



Web Operation Manual

Version 1.0.3

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Important

The following functions are for reference only. Some series products may not support all the functions listed below.

Cybersecurity Recommendations

1. Change Passwords and Use Strong Passwords

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper- and lower-case letters.

2. Update Firmware

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

"Nice to have" recommendations to improve your network security

1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Change Default HTTP and TCP Ports:

• Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.

• These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

3. Enable HTTPS/SSL:

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

4. Enable IP Filter:

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

6. Forward Only Ports You Need:

- Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.
- You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

7. Disable Auto-Login on KVMS Pro:

Those using KVMS Pro to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

8. Use a Different Username and Password for KVMS Pro:

In the event that your social media, bank, email, etc. account is compromised, you would not want someone collecting those passwords and trying them out on your video surveillance system. Using a different username and password for your security system will make it more difficult for someone to guess their way into your system.

9. Limit Features of Guest Accounts:

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

10. UPnP:

- UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.
- If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

11. SNMP:

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

12. Multicast:

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

13. Check the Log:

If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

14. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

15. Connect IP Cameras to the PoE Ports on the Back of an NVR:

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

16. Isolate NVR and IP Camera Network

The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

Electrical safety

- All installation and operation should conform to your local electrical safety codes.
- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with voltage rated by DC 12 V or AC 24 V according to the Limited power Source requirement of IEC60950-1. Please note that the power supply requirement is subject to the device label.
- Make sure the power supply is correct before operating the device.
- A readily accessible disconnect device shall be incorporated in the building installation wiring
- Prevent the power cable from being trampled or pressed, especially the plug, power socket and the junction extruded from the device.

• We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

Environment

- Do not aim the device at strong light to focus, such as lamp light and sun light, otherwise it might cause over brightness or light marks, which are not the device malfunction, and affect the longevity of Charge Coupled Device (CCD) or Complementary Metal-Oxide Semiconductor (CMOS).
- Do not place the device in a damp or dusty environment, extremely hot or cold temperatures, or the locations with strong electromagnetic radiation or unstable lighting.
- Keep the camera away from water or other liquid to avoid damages to the internal components.
- Keep the indoor device away from rain or damp to avoid fire or lightning.
- Keep sound ventilation to avoid heat accumulation.
- Transport, use and store the device within the range of allowed humidity and temperature.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.
- Pack the device with standard factory packaging or the equivalent material when transporting the device.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall govern.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our official website. If there is inconsistency between paper User's Manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

1 Product Overview

The common networking mode for IPC is to connect IPC to PC via switch or router. The common network mode is shown in Figure 1-1

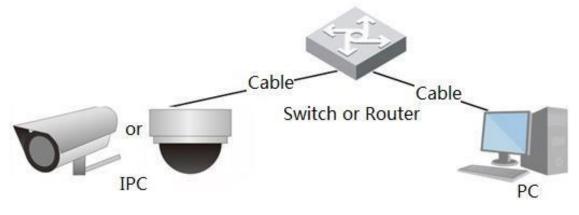


Figure1-1

Before you have access to network camera via the Internet, you need to acquire its IP address. Users can search IP address of network camera via IP Finder *Tool*.

2 Initial Config

In this chapter it is to introduce the device initial config operation, which includes device initialization, login device, log out WEB interface and password reset.

2.1 Device Initialization

It needs to implement device initialization when you use the device for the first time. Here it is to take WEB operation as an example to introduce device initialization. You can also initialize device via IP Finder *Tool*, NVR and platform etc.

Note

```
In order to guarantee device safety, please keep admin login password properly after device initialization, and modify the password regularly.
```

Step 1

Open IE browser, input camera IP address in the address bar and click Enter.

The system will display the interface of *Device Initialization* after it is connected successfully, which is shown in Figure 2-1

Note

The default IP address is 192.168.1.250.

Device Initialization	
Username	admin
Password	
	The minimum pass phrase length is 8 characters
	Weak Middle Strong
Confirm Password	
	Use a password that has 8 to 32 characters, it can be a combination of letter(s),
	number(s) and symbol(s) with at least two kinds of them.(please do not use special symbols like ' "; : &)
	symbols like ,. x)
Email Address	
	To reset password, please input properly or update in time.
	Save

Figure 2-1

Step 2

It is to set admin login password, please refer to Table 2-1 for more details.

	e
User name The	default user name is admin
	password ranges from 8 to 32 digitals. It can contain letters, numbers
contirm cont	special characters (excluding "", "1", ";", ":", "&"). The password shall tain at least two categories. Usually we recommend the strong sword.
Email pass	It an email address for reset password purpose. In case you forgot sword in the future, input the security code you got on the assigned all to reset the password of admin.

Table 2-1

Step 3

Click Save.

The system will display the interface of INSTAON, which is shown in Figure 2-2.

P2P			
✓ InstaOn			
Register device to InstaOn	and then suitable for user to apply fo	r cloud account. It can realize cloud servi	ce such as remote surveillance,
device record, alarm, cloud	storage, using device to manage cl	oud.	
	iPhone App	Android App	
		目編落目	
		and the second	
	ETAM 22/20	LEDBER HER K	
	Scan QR to Download	Scan QR to Download	
	1	Vext	

Figure 2-2

Step 4

Select INSTAON according to actual needs and realize INSTAON registration for device, click **next**. The system will display the interface of Online Upgrade, which is shown in Figure 2-3.

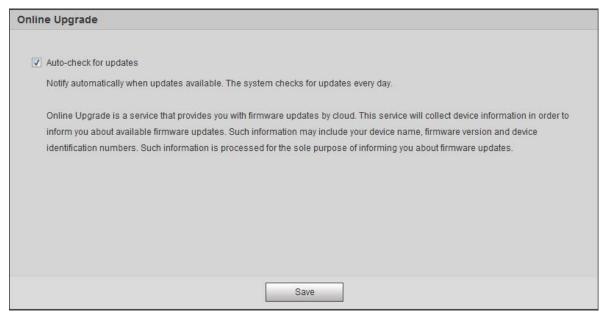


Figure 2-3

Step 5

It is to set upgrade method according to the actual requirements.

Select *Auto-check for upgrade* and the system will check once daily automatically when there is system upgrade prompt. **Note**

After login, you can make setting in 'Setup > System > Upgrade > Online Upgrade'.

Step 6

Click Save and device initialization is completed.

2.2 Login and Logout

Here it is to introduce device login and WEB interface logout via browser, it is to take IE Explorer 8 as an example to make introduction.

2.2.1 Log in WEB Interface

Users can make operations such as live, playback and config upon the device after logging in device WEB interface via browser.

Note

- It can log in WEB interface after device initialization is completed.
- It will prompt to install plug-in when logging in the system for the first time, please download and install plug-in according to prompt.

Step 1

Open IE browser, input camera IP address in the address bar and click Enter button.

The system will display the Login interface after it is successfully connected, which is shown in Figure 2-4.

te World's Preferred ectronic Security Eq		
Username:	admin	
Password:	Forgot passwore	d?
	Login	Cancel

Figure 2-4

Step 2

Input the password of admin user.

Step 3

Click Login.

It will display the Live interface after it logged in successfully, which is shown in Figure 2-5.

Note

Different devices have different functions with different interface display; please refer to the actual interface for more details.



Figure 2-5

2.2.2 Logout

Click **Logout** and return to WEB login interface. After logging in the device WEB, the system will hibernate automatically if it fails to operate the device for a period of time. It can recover to normal working status quickly after entering password.

2.3 Reset Password

Users can reset password via reserved email when you forget the password of admin user.

Step 1

Open IE browser, input camera IP address in the address bar and click Enter button.

The system will display the Login interface after it is successfully connected, which is shown in Figure 2-6.

	World's Preferred tronic Security Eq		
	Username:	admin	_
	Password:	Forgot passwor	d?
5		Login	Cancel

Figure 2-6

Step 2

Click Forgot password?

The system will display the interface of Reset Password, which is shown in Figure 2-7.

Reset the pas	ssword(1/2)	
SN: CP3E01099	9PAL00102	
	Image: Contract of the second base of t	
	The security code will be delivered to h***@adityagroup.com	
Security code:		
	Cancel Next	

Figure 2-7

Step 3

Reset login password.

Scan the QR code according to the interface prompt and acquire security code, then input the security code which is received via your reserved email.

Caution

- Please use the security code to reset the password within 24 hours after you received the security code via your reserved email. Otherwise the security code will be invalid.
- If you fail to use security code for twice continuously, then the system will prompt that it fails to
 acquire security code for the third time. It needs hardware to restore device default setting and
 acquire security code again or wait for 24 hours and acquire it again if it needs to use the device
 normally.

Step 4

Click next.

The system will display the interface where you can set the new password, which is shown in Figure 2-8.

Isername	admin	
assword		
	Weak Middle Strong	
	Use a password that has 8 to 32 characters, it	
	can be a combination of letter(s), number(s) and	
	symbol(s) with at least two kinds of them.	
	(please do not use special symbols like ** ; : &)	
confirm Password		

Figure 2-8

Step 5

Reset Password and Confirm Password.

The password ranges from 8 to 32 digitals. It can contain letters, numbers and special characters (excluding "", "", ";", ":", "&"). The password shall contain at least two categories. Usually we recommend the strong password.

Step 6

Click Save and complete password reset.

The system will display the Login interface.

3 Live

After you logged in, you can see the live monitor window. See Figure 3-1.

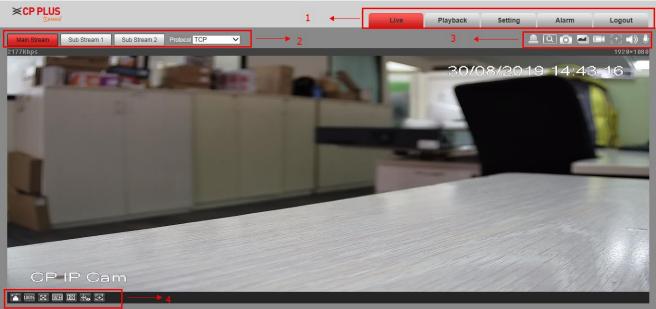


Figure 3-1

There are four sections:

- Section 1: Encode setup bar
- Section 2: System menu
- Section 3: Window function option bar
- Section 4: Window adjust bar

3.1 Encode Setup

Note: Some series don't support sub stream 2. The encode setup interface is shown as in Figure 3-2

	_			
Main Stream	Sub Stream 1	Sub Stream 2	Protocol TCP	~
2169Kbps				



Please refer to the following sheet for detailed information.

Parameter	Function
Main stream	Click it to enable main stream video monitoring and click again to disable it. Generally, for storage and monitor.
Sub Stream 1	Click it to enable Sub Stream 1 video monitoring and click again to disable it. When network bandwidth is insufficient, it substitutes main stream for monitoring.
Sub Stream 2	Click it to enable Sub Stream 2 video monitoring and click again to disable it. When network bandwidth is insufficient, it substitutes main stream for monitoring.
Protocol	You can select stream media protocol from the dropdown list. There are three options: TCP/UDP/Multicast

3.2 System Menu

System menu is shown as in Figure 3-3

Please refer to chapter 2 Live, chapter 3 PTZ, chapter 4 Playback, chapter 5 Setup, chapter 6 Alarm, chapter 7 Log out for detailed information.

Live	Playback	Setting	Alarm	Logout

Figure 3-3

3.3 Video Window Function Option

The interface is shown as below. See Figure 3-1.

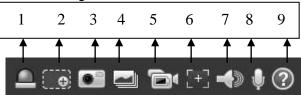


Figure 3-1

Please refer to the following sheet for detailed information.

SN	Parameter	Function
1	Relay-out	 It shows if there is any alarm output, status description is as follows: Red: means there is alarm output. Grey: means alarm is over. Click on the button to force alarm to be on or off.

2	Digital Zoom	 When the video is in the original status, click it you can select any zone to zoom in. In the non-original status, you can drag the zoom-in zone in specified range. Right click mouse to restore previous status. Click it; you can use the middle button of the mouse to zoom in/out the video size.
3	Snapshot	Click on the button to snapshot, save picture to path in Ch. 5.1.2.5.
4	Triple snapshot	Click it to take snapshot upon the video at the frequency of one picture per second. All images are saved to path in Ch 5.1.2.5.
5	Record	Click it to record the video. All videos are saved to path in Chapter 5.1.2.5.
6	Easy focus	Click it, you can see there are two parameters on the preview video : AF Peak and AF Max.
		AF Peak: It is to display the video definition during the focus process.
		AF Max: It is the most suitable value for the video definition. The close the AF Peak and AF Max is, the better the focus effect is.
7	Audio	Turn on or off audio when you are monitoring.
8	Talk	Click it to start or end bidirectional talk.
9	Help	Click it to open help file.

3.4 Video Window Setup

The interface is shown as in Figure 3-2.

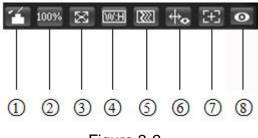


Figure 3-2

3.4.1 Image Adjustment

See Figure 3-3 for image adjustment.

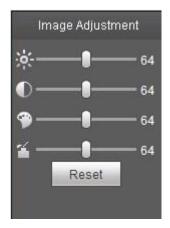


Figure 3-3

Click this button to display/hide image control interface. Click it to open picture setup interface. This interface is on the top right pane.

Param		Function			
Falain	elei	Function			
Video setup	×	It is to adjust monitor video brightness.	 Note: All the operations here apply to WEB end only. 		
	0	It is to adjust monitor video contrastness.	 Please go to Setup>Camera- >Conditions to adjust corresponding items. 		
	(P	It is to adjust monitor video hue.			
),e	It is to adjust monitor video saturation.			
	Reset	Restore brightness, contrastness saturation and hue to system default setup.			

Please refer to the following sheet for detailed information.

3.4.2 Original Size

Click this button to go to original size. It is to display the actual size of the video stream. It depends on the resolution of the bit stream.

3.4.3 Full Screen

Click it to go to full-screen mode. Double click the mouse or click the Esc button to exit the full screen.

3.4.4 Width and Height Ratio

Click it to restore original ratio or suitable window.

3.4.5 Fluency Adjustment

There are three levels of fluency for you to select (Realtime, Normal, and Fluency). The default is normal.

3.4.6 Rules Info

Click the button, preview image will display intelligent rules after enabling; it is "enable" by default.

3.4.7 Zoom and Focus

Click this button and the focus zooming interface appears on the right of preview interface, as shown in Figure 2-7, click left mouse button to adjust focus zooming configuration.

Note:

· The product series which support motorized zoom, synchronous focus and back focus have this button.

 \cdot Auto-focus after zoom and focus adjustment.

3.4.8 Fisheye/Trigger Track

Click the button, installation mode and display mode interface will show up on the right of the preview interface, see Figure 3-7 and Figure 3-8, single click to switch different installation modes and display modes for fisheye, or switch different display modes for trigger track, it is enabled by default.

Note:

It is only supported by some models.



Figure 3-7

Parameter	Function
Zoom	Adjust the focal length of the lens by clicking or long pressing "+""-"buttons. The speed is used to adjust the length of one step during single click.
Focus	Adjust the sharpness of the lens by clicking or long pressing"+"、"-" buttons. Step length is used to adjust the length of one step with one click.
Autofocus	Click to adjust the image definition automatically. Note: Other lens operations are not allowed during the process of auto-focus.
Reset All	Reset the lens to zero position to eliminate the accumulative error of lens. Note: Please reset when the image adjustment is not clear or operating zoom focus many times.
Refresh	Synchronize the location of drag slider of lens and zoom focus after hardware zoom focusing.
Regional Focus	Click it and use the mouse to select a zone, then the device can auto focus within the specific region.

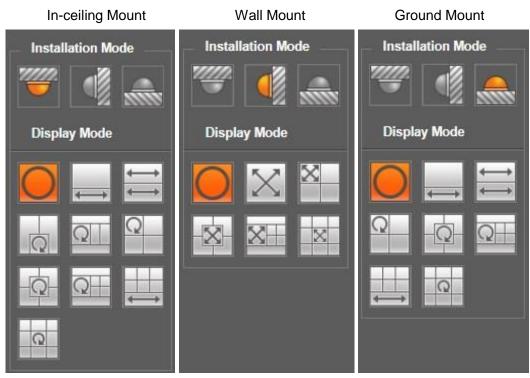


Figure 3-8

parameter	Note			
Installation Mode	Three modes whic	Three modes which are ceiling mount, wall mount and ground mount.		
	It represents the display mode of the current image (default supports original image mode), the display modes may be different according to different installation modes. It is shown as follows:			
	• Ceiling: 1P+1、2P、1+2、1+3、1+4、1P+6、1+8。			
Display Mode	• Wall: 1P、1P+3、1P+4、1P+8。			
	• Ground: 1P+1、2P、1+3、1+4、1P+6、1+8。			
	Note:			
	The default display	ys original image mode when switching installation mode.		
In- ceiling/Wall/Ground	It menas the original image without de-warpping			
In-ceiling/Ground image and the subbox in rectangular panorama support zoom and m		360°expanded rectangular panorama + independent sub image, the sub image and the subbox in the expanded rectangular panorama support zoom and movement, for the expanded rectangular panorama also supports left and right starting point movement.		

	₽P	Two related 180° expanded rectangular pictures, two subwindows form 360° panorama anytime, which is also called "dual panorama". Two expanded rectangular pictures both support left and right movement starting point, which are also linked by eachother.
		Original image + 2 independent sub images, both the sub image and the subbox in the original image support zoom and movement. The original image also supports changing starting point by rotation (no such display mode for ground installation).
	Q 1+3	Original image + 2 independent sub images, both the sub image and the subbox in the original image support zoom and movement. The original image also supports changing starting point by rotation
		Original image + 4 independent sub images, both the sub image and the subbox in the original image support zoom and movement. The original image also supports changing starting point by rotation
	1P+6	360°expanded rectangular panorama +6 independent sub image, both the sub image and the subbox in the expanded rectangular panorama support zoom and movement, for the expanded rectangular panorama also supports left and right starting point movement.
	1+8	Original image + 8 independent sub images, both the sub image and the subbox in the original image support zoom and movement. The original image also supports changing starting point by rotation
	1P	From left to right 180° expanded rectangular panorama, which supports up and down movement and changes vertical angle of view.
Wall	1P+3	180° expanded rectangular panorama+3 independent sub images, both the sub images and the sub box in the expanded rectangular panorama support zoom and movement, expanded rectangular panorama supports up and down movement and changes vertical angle of view.
	1P+4	180° expanded rectangular panorama+4 independent sub images, both the sub images and the sub box in the expanded rectangular panorama support zoom and movement, expanded rectangular panorama supports up and down movement and changes vertical angle of view.

10	\simeq	100	
1	P+	8	

180° expanded rectangular panorama+8 independent sub images, both the sub images and the sub box in the expanded rectangular panorama support zoom and movement, expanded rectangular panorama supports up and down movement and changes vertical angle of view.

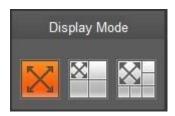


Figure 3-9

Enable the trigger track on the interface of tripwire or intrusion, and draw the rule of tripwire or intrusion, the scene of trigger track window will change according to the moving object when it triggers rule alarm until the moving object disappears from the view range of the camera. Please refer to "5.3.4 IVS" for more details about the rules drawing and parameter config of tripwire and intrusion.



Trigger track includes three modes which are 1P, 1P+3 and 1P+5.

•1P: Original picture

•1P+3: Original picture and three trigger track windows, it can adjust the location and size

of three trigger track windows on the original picture.

5	
S	
994 mile	1

1P+5: Original picture and five trigger track windows, it can adjust the location and size of

five trigger track windows on the original picture.

4 Playback

Web client playback supports video playback and picture playback. Note: Before playback, user shall set storage management.

4.1 Playback

The playback interface is shown as in Figure 4-1.

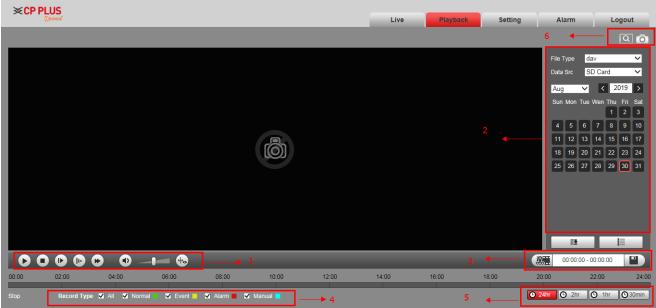


Figure 4-1

There are four sections:

- Section 1: Function of play
- Section 2: Playback file
- Section 3: Play time cut
- Section 4: Record type
- Section 5: Progress bar
- Section 6: Assistant function

4.1.1 Function of Play

The function of play is shown as in Figure 4-2 and Figure 4-3.

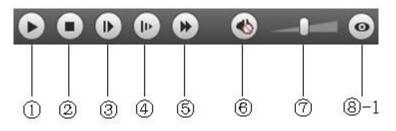


Figure 4-2

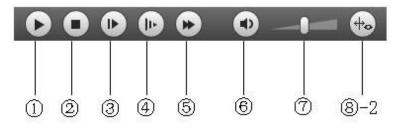


Figure 4-3

Parameter	Function
T di dificici	
① Play	When you see this button, it means pause or not played record. Click on this button, switch to normal play status.
② Stop	Click this button to stop playing.
by ③ Play frame	Click on this button to go to next frame. Note: You shall pause record when you use this function.
④ Slow	Click on this button to play slowly.
5 Quick	Click on this button to play quickly.
6 Silent	When this button displays, it means audio is silent. Click on this button to switch back to normal.
⑦ Volume	Click on left mouse to adjust volume.
⑧ -1 Fisheye	Click this button and fisheye device can adjust display mode according to different installation mode during the process of playback.
⑧ -2 Rule Info	Click the button and it will playback and display intelligent rules and object detection box if the video is equipped with intelligent rule info after the function is enabled, it is off by default.

4.1.2 Playback File

In calendar, blue date represents data currently has video record or snapshot. See Figure 4-4.



Figure 4-4

Parameter	Function	
File Type	Select "dav", as video playback.Select "jpg" as picture playback.	
Data Source	Default is SD card.	

Step 1. Click on data in blue, time axis displays record file progress bar in color. While, green represents normal record, yellow represents motion detect record, red represents alarm record, and blue represents manual record.

Step 2. Click on certain time on progress bar, playback starts from this time. See Figure 4-5.





Step 3. Click on file list 📃 , select date file will be displayed in list.

Step 4. Double click on file in list, playback this file and display file size, start time and end time. See Figure 4-6.

_		23 : 59 : 59 Narm, Manual	
100000	10 March 10 Constants Co	⊚ dav ⊚ mp	100000
	Start Time	File Type	
1	15:49:39	••	*
2	15:50:07	• •	
3	15:54:38	• •	
4	16:25:13	• •	
5	16:31:35	••	
	16:32:06	• •	
7	16:45:58	• •	
8	16:54:00	• •	
9	17:00:54	• •	
Î	◀ ◀ 1/1)	► ►I <mark>1</mark>	
Begi	n Time:		
End	Time:		
File	Size:		
		÷	



Parameter	Function
Search	It means records within searched start time and end time on the date.
Record Format	There are two formats: dav, mp4.

Download	 Click the download button and download file to path in Ch. 5.1.2.5. System does not support download and playback at the same time.
F Back	Click on back button to go to calendar interface.

4.1.3 Playback Cut

Note:

Playback cut function will automatically pause playing record as playback cut and playback cannot be at the same time.

Step 1. Click on start time to cut on time axis. This time must be within progress bar range.

Step 2. Move mouse to cut icon. You will be ask to select start time. Click on cur icon as finish cutting.

Step 3. Click on playback cut end time on time axis. This time must be within progress bar range.

Step 4. Move mouse to cut icon you will be asked to select end time. Click on cut icon as finish cutting.

Step 5. Click on Save button to save file cut to path in Ch 4.1.2.5. See Figure 4-7.



Figure 4-7

4.1.4 Record Type

After checking record file type, only selected file will be displayed in progress bar and file list. Users can also select the record type to be displayed via the dropdown box which is above the file list. See Figure 4-8.

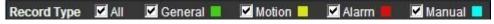


Figure 4-8

4.1.5 Progress Bar

O24hr	O 2hr	() 1hr	O 30min
O'L'III	U LIN	0	Coolina

Figure 4-9

Parameter	Function
24hr 24 hours	Click on it, means video in past 24 hours.
C 2hr 2 hours	Click on it, means video in past 2 hours.
C1hr 1 hour	Click on it, means video in past 1 hour.
O 30min 30 min	Click on it, means video in past 30 min.

4.1.6 Assistant Function

Video playback assistant function is shown in Figure 4-10.



Figure 4-10

Parameter	Function	
Digital Zoom	 Click on it, video in playback status if is in original size, user can zoom in any area, If it is not in its original size, right click mouse to restore its original size. Click on this button, you can scroll to zoom in. 	
Snapshot	Click on this button, you can snapshot video under playback status. Snapshot will be saved to path in Ch. 4.1.2.5.	

4.2 Picture Playback

Web client picture playback interface has the following three functions:

Parameter	Function
1	Play function bar
2	Playback file bar
3	Snapshot type bar

See Figure 4-11.

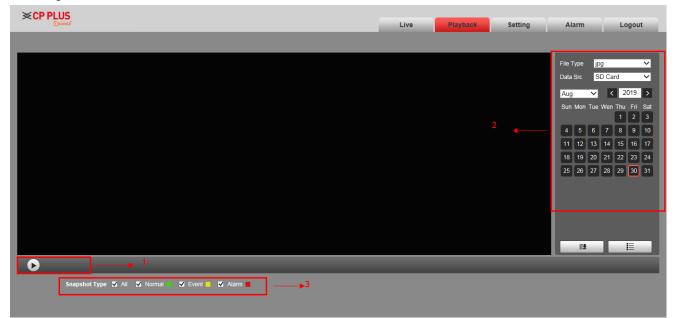
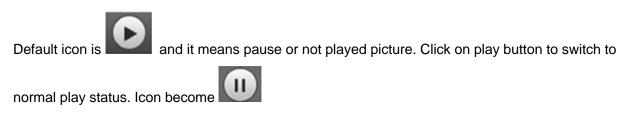


Figure 4-11

4.2.1 Play



Figure 4-12



Click on it to pause. 4.2.2 Playback File

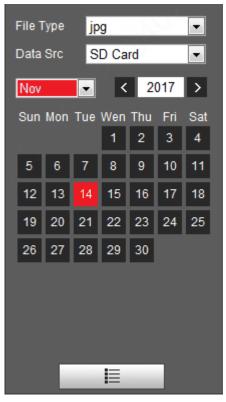


Figure 4-13

Step 1. Click on file list select snapshot file of the date.

Step 2. Double click on file in list, to play this snapshot.

Parameter	Function
Search	It means all snapshot files within the start time and end time of selected date.
Download	Click the download button to open snapshot file or directly download to local according to the browser types.
Gack	Click on back button to return to calendar interface and re-select time.



Figure 4-14

4.2.3 Snapshot Type

After checking snapshot file type, in file list only display file of selected type. Users can also select the snapshot type to be displayed via the dropdown box above the file list. See Figure 4-15.



Figure 4-15

5 Setup

Web client setup support camera, network, time, storage, system and system info view.

5.1 Camera

The camera setting includes conditions, profile management, zoom and focus.

5.1.1 Conditions

Note:

The camera parameter may be different according to different models, please refer to the actual product for more details. 5.1.1.1 **Picture Note:**

The device which supports true WDR fails to support long exposure when true WDR is enabled.

Step 1

Select "Setup > Camera > Conditions > Picture" and the system will display the "Picture" image which is shown in Figure 5-1.

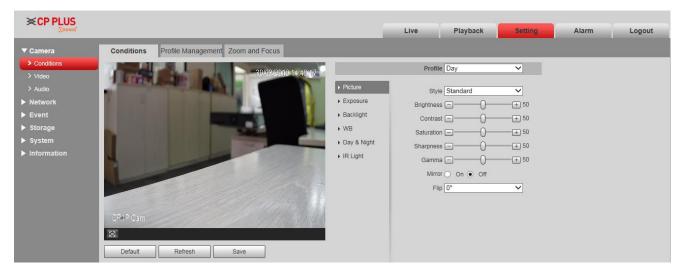


Figure 5-1

Step 2

Set picture parameters; please refer to the following sheet for more details about parameter setting.

Parameter	Note
Style	
	It is to set the picture style, which includes standard, soft and vivid.

Brightness	It is to adjust the image overall brightness via linear adjustment mode. The larger the number is, the brighter the picture is, and on the contrary it is opposite. The picture get blurry easily when the value is set too big.
Contrast	It is to adjust the picture contrast. The bigger the value is, the bigger the bright contrast becomes, and on the contrary it is smaller. The dark area becomes darker and the bright area becomes overexposed easily when the value is set too big. The picture becomes blurry when the value is set too small.
Saturation	It is to adjust the color darkness and lightness. The color becomes darker when the value is bigger; on the contrary it becomes lighter. The value causes no influence to the overall brightness of the image.
Sharpness	It is to adjust the sharpness level of the picture edge. The bigger the sharpness value is, the more obvious the image edge becomes, the image is likely to generate noise more easily when the value is set too big.
Gamma	It is to change image brightness and improve the dynamic display range of the image via nonlinear adjustment mode. The bigger the value is, the brighter the picture becomes, and on the contrary it is opposite.
Mirror	After mirror is enabled, the monitoring image will be displayed invertedly.
Flip	 It is to change the display direction of the monitoring image. It includes following options: Normal: The monitoring picture is normally displayed. Flip mode 1: The monitoring picture is displayed with clockwise rotation 90° • Flip mode 2: The monitoring picture is displayed with anticlockwise rotation 90° 180°: The monitoring picture is displayed upside down. Note: Please set the video resolution as 1080P or lower when applying flip mode for some devices.
EIS	It can realize electronic anti-flicker function via comparison algorithm of image difference, which can effectively solve the problem of image jittering during application and it can make the image clearer.

Click "Save" and complete the image parameter config of the camera.

5.1.1.2 Exposure

Step 1

Select "Setup > Camera > Conditions > Exposure". The system will display the "Exposure" interface which is shown in Figure 5-2.

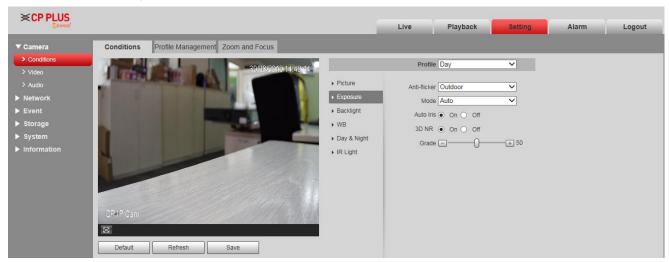


Figure 5-2

Step 2

It is to set the exposure parameter, please refer to the following sheet for more details.

Parameter	Note					
	• Outdoor: You can switch to exposure mode when it is in outdoor mode, it can realize the result in the corresponding exposure mode.					
Anti-flicker	 50Hz: When the current is 50Hz, system can auto adjust the exposure according to the environment brightness in case there is any stripe. 					
	 60Hz: When the current is 60Hz, system can auto adjust the exposure according to the environment brightness in case there is any stripe. 					

	It is the camera exposure mode. Note:
	 When "Anti-flicker" is "Outdor", the "exposure mode" can be set as "gain priority" or "shutter priority" mode.
	• Different devices have different exposure modes; please refer to the actual interface.
	It includes the following options:
	• Auto: It can auto adjust the image brightness according to the environment.
	• Gain priority: The device can auto adjust according to the gain range which is set by priority during normal exposure range according to the different scene brightness. The device will auto adjust shutter value if the image brightness fails to reach the effect and the gain value has reached to upper limit or lower limit, which is to make the image reach the best brightness.
Mode	• Shutter priority: The device can auto adjust according to the shutter range which is set by priority during normal exposure range according to the different scene brightness. The device will auto adjust shutter value if the image brightness fails to reach the effect and the shutter value has reached to upper limit or lower limit, which is to make the image reach the best brightness.
	 Iris priority: Iris value is fixed, the device can auto adjust the shutter value if the image brightness fails to reach effect and the shutter value has reached the upper limit or lower limit, the device can auto adjust the gain value to make the image reach the best brightness.
	 Manual: It is to manually set gain value and shutter value, adjust the the displayed brightness of the image.
	It can set the parameter when the camera installs auto iris.
Auto Iris	• The lens iris can auto adjust the size according to the environment after auto iris is enabled, then the image brightness will change accordingly.
	• The iris value reaches the max when disabling auto iris, the lens iris will not change according to the environment brightness.
3D NR	It is to process the image with multiframe (at least two frames), it can realize noise reduction of the image by using the interframe information between the previous and latter frame.
	It can set the parameter when "3D NR" is enabled.
Grade	The bigger the grade is, the better NR effect it can realize.

Click "Save" to complete the parameter config of camera exposure.

5.1.1.3 Backlight

Backlight mode can be divided into BLC, WDR and HLS.

BLC: it can avoid cucoloris phenomenon of the darker area in the backlight environment.

WDR: It can suppress the overbright area and compensate darker area by enabling WDR, which can make the overall image clear.

HLC: It is to weaken the high light, which can be applied in the areas such as toll gate, entrance and exit of the parking lot and etc. As for extreme light, it can snapshot the human face in the dark environment and it can realize better effect for the details of the plate number.

Step 1

Select "Setup > Camera > Condition > Backlight", the system will display the interface of "Backlight" which is shown in Figure 5-3.

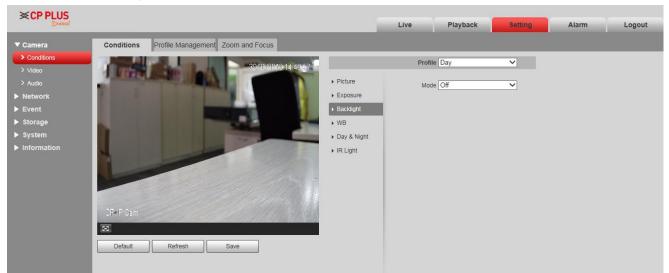


Figure 5-3

Step 2

Set the backlight parameter.

- When the "Mode" is set as "Scene Self-adaptation", the system will auto adjust the image brightness according to the environmental brightness, which is to make the object display clearly in the scene.
- When the "Mode" is set as "BLC", it can select default mode or customized mode.
 - When selecting "Default" mode, the system can realize auto exposure according to the environment, which is to make the image in the darkest area clear to be seen.

- When selecting "Customized" mode, the system can realize exposure upon the selected area after it set customized area, which is to make the image of the selected area reach appropriate brightness.
- When the "Mode" is set as "WDR", it will lower the brightness of the area with high brightness and enhance the brightness of the area with low brightness, which is to make the objects in both high brightness and low brightness area display clearly.

Note:

There may be video loss of a few seconds when the camera is switched from non WDR mode to WDR mode.

• When the "Mode" is set as "HLC", the system will constrain the brightness of the area with high brightness and decrease the size of the halo area, which is to lower the brightness of the whole image.

Step 3

Click "Save" to complete the config of the backlight mode.

5.1.1.4 WB

WB is used to restore the white object in the scene by the camera, after WB mode is set, it can make the white object look white in different environments.

Step 1

Select "Setup > Camera > Conditions > WB", the system will display the interface of "WB", which is shown in Figure 5-4.

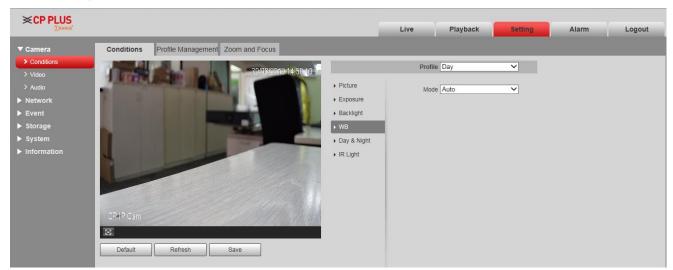


Figure 5-4

Set WB mode.

- When the "Mode" is set as "Auto", the system can auto compensate white balance upon different color temperatures, which is to make the image color normal.
- When the "Mode" is set as "Natural", the system can auto compensate white balance to the scene without artificial light, which is to make the image color normal.
- When the "Mode" is set as "Street Lamp", the system can auto compensate white balance to the outdoor scene at night, which is to make the image color normal.
- When the "Mode" is set as "Outdoor", the system can auto compensate white balance to the most outdoor scenes with natural light and artificial light, which is to make the image color normal.
- When the "Mode" is set as "Manual", it can manually set the value of red gain and blue gain; the system can compensate the different color temperatures in the environment according to the settings.
- When the "Mode" is set as "Regional Custom", it is to set customized area, the system can compensate white balance to different color temperature of the images in the area, which is to make the image color normal.

Step 3

Click "Save" to complete the config of WB mode.

5.1.1.5 Day & Night

It is to set the switch between color mode and black & white mode.

Step 1

Select "Setup > Camera > Conditions > Day & Night" and the system will display the interface of "Day & Night", which is shown in Figure 5-5.

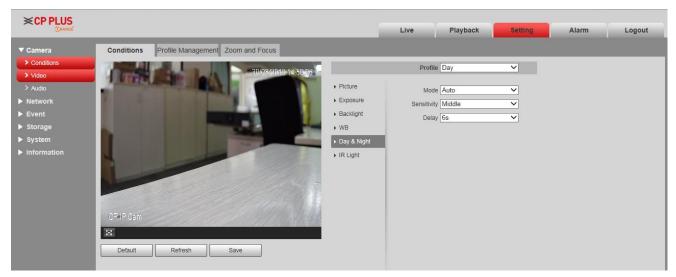


Figure 5-5

Set day & night parameter; please refer to the following sheet for more details.

Parameter	Note
Mode	 It is to set the camera image displayed as color or black & white mode. Note: The setting of "Day/Night Mode" is not affected by the setting of "Profile Management". It includes the following options: Color: The camera image is displayed as color image. Auto: The camera can auto select color image or black & white image to be displayed according to the environmental brightness. Black & white: The camera image is displayed as black & white image.
Sensitivity	The parameter can be set when the "Day/Night Mode" is "Auto". It is to set the sensitivity of the switch between image color display and black & white display.
Delay	The parameter can be set when the "Day/Night Mode" is "Auto". It is to set the switch delay between image color display and white & black display. The smaller the delay is, the faster of the switch becomes between color display and black & white display.

Step 3

Click "Save" to complete the config of day/night mode.

5.1.1.6 Defog

The image quality will become weak when the device is in the environment with fog or haze, you can enable defog function to adjust the image definition. Step 1

Select "Setup > Camera > Conditions > Defog" and the system will display the interface of "Defog" which is shown in Figure 5-6.

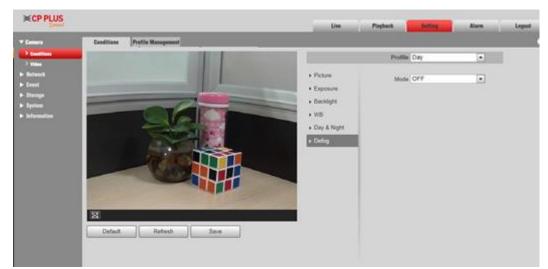


Figure 5-6

It is to set defog mode according to the actual scene.

- When the "Mode" is set as "Manual", it is to manually set intensity and air light mode, the system will adjust the image definition according to the intensity and air light mode which have been set previously. As for air light mode, you can set manual or auto.
- When the "Mode" is set as "Auto", the system will auto adjust the image definition according to the actual scene.
- When the "Mode" is set as "Off", then the defog function is disabled.

Step 3

Click "Save" to complete the config of defog mode.

5.1.1.7 IR Light

You can directly set the mode of IR light if the device is equipped with IR light.

Step 1

Select "Setup > Camera > Conditions > IR Light" and the system will display the interface of "IR Light" which is shown in Figure 5-7.

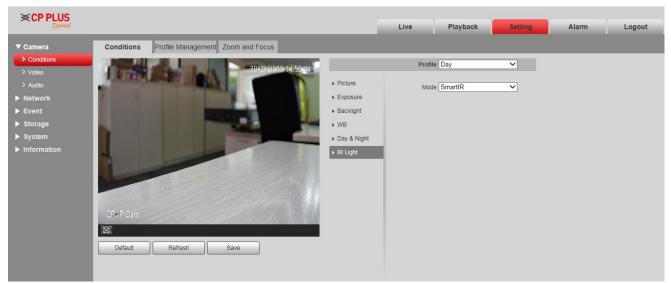


Figure 5-7

It is to set IR light mode according to the actual scene.

- When the "Mode" is set as "Manual", it can manually set the brightness of IR light; the system will realize light compensation to the image according to the IR light intensity.
- When the "Mode" is set as "Smart IR", the system can adjust the light brightness according to the actual scene.
- When the "Mode" is set as "Zoomprio", the system can auto adjust the IR light according to the brightness change of the actual scene.
 - The system will enable near light by priority when the actual scene becomes dark, the system will enable the far light when the near light fails to meet the requirement of scene brightness even if it is adjusted to the brightest.
 - The system will adjust far light brightness by priority to off and then adjust the brightness of near light when the actual scene becomes bright. The system will always disable far light when the focal length of the lens is adjusted to a certain wide angle, which is to avoid near overexposure. Meanwhile, it can manually set light compensation to slightly adjust the brightness of IR light.
- When the "mode" is set as "Off", it will not enable the IR light.

Step 3

Click "Save" and complete the config of IR light.

5.1.1.8 Profile Management

Step 1

Select "Setup > Camera > Conditions > Profile Management" and the system will display the interface of "Profile Management".

Step 2

Set profile management.

 When the "Profile Management" is set as "Normal", the system will monitor according to the normal config.

		Live Pla	yback Setting	Alarm Logout
▼ Camera	Conditions Profile Management			?
> Conditions	Profile Management Normal Full Time Schedule			
> Video				
Network	Default Refresh Save			
▶ Event				
Storage				
▶ System				
Information				

Figure 5-8

• When the "Profile Management" is set as "Full Time", you can select "Always Enable" in "Day" or "Night', the system will monitor according to the config of "always enable".

		Live	Playback	Setting	Alarm	Logout
▼ Camera	Conditions Profile Management					?
Conditions	Profile Management 🔘 Normal 💿 Full Time 🔘 Schedule					
	Always Enable Day					
Network	Tana a second a secon					
▶ Event	Default Refresh Save					
▶ Storage						
▶ System						
Information						

Figure 5-9

 When the "Profile Management" is set as "Schedule", you can set some period as day and another period as night, for example, if it sets 0:00~12:00 as day, 12:00~24:00 as night, then the system will monitor by adopting corresponding config in different periods.

×CP PLUS											
⊙ RANGE ²							Live	Playback	Setting	Alarm	Logout
▼ Camera	Conditions Pro	ofile Managem	ient								?
Conditions	Profile Management	O Normal O	Full Time	Schedule							
> Video			i un rinc 🕓	oundate							
Network	Period setting										
Event	Penda setting	0.00	4:00	0.00	10:00	40.00	20-20	24.00			
Storage		0:00	4:00	8:00	12:00	16:00	20:00	24:00			
System		📕 Day 🔳	Night								
► Information		Default	Refre	esh	Save						

Figure 5-10

Click "Save" to complete the settings of profile management. Note:

Click "Default" to restore the device to default config; click "Refresh" to check the latest config file of the device.

5.1.1.9 Zoom and Focus Note:

Only motorized vari-focal devices support focus and zoom function.

Step 1

Select "Setup > Camera > Conditions > Zoom and Focus" and the system will display the interface of "Zoom and Focus" which is shown in Figure 5-11.

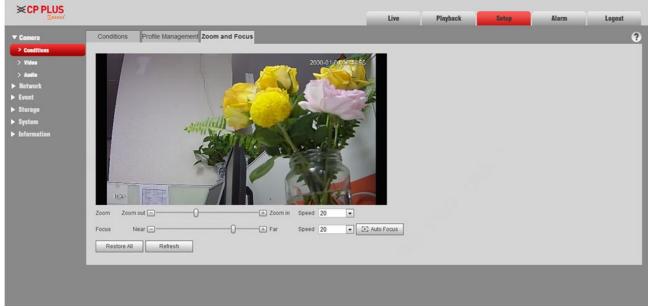


Figure 5-11

Step 2

Adjust the focal length of the lens.

After it is zoomed, set "Speed" and press "+", "-"or drag the sliding block directly to adjust.

Step 3

Adjust the lens definition.

After it is focused, set "Speed" and press "+", "-"or drag the sliding block directly to adjust. Note:

- Speed is used to set the length by pressing "+" and "-".
- After adjusting the focal length of the lens or click "Auto Focus", the device will auto adjust the image definition, it is not allowed to implement other lens operation during auto focus.

- After several times of zoom and focus, the image fails to be adjusted clear, click "Restore All' to reset the lens to zero and remove the accumulative error of the lens.
- Click "Refresh" and the device will automatically synchronize the hardware to the location of sliding block of lens zoom and focus.

5.1.2 Video

5.1.2.1 Video

Step 1

Select "Setup > Camera > Video > Video" and the system will display the interface of "Video" which is shown in Figure 5-12 or Figure 5-13.

		Live Playback Setting Alarm Logout
▼ Camera	Video Snapshot Overlay ROI	Path
Conditions	Main Stream	Sub Stream
> Video		✓ Enable Sub Stream1 ✓
Network	Encode Mode H.264H V	Encode Mode H.264H V
Event	Smart Codec Off V	Resolution 352*288(CIF)
Storage	Resolution 1920*1080(1080P) V	Frame Rate(FPS) 15
System	Frame Rate(FPS)	Bit Rate Type CBR 🗸
Information	Bit Rate Type CBR V	Reference Bit Rate 136-512Kb/S
	Reference Bit Rate 1024-6144Kb/S	Bit Rate 512 V (Kb/S)
	Bit Rate 2048 V (Kb/S)	I Frame Interval 30 (15~150)
	I Frame Interval 50 (15~150)	
	✓ Watermark Settings	
	Watermark Character CPPlusIPCam	
	Default Refresh Save	

Figure 5-12 (Non fisheye)

	Video	Szapshot	Overlay	ROI	Path				3
	Installation Mode	Ceiling		•					
	Record Mode	2P	6	•					
	Main Stream					Sub Stream			
						2 Enable	Sub Stream 1	-	
	Code-Stream Ty	pe General		-		Code-Stream Type	General	-	
	Encode Mode	H.264	6	-		Encode Mode	H.264		
	Resolution	2432x243	2 (2432*2432)			Resolution	640x640 (640*640)	-	
	Frame rate(FPS)	15		-		Frame rate(FPS)	15	-	
	Bit Rate Type	CBR		-		Bit Rate Type	CBR		
	Reference Bit Ra	te 2048-1100				Reference Bit Rate	256-1792KMS		
	Bit Rate	8192	5			Bit Rate	1024	-	
í	i Frame Interval	30		(15~150)		I Frame Interval	30	(15-	~150)
	SVC	1(off)	6	-		SVC	1(off)	-	
	[Watermark Settin	ngs.							
	Watermark Char	acter DigitalCC	TV .						

Figure 5-13 (Fisheye)

Set video bit stream, please refer to the following sheet for more details about the parameters.

Parameter	Function
Installation Mode	It will display the parameter when the device is fisheye. There are three installation modes for fisheye which are ceiling, wall mount and ground installation, please select installation mode according to the actual installation scene of the fisheye. The system will begin to switch after switching installation mode, it will prompt successfully saved after it is switched successfully. Note: The device end will output the dewarped video stream after configuring installation and record mode, when the
	device is accessed to third-party platform, it will directly display the dewarped image on the third-party platform.

Record Mode	 It will display the parameter when the device is fisheye. The system will begin to switch after record mode is switched, it will prompt saved successfully after it is switched successfully. The record mode will change according to the different installation modes. 10: the original picture which is not dewarped. • 1P: 360° rectangular panorama. 2P: The mode can be set when the "Installation Mode" is set as "Ceiling" or "Ground". It is the 2 related 180° rectangular image, the two subwindows can both form 360° panorama anytime. 10+3R: original image + 3 independent sub images, both the sub image and sub boxes in the original image can support zoom and movement. 1R: Original image + independent sub images, the sub boxes of the original image support zoom and movement. 4R: original image + 2 independent sub images, both the sub image and sub boxes in the original image support zoom and movement. 2R: Original image + 2 independent sub images, the sub boxes of the original image can support zoom and movement. 2R: Original image + 2 independent sub images, the sub boxes of the original image can support zoom and movement. 2R: Original image + 1 independent sub images, the sub boxes of the original image can support zoom and movement. 2R: Original image + 2 independent sub images, the sub boxes of the original image can support zoom and movement. 2R: Original image + 2 independent sub images, the sub boxes of the original image can support zoom and movement. The device end will output dewarped video stream after configuring installation and record mode, when the device is accessed to the third-party platform, it will directly display the dewarped image on the third-party platform.
-------------	--

Parameter	Function
Sub Stream Enable	Select "Enable" to enable sub stream. The device supports enabling sub stream 1 and sub stream 2 at the same time.
Smart Codec	It can enhance image compression performance and reduce storage space by enabling intelligent encoding. Note: After intelligent encoding is enabled, the device will not support third stream, ROI or intelligent event detection, please refer to the actual interface for more details.

Code-Stream Type	ACF means using different fps to record.
oode-otream type	There are two options: VBR and CBR.
	Please note you can set video quality in VBR mode.
	Note:
	WEB interfaces don't support motion detect and alarm
	code stream setting.
Encode mode	There are five options: H.264 (main profile standard,
	H.264H (high profile standard), H.264B (Baseline
	Profile), H.265 (main profile standard) and MJPEG
	encode.
	• The H.264, H.264H both are H264 bit stream.
	H.264 is the Main Profile encode and you need to
	enable the sub stream function in your camera and
	set the resolution as CIF. Then you can monitor via
	 the Blackberry cell phone. The H.265 is the main profile encode mode.
	 MJPEG: In this encode mode, the video needs to
	large bit stream to guarantee the video definition.
	You can use the max bit stream value in the
	recommend bit to get the better video output effect.
Resolution	There are multiple resolutions. You can select from the
	dropdown list.
	For each resolution, the recommended bit stream value
	is different.
	Note: When video is under rotating status, you cannot
	set resolution higher than 1080P (excluding 1080P).
Video Clip	The function is only supported by sub stream 2, please
	refer to "Video Clip" for more details below the sheet.
Frame Rate (FPS)	PAL: 1~25f/s, 1-50f/s NTSC: 1~30f/s or 1~60f/s.
	The frame rate may vary due to different resolutions.
	The name rate may vary due to uncreat resolutions.
Bit Rate Type	There are two options: VBR and CBR.
	Please note, you can set video quality in VBR mode.
	Under MJPEG mode, only CBR is available.
Recommended Bit	Recommended bit rate value according to the resolution
	and frame rate you have set.
Bit Rate	 In CBR, the bit rate here is the max value. In
	dynamic video, system needs to low frame rate or
	video quality to guarantee the value.
	• The value is null in VBR mode.
	• Please refer to recommend bit rate for the detailed
	information.

SVC	Frame rate can be encoded by layer. It is a flexible encoding method. By default, it is 1 as 1 layer. You also can set 2/3/4 layers.
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
Watermark Settings	Select "Watermark Setting" and enable watermark function. After the watermark function is enabled, you can check if the video is tampered via verifying watermark character.
Watermark Character	It is the character of watermark verification, it is DigitalCCTV by default.

- Video Clip
- 1. Select "Sub Stream 2" in the drop-down box, click "Enable".
- 2. Enable "Video Clip", click

The system will display the interface of "Area", which is shown in Figure 5-14.



Figure 5-14

- 3. Select the needed resolution and clip the needed image on the interface, which is shown in Figure 5-15.
- 4. Click "Save". You can check the clipped video in the preview interface (the sub stream 2 preview interface only displays the clipped area), which is shown in Figure 5-15.



Figure 5-15

Click "Save" to complete video stream setup.

5.1.2.2 Snapshot

The snapshot interface is shown as in Figure 5-16.

CP PLUS						Live	Playback	Setting	Alarm	Logout
Camera Conditions Conditions Video Video Video Network Event Storage System Information	Video Snapshot Type Image Size Quality Interval	Snapshot General 1080P (1920*10 5 1S Default	Overlay V 80) V Refresh	ROI Save	Path					

Figure 5-16

Parameter	Function
Snapshot type	There are two modes: general (schedule) and Event (activation).
Image size	It is the same as the resolution of main stream.
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. Optional1~7s/picture, customized.

5.1.2.3 Video Overlay

The video overlay interface is shown as in Figure 5-17.

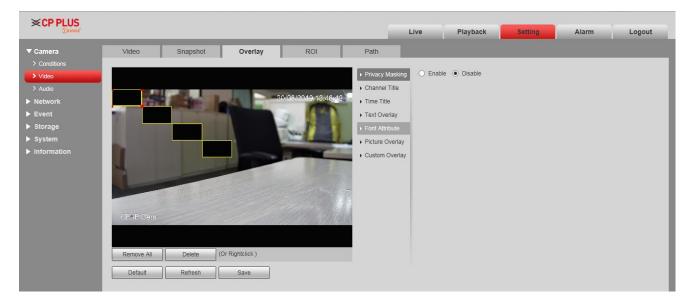


Figure 5-17



Figure 5-18

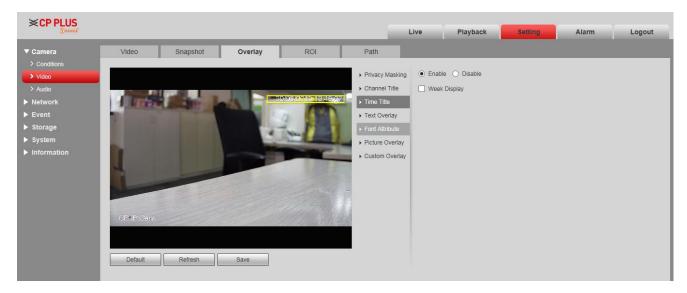


Figure 5-19

					-	Live	Playback	Setting	Alarm	Logout
 ✓ Camera > Conditions > Video > Audio > Network > Event > Storage > System > Information 	Video	Snapshot	Overtay	ROI 20/00/0019 13:49:28	 Find Full Text Overlay Font Attribute Picture Overlay Custom Overlay 	C Enable Input Text:	Disable	+		

Figure 5-20

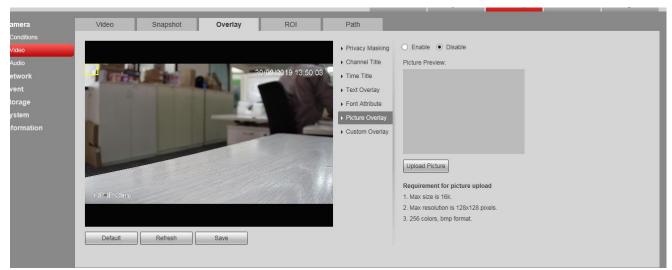


Figure 5-21

					Live	Playback	Sotup	Alarm
Camera Camera Canditions Video Aadio Network Event Storage System Information	Video	Snapshot	Overlay 2013-10-22	ROI 14:30:27	Path Privacy Masking Channel Title Time Title Text Overlay Picture Overlay Counting	 Enable Disable Statistics Type Enter Number Leave Number Text Align Left 		

Figure 5-22

Parameter	Function
Privacy Masking	 Here you can privacy mask the specified video in the monitor video.
	 System max supports 4 privacy mask zones.
Time Title	 You can enable this function so that system overlays time information in video window.
	 You can use the mouse to drag the time tile position.
Channel Title	 You can enable this function so that system overlays channel information in video window.
	 You can use the mouse to drag the channel tile position.
Text Overlay	 You can enable this function to overlay text in video window.
	 You can use the mouse to drag location box to adjust its position. Alignment include align left and align right.
Picture Overlay	 You can enable this function to display overlay picture. Click on disable to turn it off.
	 Click on Upload Picture to overlay local picture into
	monitoring window. You can drag the yellow box to move it.
	Note:
	You cannot enable text and picture overlay at the same time.
Counting	 Check "Enable" to display the counting statistics data in the video monitoring window; check "Disable" not to display.
	• There are enter number and leave number for statistics type and left align and right align for OSD info.

Refresh	 Set privacy mask, channel title, time title, location, overlay and save the change. You can click on Refresh to see effect.
Default	Click it to restore default config.
Save	Click it to complete video settings.

5.1.2.4 ROI

Note: Some series don't support ROI setup function.

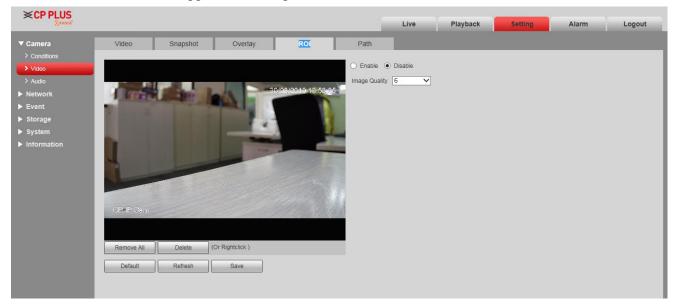


Figure 5-23

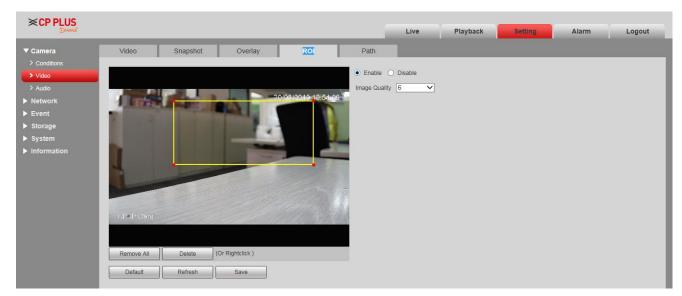


Figure 5-24

Parameters	Note
Enable	Check "Enable", then it will display the ROI in the video monitoring window; Check "Disable", then it won't display.
Image Quality	 Set the image quality of ROI, ranging from 1~6, default is 6. Note: For fisheye device, it ranges from 1~6 (best), default is 6 (best) • Able to set area block, max 4 areas.

5.1.2.5 Path

The storage path interface is shown as in Figure 5-25.

Here you can set snap image saved path and the record storage path.

- The default monitor image path is C:\Users\admin\WebDownload\LiveSnapshot.
- The default monitor record path is C:\Users\admin\WebDownload\LiveRecord.
- The default playback snapshot path is C:\Users\admin\WebDownload\PlaybackSnapshot.

The default playback download path is C:\Users\admin\WebDownload\PlaybackRecord. The default playback cut path is: C:\Users\admin\WebDownload\VideoClips.

Note:

Admin is locally logged in PC account.

Please click the Save button to save current setup.

O RANGE				_	Live	Playback	Setup	Alarm	Logout
7 Camera	Video	Snapshot	Overlay	ROI	Path				
> Conditions	Live Snapshot	C:\Users\S4K5H4M I	EW\WebDownload\LiveS	napshot	Browse				
> Video	Live Record	C:\Users\S4K5H4M	EW\WebDownload\LiveR	ecord	Browse				
Audio	Playback Snapshot	C:\Users\S4K5H4M	WWebDownload	ackSnapshot	Browse				
Network Event	Playback Download	C:\Users\S4K5H4M	EW\WebDownload\Playb	ackRecord	Browse				
Storage	Video Clips	C:\Users\S4K5H4M	EW\WebDownload\Video	Clips	Browse				
System		Default	Save						
Information									

Figure 5-25

5.1.3 Audio

Please note some series devices do not support audio function.

5.1.3.1 Audio

The audio interface is shown as below. See Figure 5-26.

≪CP PLUS ©mmail	Live	Playback	Setting	Alarm	Logout
✓ Camera Audio > Conditions Stocold > Video Encode > Audio Main Stream > Network Enable > Event Encode Mode > Storage Sampling Frequency > System Sub Stream > Information ✓ Enable Sub Stream ✓ Enable ✓ Enable Sub Stream1 ✓ Encode Mode G.711A ✓ Sampling Frequency 8000 ✓ Encode Mode G.711A ✓ Sampling Frequency 8000 ✓ Microphone Volume ✓ Ø = Ø = Ø = Ø = Ø = Ø = Ø = Ø = Ø = Ø =					

Figure 5-26

Parameter	Function
Enable	You can enable audio only when video is enabled.
	After selecting the "Enable" of main stream or sub stream, the network transmission stream is the audio/video composite stream, otherwise it only includes video image.
Encode mode	The encode mode of the main stream and extra stream include G.711A, G.711Mu, G.726 and ACC. The default mode is G.711A.
	The setup here is for audio encode mode and the bidirectional talk encode both.

Sampling Frequency	The sampling frequency of audio. It includes the following options:
	• 8K
	● 16K
	• 32K
	• 48K
	• 64K
AudioIn Type	Two modes to select: LineIn, Mic. Device needs to connect external audio input source under LineIn mode, and it doesn't need to connect external audio input source under Mic mode.
Noise Filter	Enable the function and it can filter relevant noise.
Microphone	Adjust microphone volume from $0\sim$ 100.
Volume	Note:
	Supported by some devices.
Speaker Volume	Adjust speaker volume from $0\sim$ 100.
	Note:
	Supported by some devices.

5.1.3.2 Alarm audio

Enner,				Live	Playback	Setting
▼ Camera	Audio Ala	rm Audio				
Conditions	Choose	Name	Play	Download	Modify	Delete
	6	alarm1.pcm	0	<u>±</u>		
Audio	0	alarm2.pcm	0	<u>+</u>		
Network						
Event						
Storage						
System						
Information						
	Add Audio File					

Figure 5-27

Add Audio F	ile	×
Record	C Upload	
Audio File		.pcm
	Record	

Figure 5-28

Audio management currently supports PCM format to record and PCM, wav two forms to upload, and can select an audio file for the audio alarm linkage.

The way to download the web alarm playback audio file into local is as follows:

Step 1 Use the left mouse button to click the hollow circle in the "choice" column on the left, and shows , which means effective choice of alarm audio.

Step 2 Use the right mouse button to click 👱, select "save target as" to download.

5.2 Network

5.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 6-29. It supports IPv4 and IPv6. IPv4 supports static IP and DHCP. IPv6 supports static IP only. When users manually modify IP address, WEB will automatically jump to the new IP address.

×CP PLUS								
⊡RANGE				 Live	Playback	Setting	Alarm	Logout
▶ Camera	TCP/IP Insta	On Cloud						
Network								
> TCP/IP	Host Name	IPC						
	Ethernet Card	Wire(Default)						
> PPPoE	Mode	Static DHCP						
	MAC Address	14 . 07 . 08 . 36 . 6e	6d					
> SMTP(Email) > UPnP	IP Version	IPv4 V						
> SNMP	IP Address	192. 168. 1. 250						
> Bonjour	Subnet Mask	255 . 255 . 255 . 0						
> Multicast	Default Gateway	192. 168. 1. 1						
	Preferred DNS	4 . 2 . 2 . 2						
	Alternate DNS	8.8.8.8						
▶ Event	Enable ARP/Ping to set	t IP address service						
Storage	ſ	Default Refresh	Save					
System	l	- Neirean	Gave					
Information								

Figure 5-29

Parameter	Function
Host Name	It is to set current host device name. It max supports 15 characters.
Ethernet Card	Please select the Ethernet port. Default is wired.
	Please note you can modify the default Ethernet card if there is more than one card.
Mode	There are two modes: static mode and the DHCP mode. Select DHCP mode, it auto searches IP, and you cannot set IP/subnet mask/gateway. Select static mode, you must manually set IP/subnet mask/gateway.
Mac Address	It is to display hose Mac address.
IP Version	It is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.

Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
DNS IP address.
Alternate DNS IP address.
You can use ARP/Ping command to modify or set the device IP address if you know the device MAC address.
Before the operation, please make sure the network camera and the PC in the same LAN. This function is on by default.
You can refer to the steps listed below.
Step 1 : Get an IP address. Set the network camera and the PC in the same LAN.
Step 2 : Get the physical address from the label of the network camera.
Step 3 : Go to the Run interface and then input the following commands.
arp -s <ip address=""> <mac></mac></ip>
ping –I 480 –t <ip address=""></ip>
Such as : arp -s 192.168.0.125 11-40-8c-18-10-11
ping -I 480 -t 192.168.0.125 Step 4 : Reboot the device.
Step 5 : You can see the setup is OK if you can see there are output information such as "Reply from 192.168.0.125" from the command output lines. Now you can close the command line.
Step 6 : Open the browse and then input http:// <ip address="">. Click the Enter button, you can access now.</ip>

5.2.1.1 InstaOn

Click "Enable" to connect the device to network, and then you can connect to the device via mobile client of gCMOB/iCMOB after "Online" is displayed on the interface (connection mode: add device serial number or scan QR code). See Figure 5-30.

≪CP PLUS ⊡ramed	Live	Playback	Setting	Alarm	Logout
Camera TCP/IP InstaOn Cloud Network Image: Contract of the status Chine Port Port Status Chine PPPoE DDNS Image: Contract of the status Chine SMTP(Email) UPnP Android App InstaOn Cloud ID VPnP SNMP Bonjour Image: Contract of the status Image: Contract of the status Autificast 302 1x Scan QR to Download Scan QR to Download CP4D0410CPAG00013 Event InstaOn Cloud URL: http://orange.instaon.com Default Refresh Save System InstaOn Default Refresh Save Save		Playback	Setting	Alarm	Logout

Figure 5-30

5.2.2 Connection

5.2.2.1 Connection

The connection interface is shown as in Figure 5-31.

×CP PLUS								
O RANGE				Live	Playback	Setting	Alarm	Logout
▶ Camera	Port	ONVIF						
▼ Network								
> TCP/IP	Max Connection	20	(1~20)					
> Port	TCP Port	25001	(1025~65534)					
> PPPoE	UDP Port	25002	(1025~65534)					
> DDNS	HTTP Port	80						
> SMTP(Email)	RTSP Port	554						
> UPnP	HTTPS Port	443						
> SNMP		Default	afresh Save					
> Bonjour		Delault	Save					
> Multicast								
> 802.1x								
> QoS								
Event								
Storage								
System								
Information								

Figure 5-31

Parameter	Function
	It is the max Web connection for the same device. The value ranges from 1 to 20. Default connection amount is 10.

TCP port	Port range is 1025~65534. The default value is 25001. You can input the actual port number if necessary.
UDP port	Port range is 1025~65534. The default value is 25002. You can input the actual port number if necessary.
HTTP port	Port range is 1025~65524. The default value is 80. You can input the actual port number if necessary.
RTSP port	• The default value is 554. Please leave blank if use default. User uses QuickTime or VLC can play the following formats. BlackBerry can play too.
	 Real-time monitoring URL format, please require real-time RTSP media server, require channel no., bit stream type in URL. You may need username and password.
	 User uses BlackBerry need to set encode mode to H.264B, resolution to CIF and turn off audio.
	URL format is:
	rtsp://username:password@ip:port/cam/realmonitor?channel=1&subtype=0 Username/password/IP and port.
	The IP is device IP and the port default value is 554. You can leave it in blank if it is the default value.
	Follow standard RTP protocol and when encode mode is MJPEG, the max resolution only supports 2040*2040.
HTTPs Port	HTTPs communication port, range is 1025~65534, default is 443.

Note:

- 0~1024, 37780~37880, 1900, 3800, 5000, 5050, 9999, 37776, 39999, 42323 are all special ports. User cannot modify them.
- Avoid using default port value of other ports.

5.2.2.2 ONVIF

ONVIF (Open Network Video Interface Forum), this standard describes network video mode, interface, data type and data interaction mode. ONVIF Standard's aim is to achieve a network video frame agreement and makes the network video products (including video front-end, video equipment, etc.) from different manufacturers completely compatible.

ONVIF function is on by default.

≈CP PLUS									
⊙ RANGE					Live	Playback	Setting	Alarm	Logout
▶ Camera	Port	ONVIF							
Network									
> TCP/IP	Authentication	On Off							
> Port		Default	Refresh	Save					
> PPPoE									
> DDNS									
> SMTP(Email)	_								_
> UPnP									
> SNMP									
> Bonjour									
> Multicast									
> 802.1x									
> QoS ▶ Event									
 Event Storage 									
 System 									
 Information 									

Figure 5-32

5.2.3 PPPoE

The PPPoE interface is shown as in Figure 5-33.

Enter the PPPoE username and password which are provided by ISP (Internet Service Provider), and click "Enable". The network camera will automatically establish network connection in the mode of PPPoE after it is enabled, after it is successful, the IP of the "IP Address" will be automatically modified

into the dynamic IP address of the acquired WAN. **Note:** After PPPoE dial-up is successful, it needs to log in the device via the IP which is set before dial-up; in the PPPoE setup interface, it will display the registered IP address, and then it can visit the IP address via client.

Please disable UPnP when clicking PPPoE enable, which is to avoid causing influence to PPPoE dialup.

			Live	Playback	Setting	Alarm	Logout
▶ Camera	PPPoE						
Network TCP/IP	Enable						
> Port	Username	none					
> PPPoE	Password						
> DDNS > SMTP(Email)		Default Refresh Save					
> UPnP							
> SNMP				_	_	_	_
> Bonjour							
> Multicast							
> 802.1x							
> QoS							
▶ Event							
Storage							
▶ System							
Information							

Figure 5-33

5.2.4 DDNS

The DDNS interface is shown as in Figure 5-34.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed. When the device connects to WLAN, you should disable UPnP.

≪CP PLUS							
O RANGE			Live	Playback	Setting	Alarm	Logout
▶ Camera	DDNS						
Network	_						
	🗌 Туре	CP Plus DDNS					
	Domain Name	MyDomainName .cpplusddns.com					
> PPPoE	MAC Address	14:07:08:36:6e:6d					
> DDNS	Link State	Disconnected The CP PLUS DDNS function has not been enabled					
> SMTP(Email)	Notes:						
> UPnP	1.To add the dom	ain name					
> SNMP	- Check Enable						
> Bonjour	- Input the domain name and press Save button						
> Multicast	2.To remove the domain name						
> 802.1x	- Uncheck Enable and press Save button						
> QoS	3.Domain name field accepts only alpha unmeric characters(a-z \ 0-9) are valid 4.Use http://MyDomainName.cpplusddns.com URL to access your IP Camera						
	4.036 http://wybo						
Event		Default Refresh Save					
Storage							
System							
Information							

Figure 5-34

Parameter	Function
Server Type	Click it to select DDNS protocol type, which includes: CN99 DDNS, NO-IP DDNS, Dyndns DDNS, CP Plus DDNS, the default is CP Plus DDNS.
Server Address	DDNS server IP address
	CN99 DDNS
	Server address: www.3322.org
	NO-IP DDNS
	Server address: dynupdate.no-ip.com
	Dyndns DDNS
	Server address: members.dyndns.org Quick
	DDNS
	Server address: www.quickddns.com
Mode	Default is auto, it can select manual

Domain Name	Both auto and manual are "MAC addresss.quickddns.com" by default, it is able to set prefix manually.
Username	The user name you input to log in the server, optional.

The CP Plus DDNS interface is shown as in Figure 5-35.

≤CP PLUS									
O RANGE					Live	Playback	Setting	Alarm	Logout
▶ Camera	DDNS								
▼ Network	_								
	🗹 Туре	CP Plus DDNS	 After enabling DDNS function, 	, third-party server ma	y collect your devic	e info.			
	Domain Name	testing12345	.cpplusddns.com						
> PPPoE	MAC Address	14:07:08:36:6e:6d							
> DDNS	Link State	Connected 103.55.91.131							
> SMTP(Email)	Notes:								
> UPnP	1.To add the domain name								
> SNMP	- Check Enable								
	- Input the domain name and press Save button								
> Multicast	2.To remove the domain name - Uncheck Enable and press Save button								
	- Unitiest classe and piess stare building 3.Domain name field accepts only alpha unmeric characters(a-z, 0-9) are valid								
	4.Use http://testing12345.cpplusddns.com URL to access your IP Camera								
▶ Event	Default Refresh Save								
Storage		Donada							
System									
► Information			_	_	_	_	_	_	_

Figure 5-35

Parameter	Function
Server Type	You can select CP Plus DDNS protocol
Domain Name	Self-defined domain name

5.2.5 SMTP (e-mail)

The SMTP interface is shown as in Figure 5-36.

		Live Playback Setting Alarm Logout
Camera Conversion Conversio	SMTP(Email) SMTP Server Port Anonymity Username Password Sender Authentication Title Mail Receiver	Live Playback Setting Alarn Logout
		Default Refresh Save

Figure 5-36

Parameter	Function
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server which supports the anonymity email function, it won't display the information of the sender.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL, TLS or none.
Title (Subject)	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Mail receiver	Input receiver email address here. Max three addresses.

Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.2.6 UPnP

It allows you to establish the mapping relationship between the LAN and the public network. Here you can also add, modify or remove UPnP item. For UPnP on different routers, you must disable UPnP function. See Figure 5-37.

In the Windows OS, From Start->Control Panel->Add or remove programs. Click the "Add/Remove Windows Components" and then select the "Network Services" from the Windows Components Wizard. Click the Details button and then check the "Internet Gateway Device Discovery and Control client" and "UPnP User Interface". Please click OK to begin installation.

Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the network camera can auto detect it via the "My Network Places".

Under manual mode, you can modify external port. Under auto mode, select idle port for auto port mapping without user modification.

Camera	UPnP						
Network	_						
	Enable	Mode Custom 🗸	Router State Mapping Failed				
	Start Device Disco	ver					
PPPoE	Port Mapping Lis						
DDNS		Service Name	Protocol	Internal Port	External Port	Status	Modify
SMTP(Email)		WebService	WebService:TCP	80	8080	Mapping Failed	<u> </u>
UPnP		PrivService	PrivService:TCP	25001	25001	Mapping Failed	1
		PrivService	PrivService:UDP	25002	25002	Mapping Failed	2
SNMP		RTSPService	RTSPService:TCP	554	554	Mapping Failed	1
Multicast							
							~
Event							
itorage	Default	Refresh Save					
storage							

Figure 5-37

5.2.7 SNMP

The SNMP interface is shown as in Figure 5-38 and Figure 5-39.

The SNMP allows the communication between the network management work station software and the proxy of the managed device. Please install the software such as MG MibBrowser 8.0c software or establish the SNMP service before you use this function. You need to reboot the device to activate the new setup.

					Live	Playback	Setting	Alarm	Logout
► Camera ✓ Network ➤ TCP/IP ➤ Port ➤ PPPoE ➤ DDNS ➤ SMTP(Email) ↓ UPnP ► Sm/IP ➤ Bonjour ➤ Muticast ➤ 800.1x ➤ 300.1x ➤ 300.1x ➤ 300.1x	SNMP Version SNMP Port Read Community Write Community Trap Address Trap Port	v1 161 162 162 Default	v2 (1~65535)	V3 (Recommen					
 Event Storage System Information 									

Figure 5-38

Please refer to the following sheet for detailed information.

Parameter	Function
SNMP Version	 Check SNMP v1, device only process v1 info.
	• Check SNMP v2, device only process v2 info.
	 Check SNMP v3, can set username, password and encryption method. Server calibrate corresponding username, password and encryption method too access device and v1/v2 are unavailable.
SNMP port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Community	It is a string, as command between management and proxy, , defining a proxy, and a manager's authentication.
Read community	Read-only access to all SNMP targets, default is public. Note: Only number, letter, _, and – supported.
Write community	Read/write access to all SNMP targets, default is private. Note: Only number, letter, _, and – supported.
Trap address	The destination address of the Trap information from the proxy program of the device.
Тгар	SNMP trap is a proxy message sent to admin as important event notice or status change.
Trap Address	Address where to send Trap message.
Trap Port	Port which send Trap message, default is 162, range 1~65535.

	Live Playback Setting Alarm Logout
▶ Camera	SNMP
▼ Network > TCP/IP	Version v1 v2 v3 (Recommen
> Port > PPPoE	SNMP Port 161 (1~65535)
> DDNS	Read Community Write Community
> SMTP(Email) > UPnP	Trap Address
> SNMP > Bonjour	Trap Port 162
> Multicast	Read-only Username public Authentication Type MD5 SHA
> 802.1x > QoS	Authentication Pass The minimum pass phrase length is 8 characters Encryption Type CFB-AES
► Event Storage	Encryption Password The minimum pass phrase length is 8 characters
► System	Read&write Userna private
Information	Authentication Type MD5 O SHA Authentication Pass The minimum pass phrase length is 8 characters
	Encryption Type CFB-AES
	Encryption Password The minimum pass phrase length is 8 characters
	Default Refresh Save

Figure 5-39

Check SNMP v3 version and SNMP port, read community, write community, Trap address, Trap port are same with SNMP v1 and SNMP v2 versions. Only when SNMP version is SNMP v3, users need to configure parameter in chart.

Parameter	Function			
SNMP Version	SNMP v3			
Read-only Username	Default is public. Note: Name only can be number, letter and underline.			
Read/Write Username	Default is private. Note: Name only can be number, letter and underline.			
Authentication	You may select MD5 or SHA, default is MD5.			
Authentication Password	Password not less than 8 characters.			
Encryption	Default is CBC-DES.			
Encryption Password	Password not less than 8 characters.			

5.2.8 Bonjour

The Bonjour interface is shown as below. See Figure 5-40.

Bonjour is based on the multicast DNS service from the Apple. The Bonjour device can automatically broadcast its service information and listen to the service information from other device.

You can use the browse of the Bonjour service in the same LAN to search the network camera device and then access if you do not know the network camera information such as IP address.

You can view the server name when the network camera is detected by the Bonjour. Please note the safari browse support this function. Click the "Display All Bookmarks: and open the Bonjour, system can auto detect the network camera of the Bonjour function in the LAN.

×CP PLUS					
O RANGE			Live Pla	ayback Setting	Alarm Logout
▶ Camera	Bonjour				
Network	_				
> TCP/IP	Enable				
> Port	Server Name	CP4D0410CPAG00012			
> PPPoE		Default Refresh Save			
> DDNS					
> SMTP(Email)					
> UPnP	_				
> SNMP					
> Bonjour					
> Multicast					
> 802.1x					
> QoS					
► Event					
Storage					
System					
Information					

Figure 5-40

5.2.9 Multicast

The multicast interface is shown as in Figure 5-41.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

Note:

- Open preview, streaming media protocol, select multicast, and monitor via multicast format.
- Here you can set multicast address and port. You also need to go to Live interface to set the protocol as Multicast.

≪CP PLUS							
⊙ RANGE ²			Live	Playback	Setting	Alarm	Logout
▶ Camera	Multicast						
Network							
	Main Stream		Sub Stream				
> Port	Enable		Enable	Sub Stream1	~		
> PPPoE	Multicast Address	224 . 1 . 0 . 0 (224.0.0.0~239.255.255.255)	Multicast Address	224. 1. 0	. 1 (224.0.0.0	~239.255.255.255)	
> DDNS	Port	40000 (1025~65500)	Port	40008	(1025~65	500)	
> SMTP(Email)							
> UPnP							
> SNMP		Default Refresh Save					
> Bonjour							
> Multicast							
> 802.1x							
> QoS							
Event							
Storage							
System							
Information							

Figure 5-41

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Select to enable multicast function. Main stream and sub stream cannot be used at the same time.
Multicast address	Main/sub stream multicast default address is 224.1.2.4 and its range is $224.0.0.0 \sim 239.255.255.255$.
Port	Multicast port. Main stream is 40000, sub stream1 is 40016, sub stream2 is 40032 and the range is 1025 \sim 65534.

5.2.10 WIFI

Note:

Some series devices don't support WIFI and WPS function. WPS function is supported by the devices with WPS button.

5.2.10.1 WIFI

WIFI info can show the name, status, IP information of the Current Hot Spot. Usually please "Refresh" WIFI work information after reconnection to ensure the real-time display of the work status, because it often takes some time to connect WIFI Hot Spot, which depends on the network signal strength.

				Live Playback	Setting	Alarm	Logout
				Live Huyback	Jetting		Logout
▶ Camera	WIFI	WPS					
Network	Enable						
> TCP/IP	ID List					Add SSID	Search SSID
> Port		S SID	Connect mode	Authorize Mode	Signal Quality		
> PPPoE							*
> DDNS							
> SMTP(Email)							
> UPnP							
> SNMP							
> Bonjour							
> Multicast							<u>v</u>
> WIFI	WIFI INFO						
> 802.1x	Current Hot Spot						
> QoS	IP address Subnetmask						
▶ Event	Default Gateway						
▶ Storage							
▶ System	Refresh						
► Information							

Figure 5-42

WIFI setting method is as follows:

Step 1

Click Enable , show as Enable , means enabling WIFI function.

Step 2

Click "Search SSID", and shows the wireless network hot spot of the current network camera environment in the list.

Network F Enable Add SSID Search > TCP/IP D List						
CP/PP Dist Cd// dist Autorize Mode Signal Quality > Port 510 SSID Connect mode Authorize Mode Signal Quality > Pope 0 12345 Auto WPA/PSK-AES aff > DDNS 0 TP-LINK_455EF6 Auto WPA/PSK-KES aff > SIMP 0 TP-LINK_455F6 Auto WPA/PSK-KES aff > SIMP 0 TP-LINK_425796 Auto WPA/PSK-KIP+AES aff > Bonjour 0 TP-LINK_425796 Auto WPA/PSK-KIP+AES aff > Multicast 0 TP-LINK_425796 Auto WPA/PSK-KIP+AES aff > Multicast 0 TP-LINK_MULAN Auto WPA/PSK-KIP+AES aff > Multicast 0 TP-LINK_NULAN Auto WPA/PSK-KIP+AES aff > Multicast 0 TP-LINK_NULAN Auto WPA/PSK-KIP+AES aff > Multicast 0 TP-LINK_NULAN Auto WPA/PSK-KIP+AES aff	► Camera	WIFI	WPS			
Port SUD SUD Connect mode Authorize Mode Signal Quality > perpoet C 12345 Auto WPAPSKAES aff > DDNS C 5370test Auto WPAPSKAES aff > MTP(Email) C TP-LINK_465EF6 Auto WPAPSK-TKIP+AES aff > MTP(Email) C AndroidAP Auto WPAPSK-TKIP+AES aff > MIP C AndroidAP Auto WPAPSK-TKIP+AES aff > Multicast C TP-LINK_425786 Auto WPA/PSK-TKIP+AES aff > Multicast C TP-LINK_425786 Auto WPA/PSK-TKIP+AES aff > Multicast C TP-LINK_MULAN Auto WPA/PSK-TKIP+AES aff > Multicast C TP-LINK_MULAN Auto WPA/PSK-TKIP+AES aff > Multicast C TP-LINK_NULAN Auto WPA/PSK-TKIP+AES aff > Multicast Current Hot Spot ucronnected graddress aff		F Enable				Add SSID Search S
> pPpoE 0 12345 Auto WPAPSKAES ali > DDNS 0 5370test Auto WPAPSKAES ali > SMTP(Email) 0 TP-LINK_465EF6 Auto WPAPSKAES ali > UPnP 0 AndroidAP Auto WPAPSKAES ali > SNMP 0 TP-LINK_425786 Auto WPAPSKAES ali > SNMP 0 TP-LINK_425786 Auto WPAPSKAES ali > Multicast 0 TP-LINK_425786 Auto WPAPSKAES ali > Multicast 0 TP-LINK_MULAN Auto WPAPSKAES ali > Multicast 0 TP-LINK_MULAN Auto WPAPSK-TKIP-AES ali > Multicast 0 TP-LINK_NULAN Auto WPAWPA2-PSK-TKIP-AES ali > Multicast 0 TP-LINK_NULAN Auto WPAWPA2-PSK-TKIP-AES ali > MULT 0 WHINFO Current Hoti Spot unconnected IP address subnetmask UEfault Gate		ID List				
Minor Main MPAWPA2-PSK-TKIP+AES Main > DDNS C 5370test Auto WPAWPA2-PSK-TKIP+AES Main > SMTP(Email) C AndroidAP Auto WPA_PSK-TKIP+AES Main > UPnP C AndroidAP Auto WPA_PSK-TKIP+AES Main > SMMP C TP-LINK_425796 Auto WPAWPA2-PSK-TKIP+AES Main > Bonjour C NETGEAR64 Auto NONE Main > Multicast C TP-LINK_NJAN Auto WPAWPA2-PSK-TKIP+AES Main > WHI Current Hot Spot unconnected WFI NFO Minor View > Cos Subnetmask Lefault Sateway Lefault Sateway Lefault Sateway			SSID	Connect mode	Authorize Mode	Signal Quality
With O TP-LINK_485EF6 Auto WPA/PSK/TKIP+AES ad > SMTP (Email) C AndroidAP Auto WPA/PSK/TKIP+AES ad > SMAP C AndroidAP Auto WPA/PSK/TKIP+AES ad > SMAP C TP-LINK_425796 Auto WPA/PSK/TKIP+AES ad > SMAP C NETGEAR64 Auto NONE ad > Multicast C TP-LINK_NJAN Auto WPA/PSK/TKIP+AES ad > WIFI Current Hot Spot Unconnected VPA/PSK/TKIP+AES ad > WIFI Current Hot Spot unconnected VPA/PSK/TKIP+AES ad > Koos Event Subnetmask Uniticast Uniticast Uniticast Uniticast	> PPPoE	C	12345	Auto	WPA-PSK-AES	att
VIPPIC C AndroidAP Auto WPA2-PSK-AES ad > SMMP C TP-LINK_425796 Auto WPAWPA2-PSK-TKIP+AES ad > Bonjour C NETGEAR84 Auto NONE ad > Multicast C TP-LINK_NUIAN Auto WPAWPA2-PSK-TKIP+AES ad > Multicast C TP-LINK_NUIAN Auto WPAWPA2-PSK-TKIP+AES ad > WFI Current Hot Spot unconnected F ad F > OGS IP address Subnetmask E </td <td></td> <td>C</td> <td>5370test</td> <td>Auto</td> <td>WPA/WPA2-PSK-TKIP+AES</td> <td>all</td>		C	5370test	Auto	WPA/WPA2-PSK-TKIP+AES	all
Will Will <th< td=""><td>> SMTP(Email)</td><td>0</td><td>TP-LINK_465EF6</td><td>Auto</td><td>WPA-PSK-TKIP+AES</td><td>line</td></th<>	> SMTP(Email)	0	TP-LINK_465EF6	Auto	WPA-PSK-TKIP+AES	line
Mitikast M NETGEAR64 Auto NONE > Multikast TP-LINK_NUIAN Auto WPAWPA2-PSK-TKIP+AES Current Hot Spot Current Hot Spot Current Hot Spot Badness Storage Default Gateway Link Subset Link Subset	> UPnP	С	AndroidAP	Auto	WPA2-PSK-AES	all
Withead O TP-LINK_NUIAN Auto WPAWPA2-PSK-TKIP+AES WIFI Vision Wision Voision Unitation Storage Default Gateway	> SNMP	0	TP-LINK_425796	Auto	WPA/WPA2-PSK-TKIP+AES	all
WiFi WiFi NFO S02.1x ViFi NFO Current Hot Spot unconnected IP address Fvent Subnetmask Storage Default Gateway	> Bonjour	С	NETGEAR64	Auto	NONE	all
WFINFO Current Hot Spot unconnected Current Hot Spot unconnected P address Event Subnetmask Default Gateway	> Multicast	0	TP-LINK_NIJIAN	Auto	WPA/WPA2-PSK-TKIP+AES	al.
> 202.1x Current Hot Spot unconnected > 200S IP address Event Subnetmask Storage Default Gateway	> WIFI					
> QoS IP address Event Subnetmask Storage Default Gateway						
Event Subnetmask Storage Default Gateway	> Q0S		unconnected			
JULINE	Event					
System	Storage	Default Gateway				
Refresh	System					

Figure 5-43

Click "Add SSID" when need to add a wireless network manually pop out an interface in the figure below, and enter network ID in the dialog box.

Add Wireless	SSID		X
	SSID Ok	Cancel	

Figure 5-44

- **Step 4** Double click on one can pop out the signal intensity and authentication of the hot spot.
 - Please enter the password if necessary. Please keep the choice of password index number same as the router when entering password.
 - · Please click "connect" if it is unnecessary to enter the password.

5.2.10.2 WPS

				ve	Playback	Setting	Alarm	Logout
	_	_		 ve	ridyback	Setting	Alami	Logour
▶ Camera	WIFI	WPS						
Network	C C L L DIN							
	Enter PIN							
	PIN:							
> PPPoE	SSID							
	C Button							
> SMTP(Email)	Status	disconnected						
> UPnP	oladas	alsconnected						
> SNMP		Connecting	Refresh					
> Bonjour								
> Multicast								
> WIFI								
Event								
Storage								
System								
Information								

Figure 5-45

PIN Number and SSID are both acquired from the router, please "refresh" the work information of WIFI to ensure the real-time display of work state after filling in correctly.

5.2.11 802.1x

802.1x (port based network access control protocol) supports manual selection of authentication method to control if device connected to LAN can join the LAN. It well supports authentication, charging, safety and management requirement of network.

			Live Playback	Setting	Alarm	Logout
Camera Vetwork TCP/IP Port PPPoE DDNS SMTP(Email) UPnP SNMP	802.1x Enable Authentication Username Password	PEAP V none Oefault Refresh Save				
 > Bonjour > Multicast > 802.1x > QoS > Event > Storage > System > Information 						

Figure 5-46

Please refer to the following sheet for detailed information.

Parameter	Function
Authentication	PEAP (protected EAP protocol).
Username	It needs the username to login, which is authenticated by the server.
Password	Please input password here.

5.2.12 QoS

The QoS interface is shown as below. See Figure 5-47.

Qos (Quality of Service) is network security mechanism. It is a technology to fix the network delay and jam problem and etc. For the network service, the quality of service includes the transmission bandwidth, delay, the packet loss and etc. We can guarantee the transmission bandwidth, lower the delay, and reduce the loss of the data packet and anti-dither to enhance the quality.

We can set the DSCP (Differentiated Services Code Point) of the IP to distinguish the data packet so that the router or the hub can provide different services for various data packets. It can select the different queues according to the priority (64 different priority levels) of the packets and select the bandwidth of the each queue. Level 0 is the lowest, and level 63 is the highest. It can also discard at the different ratio when the broad bandwidth is jam.

					Live	Playback	Setting	Alarm	Logout
	0.0				2.110	Theybuok	octaing	Committee	Logour
▶ Camera	QoS								
Network									
	Realtime Monitor	0	(0~63)						
	Command	0	(0~63)						
> PPPoE		Default	Refresh	Save					
> SMTP(Email)									
> UPnP									
> SNMP									
> Multicast									
> QoS									
Event									
Storage									
System									
► Information									

Figure 5-47

Please refer to the following sheet for detailed information.

Parameter	Function
Real-time monitor	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Command	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Enable Wireless QoS	Check it to enable QoS.

5.3 Event

5.3.1 Video detection

5.3.1.1 Motion Detection

Step 1

Select "Setup > Event > Video Detection > Motion Detection' and the system will display the interface of "Motion Detection" which is shown in Figure 5-48.

CP PLUS		Live	Playback	Setting	Alarm	Logout
Camera Network Vevent Video Detection Audio Detection Smart Plan VVS	Motion Detection Video Tampering Scene Changing Image: Constraint of the second section of the second section of the second section of the second se					
 > Face Detection > Alarm > Abnormality > Storage > System > Information 	Record Record Delay 10 s (10-300) Relay-out Alarm Delay 10 s (10-300) Send Email Snapshot Default Refresh Save					



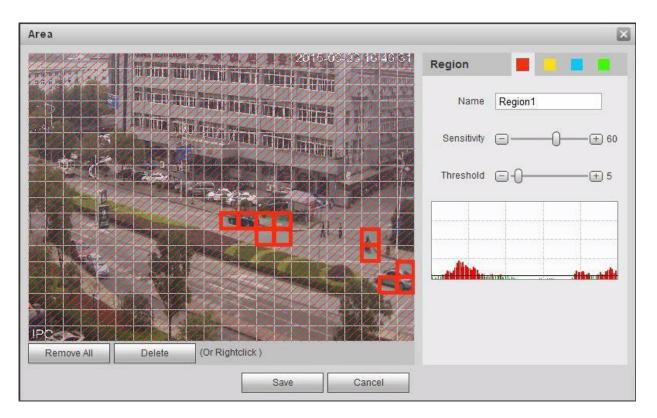
Step 2

Select "Enable" to enable motion detection function.

Step 3

Set motion detection area.

 Click "Setup" and the system will pop out the interface of "Setting Area", which is shown in Figure 5-49





2. Set area name, it is to set valid area of motion detection according to the actual situation, and it can set the value of sensitivity and threshold respectively.

The bigger the sensitivity is, the easier it is to generate motion detection, the smaller the threshold is, the easier it is to generate motion detection; the entire video image is the valid area of motion detection by default.

Note:

- Different colors represent different areas; each area can set different detection area.
- The red line in the Oscillogram means triggering motion detection; green line means not triggering motion detection.
- 3. Click "Save" to complete area setting.

Step 4

It is to set other parameters of motion detection, please refer to the following sheet for more details.

Parameter	Function
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). Click "Save" to complete the setup of working period.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Area	 Click "Setup" and the system will pop out the interface of "Set Area". Set the area name, it is to set the valid area of motion detection according to the actual situation, and it can set its sensitivity and threshold respectively. The higher the sensitivity is, the easier it is to trigger motion detect, the smaller the area threshold is, the easier it is to generate motion detect, the whole video image is the valid area of the motion detect by default. Note: Different colors represent different areas; each area can set different detection areas. The red line in the Oscillogram means triggering motion detect, the green line means not triggering motion detect. Click "Save" to complete area setup.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.

Audio linkage	Check it and the system will play alarm audio file when alarm occurs. Use can set the recorded or uploaded audio file in "camera setting > audio > alarm audio".
Flash linkage	Check it and the flash will be on when alarm occurs, and the flash will be off until the end of alarm after corresponding delay.
PTZ	 Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. The event type includes: preset, tour and pattern.
Snapshot	You need to check the box here so that system can backup motion detection snapshot file. You shall set snapshot period in Storage>Schedule.

Click "Save" to complete the setting of motion detection.

5.3.1.2 Video Tampering

Step 1

Select "Setup > Event > Video Detection > Video Tampering" and the system will display the interface of "Video Tampering" which is shown in Figure 5-50.

×CP PLUS					
⊙ RANGE		Live Playback	Setting	Alarm	Logout
▶ Camera	Motion Detection Video Tampering Scene Changing				
Network					
▼ Event	Enable Video Tampering Enable Defocus Detection				
Video Detection Audio Detection	Period Setting				
> Smart Plan	Record				
	Record Delay 10 s (10~300)				
Face Detection	✓ Relay-out				
	Alarm Delay 10 s (10~300)				
> Abnormality	Send Email				
Storage	✓ Snapshot				
System					
Information	Default Refresh Save				

Figure 5-50

Step 2

Set the parameter of video tampering; please refer to the following sheet for more details.

Parameter	Function
Enable video tampering	You need to check the box to enable video mask detection alarm.
Enable defocus detection	You need to check the box to enable defocus detection alarm.

Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole
	week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days).3. Click "Save" to complete the setup of working period.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Audio linkage	Check it and the system will play alarm audio file when alarm occurs. Use can set the recorded or uploaded audio file in "camera setting > audio > alarm audio".
Flash linkage	Check it and the flash will be on when alarm occurs, and the flash will be off until the end of alarm after corresponding delay.
Snapshot	You need to check the box here so that system can backup motion detection snapshot file. You shall set snapshot period in Storage>Schedule.

Click "Save" to complete the setup of video tampering.

5.3.1.3 Scene Changing

Step 1

Select "Setup > Event > Video Detection > Scene Changing" and the system will display the interface of "Scene Changing" which is shown in Figure 5-51.

		L	ive Playback	Setting Al	arm Logout
 Camera Network Event Video Detection Audio Detection Smart Plan IVS Face Detection Alarm Abnormality Storage System Information 	Motion Detection Video Tampering Scene Changing □ Enable Period Setting ✓ Record Record Delay 10 s (10-300) ✓ Relay-out Alarm Delay 10 s (10-300) ○ Send Email ✓ Snapshot	Save			

Figure 5-51

Step 2

Check "Enable" to enable the function of scene changing.

Step 3

It is to set the parameters of scene changing, please refer to the following sheet for more details.

Parameter	Function
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). Click "Save" to complete the setup of working period.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.

Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	You need to check the box here so that system can backup motion detectior snapshot file. You shall set snapshot period in Storage>Schedule.

Click "Save" to complete the setup of scene changing.

5.3.2 Audio Detection

Step 1

Select "Setup > Event > Audio Detection" and the system will display the interface of "Audio Detection" which is shown in Figure 5-52.

		Live	Playback	Setting	Alarm	Logout
▶ Camera	Audio Detection					
Network Event Video Detection Audio Detection Smart Plan NVS	Input Abnormal Informaty Change Sensitivity					
 Face Detection Alarm Abnormality Storage 						
 System Information 	Pariod Setting Ant-Other 5 s (0-100)					
	Placord Record Delay 10 s (10~300) Platay-out					
	Alarm Delay 10 s (10-300) Send Email Sapashot Default Refresh Save					

Figure 5-52

Step 2

It is to set the parameters of audio detect, please refer to the following sheet for more details.

Parameter	Function
Enable input abnormal	Select "Enable Input Abnormal" and it will trigger alarm when it detects audio input abnormity.

Enable intensity change	Select "Enable Intensity Change" and it will trigger alarm when it detects that audio intensity change exceeds the threshold.
Sensitivity	It can be judged as audio abnormity when the input volume change exceeds continuous environment volume; users need to adjust according to the actual environment test.
Threshold	It is to set the filtered environment volume intensity, if the environmental noise is too big, then the value needs to be set higher, users can adjust according to the actual environment test.
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). Click "Save" to complete the setup of working period.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	You need to check the box here so that system can backup motion detection snapshot file. You shall set snapshot period in Storage>Schedule.

Click "Save" to complete the setup of audio detection.

5.3.3 Smart Plan

Smart plan is the master switch for intelligent analysis such as "Face Detection", "Heat Map", "IVS", "People Counting" and so on, the corresponding intelligent functions can be valid after smart plan is enabled.

Step 1

Select "Setup > Event > Smart Plan". The system will display the interface of "Smart Plan", which is shown in Figure 5-53.



Figure 5-53

Step 2

Click "Save" to complete the config of smart plan.

5.3.4 Intelligence Behavior Analytics

The basic requirements of scene selection

- The total proportion of the target shall not exceed 10% of the image.
- The target size in the image can't be less than 10 pixel ×10 pixel, the size of abandoned target can't be less than 15 pixel × 15 pixel (CIF image); The height and width of the target can't exceed 1/3 of the image; it is recommended that the target height is about 10% of the image height.
- The difference of brightness value between target and background can't be less than 10 gray levels.
- Make sure the target appears at least over 2 seconds continuously in the field; the movement distance has to be bigger than the width of the target itself and makes sure it is no less than 15 pixels (CIF image).
- Try to lower the complexity of the monitoring scene analysis if it is possible; it is not advised to use IVS functions in the environment where the targets are dense and light change is very frequent.

• Try to keep away from the areas such as glass, ground reflected light, water surface, branch, shadow, mosquito disturbance and etc.; try to keep away from the backlight scene to avoid direct light.

5.3.4.1 IVS

5.3.4.1.1 Tripwire

It will trigger alarm when the target crosses the warning line according to the movement direction which has been set.

It needs some time from when the target appears to when the target is confirmed, so it has to leave some space on both sides of the warning line when setting the warning line, please do not set the warning line near the obstructions.

Application scene: it can be applied to the scene with sparse target and there is barely any blocks between the targets, such as the unmanned perimeter protection.

Step 1

Select "Setup > Event > IVS > IVS" and the system will display the interface of "IVS".

Step 2

Click "⁺" to set rule name and select the rule type as "Tripwire" which is shown in Figure 5-54.

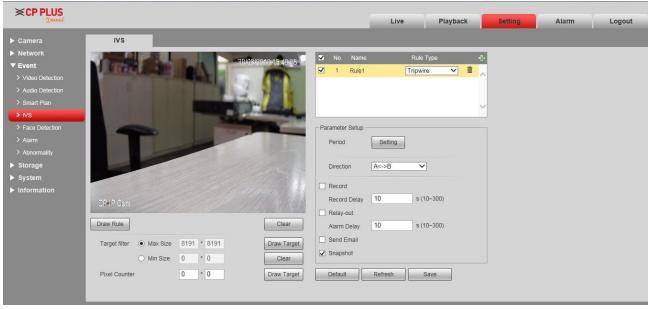


Figure 5-54

Step 3

Click "Draw Rule" to draw tripwire in the monitoring scene, click the right mouse button to complete tripwire setting.

Click "Draw Target" to draw the size model of filtered target in the video image.

Step 5

Click the **Draw Target** behind **Pixel Counter**, then press and hold the left mouse button to draw a rectangular, and then the size of the rectangular would display in the counter.

Step 6

It is to set the parameters of tripwire, please refer to the following sheet for more details.

Parameter	Function	
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. 1. Click "Setup" and the system will pop out the interface of "Working Period". 2. It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). 3. Click "Save" to complete the setup of working period. 	
Direction	It is to set the direction of tripwire, you can select A->B、B->A、A<->B.	
Object filter	 Select the Object filter check box to enable the function, and then select the effective object. Select Human, and then the alarm will be triggered if any target that fits for the human trigger rule in the system is detected. Select Motor Vehicle, and then the alarm will be triggered if any target that fits for the motor vehicle trigger rule in the system is detected. Select no one, and then the alarm will be triggered if any moving object such as human, vehicle, cat, or dog is detected. 	
Record	Check it and so when alarm occurs, system will auto record.	
Record Delay	System can delay the record for specified time after alarm ended.	
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.	
Alarm Delay	System can delay the alarm output for specified time after alarm ended.	
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.	

Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when
	alarm occurs.

Click "Save" to complete the setup of tripwire.

5.3.4.1.2 Intrusion

Intrusion includes cross and appears.

- Cross means that it will trigger alarm when the target enters or exits the area.
- Appears means that it will trigger alarm when the target appears in the area.
- As for the report interval of the IVS function in the area, the system will trigger an alarm if it detects same event happened during the interval; the alarm counter will become zero if there is no same event happened in the interval.

It needs to leave some space for target movement for the area periphery if it is to detect enter & exit event, which is similar to the warning line.

Application scene; it can be applied to the scene where the target is sparse and there is barely any obstruction between the targets, such as the unmanned perimeter protection.

Step 1

Select "Setup > Event > IVS > IVS" and the system will display the interface of "IVS".

Step 2

Click " ^c" to set rule name, select the rule type as "Intrusion" which is shown in Figure 5-55.

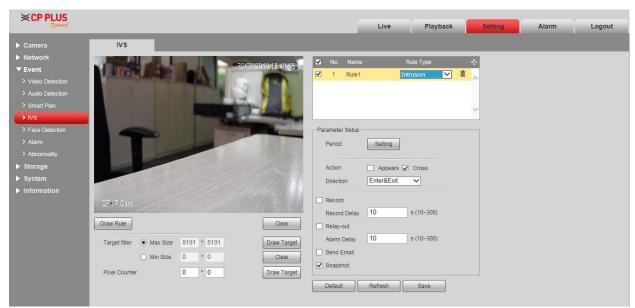


Figure 5-55

Click "Draw Rule" to draw an area in the monitoring image.

Step 4

Click "Draw Target" to draw the size model of filtered target in the video image.

Step 5

Click the **Draw Target** behind **Pixel Counter**, then press and hold the left mouse button to draw a rectangular, and then the size of the rectangular would display in the counter.

Step 6

It is to set the parameters of intrusion, please refer the following sheet for more details.

Parameter	Function
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. 1. Click "Setup" and the system will pop out the interface of "Working Period". 2. It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). 3. Click "Save" to complete the setup of working period.
Action	It is to set the action of intrusion, you can select appears and cross.
Direction	It is to set the direction of intrusion, you can select enter, exit and enter&exit.
Object filter	 Select the Object filter check box to enable the function, and then select the effective object. Select Human, and then the alarm will be triggered if any target that fits for the human trigger rule in the system is detected. Select Motor Vehicle, and then the alarm will be triggered if any target that fits for the motor vehicle trigger rule in the system is detected. Select no one, and then the alarm will be triggered if any moving object such as human, vehicle, cat, or dog is detected.
Record	Check it and so when alarm occurs, system will auto record.
Record Delay	System can delay the record for specified time after alarm ended.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when alarm occurs.

Click "Save" to complete the setup of intrusion.

5.3.4.2 Abandoned Object

Abandoned object means the system will trigger alarm if the abandoned object in the monitoring scene exceeds the time which has been set by the users.

Abandoned object and missing object can be confusing in a situation where both foreground and background are complicated.

It also triggers alarm as abandoned object if there is pedestrian or vehicle staying still for too long. In order to filter this kind of alarm, generally the abandoned object is smaller than people and vehicle; therefore it can filter the people and vehicle via setting size. Besides, it can avoid the false alarm caused by short stay of people via extending alarm time properly.

Application scene: It can be applied to the scene where the target is sparse and there is no obvious and frequent light change. False alarm will be increased in the scene with high target density and frequent blocking; false alarm will be increased in the scene where there are more people staying. As for the detection area, try to make it simple, the function is not suitable for the area which is too complicated.

Step 1

Select "Setup > Event > IVS > IVS" and the system will display the interface of "IVS".

Step 2

Click "⁺" to set rule name, select the rule type as "Abandoned Object" which is shown in Figure 5-56.

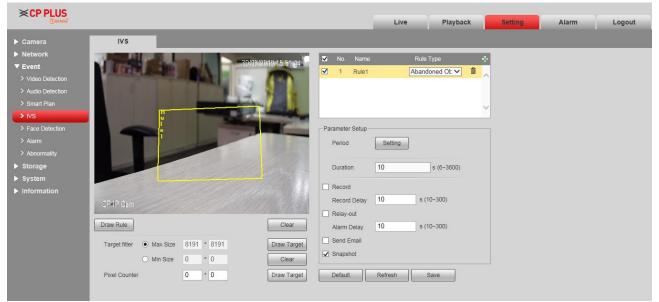


Figure 5-56

Step 3

Click "Draw Rule" to draw an area in the monitoring area.

Click "Draw Target" to draw the size model of filtered target in the video image.

It is to set the parameter of abandoned object, please refer to the following sheet for more details.

Parameter	Function
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). Click "Save" to complete the setup of working period.
Keep time	It is to set the shortest time from when the object is abandoned to when it triggers alarm.
Record	Check it and so when alarm occurs, system will auto record.
Record Delay	System can delay the record for specified time after alarm ended.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when alarm occurs.

Step 5

Click "Save" to complete the setup of abandoned object.

5.3.4.3 Missing Object

Missing object means the system will trigger alarm if it exceeds certain amount of time after the target is taken away from the original scene.

The system can make statistics of the still areas in the foreground area and distinguish if it is missing object or abandoned object according to the similarity between foreground and background, it will trigger alarm when it exceeds the time which is set by users.

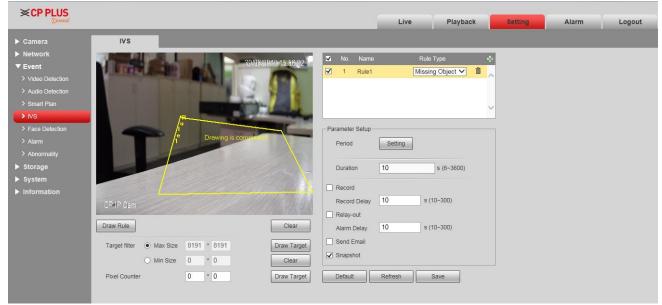
Because the system distinguishes abandoned object from missing object according to the similarity of foreground and background, it may cause error between abandoned object and missing object in a situation where both foreground and background are complicated.

Application scene: it can be applied to the scene where the target is sparse and there is no obvious and frequent light change. False alarm will be increased in the scene where the target density is high and there is frequent obstruction; the false alarm will be increased in the scene where there are more people staying. As for the detection area, try to make it simple, the function is not suitable for the area which is too complicated.

Step 1

Select "Setup > Event > IVS > IVS" and the system will display the interface of "IVS".

Step 2



Click 🔤 to set rule name and select rule type as "Missing Object", which is shown in Figure 5-57

Figure 5-57

Step 3

Click "Draw Rule" to draw an area in the monitoring scene.

Click "Draw Target" to draw the size model of filtered target in the video image.

Step 5

It is to set the parameters of missing object, please refer to the following sheet for more details.

Parameter	Function
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). Click "Save" to complete the setup of working period.
Keep time	It is to set the shortest time from when the object is missing to when it triggers alarm.
Record	Check it and so when alarm occurs, system will auto record.
Record Delay	System can delay the record for specified time after alarm ended.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when alarm occurs.

Step 5

Click "Save" to complete the setup of missing object.

5.3.5 Face Detection

Step 1

Select "Setup > Event > Face Detection" and the system will display the interface of "Face Detection", which is shown in Figure 5-58.

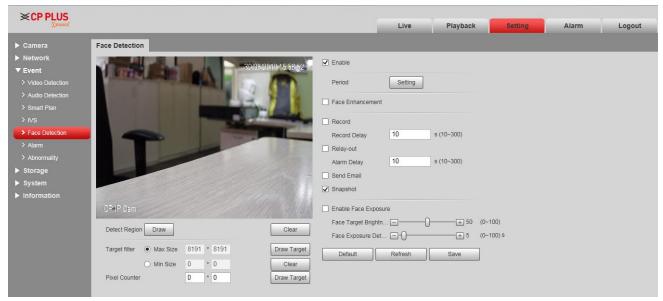


Figure 5-58

Step 2

Select "Enable" to enable face detection function.

Step 3

Click "Draw Target" to draw the size model of target filter in the video image.

Step 4

It is to set the parameters of face detection, please refer to the following sheet for more details.

Parameter	Function
Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. 1. Click "Setup" and the system will pop out the interface of "Working Period". 2. It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). 3. Click "Save" to complete the setup of working period.
Enable Face Enhancement	Select "Enable Face Enhancement" and it will guarantee that the face is clear by priority when the stream is set very low.
Record	Check it and so when alarm occurs, system will auto record.
Record Delay	System can delay the record for specified time after alarm ended.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when alarm occurs.

Click "Save" to complete the setup of face detection.

5.3.6 People Counting

5.3.6.1 People Counting

Step 1

Select "Setup > Event > People Counting > People Counting" and the system will display the interface of "Entrance/Exit", which is shown in Figure 5-59.

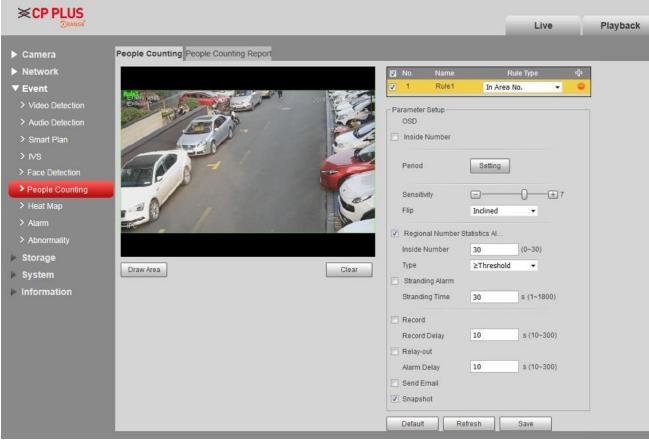


Figure 5-59

Select "Enable" to enable statistics function of entrance and exit.

Step 3

Click "Draw Area" to draw an area in the monitoring image.

Step 4

Click "Draw Line" to draw the size model of filtered target in the video image.

Step 5

It is to set the parameters of entrance and exit, please refer to the following sheet for more details.

Parameter	Function
OSD	Select the Enter No. or Leave No. check box to display the number of the people that enter or leave this area.

Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days). Click "Save" to complete the setup of working period.
Sensitivity	Configure the alarm sensitivity, and the bigger the sensitivity value is, the easier the alarm will be triggered.
Flip	Select from the list to rotate the image, and you can select Inclined or Vertical .
Flowrate Alarm	It is to set the enter number, leave number, stranded number; it will trigger alarm when it exceeds the limited number.
Record	Check it and so when alarm occurs, system will auto record.
Record Delay	System can delay the record for specified time after alarm ended.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when alarm occurs.

Click "Save" to complete the setup of people counting.

5.3.6.2 In Area No.

Step 1

Select "Setup > Event > People Counting > People Counting" and the system will display the **In Area No.** interface, which is shown in the following figure 5-60.



Figure 5-60

Step 2

Select "Enable" to enable statistics function of entrance and exit. \

Step 3

Click "Draw Area" to draw an area in the monitoring image.

Step 4

It is to set the parameters of entrance and exit, please refer to the following sheet for more details.

Parameter	Function
OSD	Select the Inside Number check box to display the number of the people that in this area.

Working Period	 Note: It is to set the alarm period, it can enable alarm event only during the period range which has been set. Click "Setup" and the system will pop out the interface of "Working Period". It is to set working period according to the following methods: You can input time numerical value or press the left mouse button to drag on the setup interface to set. There are six periods to be set every day, select the check box in front of the period, and then the period is valid. Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you
	can also select the check box in front of the week number to implement independent setting for some days). 3. Click "Save" to complete the setup of working period.
Sensitivity	Configure the alarm sensitivity, and the bigger the sensitivity value is, the easier the alarm will be triggered.
Flip	Select from the list to rotate the image, and you can select Inclined or Vertical .
Regional Number Statistics Alarm	 Select the check box to enable this function, and then define the Inside Number and Type. There are two options in the Type list. Select ≥Threshold, and then the alarm will be triggered if the number of the people.in the area is greater than or equal to the defined number. Select ≤Threshold, and then the alarm will be triggered if the number of the people.in the area is lower than or equal to the defined number.
Stranding Alarm	Select the check box to enable this function, and then when people stay in this area for longer than the defined time period, the alarm will be triggered.
Record	Check it and so when alarm occurs, system will auto record.
Record Delay	System can delay the record for specified time after alarm ended.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends. User can set email address in Network>SMTP.
Snapshot	Select "Snapshot" and the system will auto trigger alarm and snapshot when alarm occurs.

Click "Save" to complete the setup of people counting.

5.3.6.3 Report

It is to generate a form of report according to the number statistics.

Step 1

Select "Setup > Event > People Counting > People Counting Report "and the system will display the interface of **People Counting Report**, which is shown in Figure 5-61.

CP PLUS Orange		Live	Playback	Setting	Alarm Logout
▶ Camera	People Counting People Counting Report				
Network	Rule In Area No. 💌				
▼ Event	Rule III Alea No. •				
> Video Detection	Report Type Daily Begin Time 2018-10-23 00:00:00	End Time	2018-10-23	16 : 00 : 0	Daily report max range is 24 hours.
> Audio Detection					
> Smart Plan	Stranding Time				
	Search Export				
Face Detection	Search Export				
People Counting					
> Alarm					
> Abnormality					
Storage					
System					
Information					

Figure 5-61

Step 2

It is to set search condition, please refer to the following sheet for more details.

Parameter	Note
Rule	Select the rule you need.
Report Type	Can select day report, month report, or year report; also can select bar chart or line chart to display the report.
Time	It can set the begin /end time within the range of statistics time.
Stranding Time	This option displays if you select the In-Area No. rule, and you can select the report with the stranding time you need.
Flow Direction	This option displays if you select the People Counting rule, and you can select enter, leave and display number; the data of checked item can be displayed in the report.
Report Type	You can select from Bar Chart report or Line Chart report.

Search	Search flow statistics data according to the setting to form report.
Export	Export the saved report.

Click "Search" to complete report statistics, click "Export" to export the report.

5.3.7 Heat Map

5.3.7.1 Heat Map

It is the density statistics of moving object that can generate report, the color range is from blue to red, blue means the min heat value and red means the max heat value.

Mirroring, view angle change and heat map original data will be cleared.

Step 1

Select "Setup > Event > Heat Map > Heat Map" and the system will display the interface of "Heat Map", which is shown in Figure 5-62.

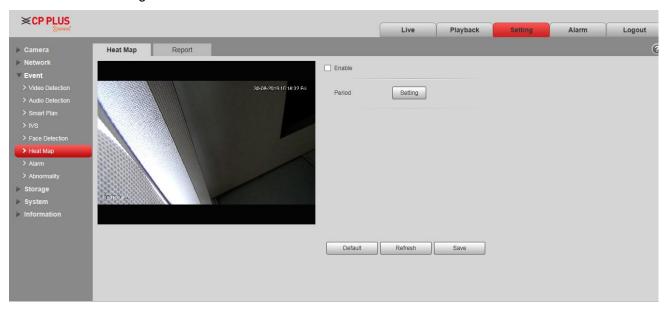


Figure 5-62

Step 2

Select "Enable" to enable heat map function.

Step 3

It is to set the working period.

1. Click "Setup" and the system will display the interface of "Working Period", which is shown in Figure 5-63.

0	2	4	6	8	10	12	14	16	18	20	22	24	
Sunday													Setup
Monday													Setup
Tuesday				<u></u>									Setup
Vednesday													Setup
Thursday													Setup
Friday													Setup
Saturday													
523													Setup
E AII	I Sun	iday Γ	Mond	ay 🗖 Tu	Jesday	□ We	ednesday	Th	ursday	Fri	day	🗆 Satu	
		iday Г : 00 :			uesday : 59 :		ednesday	Г Th	ursday	Fri	day	Satu	
Period 1:	00 :		00	- 23		59	ednesday]	T Th	ursday	Fri	day l	Satu	
All Period 1: Period 2: Period 3:	00 :	00 :	00	- 23	: 59 : : 59 :	59 59	dnesday	Th	ursday	Fri	day l	☐ Satu	
Period 1: Period 2:	00 :	00 :	00	- 23 - 23 - 23	: 59 : : 59 :	59 59 59	ednesday]]]	T Th	ursday	Fri	day	☐ Satu	
Period 1:	00 :	00 : 00 : 00 : 00 :	00 00 00 00	- 23 - 23 - 23	: 59 : : 59 : : 59 : : 59 :	59 59 59 59	ednesday]]]]	T Th	ursday	☐ Fri	day l	Satu	

Figure 5-63

- 2. It is to set working period according to the following methods:
- You can input time numerical value or press the left mouse button to drag on the setup interface to set.
- There are six periods to be set every day, select the check box in front of the period, and then the period is valid.
- Select week number (it selects Sunday by default, if it selects the whole week, then it means the setup can be applied to the whole week, you can also select the check box in front of the week number to implement independent setting for some days).
- 3. Click "Save" to complete the setup of working period.

Click "Save" to complete the setup of heat map.

5.3.7.2 Report

It is to generate the form of report according to the heat map data.

Step 1

Select "Setup > Event > Heat Map > Report" and the system will display the interface of "Report", which is shown in Figure 5-64.



Figure 5-64

It is to set begin time and end time.

Step 3

Click "Search" to complete report statistics, click "Export" to export the statistics report.

5.3.8 Alarm Please note some series products do not support this function.

5.3.8.1 PIR alarm

The alarm activation interface PIR alarm is shown as in figure 5-64.

×CP PLUS		
O RANGE	Live Playback Setting Alarm Logou	t
▶ Camera	PIR Alarm Relay Activation Flash Set Audio Detect	
Network		
▼ Event	Working Period Setup	
> Video Detection	Working Period Setup Anti-Ditther 0 Second (0~100)	
> Audio Detection		
> Smart Plan	₩ Flash	
> IVS	Flash Delay 10 Second (10-300)	
Face Detection	F Record	
> Alarm	Record Delay 10 Second (10-300)	
> Abnormality	₩ Relay-out	
Storage	Alarm Delay 10 Second (10-300)	
System	F Send Email	
Information	F Audio Linkage	
	F Snapshot	
	Default Refresh Save	

Figure 5-64

Parameter	Function
Enable	After enabled, relay activation will work. Check it and enable the PIR alarm.
Working period	 This function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. Click OK button, system goes back to motion detection interface; please click save button to exit. Note: User can set via dragging mouse while not releasing left mouse.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Flash	After enabling, the system will automatically turn on the flash when alarm occurs.

Flash Delay	 The flash will be off with a period of time delay when the alarm linkage is over. Time is calculated by unit of second and ranges from 10s~300s.
Record	System auto activates motion detection channel to record once alarm occurs (working with motion detection function).
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	After this function is enabled, system can send out email to alert you when alarm occurs and ends.
Audio Linkage	Check it and the system will play alarm audio file when alarm occurs. Users can set recorded audio file in "Camera Setting > Audio >Alarm Audio".
Snapshot	After you enabled snapshot, the system will automatically snapshot if alarm occurs.

5.3.8.2 Alarm Linkage

×CP PLUS						
⊡RANGE ²		Live	Playback	Setting	Alarm	Logout
▶ Camera	PIR Alarm Relay Activation Flash Set Audio Detect					
Network	T Enable					
▼ Event	Relay-in Alarm1					
Video Detection	Working Period Setup					
> Audio Detection	Anti-Dither 0 Second (0~100) Sensor Type NO					
> Smart Plan	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					
	Flash Delay 10 Second (10~300)					
> Face Detection	Record					
> Alarm	Record Delay 10 Second (10~300)					
 Abnormality Storage 	Relay-out					
 System 	Alarm Delay 10 Second (10~300)					
 Information 	Send Email					
	T Audio Linkage					
	T Snapshot					
	Default Refresh Save					

Figure 5-65

Parameter	Function
Enable	Check it and enable the alarm linkage.
Relay-in	The default alarm 1, some products can choose alarm 2.
Sensor Type	Two types of sensor which are normally open (NO) and normally closed (NC), switch from normally open to normally closed, open the alarm. Switch from normally closed to normally open, shut the alarm.

5.3.8.2 Flash Set

		Live Playback Setting Alarm Logout
 Camera Network Event Video Detection Audio Detection Smart Plan IVS Face Detection Alarm Abnormality Storage System Information 	PIR Alarm Relay Activation Flash Set Audio Detect OFF Weak	

Figure 5-66

Parameter	Function
ON/OFF	ON means flash is on; OFF means flash is off.
Weak-strong bar	Via dragging this bar to adjust flash brightness.
All	Check and it means the day flash works.
Period	Period that flash is on.

5.3.8.3 Audio detection

Note: Audio detection won't work when "Talk" is enabled on the preview interface.

					Live	Playback	Setting	Alarm	Logout
Camera Network Event Video Detection Audio Detection Smart Plan NVS Face Detection Alarm Athormality Storage System Information	PIR Alarm Flaable Threshold Working Period Flash Flash Delay Record Record Delay Relay-out Alarm Delay Send Email Audio Linkage Snapshot	10 Second	Flash Set	Audio Detect	Live	Playback	setting	Alarm	Logout

Figure 5-67

parameter	Function
Enable	Check it and enable audio detection.
Threshold	It will trigger alarm and set up a series of linkage when volume exceeds the set threshold.

5.3.9 Abnormity

Abnormity includes No SD Card, Capacity Warning, SD Card Error, Disconnection, IP Conflict and Unauthorized Access.

Note:

Only device with SD card function has these three statuses: No SD card, capacity warning, and SD card error. Device without SD card function does not have the above three statuses. See Figure 6-84 to Figure 5-68.

				Live	Playback	Setting	Alarm	Logout
▶ Camera	SD Card	Network Illegal Access						
 Network Event 	Event Type	No SD Card 🗸						
> Video Detection	Enable							
> Audio Detection	Relay-out							
> Smart Plan	Alarm Delay	10 s (10~300)						
> IVS	Send Email							
Face Detection		Default Refresh	Save					
> Alarm								
> Abnormality								
Storage	_							_
System								
Information								



				Live	Playback	Setting	Alarm	Logout
Camera C	SD Card Event Type Enable Relay-out Alarm Delay Send Email	Network Illegal Access SD Card Error 10 s (10-300) Default Refresh	Save	Live	PiayDack	Setting	Alarm	Logout



				Live	Playback	Setting	Alarm	Logout
 Camera Network Event Video Detection Audio Detection Smart Plan IvS Face Detection Aiarm Atormality Storage System Information 	SD Card Event Type Enable Capacity Limit Relay-out Alarm Delay Send Email	Network Illegal Access Capacity Warning ▼ 10 %(0-99) 10 \$ (10-300) Default Refresh] Save	Live	Phayback	Jerning	Aldim	Logout

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Check to alarm when SD card is abnormal.
Relay-out	Check to enable relay-out alarm.
Relay out delay	The alarm output can delay for the specified time after alarm stops. The value ranges from 10s to 300s.
	Note:
	No SD card, capacity warning, SD card error, relay-out delay all start from alarm occurs.
Send email	After you enabled this function, the system can send out email to alarm the specified user.
	This function is invalid when network is offline or IP conflict occurs.
SD Card Capacity Limit	User can set SD card capacity that is left free. When SD card space left is smaller than this limit, alarm occurs.

When device is offline or IP conflicts, the abnormal alarm is similar with case of SD card error.

					Live	Playback	Setting	Alarm	Logout
Camera C	SD Card Event Type Enable Record Record Delay Relay-out Alarm Delay	Network Illegal Access Disconnection ✓ 10 s (10-300) 10 s (10-300) Default Refresh	Save		Live	Playback	Setting	Alarm	Logout
 Storage System 			_	_	_	_	_	_	_
Information									

Figure 5-71

When login password keep been wrong for a few times, unauthorized access alarm occurs. This operation is similar to SD card error. Allow login error times as when it exceeds this limit, user account will be locked.

				Live	Playback	Setting	Alarm	Logout
	SD Card C Enable Login Error Relay-out Alarm Delay Send Email	Network Illegal Access 5 time (3~10) 10 s (10~300) Default Refresh	Save	Live	Playback	Setting	Alarm	Logout
 Abnormality Storage System Information 								

Figure 5-72

5.4 Storage Management

5.4.1 Schedule

Before schedule setup, user must set record mode is auto or manual.

Note:

If record mode in record control is off, then device will not snapshot according to schedule.

5.4.1.1 Record Schedule Record schedule steps:

Step 1. Click on Record Schedule, see Figure 5-73.

											Live		Playback	Setting	Alarm	Logout
	_	_	_	_	_						Live		гаураск	Setting	Alaim	Logour
► Camera	Record	Snaps	shot	Holiday So	chedule											
Network							_	_		_						
Event							Norma									
▼ Storage		0 2	4	68	10	12	14	16 18	20	22	24		_			
> Schedule	Sun											Setting				
> Destination	Mon											Setting				
Record Control	Tue											Setting				
▶ System	Wed											Setting	1			
Information	Thu											Setting	5			
	Fri											Setting				
	Sat												-			
	Holiday											Setting				
	Holiday											Setting				
		Defa	JIT (Refresh		Save										

Figure 5-73

Step 2. From Monday to Sunday select record time, click on setup on the right, see Figure 5-74.

- Set period according to actual need. There are six periods available each day.
- By checking or unchecking, you can add or delete three types of record schedule: General, Motion, and Alarm.

Note:

Period setup can be done by dragging in record schedule interface while not releasing left mouse.

	🖾 Sunday 🗖 Monday	🗖 Tuesday 🗖 Wednesday 🗖 Thursday 🗖 Friday 🗖 Saturday 🗖 Holiday
Period 1:	00 : 00 : 00 -	23 : 59 : 59 🗖 General 🔽 Motion 🖾 Alarm
Period 2:	00 : 00 : 00 -	23 : 59 : 59 General 🗖 Motion 🗖 Alarm
Period 3:	00 : 00 : 00 -	23 : 59 : 59 General 🗖 Motion 🗖 Alarm
Period 4:	00 : 00 : 00 -	23 : 59 : 59 General 🗖 Motion 🗖 Alarm
Period 5:	00 : 00 : 00 -	23 : 59 : 59 General 🗖 Motion 🗖 Alarm
Period 6:	00 : 00 : 00 -	23 : 59 : 59 General Motion Alarm



Step 3. Click on OK, return to record schedule interface. See Figure 5-75.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot.
- Red color stands for the alarm record/snapshot.



Figure 5-75

Step 4. In record schedule interface, click on OK. System prompts it is successfully saved.

5.4.1.2 Snapshot Schedule

Snapshot setup as:

Step 1. Click on Snapshot Schedule tab, see Figure 5-76.

	Live Playback Setting Alarm Logout
▶ Camera	Record Snapshot Holiday Schedule
Network	
▶ Event	🗹 Normal 🗮 🗹 Motion 🚬 🗹 Alarm 📕
▼ Storage	0 2 4 6 8 10 12 14 16 18 20 22 24
> Schedule	Sun
> Destination	Mon Setting
	Tue
▶ System	Wed Setting
Information	Thu
	Set
	Setting
	Holiday
	Default Refresh Save



Step 2. From Monday to Sunday select snapshot time, click on setup on the right. See Figure 5-77.

- Set snapshot period according to actual need. There are six periods available each day.
- By checking or unchecking, user can add or delete three types of snapshot schedule: General, Motion and Alarm.

Note: Period setup can be done by dragging in snapshot schedule interface while not releasing left mouse.

IIA 🗌	🔽 Sunday 🗖 Monday	Tuesday 🗆 Wednesday 🗖 Thursday 🗖 Friday 🗖 Saturday 🗖 Holiday
Period 1:	00 : 00 : 00 -	23 : 59 : 59 🗆 General 🔽 Motion 🔽 Alarm
Period 2:	00 : 00 : 00 -	23 : 59 : 59 🗖 General 🗖 Motion 🗖 Alarm
Period 3:	00 : 00 : 00 -	23 : 59 : 59 🗖 General 🗖 Motion 🗖 Alarm
Period <mark>4</mark> :	00 : 00 : 00 -	23 : 59 : 59 🗖 General 🗖 Motion 🗖 Alarm
Period 5:	00 : 00 : 00 -	23 : 59 : 59 🗖 General 🗖 Motion 🗖 Alarm
Period 6:	00 : 00 : 00 -	23 : 59 : 59 🗖 General 🗖 Motion 🗖 Alarm

Figure 5-77

Step 3. Click on OK, return to snapshot schedule interface. See Figure 5-78.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot.

• Red color stands for the alarm record/snapshot.

	Live Playback Setting Alarm Logout
▶ Camera	Record Snapshot Holiday Schedule
Network	
▶ Event	🗹 Normal 🗮 🗹 Motion 📃 🗹 Alarm 🔳
▼ Storage	0 2 4 6 8 10 12 14 16 18 20 22 24
> Schedule	Sun
> Destination	Mon Setting
	Tue
System	Wed Setting
Information	Thu
	Fri
	Sat Setting
	Holiday
	Default Refresh Save



Step 5. In snapshot interface, click on OK. System prompts it is successfully saved.

5.4.1.3 Holiday Schedule

Holiday schedule can set specific date as holiday.

Step 1. Click on Holiday Schedule tab, see Figure 5-79.

		Live Playback	Setting Alarm Logout
 Camera Network Event Storage Schedule Destination Record Control System Information 	Record Snapshot Holiday Schedule Record Snapshot Catendar Aug 1 2 3 4 5 6 1 2 4 5 6 7 9 10 11 12 12 3 4 5 6 7 9 10 11 12 12 3 24 5 25 26 27 28 28 29 30 31		

Figure 5-79

Step 2. Select date to set as holiday. The selected date will be highlighted in yellow.

Step 3. Check Record/Snapshot, click on Save. System prompts it is successfully saved.

Step 4. Check Record Schedule/Snapshot Schedule interface, click on setup next to Holiday, and refer to setup of Monday to Sunday.

Step 5. Complete setup of holiday, then it records/snapshots according to date in holiday schedule.

5.4.2 Destination

5.4.2.1 Path

The destination interface is shown as in Figure 5-80.

Path can config record and snapshot storage path. There are three options: Local, FTP and NAS. You can only select one mode. System can save according to the event types. It is corresponding to the three modes (general/motion/alarm) in the Schedule interface. Please check the box to enable the save functions.

Note: Only device supports SD card has local.

×CP PLUS									
O RANGE					Live	Playback	Setting	Alarm	Logout
▶ Camera	Path	Local	FTP	NAS					
Network	Record			-	Snapshot				
Event	Event Type	Scheduled	Motion Detection	Alarm	Event Type	Scheduled	Motion Detection	Alarm	
▼ Storage	Local				Local	✓			
> Schedule	FTP			✓	FTP				
Destination	NAS				NAS				
	Defeut	Defeat	0.000						
▶ System	Default	Refresh	Save						
Information									
▶ Information		_	_	_	_	_	_	_	

Figure 5-80

Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	It includes: scheduled, motion detect and alarm.
Local	It saved in the SD card.
FTP	It saved in the FTP server.
NAS	It saved in NAS disk.

5.4.2.2 Local

The local interface is shown as in Figure 5-81.

Here you can view local Micro SD card or NAS disk information. You can also operate the read-only, write-only, hot swap and format operation.

					Live	Playback	Setting	Alarm	Logout
 ▶ Camera ▶ Network 	Path	Local	FTP	NAS					
 Event ▼ Storage 	Name	Status	Attribute		Used Ca	apacity/Total Capaci	ty	_	^
ScheduleDestination									
 Record Control System 									
► Information									~
	Read Only	Read & Write	Hot Swap	Refresh					Format
	-	-	_	_	_	-	_	_	

Figure 5-81

5.4.2.3 FTP

The FTP interface is shown as in Figure 5-82.

You need to check the box to enable the FTP/SFTP function. When network disconnect occurred or there is malfunction. Emergency storage can save the record/snapshot picture to the local SD card. Click the test button to check if the FTP server can be connected for test.

					Live	Playback	Setting	Alarm	Logout
 Camera Network Event Storage Schedule Destination Record Control System Information 	Path Enable Server Address Port Usemame Password Remote Directory Emergency (Local)	Local SFTP(Recommended) FTP 22 anonymity share test Default s	FTP (0~65535)	NAS					
			_			_	_	_	_



5.4.2.4 NAS

You need to check the box to enable the NAS function. Select NAS storage, fill in NAS server address and corresponding store path, then you can store video file or pictorial information in the NAS server. See Figure 5-83.

					Live	Playback	Setting	Alarm	Logout
Camera Network Event Schedule Control Control System Information	Path Enable Server Address Remote Directory	Local NFS 0.0.0 Default	FTP	Save				_	

Figure 5-83

Parameter	Function
Server Address	Set IP address of NAS server.
Remote Directory	Set storage directory, videos and pictures can be stored in to corresponding server directory.

5.4.3 Record control

The record control interface is shown as in Figure 5-84.

CP PLUS					Live	Playback	Setting	Alarm	Logout
Camera Network Event Storage Schedule Constraintion System Information	Record Mode	Min. (1~ s (0-5) arwrite Auto Manual O Off in Stream Default Refresh	120) Save		Live	P tay Jack	Secting	Alaini	Logout
		_	-	-	-	-	-	-	_

Figure 5-84

Parameter	Function
Pack Duration	Here you can select file size within 1min~120min. Default setup is 8 minutes.

Pre-record	Please input pre-record value here.
	For example, system can record the four seconds video in the buffer. The record begins from the fifth second.
	Note:
	Configure pre-record time, when alarm or motion detection occurs, if there is no record, system will record the preceding n seconds record.
Disk Full	 There are two options: stop recording or overwrite the previous files when HDD is full. Stop: Current working HDD is overwriting or current HDD is full, it will stop record. Overwrite: Current working HDD is full; it will overwrite the previous file.
Record mode	There are three modes: Auto/manual/close.
Record stream	There are two options: main stream and sub stream.

5.5 System

5.5.1 General

The General interface is shown as in Figure 5-85.

		Distantion Distantion		-	
		Live Playback	Setting	Alarm	Logout
▶ Camera	General Date&Time				
Network					
▶ Event	Name CP4D0410_G00012				
▶ Storage	Language English V				
▼ System	Video Standard PAL				
> General	TVOut Off 🗸				
> Account	Default Refresh Save				
> Safety	Detaut				
> Default					
> Import/Export					
> Auto Maintain					
> Upgrade					
Information					

Figure 5-85

Parameter	Function
Device	It is to set device name.
Name	Note: Different devices have different names.

Video Standard	This is to display video standard such as PAL.
Language	You can select the language from the dropdown list.
TV Out	You can open or close the function; it can only be supported by the devices with TV Out.
	 Intelligent function will be disabled when TV Out is opened.
	• It will auto close TV Out when intelligent function is enabled.
	• Some devices support SDI and HDCVI.

The date and time interface is shown as in Figure 5-86.

			Live	Playback	Setting	Alarm	Logout
			Live	Playback	setting	Alarm	Logour
▶ Camera	General	Date&Time					
 Camera Network Event Storage System General Account Safety Default Import/Export Auto Maintain Upgrade Information 	General Date Format Time Format Time Zone Current Time DST DST Type Start Time End Time End Time Server Port	Date& Time 24-Hour (UTC+05:30) Chennai, Kolkata, Mumbai, Nev V 2019-08-30 1 16:57:24 Sync PC • Date Week Jan 1 00:00:00 Jan 2 00:00:00 Iclock.ise.org 123					
	Interval	10 Min. (0-30) Default Refresh Save					

Figure 5-86

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
Current Time	It is to set system time. It becomes valid after you set.

Sync PC	You can click this button to save the system time as your PC current time.
DST Enable	Here you can set both begin and end time of daylight saving time. You can set according to the date format or the week format.
Synchronize with NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Update period	It is to set the sync periods between the device and the time server.

5.5.2 Account

- For user name and user group, the max length is 31 characters, which can be made up of digit, letter, underline, hyphen, dot and @.
- Password can be 0~32 characters in number and letter only. User can modify other user's password.
- User and group can be manually added to 18 and 8 respectively.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.
- Currently logged in user cannot change his/her own right.

5.5.2.1 Username

In this interface you can enable anonymity login, add/remove user and modify user name. See Figure 5-87.

					Live Play	back Setting	Alarm	Logout
Camera	Account	Onvif User						
Network								
Event	Anonymous Login							
Storage	Username	Group Name						
System	No.	Username	Group Name		Memo		Modify	Delete
	1	admin	admin		admin 's account		2	•
Account								
> Safety								
Default								
> Import/Export								
> Auto Maintain								
> Upgrade								
Information	Authority							
	User Storage	Live Event	Playback Network	System Peripheral	System Info AV Parameter	Manual Control Security	File Backup Maintenance	
	Storage	Event	Network	Penpheral	Av Parameter	Security	Maintenance	
	Add User							
				_				

Figure 5-87

Enable anonymity login: Enable anonymity login, and input IP. No username or password is required, you can log in by anonymity (with limited rights). You can click logout to end your session. **Add user:** It is to add a name to group and set the user rights. See Figure 5-88.

Hidden user "default" is for system interior use only and cannot be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user.

Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

Add User		×
User Name Password Confirm Password		
Group Remark	admin 💌	
Authority List	All Live Playback Record control Backup	•
	Save Cancel	

Figure 5-88

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-89.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 0-digit to 32-digit. It shall include the number and letter only.

For the user who has the account rights, he can modify the password of other users.

Modify User		×
User Name	admin	
Modify Password		
Group	admin	
Remark	admin 's account	
Authority List	M All	
	M Live	-
	🔽 Playback	
	Record control	
	🖾 Backup	-
	Save Cancel	

Figure 5-89

5.5.2.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 5-90.

					Live Pl	ayback Setting	Alarm	Logout
▶ Camera	Account	Onvif User						
Network								
Event	Anonymous Login							
Storage	Username	Group Name						
▼ System	No.	Group Name admin			Memo administrator group		Modify	Delete
> General	2	user					÷	•
> Account	2	user			user group		<u> </u>	•
> Safety								
> Default								
> Import/Export								
> Auto Maintain								
> Upgrade	Authority							
Information	User	Live	Playback	System	System Info	Manual Control	File Backup	
	Storage	Event	Network	Peripheral	AV Parameter	Security	Maintenance	
						,		
	Add Group							
								_

Figure 5-90

Add group: It is to add group and set its corresponding rights. See Figure 5-91.

Please input the group name and then check the box to select the corresponding rights. It includes: preview, playback, record control, PTZ control and etc.

Group		
Remark		
Authority List	☐ All	
	Live	4
	Playback	-
	Record control	
	E Backup	

Figure 5-91

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-92. Here you can modify group information such as remarks and rights.

Modify Group		×
Group	admin 💌	
Remark	administrator group	
Authority List	🔽 All	
	✓ Live	-
	Playback	
	Record control	
	🔽 Backup	-
	Save Cancel	

Figure 5-92

5.5.3 Safety

5.5.3.1 IP Filter

The IP filter interface is shown as in Figure 5-92.

You can enable IP filter function so that some specified IP/MAC user can access the network camera. You can add IP address or IP segment.

If you do not check the box here, it means there is on access limit.

Here you can add IP address and MAC address. You must add these addresses before enabling the trusted sites.

Please note: You must set MAC address in the same network segment.

					Live	Playback	Setting	Alarm	Logout
▶ Camera ▶ Network	IP Filter	System Service	HTTPS	RTSP Authentication					_
► Event	Trusted Site								
Storage System General Account Safety Default Import/Export Auto Maintain	Trusted S		P address /MAC add	ress		Modify		Delete	
> Upgrade	Add IP/MAC Default	Refresh	Save						Remove All

Figure 5-92

5.5.3.2 System Service

Set the system service for system security.

Step 1

Select "Setting > System > Safety > System Service" and the system will display the interface of System Service. Figure 5-93.

	_	_		-		Live	Playback	Setting	Alarm	Log
	IP Filter Sy	stem Service	HTTPS							
	SSH	Enable								
je	Multicast/Broadcas	t 🖌 Enable								
n	Password Reset	Enable								
	Password Reset	Enable								
	CGI Service	Enable								
/	Onvif Service	Enable								
	Genetec Service	Enable								
t/Export										
Maintain	Audio and Video Tr	r 🗹 Enable	*Please make s	ure matched device o	r software supports v	ideo decryption functio	on.			
ide	Mobile Push	Enable								
ation										
	Default	Refresh	Save							

Figure 5-93

Configure the parameter of system service.

Parameter	Description
SSH	SSH is not enabled by default. You can select the check box to enable SSH for security management.
Multicast/ Broadcast Search	If the function is enabled and when several users are viewing the live image through network at the same time, multicast/broadcast protocol is adopted to search the device.
	The function is enabled by default. You can reset the password if you forget the password. Note
Password Reset	If you disable the function, you can only restore the device to factory default through hardware restore and
	then reset the password.
	CGI service is enabled by default.
	Note
	When CGI service is enabled:
	If https is enabled, CGI can only communicate with the device
CGI Service	through https.
	If https is disabled, CGI can only communicate with the device through http.
	When CGI is disabled, visiting the device through CGI is not
	supported.
	When CGI service is enabled:

oled, CGI can only communicate with ough https. bled, CGI can only communicate with s enabled by default. ervice is enabled: oled, Onvif can only communicate with ough https. bled, Onvif can only communicate with
bled, CGI can only communicate with s enabled by default. ervice is enabled: oled, Onvif can only communicate with ough https.
s enabled by default. ervice is enabled: oled, Onvif can only communicate with ough https.
oled, Onvif can only communicate with ough https.
ough https.
c
bled, Onvif can only communicate with
ough http.
disabled, visiting the device through
pported.
ce is enabled by default.
c service is enabled:
oled, Genetec can only communicate
e through https.
bled, Genetec can only communicate
e through http.
c is disabled, visiting the device
tec is not supported.
the check box to enable the audio and video ncryption function.
the function, make sure the matched
ftware support decryption function.
nction is not supported when
udio and video date between the
nd the third party platform and device
a security, we highly recommend you to
rvice, Onvif service, and Genetec
nction is enabled by default. If the function is arm capture can be sent from the speed dome hone.
the function the sneed down connet
the function, the speed dome cannot
ture, and video record to the mobile

5.5.3.1 HTTPS

Create certificate or upload the authenticated certificate, and then you can connect through HTTPS with your PC. The HTTPS can protect page authenticity on all types of websites; secure accounts; and keep user communications, identity, and web browsing private.

Step 1

Create certificate or upload the authenticated certificate

- If you select **Create certificate**, follow the steps below.
 - 1) Select "Setting > System > Security > HTTPS". The HTTPS interface is displayed.

			Live	Playback	Setting	Alarm	Logout
> Camera IP Filter System > Network Enable HTTPS > Storage Create Certificate > System Create > General Account > Default Certificate Path > Import/Export Certificate Installed > Upgrade Certificate Installed > Information Certificate Installed	m Service HTTPS	Delete Browse Browse	Install	Download			

Figure 5-94

Note

TLSv1.0 is enabled by default.

2) Click Create. The HTTPS dialog box is displayed.

Country	CN	*e.g. CN
P or Domain name		*
alidity Period	365	Day*Range :1-5000
Province	none	
Location	none	
Organization	none	
Organization Unit	none	
Email		

Figure 4-42

3) Enter the required information and then click **Create**. If the operation is correct, then the Create successful prompt is displayed.

Note The entered "IP or domain name" must be the same as the IP or domain name of the device.

4) Click "Install".

★CP PLUS ©range		Live	Playback	Setting	Alarm	Logout
Safety Default Default Import/Export Auto Maintain Upgrade Information Certificate Installed Mutual	Envice HTTPS	Delete Install Browse Browse Delete	Download			

Figure 5-95

5) Click **Download** to download root certificate. The Save as dialog box is displayed.

G Q ♥ ☐ ▶ Libraries ▶	✓ 4 Search Libraries
Organize 🔻	u≓ ▼ (2
📰 Desktop 🚺 Downloads 🗐 Recent Places	Copen a library to see your files and arrange them by folder,
▲ 词 Libraries	Documents Library
 Documents Music Pictures Videos 	Music Library
4 🌉 Computer	Pictures Library
▷ Local Disk (C:) ▷ → DISK1_VOL2 (D:)	Videos Library
DISK1_VOL3 (E;)	-
File name: RootCert.cer	3
Save as type: (*.cer)	
Hide Folders	Save Cancel

Figure 5-96

- 6) Select storage path, and then click **Save**.
- 7) Double-click the "RootCert.cer" icon. The Certificate interface is displayed.

8P	Certificate Information
inst	CA Root certificate is not trusted. To enable trust, all this certificate in the Trusted Root Certification horities store.
2	Issued to: test
	Issued by: test
	Valid from 2016/ 7/ 8 to 2020/ 7/ 7
	Install Certificate Issuer Statemen

Figure 5-97

8) Click Install Certificate. The Certificate import wizard interface is displayed.



Figure 5-98

9) Click Next. Select Trusted Root Certification Authorities.

ertificate Store			
Certificate stores are system areas w	here certificates are	e kept.	
Windows can automatically select a ce the certificate.	ertificate store, or y	ou can specify a	location for
Automatically select the certific	ate store based on	the type of certi	ficate
Place all certificates in the follow	wing store		
Certificate store:			
Trusted Root Certification Aut	thorities	6	Browse
		1	
arn more about certificate stores			
ann more about <u>cer uncate stores</u>			

Figure 5-99

10) Click **Next**. The Completing the Certificate Import Wizard interface is displayed.

<u>a</u>	Completing the Co Wizard The certificate will be importe	ed after you dick Finish.
Y	You have specified the follow Certificate Store Selected b Content	wing settings: ay User Trusted Root Certific Certificate
	۰ <u>ااا</u>	•
	<	

Figure 5-100

11) Click **Finish**. The Security Warning dialog box is displayed.



Figure 5-101

12) Click Yes. The import was successful dialog box is displayed. Click OK to finish download.





- If you select **install signed certificate**, follow the steps below.
 - 1) Select "Setting > System > Security > HTTPS". The HTTPS interface is displayed.

HTTPs			
Enable HTTPs			
Create Certificate			
Create			
Request Created			
Request Created		Delete	Install Download
Install Signed Certifica	ite		
Certificate Path	C:\https\sercer_pem	Browse	
Certificate Key Path	C:\https\servkey.pem	Browse	Upload
Certificate Installed			
Certificate Installed		Delete	
Attribute			
	Refresh Save		
	Save		

Figure 5-103

2) Click "**Browse**" to upload the signed certificate and certificate key, and then, click "upload". To install the root certificate, in "Create certificate"

Step 2

Click Enable HTTPS, and then click OK. The Reboot interface is displayed.



Figure 5-104

Open web browser, and enter <u>https://xx.xx.xx</u> in the address bar, the log in interface is displayed; if certificate is not installed, the certificate error notice is displayed.

Certific	ate Error: Navigation Blocked
8	There is a problem with this website's security certificate.
	The security certificate presented by this website was not issued by a trusted certificate authority.
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
	We recommend that you close this webpage and do not continue to this website.
	Click here to close this webpage.
	Solution to this website (not recommended).
	More information

Figure 5-105

Note

If https is enabled, you cannot visit the device through http. It will switch to https if you visit through http.

5.5.4 Default

The default setup interface is shown as in Figure 5-106.

Please note system cannot restore some information such as network IP address, account and so on.

XCP PLUS							
@RANGE			Live	Playback	Setting	Alarm	Logout
▶ Camera	Default						
Network							
▶ Event	Default	Other configurations will be recovered to default except network IP address, user ma	anagement and so on.				
► Storage	Factory Default	Completely recover device parameters to factory default.					
▼ System		_					
			_	_	_	_	_
> Safety							
> Default							
> Import/Export							
> Auto Maintain							
> Upgrade							
Information							

Figure 5-106

5.5.5 Import/Export

The interface is shown as in Figure 5-107.

CP PLUS						
DRANGE		Live	Playback	Setting	Alarm	Logout
Camera	Import/Export					0
Network						
▶ PTZ	Backup Path					
Event	Import Export					
Storage						
 System 						
> General		_	_		_	
> Account						
> Safety						
> Peripheral						
> Default						
Import/Export						
> Auto Maintain						
> Upgrade						
Information						

Figure 5-107

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding system setup to your local PC.

5.5.6 Auto Maintenance

The auto maintenance interface is shown as in Figure 5-108.

Here you can select auto reboot and auto delete old files interval from the dropdown list.

If you want to use the auto delete old files function, you need to set the file period.

	Live	Playback	Setting	Alarm	Logout
> Camera Auto Maintain > Network ✓ Auto Reboot Everyday ✓ 02 : 00 > Storage △ Auto Delete Old Files > System Manual Reboot > General Account > Account Save > Safety > Default > Import/Export > Auto Maintain > Upgrade > Information					

Figure 5-108

Parameter	Function
Auto Reboot	Check it and set auto reboot time.
Auto Delete Old Files	Check it and set period within 1~31 days.

5.5.7 Upgrade

The upgrade interface is shown as in Figure 5-109.

Please select the upgrade file (file extension is ".bin") and then click the update button to begin firmware update.

Important: Improper upgrade program may result in device malfunction!

		Live	Playback	Setting	Alarm	Logout
			,			
▶ Camera	Upgrade					
Network						
▶ Event	Select Firmware File Browse	Upgrade				
▶ Storage						
▼ System						
> General						
> Account						
> Safety		_	_	_	_	_
> Default						
> Import/Export						
> Auto Maintain						
> Upgrade						
Information						

Figure 5-109

5.6 Information

5.6.1 Version

The version interface is shown as in Figure 5-110.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.

≪CP PLUS							
⊡ RANGE			Live	Playback	Setting	Alarm	Logout
▶ Camera	Version						
Network							
Event	Device Type	CP-UNC-TE4K081ZL5-VM					
Storage	System Version	V2.800.00AT000.0.R, Build Date: 2019-01-25					
▶ System	WEB Version	V3.2.1.679086					
Information	ONVIF Version	16.12(V2.4.3.651299)					
> Version	S/N	CP4D0410CPAG00012					
> Log	Security Baseline V	V1.4					
> Online User							
	Copyright 2008-2019, /	All rights reserved CP PLUS GmbH & Co. KG.					

Figure 5-110

5.6.2 Log

Here you can view system log. See Figure 5-111.

		Live Playback Setting Alarm Logout
Camera Network Event Storage System Information Version Log Online User	Log Remote Log Start Time 2010-08-30 ™ 11:58:25 Type All ✓ Search No. Log Time Usename	Log Type
	Detailed Information Time: Usename: Type: Content: Backup	H 41/1 H T @

Figure 5-111

Please refer to the following sheet for log parameter information.

Parameter	Function
Start time	Set the start time of the requested log. (The earliest time is 2000/1/1)
End time	Set the end time of the requested log. (The latest time is 2037/12/31)
Туре	Log type.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Log information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

5.6.3 Online User

The online user interface is shown as in Figure 5-112.

Here you can view current online user, group name, IP address and login time.

CP PLUS				Live Playback	Setting Alarm	Logout
Camera Network Event Storage System Vinformation Version Log	No: 1	Username admin	User Local Group admin	IP Address 172.16.0.34	User Login Time 31/08/2019 11:42:25	
Online User	Refresh					

Figure 5-112

6 Alarm

Please note some series product does not support this function.

Click alarm function, you can see an interface is shown as in Figure 6-1. Here you can set device alarm type and alarm sound setup.

				Live	Playback	Setting	Alarm	Logout
Alarm Type		No.	Time		Alarm Type		Alarm Channe	9I
Motion Detection	Disk Full							
Disk Error	Video Tampering							
External Alarm	Illegal Access							
Audio Detection	□ IVS							
Scene Changing								
Operation								
Prompt								
Alarm Tone								
Play Alarm Tone								
Tone Path	Browse,							

Figure 6-1

Туре	Parameter	Function
Alarm type	Motion detection	System alarms when motion detection alarm occurs,
	Disk full	System alarms when disk is full.
	Disk Error	System records alarm info when disk error happens.
	Video	System alarms when video is tampering.
	Tampering	
	External alarm	Alarm input device sends out alarm.
	Illegal Access	System alarms when there is illegal access.
	Audio Detection	System alarms when there is audio detect.
	IVS	System alarms when IVS event is triggered.
	Scene Changing	System will record alarm info when triggering scene
		changing.

Operation	Prompt	When alarm is triggered, there will be s inmain menu of alarm interface and system automatically records alarm info. The icon disappears when user click on alarm menu bar. Note: If alarm interface is displayed, when alarm is triggered, there will be no image prompt, but alarm record will be in list on the right.
Alarm Tone	Play Alarm Tone	Click it and select the path of audio file to be played in the tone path, when the subscribed alarm event triggers, it will play the selected audio file to prompt that there is alarm event which has been triggered.
	Tone Path	You can customize the storage path of the alarm tone.

7 Log out

Click log out button, system goes back to log in interface. See Figure 7-1.

Username:	admin	
Password:		
-	Forgot password?	

Figure 7-1

Note

- This manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
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Email id: - sales@cpplusworld.com; support@cpplusworld.com; support@cpplusworld.com; <