6MP IP IR Fisheye Camera

WIP6F



Please read these instructions carefully before operating the unit and keep for further reference.

genie

- Please use the specified power supply to connect.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center as soon as possible if there is any failure.
- Avoid from incorrect operation, shock vibration, heavy pressing which can cause damage to product.
- Do not use corrosive detergent to clean main body of the camera. If necessary, please use soft dry cloth to wipe dirt; for hard contamination, use neutral detergent. Any cleanser for high grade furniture is applicable.
- Avoid aiming the camera directly towards extremely bright objects, such as, sun, as this may damage the image sensor.
- Please follow the instructions to install the camera. Do not reverse the camera, or the reversing image will be received.
- Do not operate it in case temperature, humidity and power supply are beyond the limited stipulations.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- Do not expose the product to the direct airflow from an air conditioner.
- This manual is for using and managing the product. We may reserve the rights of amending the typographical errors, inconsistencies with the latest version, software upgrades and product improvements, interpretation and modification. These changes will be published in the latest version without special notification.
- All pictures, charts, images in this manual are only for description and explanation of our products. The trademarks and logos are the properties of the respective owners.
- This manual is suitable for fisheye network camera.

Table of Contents

1		on	
2	Network C	Configuration	
	2.1 LAN.		
	2.1.1	Access through IP-Tool	3
	2.1.2	Directly Access through IE	5
	2.2 WAN	ſ	6
3	Live View.		
4	Network C	Camera Configuration	14
	4.1 System	m Configuration	14
	4.1.1	Basic Information	14
	4.1.2	Date and Time	14
	4.1.3	Local Config	15
	4.1.4	Storage	
	4.1.5	Configuring Fisheye Parameters	
	4.2 Image	e Configuration	
	4.2.1	Display Configuration	
	4.2.2	Video / Audio Configuration	
	4.2.3	OSD Configuration	
	4.2.4	Video Mask	
	4.2.5	ROI Configuration	
		Configuration	
	4.4 Alarm	n Configuration	
	4.4.1	Motion Detection	
	4.4.2	Other Alarms	
	4.4.3	Alarm In	
	4.4.4	Alarm Out	
	4.4.5	Alarm Server	
	4.5 Netwo	ork Configuration	
	4.5.1	TCP/IP	
	4.5.2	Port	
	4.5.3	Server Configuration	
	4.5.4	DDNS	
	4.5.5	SNMP	
	4.5.6	802.1x	
	4.5.7	RTSP	
	4.5.8	UPNP	
	4.5.9	Email	
	4.5.10	FTP	
	4.5.11	HTTPS	
	4.5.12	QoS	

	4.6 Sec	urity Configuration	
	4.6.1	User Configuration	
	4.6.2	Online User	
	4.6.3	Block and Allow Lists	
	4.6.4	Security Management	
	4.7 Mai	intenance Configuration	
	4.7.1	Backup and Restore	
	4.7.2	Reboot	
	4.7.3	Upgrade	
	4.7.4	Operation Log	
5	Search	^	
		to Search	
	5.2 Vide	eo Search	
	5.2.1	Local Video Search	
	5.2.2	SD Card Video Search	
Ar	pendix		
Ar	- pendix 1 Q	& A	
_		ecifications	

1 Introduction

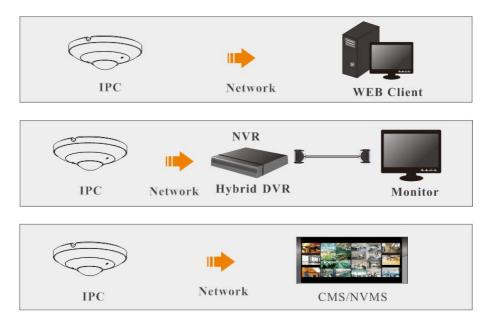
The fisheye network camera which adopts high-definition fisheye lens and high performance image sensor can meet 360° all-around high definition surveillance requirements. With the advanced H.265/H.264 video compression technology, high compression rate, accuracy and stable stream control, the camera ensures higher quality image and less occupancy of storage space.

This product can be widely used in banks, telecommunication systems, electricity power departments, law systems, factories, storehouses, uptowns, etc. In addition, it is also an ideal choice for surveillance sites with middle or high risks.

Main Features

- ICR auto switch, true day/night
- 3D DNR, digital WDR
- ROI coding
- Support BLC, HLC, Anti-flicker
- Support smart phone, iPad, remote monitoring

Surveillance Application



Installation Recommended Distance:

Performance	Face details	Facial contour	Human movement
Object distance	3 m	6 m	12 m

Connect IP-Cam via LAN or WAN. Here only take IE browser for example. The details are as follows:

2.1 LAN

In LAN, there are two ways to access IP-Cam: 1. access through IP-Tool; 2. directly access through IE browser.

2.1.1 Access through IP-Tool

Network connection:



① Make sure the PC and IP-Cam are connected to the LAN and the IP-Tool is installed in the PC from the CD.

② Double click the IP-Tool icon on the desktop to run this software as shown below:

Device Name Device Type Product Model IP Address Http Port Data Port Subnet Modify Network Parameter A name IPC unknown 192.168.226.201 80 9008 255.255 name IPC unknown 192.168.1.2 80 9008 255.255 name IPC unknown 192.168.1.3 80 9008 255.255 Device IPC Default Configuration T	Immediate Refr	esh 🔻							At	out
name IPC unknown 192.168.1.2 80 9008 255.255 IP Address 192.168.226.201 name IPC unknown 192.168.1.3 80 9008 255.255 Subnet Mask 255.255.255.0 Gateway 192.168.226.1 Modify Tip: Enter the administrator password, a then modify the network parameters. Modify Tip: Enter the administrator password, a then modify the network parameters.	Device Name	Device Type	Product Model	IP Address	Http Port	Data Port	Subnet	Modify Network	k Parameter	
name IPC unknown 192.168.1.3 80 9008 255.255 Subnet Mask 255.255.255.0 Gateway 192.168.226.1 Modify Tip: Enter the administrator password.a then modify the network parameters.	name	IPC	unknown	192.168.226.201	80	9008	255.255	Mac Address		
Gateway 192.166.226.1 Gateway 192.166.226.1 Modify Tip: Enlier the administrator password a then modify the network parameters.		IPC		192.168.1.2			255.255	IP Address	192.168.226.	201
Modify Tip: Enter the administrator password a then modify the network parameters.	name	IPC				9008		Subnet Mask	255.255.255	0
• Tip: Enter the administrator password, then modify the network parameters.								Gateway	192.168.226.	1
then modify the network parameters.									Mod	
Restore IPC Default Configuration										
								Restore IPC De	fault Configuration	v

(3) Modify the IP address. The default IP address of this camera is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right hand. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment as that of the computer. Please modify the IP address of your device according to the practical situation.

Parameter 🔺
192.168. 1 .201
255.255.255.0
192.168. 1 . 1
Modify

For example, the IP address of your computer is 192.168.1.4. So the IP address of the camera shall be changed to 192.168.1.X. After modification, please enter the password of the administrator and click "Modify" button to modify the setting.

Ē

S

The default password of the administrator is "123456".

(4) Double click the IP address and then the system will pop up the IE browser to connect IP-CAM. Follow directions to download and install the Active X control. The login interface is as follow.

webcam		
	Name:	admin
	Password:	•••••
	Stream Type:	2160x2160 30fps 🗸 🗸
	Language:	English
		Remember me
all all a second a se		Login

Enter the username and password to log in.

The default username is "admin"; the default password is "123456".

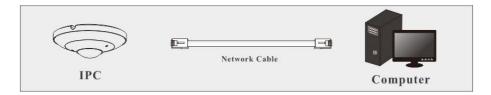
Please change the default password						
Modify Password New Password Confirm Password						
Do not show again	OK Cancel					

The system will pop up the above-mentioned textbox to ask you to change the default password. It is strongly recommended to change the default password for account security. If "Do not show again" is checked, the textbox will not appear next time.

2.1.2 Directly Access through IE

The default network settings are as shown below: IP address: **192.168.226.201** Subnet Mask: **255.255.255.0** Gateway: **192.168.226.1** HTTP: **80** Data port: **9008**

Use the above default settings when logging in the camera for the first time. Directly connect the camera to the computer through network cable.



① Manually set the IP address of the PC and the network segment should be as the same as the default settings of the IP camera. Open the network and share center. Click "Local Area Connection" to pop up the following window.

eneral		
Connection		
IPv4 Connectivity	: In	iternet
IPv6 Connectivity	No Internet	access
Media State:	E	nabled
Duration:	00	:01:27
Speed:	100.0	0 Mbps
Activity		
Activity	Sent — 💐 — Re	ceived
Activity	and the second s	ceived 78,065
	and the second s	

Select "Properties" and then select internet protocol according to the actual situation (for example: IPv4). Next, click "Properties" button to set the network of the PC.

Seneral	
	ed automatically if your network supports need to ask your network administrator
💿 Obtain an IP address aut	omatically
Ose the following IP addr	ess:
IP address:	192 . 168 . 226 . 4
Subnet mask:	255.255.255.0
Default gateway:	192 . 168 . 226 . 1
Obtain DNS server addre	ss automatically
Use the following DNS se	rver addresses:
Preferred DNS server:	192.168.226.1
Alternate DNS server:	x x x
Validate settings upon e	xit Advanced

- ② Open the IE browser and enter the default address of IP-CAM and confirm.
- (3) Follow directions to download and install the applicable plug-in.
- ④ Enter the default username and password and then click "Login" to view.

2.2 WAN

> Access through the router or virtual server



① Make sure the camera is connected via LAN and then log in the camera via LAN and go to Config \rightarrow Network \rightarrow Port menu to set the port number.

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

Port Setup

(2) Go to Config \rightarrow Network \rightarrow TCP/IP menu to modify the IP address.

IPv4 IPv6 PPPoE C	Config IP Change Notification Config								
Obtain an IP address automatically									
Ise the following IP address									
IP Address	192.168.226.201								
Subnet Mask	255.255.255.0								
Gateway	192.168.226.1								
Preferred DNS Server	192.168.226.1								
Alternate DNS Server	8.8.8.8								
	Save								



(3) Go to the router's management interface through IE browser to forward the IP address and port of the camera in the "Virtual Server".

Network Camera User Manual

	Port Range									
Application	Start		End	Protocol	IP Address	Enable				
1	9007	to	9008	Both 💌	192.168.1.201					
2	80	to	81	Both 👻	192.168.1.201					
3	10000	to	10001	Both 👻	192.168.1.166					
4	21000	to	21001	Both 💌	192.168.1.166					

Router Setup

(4) Open the IE browser and enter its WAN IP and http port to access. (for example, if you change your http port as 81, you may enter "192.198.1.201:81" in the address bar of web browser to access).

Access through PPPoE dial-up

Network connection



You may access the camera through PPPoE auto dial-up. The setting steps are as follow:

(1) Go to Config \rightarrow Network \rightarrow Port menu to set the port number.

② Go to Config \rightarrow Network \rightarrow TCP/IP \rightarrow PPPoE Config menu. Enable PPPoE and then enter the user name and password which you can get from your internet service provider.

IPv4	IPv6	PPPoE C	onfig	IP Change Notification Config					
☑ Enable									
User N	lame		xxxxx	cx					
Passw	ord		••••	•					
				Save					

③ Go to Config \rightarrow Network \rightarrow DDNS menu. Before you configure the DDNS, please apply for a domain name first. Please refer to DDNS configuration for detail information.

④ Open the IE browser and enter the domain name and http port to access.

> Access through static IP

Network connection



The setting steps are as follow:

(1) Go to Config \rightarrow Network \rightarrow Port menu to set the port number.

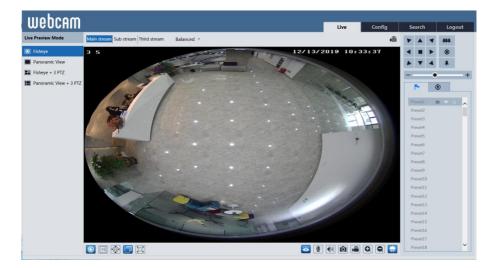
② Go to Config →Network→TCP/IP menu to set the IP address. Check "Use the following

IP address" and then input the static IP address and other parameters.

③ Open the IE browser and enter its WAN IP and http port to access.

3 Live View

After logging in, the following window will be shown. Before you view the live image, please set the stream mode and installation method as needed (see <u>Configuring Fisheye Parameters</u> for details).

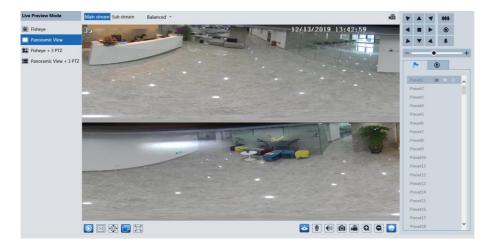


In the live mode, the different streams and live view modes can be switched as needed. The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
\bigcirc	Select live preview mode	Ō	Snap
$\times 1$	Original size		Start/stop recording
	Appropriate size	Þ	PTZ control
	Auto	((11))	Sensor alarm indicator icon
	Full screen	オ	Motion alarm indicator icon
Q	Start/stop live view	Ø	Zoom in
U	Start/stop two-way audio	Ø	Zoom out
	Enable/disable audio		

• In full screen mode, double click to exit.

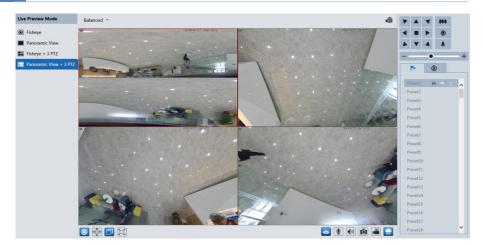
Click to select the live view mode. Fisheye view mode: See the picture as shown above. Panoramic view mode



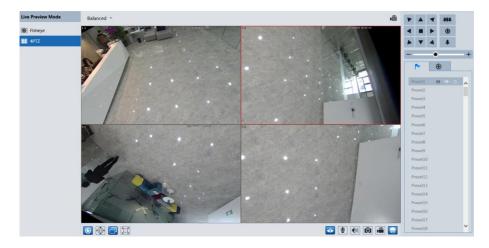
Fisheye+ 3PTZ view mode



Panoramic + 3PTZ view mode



4PTZ view mode (you need to switch the stream mode in the fisheye parameter interface)



In panoramic + 3PTZ view mode or fisheye + 3PTZ view mode or 4PTZ view mode, select a PTZ window and view the image from every direction by controlling PTZ panel.

Click 💭 to display the control panel. The descriptions of the control panel are as follows:

Icon	Description	Icon	Description
	Move upper left direction	*	Move upper right direction
	Move up		Stop movement
•	Move left		Move right
	Move lower left direction	4	Move lower right direction
▼	Move down	+	Speed adjustment
***	Zoom out	*	Zoom in
۲	Automatic cruise	₽•	Preset
۲	Create and call cruise		

Select preset and click it to call the preset. Select and set the preset and then click it to save the position of the preset. Select the set preset and click to delete it.

Select cruise and click + to set the cruise and add presets to this cruise. Click + to start cruise; click + to stop cruise.

In the Webcam client, choose "Config" to go to the configuration interface. **Note**: Wherever applicable, click the "Save" button to save the settings.

4.1 System Configuration

4.1.1 Basic Information

In the "Basic Information" interface, the system information of the device is listed.

Device Name	IPC
Product Model	XXX
Brand	Customer
Software Version	4.2.1.0(25765)
Software Build Date	2019-12-06
Kernel Version	20191202
Hardware Version	1.3
Onvif Version	19.06
OCX Version	2.0.3.3
MAC	00:84:26:48:5f:01

4.1.2 Date and Time

Go to Config→System→Date and Time. Please refer to the following interface.

Zone Date and Time						
Zone GM	1T (Dublin, Lisbon, London, Reykjavik)	~				
DST						
Auto DST						
O Manual DST						
Start Time	January 🗸 First 🗸 Sunday 🗸 00 🗸	Hour				
End Time	February V First V Monday V 00 V	Hour				
Time Offset	120 Minutes 🗸					

Please select the time zone and DST as needed. Click "Date and Time" tab to set the time mode.

ſ	Zone Date and Time
	Time Mode:
	Synchronize with NTP server
	NTP server: time.windows.com Update period: 1440 Minutes
	○ Synchronize with computer time
	Date 2019-12-13 Time 17:15:29
	○ Set manually
	Date 2019-12-13 m Time 09:15:30

4.1.3 Local Config

Go to Config \rightarrow System \rightarrow Local Config to set up the storage path of captured pictures and recorded videos on the local PC. There is also an option to enable or disable the bitrate display in the recorded files.

Save snapshots to	C:\Program Files	Browse	
Save recording files to	C:\Program Files	Browse	
Audio Recording	O Open	 Close 	
Bitrate Overlay	○ Open	Close Close	

4.1.4 Storage

Go to Config \rightarrow System \rightarrow Storage to go to the interface as shown below.

Management Rec	ord Snapshot
Total picture capacity	3001 MB
Picture remaining space	2960 MB
Total recording capacity	26945 MB
Record remaining space	24640 MB
State	Normal
Snapshot Quota	10 %
Video Quota	90 %
Changes in the quota	ratio need to be formatted before they become effective.
	Eject Format

• SD Card Management

Click the "Format" button to format the SD card. All data will be cleared by clicking this

button.

Click the "Eject" button to stop writing data to SD card. Then the SD card can be ejected safely.

Snapshot Quota: Set the capacity proportion of captured pictures on the SD card.

Video Quota: Set the capacity proportion of record files on the SD card.

• Schedule Recording Settings

1. Go to Config \rightarrow System \rightarrow Storage \rightarrow Record to go to the interface as shown below.

Management Red	cord Snapshot						
Record Parameters							
Record Stream	Main	~					
Pre Record Time	No Pre Record	 (H264,H265,MJPEG) 					
Cycle Write	Yes	•					
Timing							
☑ Enable Schedule Record							

2. Set record stream, pre-record time, cycle writing.

Pre Record Time: Set the time to record before the actual recording begins.

3. Set schedule recording. Check "Enable Schedule Record" and set the schedule.

																				C	Era	ase (• A	dd
Week	Schedu	le																						
	0 1	2	3	4	5	<mark>6</mark>			. <mark>9</mark>	10	11	12	13	14	15	16	17	18	19	20	21	. 22		2
Sun.	00:00-	24:00)																			nual		
	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
Mon.	00:00-	24.00)																		Ma	nual	Innu	÷
	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		22		
Tue.																								
	00:00-																					nual		
Wed.	0 1	1.	3	4	5					10	11	12	13	14	15	16	17	18	19	20	21	22	23	
wea.	00:00-	24:00)																		Ma	nual	Inpu	ıt
	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Thu.	00:00-	24:00)																		Ma	nual	Inpu	ıt
	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Fri.	00:00-	24:00)																			nual		
	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Sat.	00:00-																er la							
	00:00-	24:00)																		Ma	nual	Inpu	π
Holida	y Schec	lule																						
	Date	07-	.12					Add								7								
		07	12																					
	0 1	2	3		5	6	7	elet 8	e 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
	juuru			.i			.ú.,						-11-1-					-10-	19	20	21		1	<u>, </u>
	00:00-2	24:00																			Mar	nuali	Inpu	t

Weekly schedule

Set the alarm time from Monday to Sunday for a single week. Each day is divided in one hour increments. Green means scheduled. Blank means unscheduled.

"Add": Add the schedule for a special day. Drag the mouse to set the time on the timeline. "Erase": Delete the schedule. Drag the mouse to erase the time on the timeline. Manual Input: Click it for a specific day to enter specific start and end times. This adds more granularities (minutes).

Day schedule

Set the alarm time for alarm a special day, such as a holiday. **Note: Holiday schedule takes priority over weekly schedule.**

Snapshot Settings

Go to Config \rightarrow System \rightarrow Storage \rightarrow Snapshot to go to the interface as shown below.

Snapshot Parameters							
Image Format	JPEG 💊	•					
Resolution	960x960 💊	•					
Image Quality	Low	•					
Event Trigger							
Snapshot Interval	1	Second					
Snapshot Quantity	5						
Timing							
Enable Timing Snapshot							
Snapshot Interval	5	Second					

Set the format, resolution and quality of the image saved on the SD card and the snapshot interval and quantity and the timing snapshot here.

Snapshot Quantity: The number you set here is the maximum quantity of snapshots. The actual quantity of snapshots may be less than this number. Supposing the occurrence time of an alarm event is less than the time of capturing pictures, the actual quantity of snapshots is less than the set quantity of snapshots.

Timing Snapshot: Enable timing snapshot first and then set the snapshot interval and schedule. The setup steps of schedule are the same as the schedule recording (See <u>Schedule</u> <u>Recording</u>).

4.1.5 Configuring Fisheye Parameters

Before viewing the live image, please go to Config \rightarrow System \rightarrow Fisheye Parameters menu to set the stream mode and installation method.

Stream Mode	Fisheye or 4 PTZ	~				
Installation Method	Desktop	~				
Notice: To modify installation method will affect live preview, image effect, PTZ mode and Preset, etc.						
	Save					

Stream mode: Fisheye + Panoramic view + 3PTZ and Fisheye or 4PTZ mode are optional. Installation method: Wall, ceiling and desktop are optional. Please select the installation mode according to the actual way of installation.

4.2 Image Configuration

4.2.1 Display Configuration

Go to Image \rightarrow Display interface as shown below. The image's brightness, contrast, hue and saturation and so on for common, day and night mode can be set up separately. The image effect can be quickly seen by switching the configuration file.

Camera Parameters Schedule		
35	Config File Com	mon 🗸
	Brightness	
	Contrast	50
	Hue	
	Saturation	50
	WDR 🗌	128
A A A A A A A A A A A A A A A A A A A	Sharpness	
	Noise Reduction	
A St SUTTO	Defog	
	BLC	Off 🗸
	Antiflicker	Off 🗸
	White Balance	Auto 🗸
	Frequency	50HZ 🗸
	Day/Night Mode	Auto 🗸
	Sensitivity	Mid
	Delay Time(Second)	۰ 2
	Infra-red Mode	Auto
	Exposure Mode	Auto 🗸
	Gain Limit	
	Image Mirror	O Open
	Image Flip	Open Close
		Default Revoke

Brightness: Set the brightness level of the camera's image.

Contrast: Set the color difference between the brightest and darkest parts.

Hue: Set the total color degree of the image.

Saturation: Set the degree of color purity. The purer the color is, the brighter the image is.

WDR: WDR can adjust the camera to provide a better image when there are both very bright and very dark areas simultaneously in the field of the view by lowering the brightness of the bright area and increasing the brightness of the dark area.

• There will be some record lost in a few seconds during mode changing from non-WDR to WDR mode.

Sharpness: Set the resolution level of the image plane and the sharpness level of the image edge.

Noise Reduction: Decrease the noise and make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.

Defog: Activating this function and setting an appropriate value as needed in foggy, dusty, smoggy or rainy environment to get clear images.

Backlight Compensation:

- Off: close the backlight compensation function. It is the default mode.
- HWDR
- HLC: lower the brightness of the whole image by suppressing the brightness of the image's highlight area and reducing the size of the halo area.
- BLC: if enabled, the auto exposure will activate according to the scene so that the object of the image in the darkest area will be seen clearly.

Antiflicker:

- Off: disables the anti-flicker function. This is used mostly in outdoor installations.
- 50Hz: reduces flicker in 50Hz lighting conditions.
- 60Hz: reduces flicker in 60Hz lighting conditions.

White Balance: Adjust the color temperature according to the environment automatically. **Frequency**: 50Hz and 60Hz can be optional.

Day/night Mode: Please choose the mode as needed.

Sensitivity: High, middle and low can be selected.

Infrared Mode: Choose "ON", "OFF" or "Auto".

Exposure Mode: Choose "Auto" or "Manual". If manual is chosen, the digital shutter speed can be adjusted.

Gain Limit: The higher the value is, the brighter the image is.

Image Mirror: Turn the current video image horizontally.

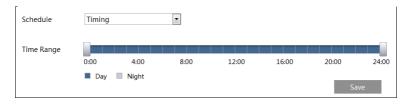
Image Flip: Turn the current video image vertically.

Schedule Settings of Image Parameters:

Click the "Schedule" tab as shown below.

Camera Parame	eters Schedule	
Schedule	Full Time	~
Config File	Common	~

Set full time schedule for common, day, night mode and specified time schedule for day and night. Choose "Timing" in the drop-down box of schedule as shown below.



Drag " " icons to set the time of day and night. Blue means day time and blank means night time. If the current mode of camera parameters is set to "Timing", the image configuration mode will automatically switch between day and night according to the schedule.

4.2.2 Video / Audio Configuration

Go to Image \rightarrow Video / Audio interface as shown below. In this interface, you can set the resolution, frame rate, bitrate type, video quality and so on subject to the actual network condition.

	ream Name	Resolution	Frame Rate	Bitrate Type	Bitrate(Kbps)	Video Quality	I Frame	Video	Profile
1 M	lain stream	2160x2160 V	25	CBR 🗸	6144 ~	Highest 🗸	100	H264 V	Main Profile V
2 S	Sub stream	960x960 🗸	25	CBR 🗸	1536 *	Highest 🗸	100	H264 V	Main Profile V
3 Tł	hird stream	480x480 ~	25	CBR 🗸	768 ~	Higher 🗸	100	H264 V	Main Profile V

Click "Audio" tab to go to the interface as shown below.

Video Au	dio				
Audio Encoding	G711A	~	Audio Type	MIC	~
			Save		

You can select streams for different channels.

IP Channel 1: Fisheye view channel, 3 streams can be set. Please set them according to the actual network condition.

IP Channel 2: Panoramic view channel, 2 streams can be set. Please set them according to the actual network condition.

IP Channel 3/4/5: PTZ view channel, 2 streams can be set for each channel. Please set them according to the actual network condition.

Resolution: The size of image.

Frame rate: The higher the frame rate is, the video is smoother.

Bitrate type: CBR and VBR are optional. Bitrate is related to image quality. CBR means that no matter how much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according to scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. This can help optimize the network bandwidth usage.

Bitrate: It can be adjusted when the mode is set to CBR. The higher the bitrate, the better the image quality will be.

Video Quality: It can be adjusted when the mode is set to VBR. The higher the image quality, the more bitrate will be required.

I Frame interval: It determines how many frames are allowed between a "group of pictures". When a new scene begins in a video, until that scene ends, the entire group of frames (or pictures) can be considered as a group of pictures. If there is not much movement in the scene, setting the value higher than the frame rate is fine, potentially resulting in less bandwidth usage. However, if the value is set too high, and there is a high frequency of movement in the video, there is a risk of frame skipping.

Video Compression: H264 and H265 are optional. If H.265 is chosen, make sure the client system is able to decode H.265.

Profile: For H.264. Baseline, main and high profiles are selectable.

Send Snapshot: Please select it according to the actual situation.

Video encode slice split: If this function is enabled, smooth image can be gotten even though using the low-performance PC.

Watermark: When playing back the local recorded video in the search interface, the watermark can be displayed. To enable it, check the watermark box and enter the watermark text.

Audio Encoding: G711A and G711U are selectable.

Audio Type: MIC and LIN are selectable.

4.2.3 OSD Configuration

Go to Image \rightarrow OSD interface as shown below.



Set time stamp, device name, OSD content and picture overlap here. After enabling the corresponding display and entering the content, drag them to change their position. Then click

the "Save" button to save the settings.

35 12/13/9/110 1419/130 Picture	Date Format	YYYY-MM-DD]
		Show Timestamp	
	Device Name	IPC	
· · ·		Show Device Name	
	Picture Overlay V		Browse Upload
	OSD Content2		Add One Line
	OSD Content3		Add One Line
	OSD Content4		Add One Line

Picture Overlap Settings:

Check "OSD Content1", choose "Picture Overlay" and click "Browse" to select the overlap picture. Then click "Upload" to upload the overlap picture. The pixel of the image shall not exceed 200*200, or it cannot be uploaded.

4.2.4 Video Mask

Go to Image→Video Mask interface as shown below. A maximum of 4 zones can be set up.



To set up video mask:

- 1. Enable video mask.
- 2. Click the "Draw Area" button and then drag the mouse to draw the video mask area.
- 3. Click the "Save" button to save the settings.

4. Return to the live to verify that the area have been drawn as shown as blocked out in the image.



To clear the video mask:

Click the "Clear" button to delete the current video mask area.

4.2.5 ROI Configuration

Go to Image \rightarrow ROI Config interface as shown below. An area in the image can be set as a region of interest. This area will have a higher bitrate than the rest of the image, resulting in better image quality for the identified area.



- 1. Check "Enable" and then click "Draw Area" button.
- 2. Drag the mouse to set the ROI area.
- 3. Set the level.

4. Click "Save" button to save the settings.

4.3 PTZ Configuration

The PTZ of this camera can be controlled by the keyboard. Connect the keyboard and the camera through RS485 interface and then set the corresponding protocol and baud-rate in the camera and keyboard.

Go to $PTZ \rightarrow Protocol$ interface as shown below.

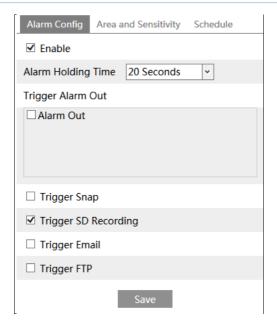
Protocol	PELCOD 🗸
Baud-Rate	9600 🗸
Address	1: PTZ1
	2: PTZ2
	3: PTZ3
	4: PTZ4
	Save

Here the protocol and baud-rate must be the same with these of the keyboard. Address: 1; you can control PTZ channel 1 by using this address in the keyboard. Address: 2; you can control PTZ channel 2 by using this address in the keyboard.

4.4 Alarm Configuration

4.4.1 Motion Detection

Go to Alarm \rightarrow Motion Detection to set motion detection alarm.



1. Check "Enable" check box to activate motion based alarms. If unchecked, the camera will not send out any signals to trigger motion-based recording to the NVR or CMS, even if there is motion in the video.

Alarm Out: If selected, this would trigger an external relay output that is connected to the camera on detecting a motion based alarm.

Trigger Snap: If selected, the system will capture images on motion detection and save the images on an SD card.

Trigger SD Recording: If selected, video will be recorded on an SD card on motion detection.

Trigger Email: If "Trigger Email" and "Attach Picture" are checked (email address must be set first in the Email configuration interface), the captured pictures and triggered event will be sent into those addresses.

Trigger FTP: If "Trigger FTP" and "Attach Picture" are checked, the captured pictures will be sent into FTP server address. Please refer to FTP configuration chapter for more details.

2. Set motion detection area and sensitivity. Click "Area and Sensitivity" tab to go to the interface as shown below.

Network Camera User Manual

75 1273 272 01 9 1 ke stør 28	Sensitivity Lo	w	High	4
	Draw Area	Add	O Erase	
	Select All	Clear All	Invert	
			Save	

Move the "Sensitivity" scroll bar to set the sensitivity.

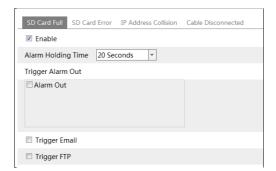
Select "Add" and click "Draw" button and drag mouse to select the motion detection area; Select "Erase" and drag the mouse to clear motion detection area. After that, click "Save" to save the settings.

3. Set the schedule for motion detection. The schedule setup steps of the motion detection are the same as the schedule recording setup (See <u>Schedule Recording</u>).

4.4.2 Other Alarms

• SD Card Full

1. Go to Config \rightarrow Alarm \rightarrow Anomaly \rightarrow SD Card Full.



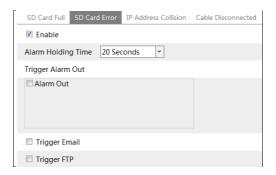
2. Click "Enable" and set the alarm holding time.

3. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

• SD Card Error

When some errors occur for writing data to the SD card, the corresponding alarms will be triggered.

1. Go to Config \rightarrow Alarm \rightarrow Anomaly \rightarrow SD Card Error as shown below.

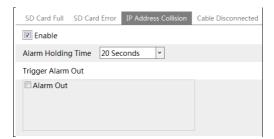


2. Click "Enable" and set the alarm holding time.

3. Set alarm trigger options. Trigger alarm out, Email and FTP. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

• IP Address Conflict

1. Go to Config \rightarrow Alarm \rightarrow Anomaly \rightarrow IP Address Collision as shown below.



2. Click "Enable" and set the alarm holding time.

3. Trigger alarm out. When the IP address of the camera is in conflict with the IP address of other devices, the system will trigger the alarm out.

• Cable Disconnection

1. Go to Config \rightarrow Alarm \rightarrow Anomaly \rightarrow Cable Disconnected as shown below.

SD Card Full SD Card Error IP Address Collision	Cable Disconnected
C Enable	
Alarm Holding Time 20 Seconds ~	
Trigger Alarm Out	
Alarm Out	

- 2. Click "Enable" and set the alarm holding time.
- 3. Trigger alarm out. When the camera is disconnected, the system will trigger the alarm out.

4.4.3 Alarm In

To set sensor alarm (alarm in):

Go to Config \rightarrow Alarm \rightarrow Alarm In interface as shown below.

Alarm Config Sched	ule
✓ Enable	
Alarm Type	NO Y
Alarm Holding Time	20 Seconds v
Sensor Name	
Trigger Alarm Out	
Alarm Out	
Trigger Snap	
Trigger SD Recordi	ng
🗆 Trigger Email	
Trigger FTP	

1. Enable alarm and set the alarm type, alarm holding time and sensor name.

2. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection chapter for details.

3. Click "Save" button to save the settings.

4. Set the schedule of the sensor alarm. The setup steps of the schedule are the same as the schedule recording setup. (See <u>Schedule Recording</u>).

4.4.4 Alarm Out

Go to Config→Alarm→Alarm Out interface as shown below:

Alarm Out Mode	Alarm Linkage	~
Alarm Out Name	alarmOut1	
Alarm Holding Time	30 Seconds	*

Alarm Out Mode: Alarm linkage, manual operation, day/night switch linkage and timing are optional.

Alarm Linkage: Having selected this mode, select alarm out name and alarm holding time at the "Alarm Holding Time" pull down list box.

Manual Operation: Having selected this mode, click "Open" to trigger the alarm out immediately; click "Close" to stop alarm.

Alarm Out Mode	Manual Op	~	
Manual Operation	Open	Close	

Day/Night Switch Linkage: Having selected this mode, select the alarm type and then choose to open or close alarm out when the camera switches to day mode or night mode.

Alarm Out Mode	Day/night switch linkage	~
Day	Open	~
Night	Close	~

Timing: Click "Add" and drag the mouse on the timeline to set the schedule of alarm out; click "Erase" and drag the mouse on the timeline to erase the set time schedule. After this schedule is saved, the alarm out will be triggered in the specified time.

Alarm Out Mode	Timing	v	
			⊖ Erase
Time Range		6 7 8 9 10 11 12 13 14 15 16 17 18 19 2	

4.4.5 Alarm Server

Go to Alarm→Alarm Server interface as shown below.

Set the server address, port, heartbeat and heartbeat interval. When an alarm occurs, the camera will transfer the alarm event to the alarm server. If an alarm server is not needed, there is no need to configure this section.

Server Address		
Port	0	
Heartbeat	Disable	\checkmark
Heartbeat interval	30	Second

4.5 Network Configuration 4.5.1 TCP/IP

Go to Config \rightarrow Network \rightarrow TCP/IP interface as shown below. There are two ways for network connection.

IPv4 IPv6 PPPoE C	Config IP Change Notification Config				
Obtain an IP addre	Obtain an IP address automatically				
Use the following I	IP address				
IP Address	192.168.226.201				
Subnet Mask	255.255.255.0				
Gateway	192.168.226.1				
Preferred DNS Server	192.168.226.1				
Alternate DNS Server	8.8.8.8				
	Save				

Use IP address (take IPv4 for example)-There are two options for IP setup: obtain an IP address automatically by DHCP and use the following IP address. Please choose one of the options as needed.

Test: Test the effectiveness of the IP address by clicking this button.

Use PPPoE-Click the "PPPoE Config" tab to go to the interface as shown below. Enable PPPoE and then enter the user name and password from your ISP.



Either method of network connection can be used. If PPPoE is used to connect internet, the camera will get a dynamic WAN IP address. This IP address will change frequently. To be notified, the IP change notification function can be used.

Click "IP Change Notification Config" to go to the interface as shown below.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
🗖 Tri	gger Er	mail	
🗖 Tri	gger FT	Р	
		I	Save

Trigger Email: when the IP address of the device is changed, the new IP address will be sent to the email address that has been set up.

Trigger FTP: when the IP address of the device is changed, the new IP address will be sent to FTP server that has been set up.

4.5.2 Port

Go to Config \rightarrow Network \rightarrow Port interface as shown below. HTTP port, HTTPS port, Data port and RTSP port can be set.

HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554

HTTP Port: The default HTTP port is 80. It can be changed to any port which is not occupied.

HTTPS Port: The default HTTPs port is 443. It can be changed to any port which is not occupied.

Data Port: The default data port is 9008. Please change it as necessary.

RTSP Port: The default port is 554. Please change it as necessary.

4.5.3 Server Configuration

This function is mainly used for connecting network video management system.

✓ Enable	
Server Port	2009
Server Address	
Device ID	1
	Save

1. Check "Enable".

2. Check the IP address and port of the transfer media server in the ECMS/NVMS. Then enable the auto report in the ECMS/NVMS when adding a new device. Next, input the remaining information of the device in the ECMS/NVMS. After that, the system will automatically allot a device ID. Please check it in the ECMS/NVMS.

3. Input the above-mentioned server address, server port and device ID in the corresponding boxes. Click "Save" button to save the settings.

4.5.4 DDNS

If the camera is set up with a DHCP connection, DDNS should be set for the internet. 1. Go to Config \rightarrow Network \rightarrow DDNS.

Port Server	DDNS	SNMP	802.1X	RTSP	UPnP	Email	FTP	HTTPS	QoS
Enable									
Server Type	w	ww.dyndi	ns.com		·				
User Name									
Password									
Domain									
				Save					

2. Apply for a domain name. Take www.dvrdyndns.com for example.

Input www.dvrdydns.com in the IE address bar to visit its website. Then click "Registration" button.

NEW USER REGISTRATION		
USER NAME	XXXX	
PASSWORD	•••••	
PASSWORD CONFIRM	•••••	
FIRST NAME	XXX	
LAST NAME	ХХХ	
SECURITY QUESTION.	My first phone number. 💌	
A N S W E R	XXXXXXXX	
CONFIRM YOU'RE HUMAN	New Captcha Enter the text you see above	
	Submit Reset	

Create domain name.

You must create a domain name to continue.			
Domain name must start with is not case-sensitive.	(a-z, 0-9). Cannot end or start, but may contain a hyphen and		
, dvrdyd	ns.com 👻 🛛 Request Domain		

After you successfully request your domain name, you will see your domain in the list.

Search by Domain. Search					
Click a name to edit your domain settings.					
NAME	STATUS	DOMAIN			
6 5 4 3 2 1 A B C	Ø	654321abc.dvrdydns.com			
Last Update: Not yet updated IP Address: 210.21.229.138					
Create additional domain names					

3. Input the username, password, domain you apply for in the DDNS configuration interface.

4. Click "Save" button to save the settings.

4.5.5 SNMP

To get camera status, parameters and alarm information and remotely manage the camera, you can set the SNMP function. Before using the SNMP, please download the SNMP software and set the parameters of the SNMP, such as SNMP port, trap address.

1. Go to Config \rightarrow Network \rightarrow SNMP.

2. Check the corresponding version checkbox (Enable SNMPv1, Enable SNMPv2, Enable SNMPv3) according to the version of the SNMP software you download.

3. Set the "Read SNMP Community", "Write SNMP Community", "Trap Address", "Trap Port" and so on. Please make sure the settings are the same as that of your SNMP software.

Note: Please use the different version in accordance with the security level you required. The higher the version is, the higher the level of the security is.

SNMP v1/v2	
Enable SNMPv1	
Enable SNMPv2	
Read SNMP Community	
Write SNMP Community	
Trap Address	
Trap Port	0
Trap community	
SNMP v3	
Enable SNMPv3	
Read User Name	
Security Level	auth, priv 👻
Authentication Algorithm	● MD5 ○ SHA
Authentication Password	
Private-key Algorithm	• DES AES
Private-key Algorithm	
Write User Name	
Security Level	auth, priv 👻
Authentication Algorithm	● MD5 ○ SHA
Authentication Password	
Private-key Algorithm	• DES O AES
Private-key Algorithm	
Other Settings	
SNMP Port	0

4.5.6 802.1x

If it is enabled, the camera's data can be protected. When the camera is connected to the network protected by the IEE802.1x, user authentication is needed.

✓ Enable	
Protocol Type	EAP_MD5
EAPOL Version	1 ~
User Name	test
Password	•••••
Confirm Password	•••••

To use this function, the camera shall be connected to a switch supporting 802.1x protocol. The switch can be reckoned as an authentication system to identify the device in a local network. If the camera connected to the network interface of the switch has passed the authentication of the switch, it can be accessed via the local network.

Protocol type and EAPOL version: Please use the default settings.

User name and password: The user name and password must be the same with the user name and password applied for and registered in the authentication server.

4.5.7 RTSP

Go to Config \rightarrow Network \rightarrow RTSP.

✓ Enable		
Port	554	
Address	rtsp://IP or domain name:port/profile1	
	rtsp://IP or domain name:port/profile2	
	rtsp://IP or domain name:port/profile3	
	rtsp://IP or domain name:port/profile4	
	rtsp://IP or domain name:port/profile5	
	rtsp://IP or domain name:port/profile6	
	rtsp://IP or domain name:port/profile7	
	rtsp://IP or domain name:port/profile8	
	rtsp://IP or domain name:port/profile9	
	rtsp://IP or domain name:port/profile10	
	rtsp://IP or domain name:port/profile11	
Multicast add	Iress	
Main stream	239.0.0.0 50554 Automatic	c start
Sub stream	239.0.0.1 51554 Automatic	c start
Third stream	239.0.0.2 52554 Automatic	c start
Audio	239.0.0.3 53554 Automati	c start

□ Allow anonymous login (No username or password required)

Select "Enable" to enable the RTSP function.

Port: Access port of the streaming media. The default number is 554.

RTSP Address: The RTSP address (unicast) format that can be used to play the stream in a media player.

Multicast Address

Main stream: The address format is

"rtsp://IP address: rtsp port/profile1?transportmode=mcast".

Sub stream: The address format is

"rtsp://IP address: rtsp port/profile2?transportmode=mcast".

Third stream: The address format is

"rtsp://IP address: rtsp port/profile3?transportmode=mcast".

Audio: Having entered the main/sub stream in a VLC player, the video and audio will play automatically.

If "Allow anonymous login..." is checked, there is no need to enter the username and password to view the video.

If "auto start" is enabled, the multicast received data should be added into a VLC player to play the video.

Note:1. This camera support local play through a VLC player. Enter the RTSP address (unicast or multicast, eg. rtsp://192.168.226.201:554/profile1?transportmode=mcast) in a VLC player to realize the simultaneous play with the web client.

2. The IP address mentioned above cannot be the address of IPv6.

3. Avoid the use of the same multicast address in the same local network.

4. When playing the video through the multicast streams in a VLC player, please pay attention to the mode of the VLC player. If it is set to TCP mode, the video cannot be played.

5. If the coding format of the video of the main stream is MJPEG, the video may be disordered at some resolutions.

4.5.8 UPNP

If this function is enabled, the camera can be quickly accessed through the LAN. Go to Config \rightarrow Network \rightarrow UPnP. Enable UPNP and then enter UPnP name.



4.5.9 Email

If you need to trigger Email when an alarm happens or IP address is changed, please set the Email here first.

Go to Config \rightarrow Network \rightarrow Email.

Sender	
Sender Address	XXX@126.com
User Name	XXX@126.com
Password	•••••
Server Address	smtp.126.com
Secure Connection	Unnecessary V
SMTP Port	25 Default
Send Interval(S)	0 (0-3600)
	Clear Test
Recipient	
XXXX@126.com	
Recipient Address	
	Add Delete

Sender Address: sender's e-mail address.

User name and password: sender's user name and password.

Server Address: The SMTP IP address or host name.

Select the secure connection type at the "Secure Connection" pull-down list according to what's required.

SMTP Port: The SMTP port.

Send Interval(S): The time interval of sending email. For example, if it is set to 60 seconds and multiple motion detection alarms are triggered within 60 seconds, they will be considered as only one alarm event and only one email will be sent. If one motion alarm event is triggered and then another motion detection alarm event is triggered after 60 seconds, two emails will be sent. When different alarms are triggered at the same time, multiple emails will be sent separately.

Click the "Test" button to test the connection of the account.

Recipient Address: receiver's e-mail address.

4.5.10 FTP

After you set the FTP server, the captured pictures on an alarm will be uploaded to the FTP server.

Go to Config \rightarrow Network \rightarrow FTP.

Server Name	Server Address	Port	User Name	Upload Path
	Add FTP			×
	Server Name Server Addre Upload Path Port User Name Password	ess	e:/Dir/folder	Anonymous
		OK Add	Cancel Modify Delete	Test

Server Name: The name of the FTP server.

Server Address: The IP address or domain name of the FTP.

Upload Path: The directory where files will be uploaded to.

Port: The port of the FTP server.

Use Name and Password: The username and password that are used to login to the FTP server.

4.5.11 HTTPS

HTTPs provides authentication of the web site and protects user privacy. Go to Config \rightarrow Network \rightarrow HTTPS as shown below.



There is a certificate installed by default as shown above. Enable this function and save it. Then the camera can be accessed by entering https://IP: https port via the web browser (eg. https://192.168.226.201:443).

A private certificate can be created if users don't want to use the default one. Click "Delete" to cancel the default certificate. Then the following interface will be displayed.

Enable		
Installation type	$\ensuremath{ \bullet }$ Have signed certificate, install directly	
	\bigcirc Create a private certificate	
	\bigcirc Create a certificate request	
Install certificate		Browse Install
		Save

- * If there is a signed certificate, click "Browse" to select it and then click "Install" to install it.
- * Click "Create a private certificate" to enter the following creation interface.

Enable		
Installation type	\bigcirc Have signed certificate, install directly	
	 Create a private certificate 	
	\bigcirc Create a certificate request	
Create a private certificate	Create	
_		Save

Click the "Create" button to create a private certificate. Enter the country (only two letters available), domain (camera's IP address/domain), validity date, password, province/state, region and so on. Then click "OK" to save the settings.

* Click "Create a certificate request" to enter the following interface.



Click "Create" to create the certificate request. Then download the certificate request and submit it to the trusted certificate authority for signature. After receiving the signed certificate, import the certificate to the device.

4.5.12 QoS

QoS (Quality of Service) function is used to provide different quality of services for different network applications. With the deficient bandwidth, the router or switch will sort the data streams and transfer them according to their priority to solve the network delay and network congestion by using this function.

Go to Config \rightarrow Network \rightarrow QoS.

Video/Audio DSCP	13
Alarm DSCP	35
Manager DSCP	53

Video/Audio DSCP: The range is from 0 to 63.

Alarm DSCP: The range is from 0 to 63.

Manager DSCP: The range is from 0 to 63.

Generally speaking, the larger the number is, the higher the priority is.

4.6 Security Configuration

4.6.1 User Configuration

Go to Config \rightarrow Security \rightarrow User interface as shown below.

Ado	d Modify Delet	re	
Index	User Name	User Type	Binding MAC
1	admin	Administrator	

Add user:

1. Click "Add" button to pop up the following textbox.

Add User		×
User Name Password		
Confirm Password		
User Type	Administrator	\checkmark
Bind MAC	00:00:00:00:00:00	
	ОК	Cancel

2. Enter user name in "User Name" textbox.

3. Enter letters or numbers in "Password" and "Confirm Password" textbox.

4. Choose the user type. Administrator has all permissions. Normal user can only view the live video. Advanced user has the same permissions as an Administrator except for; user, backup settings, factory reset, and upgrading the firmware.

5. Enter the MAC address of the PC in "Bind MAC" textbox.

If this option is enabled, only the PC with the specified MAC address can access the camera for that user.

6. Click the "OK" button and then the newly added user will be displayed in the user list.

Modify user:

1. Select a user to modify password and MAC address if necessary in the user configuration list box.

2. The "Edit user" dialog box pops up by clicking the "Modify" button.

Edit User		×
Modify Passwo	ord	
User Name	admin	
Old Password		
New Password		
Confirm Password	1	
Bind MAC	00:00:00:00:00:00	
	OK Car	ncel

- 3. Enter the old password of the user in the "Old Password" text box.
- 4. Enter the new password in the "New password" and "Confirm Password" text box.
- 5. Enter computer's MAC address as necessary.
- 6. Click the "OK" button to save the settings.

Note: To change the access level of a user, the user must be deleted and added again with the new access level.

Delete user:

- 1. Select the user to be deleted in the user configuration list box.
- 2. Click the "Delete" button to delete the user.

Note: The default administrator account cannot be deleted.

4.6.2 Online User

Go to Config→Security→Online User to view the user who is viewing the live video.

Index	Client Address	Port	User Name	User Type	
1	192.168.17.232	55760	admin	Administrator	Kick Out

An administrator user can kick out all the other users (including other administrators).

4.6.3 Block and Allow Lists

Go to Config \rightarrow Security \rightarrow Block and Allow Lists interface as shown below.

Enable address filteri	ng	
Block the following a	ddress O Allow the following address	
	Add	
	Delete	
	0.0.0.0	● IPv4 ○ IPv6 ○ MAC

The setup steps are as follows:

Check the "Enable address filtering" check box.

Select "Block/Allow the following address", IPv4/IPv6/MAC and then enter IP address or MAC address in the address box and click the "Add" button.

4.6.4 Security Management

Go to Config \rightarrow Security \rightarrow Security Management as shown below.

Security Service	
☑ Enable "locking once illegal login" function	
	Save

In order to prevent against malicious password unlocking, "locking once illegal login" function can be enabled here. If this function is enabled, login failure after trying six times will make the login interface locked. The camera can be logged in again after a half hour or after the camera reboots.

4.7 Maintenance Configuration

4.7.1 Backup and Restore

Go to Config→Maintenance→Backup & Restore.

Import Setti	ng						
Path	Import Setting	Browse					
Export Settings							
	Export Settings						
Default Setti	ings						
Кеер	 Network Config Security Configuration Image Configuration 						
	Load Default						

• Import & Export Settings

Configuration settings of the camera can be exported from a camera into another camera.

- 1. Click "Browse" to select save path for import or export information on the PC.
- 2. Click "Import Setting" or "Export Setting" button.

• Default Settings

Click the "Load Default" button to restore all system settings to the default factory settings except those you want to keep.

4.7.2 Reboot

Go to Config→Maintenance→Reboot.

Click "Reboot" button to reboot the device.

Timed Reboot Setting:

If necessary, the camera can be set up to reboot on a time interval. Enable "Time Settings", set the date and time and then click "Save" button to save the settings.

4.7.3 Upgrade

Go to Config \rightarrow Maintenance \rightarrow Upgrade. In this interface, the camera firmware can be updated.

Upgrade System							
Path	Browse						
	Upgrade						

- 1. Click the "Browse" button to select the save path of the upgrade file
- 2. Click the "Upgrade" button to start upgrading the firmware.
- 3. The device will restart automatically

Caution! Do not close the browser or disconnect the camera from the network during the upgrade.

4.7.4 Operation Log

To query and export log:

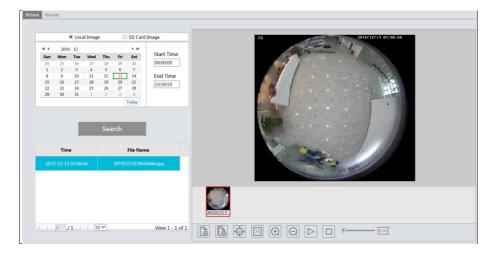
1. Go to Config→Maintenance→Operation Log.

Main Ty Start Tim		Sub Ty		✓ 3:59:59 📰 Sea	arch Export
Index	Time	Main Type	Sub Type	User Name	Login IP
1	2017-07-10 11:15:18	Operation	Log in	admin	192.168.12.53
2	2017-07-10 11:12:02	Exception	Disconnected		192.168.12.53
3	2017-07-10 19:12:17	Exception	Disconnected		192.168.12.52

- 2. Select the main type, sub type, start and end time.
- 3. Click "Search" to view the operation log.
- 4. Click "Export" to export the operation log.

5.1 Image Search

Click Search \rightarrow Photo to go to the interface as shown below. Images that are saved on the SD card can be found here.



Local Image Search

- 1. Set time: Select date and choose the start and end time in the top left corner.
- 2. Click "Search" button to search the pictures.
- 3. Click a file name in the list to view captured pictures as shown above.

SD Card Image Search

- 1. Set time: Select date and choose the start and end time in the top left corner.
- 2. Check events.
- 3. Click "Search" button to search the pictures.
- 4. Click a file name in the list to view captured pictures as shown below.

2019 12 > * Start Time 000000 2 3 4 5 6 7 9 10 11 12 13 Find Time 225959 20 21 25 26 7 2 24 5 10 17 18 19 20 2 25959 2 20 24 25 26 7 4 2 25959 30 31 1 2 3 4 Today	
Mon Tee View Pin Pin <th></th>	
2 3 4 5 6 7 9 10 11 12 13 14 16 17 18 19 20 21 23:59:59 23 24 25 26 27 28 24 25:59:59 30 31 1 2 4 2 4 Today	
9 10 11 12 13 14 End Time 16 17 18 19 20 21 23 24 25 26 27 28 20 31 1 2 3 4 Today	
16 17 18 19 20 21 23 24 25 26 27 28 30 31 1 2 3 4 Today	
23 24 25 26 27 28 30 31 1 2 3 4 Today	
23 24 25 26 27 28 30 31 1 2 3 4 Today	ALE
Today	
an Detection Sensor Timing	
	Section 1
Search	
ivent Type Time File Name	
Timing 2019-12-10 03:27:29 2019121003272948	
Timing 2019-12-10 03:27:24 2019121003272448	
Timing 2019-12-10 03:27:19 2019121003271920	
Timing 2019-12-10 03:27:14 2019121003271404	20191210_
Timing 2019-12-10 03:27:08 2019121003270892 🗸	

The descriptions of the buttons are shown as follows.

Icon	Description	Icon	Description
$\boxed{\bigotimes}$	Close: Select an image and click this button to close the image.	L ^(S)	Close all: Click this button to close all images.
E	Save: Click this button to select the path for saving the image on the PC	(±	Save all: Click this button to select the path for saving all images on the PC.
	Fit size: Click to fit the image on the screen	×1	Actual size: Click this button to display the actual size of the image.
(+)	Zoom in: Click this button to digitally zoom in.	Θ	Zoom out: Click this button to digitally zoom out.
\triangleright	Slide show play: Click this button to start slide show mode		Stop: Click this button to stop the slide show.
• 5.5S	Play speed: Play speed of the slide	show.	

5.2 Video Search

5.2.1 Local Video Search

Click Search \rightarrow Video \rightarrow Local Video to go to the interface as shown below. Videos were recorded locally to the PC can be played in this interface.

	۲	Local	Video		0 SI	D Card	Recording
et e Sun	2019 Mon	12 Tue	Wed	Thu	Fri	> IP Sat	Start Time
24	25	26	27	28	29	30	00:00:00
1	2	3	4	5	6	7	
8	9	10	11	12	13	14	End Time
15	16	17	18	19	20	21	23:59:59
22	23	24	25	26	27	28	23.35.39
29	30	31	1	2	3	4	
						Today	
				Sea	arch		
Fil	Name			Sea			Duration
	Name 307240		2019-	Time		7	Duration 00.00.08
019121	307240	701		Time 12-13	•		

Choose the date and the start time and end time and then click "Search" button to search the record files. Double click the record file to play the record. The descriptions of the buttons on the playback interface are as follows.

Icon	Description	Icon	Description
	Play button. After pausing the video, click this button to continue playing.		Pause button.
	Stop button.	▼	Speed down.
	Speed up.		Click it to play the previous record.
	Click it to play the next record.		Watermark display.
	Click it to enable / disable audio; drag the slider to adjust the volume after enabling audio.		Full screen. Click it to display full screen. Double click to exit full screen.

5.2.2 SD Card Video Search

Click Search \rightarrow Video \rightarrow SD Card Recording to go to the interface as shown below. Videos that were recorded on the SD card can be played in this interface.

		Local	Video		SI	Card R	lecording	
4 4 Sun 24 1 8 15 22 29	2019 Mon 25 2 9 16 23 30	12 Tue 26 3 10 17 24 31	Wed 27 4 11 18 25 1	Thu 28 5 12 19 26 2	Fri 29 6 13 20 27 3	 >>> Sat 30 7 14 21 28 4 	Start Time 00:00:00 End Time 23:59:59)
nt-lin	e, mou	on De	tection		or , Tin arch	ning		0
	ord Typ				arch		End Time	0
Rec			5	Sea tart Ti	arch		End Time	0
Rec Motic	ord Typ	e tion	S 2019	Sea tart Ti 12-13	arch me 08:15:4	2019		^
Rec Motic Motic	ord Typ	e tion	2019 - 2019-	Sea tart Ti 12-13 12-13	irch ime 08:15:4 08:14:1	2 2019 5 2019	-12-13 08:15:59	î

1. Set the date and the start and end time, select the record type and then click "Search" button to search the record.

2. Double click the searched file name to play the record.

Please refer to Local Video Search for the descriptions of the buttons on the playback interface.

Click 토 button to download the record saved in the SD card.



Appendix 1 Q & A

Q: How to find my password if I forget it?

A: Reset the device to the default factory settings. Default IP: 192.168.226.201; User name: admin; Password: 123456

Q: Fail to connect devices through IE browser, why?

A: Network is not well connected. Check the connection and make sure it is connected well.

- B: IP is not available. Reset the valid IP.
- C: Web port number has been revised: contact administrator to get the correct port number.

D: Exclude the above reasons. Recover default setting by IP-Tool.

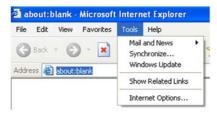
Q: IP tool cannot search devices, why?

A: It may be caused by the anti-virus software in your computer. Please exit it and try to search device again.

Q: IE cannot download ActiveX control. How can I do?

a. IE browser blocks ActiveX. Please do setup as below.

① Open IE browser and then click Tools-----Internet Options....



- 2 Select Security-----Custom Level....
- ③ Enable all the sub options under "ActiveX controls and plug-ins".
- (4) Then click OK to finish setup.
- b. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or close them.

Internet Options	Security Settings
General Security Privacy Content Connections Programs Advanced Select a Web content zone to specify its security settings.	Settings: © Enable © Download signed ActiveX controls © Dosable © Prompt © Download unsigned ActiveX controls © Dosable © Dosable © Prompt © Dosable © Do
Security level for this zone Custom settings. - To change the settings, click Custom Level. - To use the recommended settings, click Default Level Custom Level. Default Level DK Cancel Acoby	Reset custom settings Reset to: Medium OK Cancel

- Q: No sound can be heard, why?
- A: Audio input device is not connected. Please connect and try again.
- B: Audio function is not enabled at the corresponding channel. Please enable this function.

Appendix 2 Specifications

Specification /Model		Network IR Fisheye Camera	
	Image Sensor	1/2.9 " CMOS	
Camera	Effective Pixels	2160×2160	
	Electronic Shutter	1/25s~1/100000s	
	Min. Illumination	0.068@F2.0, AGC ON; 0 lux with IR	
	Lens	1.07mm@F2.5, horizontal field of view:180°(wall mounting), 360°(ceiling mounting)	
	Day&Night	ICR	
	WDR	Digital WDR	
	BLC	Support	
	HLC	Support	
	Digital NR	3D DNR	
Image	Video Compression	H.265/H.264/MJPEG	
	Н.265 Туре	Main Profile @Leve4.1 High Tier	
	Video Bit Rate	128Kbps~10Mbps	
	Main Stream Max.Frame Rate	 Fisheye + panorama + 3PTZ Fisheye + panorama + 3PTZ SoHz: 25fps@(2160×2160/1920×1920/1440×1440); 25fps@(1920×1080); 25fps@(960×540)*3 Golps@(2160×2160/1920×1920/1440×1440); 30fps@(1920×1080); 30fps@(960×540)*3 Fisheye + 4PTZ SoHz: 25fps@(2160×2160/1920×1920/1440×1440); 25fps@(960×540)*4 GoHz: 30fps@(2160×2160/1920×1920/1440×1440); 30fps@(960×540)*4 	
	Image Settings	Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc. adjustable through client or web browser	
	ROI	Support	
Interfaces	Network	RJ45	
	Video	CVBS output (BNC ≤ 1)	
	Auido	MIC IN×1; MIC OUT×1	
	Storage	Support SD card, up to 128 GB	
	RS485	Support	
	Alarm	1CH alarm input; 1 CH alarm output	
Fuention	Remote Monitoring	IE browser, CMS remote control	
	Online Connection	Support simultaneous monitoring for up to10 users and multi-stream transmission	
	Network Protocol	TCP/IP, UDP, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP	
	Interface Protocol	ONVIF, GB-T/28181-2011	
	Storage	SD card storage; network remote storage	
	Smart Alarm	Motion alarm; sensor alarm	
	IR Distance	20~30m	
	Protection Grade	IP67	NO
	Power Supply	DC12V/PoE	
	Power Consumption	< 12W	
	Opterating Environment	Temperature: -30°C~50°C; Relative humidity: 10%~90%	
	Dimension (mm)	Ø130×41	Ø130×39
	Weight (net)	Approx. 0.45KG	Approx. 0.43KG
	Installation	Wall mounting; ceiling mounting	

Sales +44(0)1707 330541 Enquiries sales@genieproducts.co.uk Website www.genieproducts.co.uk

