvent	Notification	Maintenance	PTZ



Chapter 4-4-1 General

Network settings are the basic settings that connect LILIN IP PTZ cameras to the network. The default IP address of IP PTZ 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 PTZ camera.

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	192.168.3.57	
Subnet Mask	255.255.255.0	
Gateway	192.168.0.1	
Primary DNS	168.95.1.1	
Secondary DNS	168.95.1.1	
Account	account@pppoe.com	
Password	•••••	
QoS(DSCP)	0 (0~63)	
2nd IP Address	○ Enable Disable	
2nd IP Address	192.168.0.200	
2nd Subnet Mask	255.255.255.0	
3rd IP Address	○ Enable	
3rd IP Address	192.168.0.200	
3rd Subnet Mask	255.255.255.0	
	ОК	

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
- **QoS(DSCP)** —Based on DSCP standard, set the TCP/IP packet header for packet priority.

A router, gateway, or other DHCP software server can remotely assign an IP address to your IP PTZ 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 PTZ camera may vary. You may need to use IPscan to search for the IP PTZ camera. To enable DHCP, click the DHCP option and click Submit.

Note: Once the DHCP option is enabled, the IP PTZ camera is assigned an IP address by the DHCP server. This feature is only permitted in LAN environments.



Chapter 4-4-2 HTTP Service

HTTP is a 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 & HTTPs or HTTPs). Click OK for the changes to take effect.

Setup > Network > HTTP Service		
HTTP Port	80	
HTTP Connection Policy	HTTP & HTTPS HTTPS Service	
	ОК	

Chapter 4-4-3 RTSP

RTSP is another reliable protocol for video streaming. With correct port forwarding, videos can be sent over the Internet. Details are described in the appendix.

Setup > Network > RTSP	
RTSP Port	554
RTSP Authentication	● On ○ Off
Encoder1	stream0
Encoder2	stream1
Encoder3 (TV Out)	stream2
Encoder4	stream3
	ОК

Settings on this page are described below:

- **RTSP Authentication**: Enabling this option will require username and password when connecting to the RTSP stream
- Encoder: Change encoder name.

Chapter 4-4-4 HTTPs Service

LILIN IP PTZ camera 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	/w.example.com@@123
Validity	365
	Create a certificate.

A pop up message will display:

Organization Unit	IPCAM123
	Create a certificate.
Valiuliy	303
	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
ок	Remove a certificate.

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

HTTPS Service	Enable O Disable	HTTPS Service	Enable O Disable
HTTPS Status	Disable	HTTPS Status	Enable

This IP PTZ Camera 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 O Disable		
HTTPS Status	Disable		
Certificate Status	Waiting for a certificate.		
Download File	Download		
Select a certificate file		Browse	Upload
Method	Create a certificate reque	est and install.	
Country	US		
State or province	Taiwan123		
Locality	Taipei123		
Organization	IPCAM12		
Organization Unit	IPCAM123		
Common Name	www.example.com@@1	23	

Chapter 4-4-5 IP/MAC Address Filtering

LILIN camera provides an IP/MAC address filter to help you block unauthorized IP/MAC addresses from accessing the camera. 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></enter></ip>
MAC Address	
	Prompt: <mac address=""><enter></enter></mac>
	ОК

- 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 4-4-6 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 OK for the changes to take effect.

Setup > Network	
Server Name	http://www.ddnsipcam.com 🔻
DDNS	ON
Account	
Password	•••••
Host Name	
	http://296528.ddnsipcam.com
WAN IP	
	Refresh
	ок



To activate DDNS, go to <u>www.ddnsipcam.com</u>. If the IP PTZ 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 PTZ camera will automatically register to <u>www.ddnsipcam.com</u>.

Note: The DDNS feature requires Internet connection.

Chapter 4-4-7 Push Service

The camera provides IOS and Android mobile phone push service. When the camera alarm occurs, push service setting provides the information to LILIN cloud. And then, send push notification to the client's mobile phone.

- **Push Service:** Enable the push notification.
- **Push Time:** The camera reports regularly to the cloud watchdog time interval.
- **ID:** The APP independent code of LILINHome or LILINViewer on the mobile phone. The table list how many mobile phones are currently subscribed to broadcast notification.
- Address: The mobile phone registered email account in the cloud.

Setup > Network > Push Service			
Push Server https://cloud.ddnsipcam.com/pns/			
Push Service	ON		
Push Time	8 Hrs 🗸		
Status	PUSH get in	fo success. (task:1)Fri Jul 23 09:08:59 2021	
ID		Address	
1053	7	pnslilin40@gmail.com	
1409	7	pnslilin40@gmail.com	
1517	2	pnslilin40@gmail.com	
1370	1	pnslilin40@gmail.com	
1502	6	pnslilin40@gmail.com	
1517	0	pnslilin40@gmail.com	

Chapter 4-5 SmartEvent



Chapter 4-5-1 SmartEvent

Here you can configure the detection settings for alarm, global counter, virtual input, meta data and network failure. Choose an event type for entering the event name and event condition for triggering an alarm. Click **Save the event** button for saving the event.

Setup > SmartEve	ent > SmartEvent
Enable Event 1	\bigcirc
Event Name	Aida Event 1
Condition 1 C	ondition 2 Condition 3 Condition 4 Condition 5
Condition Name	Aida Triggering 1
Trigger Sche	edule Action
Detection Time	1 Sec. Sleep Time 0 V Sec.
(Current number	/Maximum number of Trigger Rule is 1/3)
Trigger	Digital Input V
Enable Trigger	Operator Value Duration Input #1 = ✓ 1 or 0 0 ✓ Sec.
	Save the event. Cancel



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. To schedule event monitoring, choose **Schedule** when you edit an event and highlight the time periods you want the camera to detect events. Click **Save the** event button to update the settings.

Condition 1	Condition	2 Condition 3	Condition 4	Condition 5		
Condition Na	Condition Name Aida Triggering 1					
Trigger	Schedule	Action				
Enable Ho	oliday List					
Select	Schedule	Start Time	End Time			
✓	All 🗸	0 🗸 : 0 🗸	23 🗸 : 59 🗸			
	Sun 🗸	0 🗸 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
	Sun 🗸	0 🗸 : 0 🗸	0 🗸 : 0 🗸			
Save the event. Cancel						

Click **Action** to select the outputs for event triggering.

Setup > SmartEvent > SmartEvent			
Enable Event 1			
Event Name Aida Event 1			
Condition 1 Condition 2 Condition 3 Condition 4 Condition 5			
Condition Name Aida Triggering 1			
Trigger Schedule Action			
(Current number/Maximum number of Action Rule is 1/10)			
FTP Service, Rule Number:0 Edit			
SMTP Service, Rule Number:0 Edit			
Push Service Setting, Rule Number:0			
Alarm Out, Rule Number:1			
HTTP POST Service, Rule Number:0			
Global Counter, Rule Number:0			
Virtual Input, Rule Number:0			
SD Card Service, Rule Number:0			
SAMBA Service, Rule Number:0			
Save the event Cancel			

- **FTP Service:** Mail event logs to an FTP server.
- SMTP Service: Mail event logs to an SMTP server.
- **Push Service Setting:** When the alarm is triggered, can send push notification to specified iOS and Android.
- Alarm Out: Trigger the digital output of the IP PTZ camera.
- HTTP POST Service: Send notification snapshots to a specified website when alarm is triggered.
- Global Counter: To set a value between 0 and 65,535 or add value range from -99 to 99.
- Virtual Input: Enable or disable a specific virtual input among the 16 sets.
- **SD Card Service:** When the alarm is triggered, the screenshot is saved to the SD card.
- Samba Service: Set to send data of the selected encoder profile to the predefined samba server.

Note: To activate SmartEvent / Action setting, please also configure corresponding action in **Controls** setup page or **Notification** setup page.



Chapter 4-5-2 Motion Detection

The IP PTZ camera provides motion detection feature. Click on 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. Click OK button to update the settings.



Chapter 4-5-3 Tampering Detection

LILIN camera can send tamper alarms when the focus or view of the camera is changed, or the lens is obstructed by paint or stain. Click Enable to activate this function and configure the settings.



- **Tampering Detection:** The switch for tampering detection
- **Tampering Detection Time:** The time for tampering detection
- Tampering Detection Dwell: The output time for tampering detection

Chapter 4-5-4 Audio Detection

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



notification.



- Audio Detection: The switch for audio detection
- Audio Detection Trigger Level: The triggering level for audio volume
- Audio Detection Sensitivity: The sensitivity for audio detection

Note: Audio model only.

Chapter 4-6 Notification

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Chapter 4-6-1 FTP Service

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

Number	FTP Server Name	FTP/DNS Server	Por
1	FTPServerName	ftp.server.com	21
2	FTP1ServerName	ftp1.server.com	21
3	FTP2ServerName	ftp2.server.com	21
lumber	1		
TP Server Name	FTPServerName		
TP/DNS Server	ftp.server.com		
TP/DNS Server Port	21		
Account	admin		
Password			
Directory	/alarm_jpeg/		
Prefix			
Postfix			

- **FTP Channel:** There are three FTP servers that can be configured.
- **Number:** The number of FTP service.
- FTP Server Name: The name of the FTP server.
- FTP/DNS Server: The FTP server's address.
- **FTP/DNS Server Port:** The FTP server's port number.
- Account: The account name to log in to the FTP server.
- **Password:** The password of the account.



- **Directory:** The file path for storing the JPEG snapshots.
- **Prefix:** The prefix of the JPEG filename.
- **Postfix:** The postfix of the JPEG filename.

Chapter 4-6-2 SMTP (Email) Service

For alarm notification with JPEG snapshots, enter the required information to enable this Email notification service.

Setup > Notification > SMTP Service		
E-mail Receiver Setting		
E-mail Address1	receiver@mail.com	
E-mail Address2		
E-mail Address3		
E-mail Address4		
E-mail Address5		
E-mail Sender Setting		
E-mail Address	sender@mail.com	
SMTP Server	mail.com	
SMTP Authentication	 Auth Login Auth SSL Auth TLS 	
SMTP Port	25	
Authentication	OFF	
Auth Account	sender	
Auth Password		
OK Send Mail & Status		

- Receiver E-mail Address: Address of receiving mailbox.
- Sender E-mail Address: Address of sending mailbox.
- SMTP Server: Enter the address of mail server.
- SMTP Authentication: Select authentication type
- SMTP Port: The default port number is 25 (mail server port).
- Authentication: Enable or disable mail service
- Auth Account: User name of the mail server
- Auth Password: Password of sending mailbox.

Chapter 4-6-3 HTTP POST Service

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

Setup > Notification > HTTP POST Service			
Number	1		
HTTP POST Server Name	httpservername		
HTTP POST Server IP/DNS	httpserver.com		
HTTP POST Server Port	80		
Account	admin		
Password	••••••		
HTTP POST URL	/url		
	/json		
HTTP POST JSON			
OK Cancel			

- HTTP POST Server Name: The HTTP POST server
- HTTP POST Server IP/DNS: The IP/DNS address of the HTTP Post server
- HTTP POST Server Port: The port number of the HTTP Post server
- Account: The account



- **Password:** The password
- HTTP POST URL : The CGI command to send HTTP POST
- **HTTP POST JSON** : The JSON text editor

Chapter 4-6-4 SD Card Service

Ensure a 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.

Setup > Notification > S	D Card Service	
SD Recording	🔘 On 🖲 Off	
SD Recording OSD	◯ On	
SD Recording Continuous	◯ On	
Recording Format	Encoder1 🗸	
Pre Record Time	1 Sec.	
SD Card Status	NORMAL	
SD Card State	Unmount	
SD Card Total Bytes	0 MBytes	
SD Card Free Bytes	0 MBytes	
OK U	nmount Mount	Format

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

Chapter 4-6-5 SD Card Backup File

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

Setup > Notification > SD Card Backup F	ile
(Right Button->Play, Right Button->Stop)	
Delete Refresh	

Chapter 4-6-6 Samba Service

The streaming of the camera can be recorded as MPEG4 files to a Samba server. Continuous and pre-alarm recordings are available. To do so, provide required information for Samba service. Circular recording is available for overwriting the oldest recording files if the Samba server gets full.

Setup > Notification > SAME	BA Service
SAMBA Recording	◯ On ● Off
SAMBA Recording OSD	○ On
SAMBA Recording Continuous	○ On
Recording Format	Encoder1 V
Pre Record Time	1 Sec.
SAMBA Server IP	192.168.0.100
SAMBA Server Account	admin
SAMBA Server Password	•••••
SAMBA Server Directory	/Public
SAMBA Status	NORMAL
SAMBA State	SAMBA service is not connected
SAMBA Total Bytes	0 MBytes
SAMBA Free Bytes	0 MBytes
	DK Disconnected Connected

- Samba Recording: Enable Samba recording service.
- Samba Recording OSD: Timestamp OSD on the MPEG4 files



- Samba Recording Continuous: Enable/disable Samba continuous recording.
- Recording Format: The resolution of the AVI files
- Pre-record Time: Pre-alarm recording based on the alarm settings
- Samba Server IP: The IP address of the Samba server
- Samba Server Account: The account of the Samba server
- Samba Server Password: The password of the Samba server
- Samba Server Directory: The target path of the recordings on the Samba server
- Samba Status: The system status of the Samba server
- Samba State: The connection status of the Samba server
- Samba Total Bytes: The storage size of the Samba server
- Samba Free Bytes: The free storage size of the Samba server

Chapter 4-7 Maintenance

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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 export camera settings, click on Export Config File for other cameras. Click on Import Config File for importing camera settings.

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

and may be require	ed to ship back to you	r vendor for	repair.	
flashcv22s66.bin:A plugincv22s66.bin:	pplication Firmware			
	瀏覽 S	ubmit		
	Upload 0	%		
Export Config File	Export Network Setting System Setting Controls Setting Event Setting			
	Services Setting Video Setting Auto Focus Setting	(1) (2) (3) (3) (4)		
Import Config File		瀏覽	Upgrade	
Reboot System	Reboot System			

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.



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Chapter 4-8-1 Tour Setup

The IP PTZ Camera supports up to sixteen tour paths; each path can include up to 32 preset positions. Please refer to the instructions below to program a Tour table.

Note: Before setting this function, users must pre-define at least two preset points.

Setup > > To	our Setup							
Tour Path	1 ¥	Speed	120 ~	Dwell Time	10 🗸	Apply		
1	- ~	9	- ~	17	- ~	25	-	~
2	- ~	10	- ~	18	- ~	26	-	\sim
3	- ~	11	- ~	19	- ~	27	-	\sim
4	- ~	12	- ~	20	- ~	28	-	~
5	- ~	13	- ~	21	- ~	29	-	~
6	- ~	14	- ~	22	- ~	30	-	\sim
7	- ~	15	- ~	23	- ~	31	-	\sim
8	- ~	16	- ~	24	- ~	32	-	\sim

- **Tour Path:** Choose a tour path to set up.
- **Speed:** Set the running speed from the preset point position to the preset point position.
- **Dwell Time:** Set the dwell time at the preset point position.
- Sequential Preset Points Setting: Set up preset point positions for the selected tour path in any order you want from the drop-down list. Finally, click **Apply** to save the settings.

Chapter 4-8-2 Schedule

To set up PTZ scheduling, please select PTZ schedule. Select the desired schedule type (**No Schedule**, **Scan**, **SEQ**, **Tour**, **Patrol**, **Preset** and **Auto Tracking**). Click the schedule to highlight the time intervals you want the camera to perform the pre-determined schedule. Click **Apply** to save the settings and **Clean All** to clear the settings.



Chapter 4-8-3 RS485

You can change configurations related to RS-485 if connected to an RS-485 device. To set up, please go to **Setup-> PTZ-> RS-485**



Setup > > RS485	
ID	1 ~
Protocol	MLP2 ∨
Baud Rate	9600 ~
ОК	

- ID: Set the camera ID.
- **Protocol**: Set the communication protocol.
- **Baud Rate**: Set the communication baud rate.

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

SD Card Compatibility

Manufacturer	Capacity	SDHC/SDSC
Sandisk	16GB	SDHC



Sandisk	8GB	SDHC	
Transcend	8GB	SDHC	
Transcend	4GB	SDHC	
Sandisk	32GB	SDHC	

Install LILINHome

Search and download LILINHome in the iOS App Store or Android Play Store. Or you can scan the QR code below:



1. Live View

Click on the Menu button and the Live button for accessing live video of cameras. Entering the Live page is going to show the last accessed view page.

Quad button: Click on the Quad button is to show 4 cameras in a sequence of a view page. Swipe the cameras for next quad view. Click on a camera for full screen.

View button: Click on the View button that allows choosing a view page.



2. Playback

Click on the Playback button from the menu. Enter playback page. Playback is able to play SD card on an IP camera, NVR/DVR, and Navigator.

Click on the calendar button. The calendar control shows up. Select the date and time for playback. Click

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on the date control on the bottom for entering a date. Click on the timebar control for the time of playback.



For controlling the playback video for LILIN products, click fast rewind, pause, fast forward, audio, video download, or quad view.

Video download: Click on the video download button for downloading video from LILIN products. Click on the quad view button for switching 4 camera views.



3. Add Devices

LILINHome can support NVR/DVR for remote access.



3.1 Add Devices for LILINHome App

Click on Scan QR for adding a NVR. Point to the QR code of a NVR for scanning QR code license ID for adding the NVR Once a NVR gets added, the NVR goes to the View automatically. Enter Windows division is set automatically. If you are a home owner, you can just use LILINHome for easy access purpose.



