

OPI Camera

User Guide

Please read this manual thoroughly before use and keep it handy for future reference.

Before You Begin

Read these instructions before installing or operating this product.

• Note: This installation should be made by a qualified service person and should conform to local codes.

• This manual provides installation and operation information. To use this document, you must have the following minimum qualifications:

- A basic knowledge of CCTV systems and components
- A basic knowledge of electrical wiring, low-voltage electrical connections and IP networking/infrastructure

Intended use

Only use this product for its designated purpose; refer to the product specification and user documentation.

Customer Support

For assistance in installing, operating, maintaining and troubleshooting this product refer to this document and any other documentation provided. If you still have questions, please contact Norbain Technical Support and Sales:

Norbain SD, 210 Wharfedale Road, Winnersh Triangle, Wokingham, Berkshire RG41 5TP, England.

UK +44 (0) 118 912 5000 / Vista Technical Support +44 (0) 118 912 5125

• Note: You should be at the equipment and ready with details before calling Technical Support.

Conventions Used in this Manual

Boldface or button icons highlight command entries. The following WARNING, CAUTION and Note statements identify potential hazards that can occur if the equipment is not handled properly:



* WARNING:

Improper use of this equipment can cause severe bodily injury or equipment damage.



* CAUTION:

Improper use of this equipment can cause equipment damage.

• Note: Notes contain important information about a product or procedure.

This apparatus is manufactured to comply with the radio interference.

CE

A Declaration of Conformity in accordance with the following EU standards has been made. The manufacturer declares that the product supplied with this document is compliant the provisions of the EMC Directive 2004/108/EC, the CE Marking Directive 93/68 EEC and all associated amendments.



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive: 2011/65/EU, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.

* This symbol indicates electrical warnings and cautions.

** This symbol indicates general warnings and cautions.

NORBAIN SD reserves the right to make changes to the product and specification of the product from time to time without prior notice.

WARNINGS AND CAUTIONS:

To reduce the risk of fire or electric shock, do not insert any metallic objects through the ventilation grills or other openings on the equipment.



IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Clean only with dry cloth.
- 6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/accessories specified by the manufacturer.
- 11. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 13. CAUTION THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.
- 14. Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.

CE COMPLIANCE STATEMENT

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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1 Product Range Overview

High resolution 4MP network camera with integrated IR illumination for use in internal and external environments. Supports H.264 and H.265 compression with dual stream encoding that can be configured to a variety of resolutions, bit rates and frame rates.

2 Initial Config

The following section in the manual covers the initial configuration, which includes the initialization process, device login, web interface and password reset.

2.1 Device Initialization

It is essential to implement device initialization when using the camera for the first time. The camera can be initialized via the "config tool" or through a web browser.

Note: In order to guarantee device security, please keep the admin login password in a safe place after the device has been initialized, it is recommended to modify the password regularly.

Config Tool - Initialization

Open the "config tool" on a computer connected to the camera network.

Select ^{III} to enter the search interface where you can find and modify IP address, click ^{OD} to refresh search, the system will display connected devices alongside basic information (default IP, MAC address and firmware version).

Ņ		1	Devi	ces found		•	🗘 Search setting				
(IP)		All	II N	PC 🔳 VR 📃 C	SD	DVR	Uninitialized	IPV4 -			٩
<u> </u>		NO.	Status	Туре	Model	1	P	MAC	Version	Opera	ate
Do.		1	Uninitialized	IPC	IP Camer	а	192.168.1.108	38:af:29:63:ab:41		0	00
×											
T											
	谢 In	itialize	•	Modify IP	* 0 devid	ces selected		📥 Import	≜ Export	+ Add	📋 Delete

Select the devices that need initialization and click Initialize. The system will display the Device Initialization interface, confirmation of devices to be initialized is required.

		1 unit(s) of	device have not b	een initialized	
NO.	Туре	Model	IP	MAC	Version
1	IPC	IP Camera	192.168.1.108	38:af:29:63:ab:41	

Set a new admin user password and email, and then click Initialize.

Username	admin
New Password	
	Weak Medium Strong
Confirm Password	
	The password shall be 8-32 digits. It is a combination of number(s),letter(s),symbol(s) with at least two kinds of them.
Email Address	(for password rese

Parameter	Note
User name	The default user name is admin
Password	The password ranges from 8 to 32 digitals. It can contain letters,
Confirm password	numbers and special characters (excluding "", "", "", ".", "&"). The password shall contain at least two categories. Strong passwords are reccomended.
Email	Input an email address for password reset. If the password is forgetten in the future, you will need to input the security code received via assigned email to reset the admin password.

Click Initialization, the system begins to initialize the device;

- means initialization has been successful
- A means initialization has failed. Click the icon to check more details.

Click OK to complete device initialization.

Web Browser - Initialization

Open Internet Explorer, input camera IP address into the address bar and click Enter. The system will display the Device Initialization interface when connected to for the first time.

The default IP address is 192.168.1.108.

Device Initialization	
Username Password	admin The minimum pass phrase length is 8 characters
Confirm Password	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 ' " ; : &)
Leven and the set of	To reset password, please input properly or update in time.
	Save

Set a new admin user password and email, and then click Save.

Parameter	Note
User name	The default user name is admin
Password	The password ranges from 8 to 32 digitals. It can contain letters,
Confirm password	numbers and special characters (excluding "", "", "", ".", "&"). The password shall contain at least two categories. Strong passwords are reccomended.
Email	Input an email address for password reset. If the password is forgetten in the future, you will need to input the security code received via assigned email to reset the admin password.

P2P QR code will be displayed and the option to disable quick remote setup. Select according to installation requirements and click Next.



From the Online Upgrade screen you can select "Auto-check for upgrade" the system will automatically check for firmware updates daily, this options needs to be set according to the installation requirements.

Online Upgrade
✓ Auto-check for updates
Automatically notify me when updates are available. The system checks for updates daily.
To inform you of the latest formulae unavoidee for your device, we need to sellest device info much as ID address, device name, formulae
version, device SN, etc. All collected info is used only for the purposes of verifying device validity and pushing upgrade notifications.
Save

Click Save and device initialization is completed.

2.2 Login and Logout

After the initialization process and the admin password has been set, open a web browser and enter the device IP address to proceed to the login screen.

2.2.1 Log in via web Interface

The admin user will have full access to make changes within the device configuration.

Open a web browser, input the cameras IP address into the address bar and then press Enter. The Login interface show below will be displayed once the camera is connected.

IP Camera	
Username: admin Password:	Forgot password?
Login Can	cel

Username = admin Password = as per initialization

Click Login.

Note: You will be prompted to install a plug-in when logging into the system for the first time, please download and install the plug-in according to on screen prompts.



Once the plug-in has been installed, the Live video interface will be displayed.

2.2.2 **Logout**

The Logout option is located in the top right corner of the display, selecting Logout will return the user to the web login interface.

2.2.3 Reset Password

If the admin password has been misplaced this can be reset via the email address setup during initialization.

Open internet explorer browser, input camera IP address in the address bar and click Enter. The system will display the Login interface after it is successfully connected.

IP Camera	
Username: admin Password:	Forgot password?
Login Cano	201

Click Forgot password?

The system will display the interface of Reset Password.

Reset the pas SN: 4F023BCY. QR code:	AGOC8D8
	Indee of commonly is a compared with the second secon
	The security code will be delivered to a***@norbain.com
Security code:	
	Cancel Next

Using the mobile APP scan the QR code following the prompts on the reset password interface. A security code will be sent to the registered email address. Input the security code and click Next.

Caution:

- The security code will be valid for a 24 hour period.
- Should you fail to input security code correctly more than three times the reset procedure will need to be restarted.

Prompt	
In order to provide a secure password reset environment, we need to collect your e-mail ad All collected info is used only for the purposes of verifying device validity and sending a security co the operation?	dress, device MAC address, device SN, etc. de to you. Do you agree and want to continue
OK Cancel	

Click Next. The system will display page two of the password reset interface, here a new password can be setup.

Username	admin	
Password	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. (classe de patters patters)	
Confirm Password		

Reset Password then Confirm Password and click Save. The system will return to the login interface.

Parameter	Note	
User name	The default user name is admin	
Password	The password ranges from 8 to 32 digitals. It can contain letters,	
Confirm password	numbers and special characters (excluding "", "", ";", ":", "&"). The password shall contain at least two categories. Strong passwords are reccomended.	
Email	Input an email address for password reset. If the password is forgetten in the future, you will need to input the security code received via assigned email to reset the admin password.	

3 Live

After logging in, you can view video in the live monitor window.



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 bar



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

3.2 System menu

Live	Setting	Alarm	Logout

3.3 Video window function option bar



	Parameter	Function
1	Digital Zoom	Enable the digital zoom operation.
2	Snapshot	Capture and save images.
3	Triple snapshot	Capture a triple snapshot (1 frame per second)
4	Record	Enable manual record
5	Easy focus	AF Peak: Displays the video definition during the focus process.
		AF Max: Is the recommended value for the video definition.
		The closer AF Peak and AF Max are, the better the camera focus.

3.4 Video Window Setup



	Parameter	Function
1	Image Adjustment	Click to display and hide the image adjustment interface.
2	Original Size	Select this option to view the original resolution. It will display at actual size of the video stream
3	Full Screen	Switch to full screen mode. Press "esc" to exit
4	Width / Height	Change / restore aspect ratio.
5	Fluency	There are three levels of fluency for you to select (Realtime, Normal, and Fluency). The default is normal.
6	Zoom and Focus	Zoom focus interface appears on the right side of the preview interface.

3.4.1 Image Adjustment



Parameter		Function	
Video setup	×	Drag slider to adjust monitor video brightness.	Note: • All the operations here apply to
	O	Drag slider to adjust monitor video contrast.	web setup only.
	9	Drag slider to adjust monitor video hue.	
	4	Drag slider to adjust monitor video saturation.	
	Reset	Restore the above to default settings.	

3.4.2 Zoom and Focus

The zoom and focus interface allows for remote configuration of the lens setup, including auto focus.

	Zo	om and	l Focu	S
Zoo	m	Speed	20	~
200			70	- H
Foc	us	Speed	20	
	-)—		- =
Nea	ſ			Far
	3	C Auto	Focus	5
		Restor	e All	
		Refre	sh	

Parameter	Function	
Zoom	Adjust the focal length of the lens.	
Focus	Adjust the sharpness of the lens.	
Auto- focus	Pressing Auto-focus button performs zoom focus calibration.	
Reset All	Resets the lens to the default position.	
Refresh	Synchronize the slider with the position of the lens and zoom focus.	

4 Playback (not applicable to all models)

Web client supports video playback and snapshot review.

Note: Before playback, storage management will need to be configured.

4.1 Playback



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



Parameter Function		Function
1	Play	Forward play of video clips
2	Stop	Stop the video playing.
3	Play-by- frame	When video is paused play-by-frame can be selected.
4	Slow	Reduce play speed.
5	Quick	Fast forward / increase play speed.
6	Silent	Mute audio.
7	Volume	Slide to adjust volume level.

4.1.2 Playback File

In the calendar view, blue represents recorded data - video record or snapshot.



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

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

Click on certain time on progress bar, playback starts from this time.

15.35 15.40 15.45 15.50 15.55 16.00 16.05 16.10 16.15 16.20 16.25 16.30 16.35 Stop Record Type J Al J General J J Event, J J Manual J Manual J

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

Double click on file in list, playback this file and display file size, start time and end time.



Parameter	Function
م	Select start and end time, click search to go.
Record Format	dav or mp4
0	 Click to download a file. The system does not support download and playback at the same time.
+	Click to go back to the calendar interface.

4.1.3 Playback Clips

Note:

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

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

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

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

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

Click on Save button to save file.

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.

	Record Type 🗹 All	🗹 General 📕	🗹 Motion 📒	🗹 Alarm 📕	🗹 Manual 📕	
--	-------------------	-------------	------------	-----------	------------	--

4.1.5 Progress Bar



4.1.6 Assistant Function



Parameter	Function
Digital Zoom	Enable the digital zoom.
Snapshot	Capture and save still images.

4.1.7 Snapshot Type

By selecting jpeg in the drop-down section, users will able to choose the snapshot type.



5 Setup

Web client camera setup.

5.1 Camera

The camera settings include; conditions, profile management, zoom and focus.

5.1.1 Conditions

5.1.1.1 Picture

Select Setup > Camera > Conditions > Picture



Parameter	Note
Style	Sets the picture style, which includes standard, soft and vivid.
Brightness	Drag slider to adjust brightness.
Contrast	Drag slider to adjust contrast.
Saturation	Use the slider to adjust the colour darkness and lightness. Lowe values mean less colour saturation.
Sharpness	Set the amount of sharpening applied to the image. A sharper image might increase image noise in low light conditions. A lower setting reduces noise, but the image would be less sharp.

Parameter	Note				
Gamma	Set to improve the dynamic display range.				
Mirror	Enabled to mirror the image.				
Flip	 Allows the camera image to be flipped. Normal: No change to the display. 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. 				

5.1.1.2 **Exposure**

Setup > Camera > Conditions > Exposure



Parameter	Note
Anti-flicker	 Outdoor: To be selected when the camera is installed outside. 50Hz: For when the supplied power is 50Hz. 60Hz: For when the supplied power is 60Hz.
Mode	 When "Anti-flicker" is set for "Outdoor", the "exposure mode" can be set as "gain priority" or "shutter priority" mode. Auto: Will automatically adjust the image brightness according to the environment. Gain priority: The device can auto adjust according to the gain range. 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. 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 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. Manual: It is to manually set gain value and shutter value, adjust the the displayed brightness of the image.
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.
Grade	It can set the parameter when "3D NR" is enabled. The bigger the grade is, the better NR effect it can realize.

5.1.1.3 Backlight

Parameter	Note
BLC	Set the mode to enable backlight compensation
HLC	Set the mode to enable highlight compensation mode
WDR	It can suppress the overbright area and compensate darker area by enabling WDR, which can make the overall image clear.

Setup > Camera > Condition > Backlight



- 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 the process of removing unrealistic colour, so that objects which appear white in person are rendered white in the image.

Setup > Camera > Conditions > WB



Select one of five different modes which fits the cameras installation environment.

5.1.1.5 Day & Night

User can setup Day & Night operation mode among Auto, Colour, and B/W.

Setup > Camera > Conditions > Day & Night



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.

5.1.1.6 IR Light

Setup > Camera > Conditions > IR Light



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.
 - 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.

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

5.1.1.7 Profile Management

Setup > Camera > Conditions > Profile Management

Set profile management.

▼ Camera	Conditions Profile Management Zoom and Focus	
> Conditions		
> Video		
Network	Always Enable Day	
Event	Default Refresh Save	
Storage		
System		
▶ Information		

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

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.

5.1.1.8 Zoom and Focus

Note: Only motorised vari-focal devices support focus and zoom function.

Setup > Camera > Conditions > Zoom and Focus



Adjust the focal length of the lens.

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

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

Setup > Camera > Video > Video

▼ Camera	Video	Snapshot	Overlay	Path					
> Conditions	-		-						
> Video	Main Stream					Sub Stream			
Network						Enable			
▶ Event	Encode Mode	H.265	~			Encode Mode	H.265	\checkmark	
Storage	Smart Codec	On	~			Resolution	704*480(D1)	~	
▶ System	Resolution	2560*1440(2560x1440) 🗸			Frame Rate(FPS)	20	\sim	
Information	Frame Rate(FPS)	20	~			Bit Rate Type	CBR	\checkmark	
	Bit Rate Type	CBR	~			Reference Bit Rate	147-1024Kb/S		
	Reference Bit Rate	768-6144Kb/s	3			Bit Rate	1024	✓ (Kb/S)	
	Bit Rate	2048	✓ (Kb/S)			I Frame Interval	40	(20~150	1)
	✓ Watermark Setting								
	Watermark Charac	er DigitalCCT	/						
		Default	Refresh	Save					

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.

Parameter	Function	
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. 1O+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 + 4 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, both the sub image and sub boxes in the original image support zoom and movement. 2R: Original image + 2 independent sub images, both the sub image and sub boxes in the original image support zoom and movement. 2R: Original image + 1 independent sub images, both the sub image and sub boxes in the original image 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 support zoom and movement. 2R: Original image + 2 independent sub images, the sub boxes of the original image or support zoom and movement. 2R: Original image + 2 independent sub images, the sub boxes of the original image or support zoom and movement, which can change the vertical angle of view. 	
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.	
Parameter	Function	
------------------	--	
Code-Stream Type	ACF means using different fps to record. 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.	
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.	

Parameter	Function		
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.		

- 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".

5.1.2.1 Snapshot

🔻 Camera	Video	Snapshot	Overlay	Path	
> Conditions	Snapshot Type	General	~		
> Video	Image Size	2560x1440 (256	0*1440)		
Network	Quality	5	~		
Event	Interval	10			
Storage	Interval	13			
System		Default	Refresh	Save	
Information					

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.

5.1.2.2 Video Overlay







▽ Camera	Video	Snapshot	Overlay	Path			
> Conditions			-		_		
> Video					 Privacy Masking 	 Enable Disable 	
Network					► Channel Title	Input Text:	
▶ Event				09-10-2018 09:34:50	▶ Time Title		
Storage					► Text Overlay		
System			Variation.				
Information	IPC Default	Refresh	Save			Text Align Right	~

E.

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.

5.1.2.3 Path

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.

 $The \ default \ playback \ download \ path \ is \ C: \ Users \ admin \ Web \ Download \ Playback \ Record.$

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.

T Camera	Video	Snapshot	Overlay	Path	
> Conditions	Live Snapshot	C:\Users\Alex S	tevens\WebDownload	LiveSnapshot	Browse
> Video	Live Record	C:\Users\Alex S	tevens\WebDownload	LiveRecord	Browse
Network	Playback Snanshot	C:\Users\Alex S	tevens\WebDownload	PlaybackSnapshot	Browse
Event	Playback Download	C:\Llsors\Alox S	tevens\WebDownload		Browse
Storage	Video Clina	C:\Ueers\Alex C	tevens/WebDownload	WideaClina	Browse
System	video Clips	C.IUSEISMIEX 3	levenswebDownload	WideoClips	Blowse
Information		Default	Save		

5.2 Network

5.2.1 **TCP/IP**

The TCP/IP interface 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.

Camera	TCP/IP	
▼ Network		
> TCP/IP	Host Name	IPC
> Port	Ethernet Card	Wire(Default)
> PPPoE	Mode	Static O DHCP
> DDNS	MAC Address	38 af 29 63 ab 41
> SMTP(Email)	IR Varsion	
> UPnP	ID Address	
> Bonjour	IF Addless	
> Multicast	Subnet Mask	255. 255. 255. 0
> 802.1x	Default Gateway	
> QoS	Preferred DNS	8.8.8.8
> Access Platform	Alternate DNS	8.8.4.4
▶ Event	Enable ARP/Ping to s	set IP address service
Storage		Default Refresh Save
System		
Information		

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.

IP Address	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.		
Preferred DNS	DNS IP address.		
Alternate DNS	Alternate DNS IP address.		
Enable ARP/Ping set	You can use ARP/Ping command to modify or set the device IP address if you know the device MAC address.		
device IP address	Before the operation, please make sure the network camera and the PC in the same LAN. This function is on by default.		
service.	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> ping –I 480 –t <ip address=""> Such as: arp -s 192.168.0.125 11-40-8c-18-10-11 ping -I 480 -t 192.168.0.125</ip></mac></ip>		
	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 		

5.2.2 **PORT**

Camera	Port		
> TCP/IP	Max Connection	10	(1~20)
> Port	TCP Port	37777	(1025~65534)
> PPPoE	UDP Port	37778	(1025~65534)
> DDNS	HTTP Port	80	
> SMTP(Email)	RTSP Port	554	
> UPnP	HTTPS Port	443	
> Bonjour			
> Multicast		Default	Refresh Save
> 802.1x			
> QoS			
> Access Platform			
Event			
Storage			
▶ System			
► Information			

Parameter	Function
Max connection	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 37777. You can input the actual port number if necessary.
UDP port	Port range is 1025~65534. The default value is 37778. 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=					
	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.

5.2.3 PPPoE

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 dial-up.

▶ Camera	PPPoE	
T Network		
> TCP/IP	Enable	
> Port	Username	none
> PPPoE	Password	
> DDNS		Default Defrech Save
> SMTP(Email)		Delault
> UPnP		
> Bonjour		
> Multicast		
> 802.1x		
> QoS		
> Access Platform		
▶ Event		
Storage		
▶ System		
Information		

5.2.4 **DDNS**

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.

▶ Camera	DDNS	
Network		
> TCP/IP	🗌 Туре	NO-IP DDNS V
> Port	Address	dynupdate.no-ip.com
> PPPoE	Domain Name	none test
> DDNS	Username	none
> SMTP(Email)	Password	••••
> UPnP	Interval	1440 Min.(1440~2880)
> Bonjour		
> Multicast		Default Refresh Save
> 802.1x		
> QoS		
> Access Platform		
▶ Event		
▶ Storage		
▶ System		
► Information		

Parameter	Function
Server Type	Click it to select DDNS protocol type, which includes: CN99 DDNS, NO-IP DDNS, Dyndns DDNS, Quick DDNS, the default is Quick 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.

Parameter	Function
Server Type	You can select CN99 DDNS protocol
Server Address	Under CN99 DDNS, the default server address is "www. 3322. org".
Domain Name	Self-defined domain name
Username	The user name you input to log in the server.
Password	The password you input to log in the server
Refresh Period	The refresh period of the connection between the device IP and the server, default is 10 minutes.

5.2.5 **SMTP** (e-mail)

▶ Camera	SMTP(Email)	
T Network		
> TCP/IP	SMTP Server	none
> Port	Port	25
> PPPoE	Anonymity	
> DDNS	Username	anonymity
> SMTP(Email)	Password	••••
> UPnP	Sender	none
> Bonjour		
> Multicast	Authentication	TLS
> 802.1x	Title	IPC Message 🗹 Attachment
> QoS	Mail Receiver	+
> Access Platform		
▶ Event		
Storage	Upatth Mail	Undate Period 60 Sec (1-2600)
▶ System		opulate relified 00 Sec. (1-5000)
Information		Test
		Default Refresh Save

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.

Parameter	Function
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.

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.

amera	UPnP						
etwork							
тсрлр	Enable Mode C	ustom V Router State Mapping Failed					
Port	Start deviceDiscover						
PPoE	Port Mapping List						
DNS		Service Name	Protocol	Internal Port	External Port	Status	Modify
MTP(Email)	M	HTTP	WebService:TCP	80	8080	Mapping Failed	
PnP		TCP	PrivService:TCP	3/7/7	37777	Mapping Failed	<u> </u>
njour		OUP	PrivService.0DP	31118	31118	Mapping Failed	
ulticast		RISP	RTSPService.TCP	554	554	Mapping Failed	4
2.1x							
s							
ess Platform							
ıt							
ade	Default Refresh	Save					
tem							

5.2.7 Bonjour

The Bonjour interface is shown as below.

Bonjour is based on the multicast DNS service from 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.

▶ Camera	Bonjour	
Network		
> TCP/IP	Enable	
> Port	Server Name	4F023BCYAG0C8D8
> PPPoE		Default Refresh Save
> DDNS		
> SMTP(Email)		
> UPnP		
> Bonjour		
> Multicast		
> 802.1x		
> QoS		
> Access Platform		
Event		
Storage		
System		
▶ Information		

5.2.8 Multicast

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.

Camera	Multicast			
Network				
> TCP/IP	Main Stream		Sub Stream	
> Port	Enable		Enable	
> PPPoE	Multicast Address 224	1 . 2 . 4 (224.0.0.0~239.255.255.255)	Multicast Address	224 . 1 . 2 . 4 (224.0.0.0~239.255.255.255)
> DDNS	Port 4000	0 (1025~65500)	Port	40016 (1025~65500)
> SMTP(Email)				
> UPnP				
> Bonjour		Default Refresh Save		
> Multicast				
> 802.1x				
> QoS		i i		
> Access Platform				
▶ Event				
Storage				
 System 				
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.	

5.2.9 **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.

Camera	802.1x	
Network		
> TCP/IP	Enable	
> Port	Authentication	PEAP 🗸
> PPPoE	Username	none
> DDNS	Password	••••
> SMTP(Email)		Default Defeat Cour
> UPnP		Delaut Reliesti Save
> Bonjour		
> Multicast		
> 802.1x		
> QoS		
> Access Platform		
▶ Event		
Storage		
▶ System		
▶ 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.

5.2.10 **QoS**

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.

▶ Camera	QoS			
Network				
> TCP/IP	Realtime Monitor	0	(0~63)	
> Port	Command	0	(0~63)	
> PPPoE		Default	Refresh	Save
> DDNS				
> SMTP(Email)				
> UPnP				
> Bonjour				
> Multicast				
> 802.1x				
> QoS				
> Access Platform				
▶ Event				
Storage				
System				
▶ 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.

5.2.10.1 **P2P**

Click "Enable" to connect the device to network, and then you can connect to the device via mobile client of Easy4ip after "Online" is displayed on the interface (connection mode: add device serial number or scan QR code).



5.3 Event

Setup > Event > Video Detection > Motion Detection

▶ Camera	Motion Detection	Video Tamper	Scene Changing	
▶ Network ▼ Event	Enable			
Video Detection Abnormality Storage System	Period Anti-Dither Area	Setting 5 Setting	Sec. (0~100)	
▶ Information	 Record Record Delay Send Email Snapshot 	10	Sec. (10~300)	
		Default	Refresh	Save

Select "Enable" to enable motion detection function.

Set motion detection area.

1. Click "Setup" and the system will pop out the interface of "Setting Area.



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 colours 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.

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, 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 colours 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 wher alarm occurs and ends. User can set email address in Network>SMTP.

Parameter	Function
Audio linkage	Check it and the system will play alarm audio file when alarm occurs.
]	Users can set the recorded or uploaded audio file in "camera setting \geq
	audio $>$ alarm audio".
Flash linkage	Check it and the flash will be on when alarm occurs, and the flash will
1 laon milago	be off until the end of alarm after corresponding delay.
PT7	 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
Chaponot	detection snapshot file. You shall set snapshot period in
	Storage>Schedule.

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

5.3.1.1 Video Tampering

Setup > Event > Video Detection > Video Tampering



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.

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). 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 wher 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. Users 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 setup of video tampering.

5.3.1.2 Scene Changing

Setup > Event > Video Detection > Scene Changing



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

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, 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.

Parameter	Function
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 wher alarm occurs and ends. User can set email address in Network>SMTP.
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 setup of scene changing.

5.3.2 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.

▶ Camera	SD Card	Network	Illegal Access	Voltage Detection
Network	-			
▼ Event	Event Type	No SD Card	~	
> Video Detection	Enable			
> Abnormality	Send Email			
Storage		Default	Refresh	Save
System				
Information				

Parameter	Function
Enable	Check to alarm when SD card is abnormal.
Relay-out	Check to enable relay-out alarm.

Parameter	Function
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.

► Camera	SD Card	Network Illegal Access Voltage Detection
Network		
▼ Event	Event Type	Disconnection V
> Video Detection	Enable	
> Abnormality	Record	
Storage	Record Delay	10 Sec. (10~300)
System		Default Defrech Source
Information		Deraunt Kellesh Save

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.

► Camera	SD Card	Network	Illegal Access	Voltage Detection
Network				-
▼ Event	Enable			
> Video Detection	Login Error	5	time (3~10)	
> Abnormality	Send Email			
Storage		Default	Refresh	Save
System				
Information				

5.4 Storage Management (only available on selected models)

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:

Click on Record Schedule.

▶ Camera	Record	Snapsh	ot	Holida	ay Sche	edule								
Network	-			-										
▶ Event								Ger Ger	neral 📕	Mc	otion	✓ Alar	m 📕	
▼ Storage		0 2	4	6	8	10	12	14	16	18	20	22	24	
> Schedule	Sun													Setting
> Destination	Mon													Setting
> Record Control	Tue													Setting
▶ System	Wed													Setting
Information	Thu													Setting
	Fri													Setting
	Sat													Setting
	Holiday													Setting
		Default		Ret	fresh		Sav	/e						

From Monday to Sunday select record time, click on setup on the right.

- 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

Click on OK, return to record schedule interface.

- 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.

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

5.4.1.2 **Snapshot Schedule**

Snapshot setup as:

Click on Snapshot Schedule tab.



From Monday to Sunday select snapshot time, click on setup on the right.

- 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.

	🔽 Sunday	Mond	lay	Tuesday	Vednesday 🗖	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		

Click on OK, return to snapshot schedule interface.

- 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.

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,

▶ Camera	Record		Sr	apsho	t	Holida	ay Schedule
Network							
▶ Event	Recor	d 🗌 Si	napshot	I			
	Calenda	ar				Nov	~
> Schedule							
> Destination	Sun	Mon	Tue	Wen	Thu	Fri	Sat
> Record Control					1	2	3
▶ System	4	5	6	7	8	9	10
► Information	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	
						2	
	Refr	esh		Save			

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

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

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

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

5.4.2 **Destination**

5.4.2.1 Path

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.



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

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



5.4.2.3 FTP

The FTP interface is shown as in

You need to check the box to enable the FTP 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.

▶ Camera	Path	Local	FTP	NAS
 Network Event Storage Schedule Destination Record Control System Information 	Enable Server Address Port Username Password Remote Directory Emergency (Local)	SFTP(Recommended 0.0.0.0 22 anonymity share) (0~65535)	
		Lest Default	Refresh S	ave

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.

▶ Camera	Path	Local	FTP	NAS
 Network Event Storage Schedule 	Enable Server Address Remote Directory	0.0.0.0		
Destination Record Control System Information		Default	Refresh Sa	ave

Parameter	Function
Server Address	Set the IP address of the server.
Remote Directory	Assign a storage directory, videos and pictures will be stored in the corresponding server directory.

5.4.3 Record control

▶ Camera	Record Control		
Network			2
▶ Event	Pack Duration	10	Min. (1~120)
▼ Storage	Pre-event Record	5	Sec. (0~5)
> Schedule	Disk Full	Overwrite 🗸]
> Destination	Record Mode	● Auto ○ Manual ○ O	ff
> Record Control	Record Stream	Main Stream 🗸]
System			5+++) 0+++
Information			save
2			

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

▶ Camera	General	Date&Time
Network		
▶ Event	Name	4F023BCYAG0C8D8
► Storage	Language	English V
🔻 System	Video Standard	NTSC V
> General		Default Refresh Save
> Account		
> Security		
> Default		
> Import/Export		
> Auto Maintain		
> Upgrade		
▶ Information		

Parameter	Function
Device Name	It is to set device 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.

▶ Camera	General	Date& Time
Network		
▶ Event	Date Format	DD-MM-YYYY V
▶ Storage	Time Format	24-Hour 🗸
▼ System	Time Zone	GMT+08:00 V
> General	Current Time	09-10-2018 10 : 09 : 50 Sync PC
> Account	DST	
> Security	DST Type	Date Week
> Default	Start Time	Jan 🗸 1 🗸 00 : 00 : 00
> Import/Export	End Time	Jan V 2 V 00 : 00 : 00
> Auto Maintain	□ NTP	
> Upgrade	Server	clock isc org
Information	Dert	100
	FUIL	125
	Interval	10 Min. (0~30)
		Default Refresh Save

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.

► Camera	Account	Onvif User										
Network												
⊳ Event	Anonymous Logi	n										
Storage	Username	Group Name										
🔻 System	No.		Username	Group Narr	18		Men	no		Modify	Delete	4
> General			aumin	admin			admin s a	account			•	1
> Account												1
> Security												1
> Default												1
> Import/Export												1
> Auto Maintain												1
> Upgrade												4
► Information	Authority											
	User	Live	Playback	System	System Info	File Backup	Storage	Event	Network	Peripheral	AV Parameter	
	Security	mainenarice										
												1
	Add User											

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.

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	X
Username	test
Password	•••••
	Strong
Confirm Password	Password pet Metched
Group Name	
Memo	
Authority	All
	☑ User
	☑ Live
	✓ Playback
	System
	Save Cancel

Modify user

It is to modify the user property, belonging group, password and rights.

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		×
Username	test 🗸	
Modify Password		
Group Name	admin 🗸	
Memo		
Authority	☑ All	
	Vser	~
	✓ Live	
	Playback	
	✓ System	•

5.5.2.2 Group

The group management interface can add/remove group, modify group password and etc.

▶ Camera	Account	Onvif User			
Network	-				
► Event	Anonymous Lo	ogin			
Storage	Username	Group Name			
⊤ System	No.	Group Name	Memo	Modify	Delete
> General	1	admin	administrator group		•
> Account	2	user	user group		•
> Security					
> Default					
> Import/Export					
> Auto Maintain					
> Upgrade					
Information	Authority				
	Live	Playback			

Add group: It is to add group and set its corresponding rights.

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.

Add Group		X
Group Name	Must	
Memo		
Authority	All	
	Live	
	Playback	
	System	
	System Info	×
	Save Cancel	

Modify group

Here you can modify group information such as remarks and rights.

Modify Group		×
Group Name	user 🗸	
Memo	user group	
Authority	All	
	✓ Live	~
	Playback	
	System	
	System Info	~
	Save Cancel	

5.5.2.3 **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.

▶ Camera	Account	Onvif User				
Network						
▶ Event		No.	Username	Group Name	Modify	Delete
▶ Storage		1	admin	admin	1. A 1.	0
🔻 System						
> General						
> Account						
> Security						
> Default						
> Import/Export						
> Auto Maintain	Add User					
> Upgrade						
Information						

5.5.3 IP filter

Camera	IP Filter	System Service	HTTPS			
Network		ojolom controc				
Event	Trusted Site	s				
Storage	Trusted S	ites				
⊤ System			_	P address MAC address	 Modify	Delete
> General						
> Account						
> Security						
> Default						
> Import/Export						
> Auto Maintain						
> Upgrade						
Information	Add IP/MAC					Remove All
	Default	Refresh	Save			

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.

5.5.4 **HTTPs**

In the HTTPs setting interface, users can make PC log in normally via HTTPs by creating certificate or uploading signed certificate, which is to guarantee the security of communication data and provide safeguard for user information and device security with reliable and stable technical means.

Create certificate or upload the signed certificate.

- Please refer to the following steps if you select "Create Certificate".
- 1. Select "Setup > Network > HTTPs", and the system will display the interface of HTTPs.

▶ Camera	IP Filter System	Service HTT	PS			
Network						
▶ Event	Enable HTTPS					
Storage	Create Certificate					
▼ System	Create					
> General	Request Created					
> Account	Request Created			Delete	e Install	Download
> Security	Install Signed Certificate					
> Default						
> Import/Export	Certificate Path			Browse	<u></u>	
> Auto Maintain	Certificate Key Path			Browse	e Upload	
> Upgrade	Certificate Installed					
► Information	Certificate Installed			Delet	e	
	Attribute	Refresh	Save			

2. Click "Create" and it will pop out the dialog box of "HTTPs".

Country	CN	*e.g. CN
P or Domain name	10.15.15.211	*
/alidity Period	365	Day*Range :1-5000
Province	none	
Location	none	
Organization	none	
Organization Unit	none	
Email		

3. Fill in corresponding "Country", "Province" and some other information, click "Create" after filling in. It will show the prompt of "Create Successfully", which means the server certificate has been successfully created.

SYSTEM SETTING ON MY VERSION Note:

Make sure the "IP or domain name" is the same as that of the device.

4. Click "Install" and it will install the certificate on the device end.

5. Click "Download". It will pop out the dialog box of "Save as", save the file into the computer.

🏉 Save As			×
🚱 🗢 🧊 + Libraries +	•	← Search Librarie	rs 🔎
Organize 🔻			
E Desktop Downloads Recent Places	Deen a library to see y	our files and arrange	them by folder,
▲] Libraries	Library		
Documents Music Dictures	Music		
Videos	Pictures Library		
 ▲ I Computer ▷ ▲ Local Disk (C:) ▷ □ DISK1_VOL2 (D:) 	Videos Library		
DISK1_VOL3 (E:)	-		
File name: RootCert.cer			-
Save as type: (*.cer)			•
Hide Folders		Save	Cancel

6. Double click the downloaded icon of "RootCert.cer". The system will display the information interface of "Certificate".

Certificate					
General Details Certification Path					
Certificate Information					
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.					
Issued to: test					
Issued by: test					
Valid from 2016/ 7/ 8 to 2020/ 7/ 7					
Install Certificate Issuer Statement					
ОК					

7. Click "Install Certificate" and it will pop out the interface of "Certificate Import Wizard.



8. Click "Next". Select "Trusted Root Certification Authorities".

Contificate store	ubara cartificatas ar	a kaat	
Certificate stores are system areas v	where certificates ar	е керт.	
Windows can automatically select a c the certificate.	certificate store, or y	you can specify a	location for
Automatically select the certific	icate store based on	the type of cert	ificate
Place all certificates in the following place and certificates in the following pla	owing store		
Certificate store:			
Trusted Root Certification Au	uthorities		Browse
earn more about <u>certificate stores</u>			

9. Click "Next". The system will display the interface of "Completing the Certificate Import Wizard".

Certificate Import Wizard		×
	Completing the Certifi Wizard The certificate will be imported after	cate Import
Y	Certificate Store Selected by User Content	tings: Trusted Root Certifica Certificate
	<	Þ
	< Back F	inish Cancel

10. Click "Finish", and it will pop out the dialog box of "Security Warning.

Security W	/arning
	You are about to install a certificate from a certification authority (CA) claiming to represent:
	test
	Windows cannot validate that the certificate is actually from "test". You should confirm its origin by contacting "test". The following number will assist you in this process:
	Thumbprint (sha1): 6D811FD2 E82313A8 663514ED 2CA36E6B 7D425FA6
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.
	Do you want to install this certificate?
	Yes No

11. Click "Yes". It will pop out the dialog box of "Import Successful", click "Ok" to complete downloading certificate.



• Please refer to the following steps if you select "Install Signed Certificate".

Setup > Network > HTTPs

▶ Camera	IP Filter System Service	HTTPS			
Network					
▶ Event	Enable HTTPS				
▶ Storage	Create Certificate				
▼ System	Create				
> General	Request Created				
> Account	Request Created		Delete	Install	Download
> Security	Install Signed Certificate				
> Default	Cartificate Bath		Drawaa		
> Import/Export	Certificate Patri		Browse		
> Auto Maintain	Certificate Key Path		Browse	Upload	
> Upgrade	Certificate Installed				
Information	Certificate Installed		Delete		
	Attribute				
	Potros	sh Sava			
	Itelies	Jave			

- 1. Select signed certificate and certificate key path respectively via "Browse", click "Upload".
- 2. Install root certificate, please refer to step 6~11 for more details.
- 3. Check "Enable HTTPs", click "Save". The system will display the dialog box of "Need to reboot the device", and then the config is valid.

Rebo	Reboot					
	The configuration takes effect, the device is restarting now, please don't leave this page or close the browser					

4. HTTPs

Use HTTPs to log in.

Enter <u>https://xx.xx.xx.xx</u> in the browser, and it will pop out normal login interface; the browser will prompt certificate error if the certificate is not installed.



Note:

"xx.xx.xx.xx" is corresponding to your IP or domain name.

5.5.5 Default

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

Camera	Default	
Network		
▶ Event	Default Other configurations will be recovered to default except network IP address, user management and so or	1.
Storage	Factory Default Completely recover device parameters to factory default.	
▼ System		
> General		
> Account		
> Security		
> Default		
> Import/Export		
> Auto Maintain		
> Upgrade		
► Information		

5.5.6 Import/Export



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.

5.5.7 Auto Maintenance

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.



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

5.5.8 Upgrade

Please select the upgrade file (file extension is ".bin") and then click the update button to begin firmware update. <u>Important Improper upgrade program may result in device malfunction!</u>

▶ Camera	Upgrade
Network	File Herrode
▶ Event	rie opgrade
Storage	Select Firmware File Browse Upgrade
🔻 System	
> General	
> Account	
> Security	
> Default	Auto-check for updates Save
> Import/Export	System Version 2 622 0000000 3 R Build Date: 2018-06-24 Manual Check
> Auto Maintain	
> Upgrade	
Information	

5.6 Information

5.6.1 Version

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

▶ Camera	Version	
Network	_	
▶ Event	System Version	2.622.0000000.3.R, Build Date: 2018-06-24
Storage	WEB Version	3.2.1.595612
▶ System	ONVIF Version	16.12(V2.4.3.574996)
▼ Information	S/N	4F023BCYAG0C8D8
> Version		
> Log	Copyright 2018, all	rights reserved.
> Online User		

5.6.2 Log

▶ Camera	Log	Remote Log									
Network											
▶ Event	Start Time	08-10-2018	10 : 05 : 36	End Time	09-10-2018	10 : 05 :	36				
Storage	Туре	All	✓ Search								
System	No.			Log Time				Username		Log Type	
> Version											
> Log											
> Online User											
	Detailed Informat	lion									
	Time:										
	Username:										
	Type:										
	Content:										
											≪ 1/1 ► ⊨ 1 👘
	Backup										

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.

▶ Camera	Log	Remote Log	
Network			
▶ Event	Enable		
Storage	IP Address	192.168.0.108	
▶ System	Port	514	(1~65534)
▼ Information	Device Number	22	(0~23)
> Version		Default	afrach Cauc
> Log		Delault	Save
> Online User			

5.6.3 Online User

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

IP Camera			Live	PTZ	Playback	Setup	Alarm	Logout
⊳ Camera	Online User					ч.		?
Network	No.	Username	User Local Group	IP	Address		User Login Time	
▶ Event	1	admin	admin	10	.34.9.220	20	15-03-26 09:45:22	*
Storage	2	admin	admin	10	.34.7.148	20	15-03-26 09:55:14	
▶ System								
T Information								
> Version								
> Log								
> Online User								
								-
	Refresh							

6 Alarm

Please note some models do not support the alarm function.

With this option is available the device alarm type and alarm sound can be setup.

Alarm Type		No.	Time	Alarm Type	Alarm Channel
Motion Detection	Disk Full				
Disk Error	Video Tamper				
Illegal Access	Scene Changing				
Voltage Detection					
Operation					
Prompt					
Alarm Tone					
Play Alarm Tone					
Tone Path	Browse				

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

IP Came	era	
Username: Password:	admin	
	Login Cancel	

Click log out button, system goes back to log in interface.

Note

- This manual is for reference only. Slight difference may be found in user interface.
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