

Network Camera User Manual

Version: V7.1.18.3

Statement

Thank you for purchasing our product. If there are any questions or requests, please do not hesitate to contact the dealer.

This manual applies to network fisheye camera.

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Please pay your attention to exceptions below:

 Should any reasons below cause the product destroyed or service stop, we will assume no responsibility for your or third party's personal injury and property loss: ① No installation or use according to instruction strictly. ②For sake of state-building maintenance or public interest. ③ Cases of force majeure. ④ Your personal or third party reasons. (Include no limitation use of third party's products, software or components)
 Our company has never guaranteed the products for improper or illegal purposes and uses. This product cannot be used as medical & safety devices or other applications that will cause danger or injury. And loss or

responsibility caused by above uses, you must bear it by yourself. 3. With correct installation and use, this product can detect the illegal intrusion, but it can not avoid accidents and personal injury or property damage due to these accidents. Please be on the alert in your daily life, reinforce your safety awareness.

4. Our company assume no responsibility for any indirect or occasional or special or punitive damages, request, property damage or any loss of data or file. Within the max scope of law allowed, our company's compensation is no more than the products amount you paid.

Safety Instruction

This manual is intended to ensure that user can use the product properly without danger or any property loss. Please read it carefully and take care of it for further reference. Precaution measures are divided into "warnings" and "cautions", as below:

Warnings: Neglecting any of the warnings may cause death or serious injury.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.



Warning

Follow these safeguards to avoid death or serious injury



Caution Follow these precautions to Prevent potential injury or Property loss

Electrical safety regulations of the nation and the region must be strictly followed during installation or use.

1. Please use the matched power adapter from standard company.

2. Do not connect multiple IPCs with one single power adapter (Overload for adapter may lead to over-heat or fire hazard.

3. Shut down the power while connecting or dismounting the device. Do not operate with power on.

4. The device should be firmly fixed when installed onto the wall or beneath the ceiling.

5. Shut down the power and unplug the power cable immediately when there is smoke, odor or noise rising from the IPC. Then contact the dealer or service center.

6. Please contact the local dealer or latest service center when IPC works abnormally. Do not attempt to disassemble or modify the device yourself. (We shall shoulder no responsibility for problems caused by unauthorized repair or maintenance.



1. Make sure the power supply voltage is correct before using the camera.

2. Do not drop the camera or subject it to physical shock.

3. Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.

4. Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.

5. The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.

6. Do not place the camera in extremely hot, cold temperatures (the operating temperature should be between -30° C ~ 60° C), dusty or damp environment, and do not expose it to high electromagnetic radiation. 7. To avoid heat accumulation, good ventilation is required for a proper operating environment.

8. Keep the camera away from water and any liquid.

9. While shipping, the camera should be packed in its original packing.

10. Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Introduction

This manual describes in detail fisheye camera network connection, settings and web client and app client download, installation and interface operation.

1. System Requirement

Operating System: Microsoft Windows XP SP1 and above version / Vista / Win7 / Win 8 / Win 10 / Server 2003 / Server 2008 32bits

CPU: Intel Pentium IV 3.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

Web Browser: Internet Explorer 8 and above version, Safari 5.02 and above version, Mozilla Firefox 3.5 and above version and Google Chrome 4.5 and below version.

2. Network Connection

Before you start:

If you want to set the network camera via a LAN (Local Area Network), please refer to Section 2.1 Setting the Network Camera over the LAN.

If you want to set the network camera via a WAN (Wide Area Network), please refer to Section 2.2 Setting the Network Camera over the WAN.

2.1. Setting the Network Camera over the LAN

Purpose:

To view and configure the camera via a LAN, you need to connect the network camera in the same sub net with your computer, and install the IPC Search or VMS software to search and change the IP of the network camera.

2.1.1. Wiring over the LAN

The following figures show the two ways of cable connection of a network camera and a computer: **Purpose:**

To test the network camera, you can directly connect the network camera to the computer with a network cable as below:



Set network camera over the LAN via a switch or a router as below:



2.1.2. Detecting and Changing the IP Address

You need the IP address to visit the network camera.

Steps:

- 1. To get the IP address, you can choose either of the following methods:
 - Use IPC Search, a software tool which can automatically detect the online network cameras in the LAN and list the device information including IP address, sub net mask, port number, device serial number, device version, etc.as below.
 - Use the VMS client software to list the online devices. Please refer to the user manual of VMS client software for detailed information.
- 2. Change the IP address and sub net mask to the same sub net as that of your computer.
- 3. Enter the IP address of network camera in the address field of the web browser to view the live video.

Note:

- The default IP address is 192.168.1.168 and the port number is 80. The default user name is admin, and password is admin. And you are highly recommended change the initial password after your first login.
- For accessing the network camera from different sub nets, please set the gateway for the network camera after you logged in. For detailed information, please refer to Section 4.4.3.1 Configuring TCP/IP Settings.

ndex	Model	Device Name	Firmware Version	IP address	Subnet Mask	GateWay	DNS 🔺	Edit	Upgrade
	IPCAMERA	IPC	3518EV200_IMX323	172.18.196.178	255.255.248.0	172.18.192.2	172.18.19		0.0.0.
	IPCAMERA	IPC	DM365+AR0130_5.1.3.5	172.18.190.111	255.255.248.0	172.18.189.189	172.18.18 =	IP Address	0.0.0.
	HS_DVR	DVR	DVR_3531_16_AHD_M	172.18.190.44	255.255.248.0	172.18.188.188	172.18.18	Subnet Mask	255.255.255.
	HS_DVR	DVR	DVR_3531_16_AHD_M	172.18.190.50	255.255.248.0	172.18.189.189	172.18.18		
	IPCAMERA	IPC	S2L55M_OV4689_X_6	172.18.194.194	255.255.248.0	172.18.192.2	172.18.19	GateWay	0.0.0.
	IPCAMERA	IPC	S2L55M_OV4689_X_6	172.18.193.18	255.255.248.0	172.18.192.2	172.18.19		
	IPCAMERA	IPC	S2L55M_OV4689_X_6	172.18.196.113	255.255.248.0	172.18.192.2	172.18.19	DNS	0.0.0.
	IPCAMERA	IPC	S2L33M_IMX322_X_6	192.168.0.2	255.255.248.0	172.18.192.2	172.18.19	HTTP Port	
	DVR	DVR	DVR_3531_16_AHD_M	172.18.190.53	255.255.248.0	172.18.188.188	172.18.18	mirron	
0	IPCAMERA	IPC	S2L55M_OV4689_W_6	172.18.190.241	255.255.248.0	172.18.190.1	172.18.19	RTSP Port	
1	IPCAMERA	IPC	DM368+IMX222_X_5	172.18.195.14	255.255.248.0	172.18.192.2	172.18.19		
2	IPCAMERA	IPC	S3L33M_IMX290_W_6	172.18.196.207	255.255.255.0	172.18.192.2	172.18.19	DHCP Enable	
3	IPCAMERA	IPC	S3L33M_IMX290_W_6	172.18.197.98	255.255.248.0	172.18.192.2	172.18.19	Username	admin
4	IPCAMERA	IPC	S2L33M_IMX322_W_6	172.18.199.158	255.255.248.0	172.18.192.2	172.18.19	Username	aumin
5	IPCAMERA	IPC	S2L33M_IMX322_W_6	172.18.199.66	255.255.248.0	172.18.192.2	172.18.19	Password	
6	IPCAMERA	IPC	S2L33M_IMX322_W_6	172.18.194.200	255.255.248.0	172.18.192.2	172.18.19		
7	NVR	NVR	NVR_HI3798_9_v6.1.34	172.18.198.88	255.255.248.0	172.18.192.2	202.96.1		
8	IPCAMERA	IPC	S2E66_IMX178_W_6.1	172.18.194.27	255.255.248.0	192.168.1.1	192.168.: -		Modify

2.2. Setting the Network Camera over the WAN

Purpose:

This section explains how to connect the network camera to the WAN with a static IP or a dynamic IP.

2.2.1. Static IP Connection

Before you start:

Please apply a static IP from an ISP (Internet Service Provider). With the static IP address, you can connect the network camera via a router or connect it to the WAN directly.

Connecting the network camera via a router

Steps:

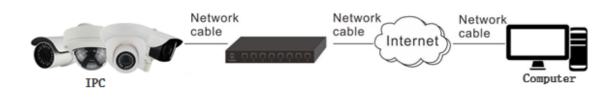
(1) Connect the network camera to the router.

(2) Assign a LAN IP address, the sub net mask and the gateway. Refer to *Section 2.1.2* **Detecting and Changing the IP Address** for detailed IP address configuration of the camera.

(3) Save the static IP in the router.

(4) Set port mapping, e.g., 80, 8000, and 554 ports. The steps for port mapping vary according to the different routers. Please call the router manufacturer for assistance with port mapping.

(5) Visit the network camera through a web browser or the client software over the internet.



Connecting the network camera with static IP directly

You can also save the static IP in the camera and directly connect it to the internet without using a router. Refer to Section 2.1.2 **Detecting and Changing the IP Address** for detailed IP address configuration of the camera.



2.2.2. Dynamic IP Connection

Before you start:

Please apply a dynamic IP from an ISP. With the dynamic IP address, you can connect the network camera to a modem or a router.

Connecting the network camera via a router

Steps:

(1) Connect the network camera to the router.

(2) In the camera, assign a LAN IP address, the sub net mask and the gateway. Refer to Section **2.1.2** Detecting and Changing the IP Address for detailed LAN configuration.

(3) In the router, set the PPPoE user name, password and confirm the password.

(4) Set port mapping. E.g. 80, 8000, and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping.

(5) Apply a domain name from a domain name provider.

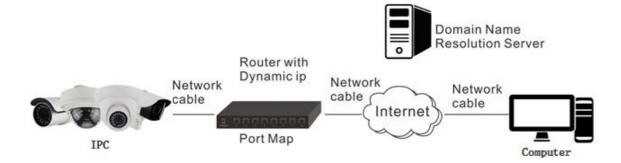
(6) Configure the DDNS settings in the setting interface of the router.

(7) Visit the camera via the applied domain name.

Note: The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the camera. To solve the inconvenience of the dynamic IP, you need to get a domain name from the DDNS provider (E.g. DynDns.com). Please follow the steps below for normal domain name resolution and

private domain name resolution to solve the problem.

• Normal Domain Name Resolution



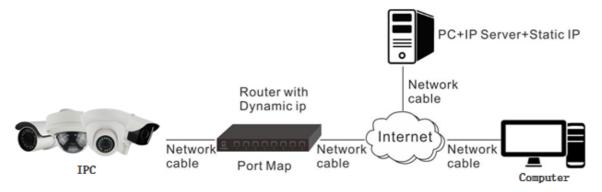
Steps:

(1) Apply a domain name from a domain name provider.

(2) Configure the DDNS settings in the DDNS Settings interface of the network camera. Refer to Section **4.4.3.2** Configuring DDNS Settings for detailed configuration.

(3) Visit the camera via the applied domain name.

• Private Domain Name Resolution



Steps:

(1) Install and run the IP Server software in a computer with a static IP.

(2) Access the network camera through the LAN with a web browser or the client software.

(3) Enable DDNS and select IP Server as the protocol type.RefertoSection5.3.4 Configuring DDNS Settings for detailed configuration.

3. Access to the Network Camera by Client Software

The product CD contains the VMS client software. You can view the live video and manage the camera with the software.

Follow the installation prompts to install the software. The control panel and live view interface of VMS client software are shown as bellow.

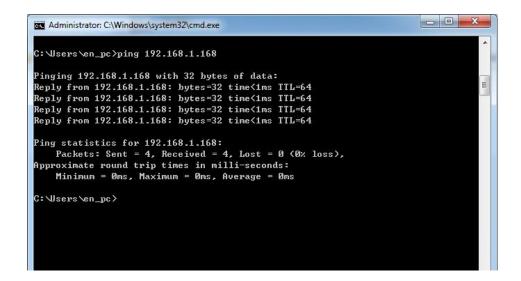
Video Manager System			00
(詳細時) 同時 通時 和助	40 40 51		NE NE
经 添加硬件	配置视频存储	管理用户访问	
使用向导扫描网络中的摄象机及其通道。 向导会自动将检测型的摄象机炎加到系统 中。	描記记录视频的质量、位置在同时记录以 及应要将其存储在何处。	为本系统创建用户。	
王 許可证	软件升级计划	実験教程	
息的系统在以试用模式运行 要购买许可证请联系怎的区域经纳商。	未找到更新。 没有关于软件升级计划的信息。	查看我们的視然執程。 了解每个向局的详 编信息。 版示查统	

Note: For detailed information about the software, please refer to the user manual of the VMS Client Software.

4. Access to the Network Camera by Web Client

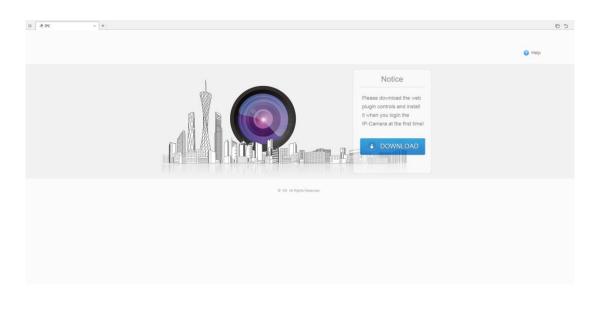
4.1. Preparation Before Install

In ensuring the IPC and the current user's computer after completion of all the hardware connection and power equipment normal, open the computer, run ping the IP address of the IPC (Note: the IP address of the IPC in LAN must be unique). Such as IPC IP for 192.168.1.168, run ping 192.168.1.168. If there is a response to the IPC as shown in the figure below, said the network connection is normal, you can download the plug-in.



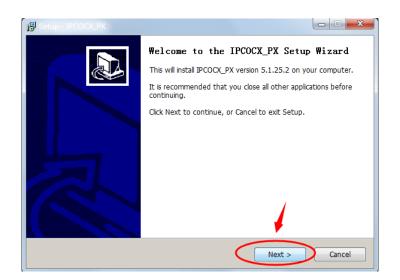
4.2. Install the HsWebplugin.exe Controls

Please open the IE browser and input the IP address of IPC in the address bar.(For the first time to use the default address is: http://192.168.1.168), you will be prompted to download information. As shown below:



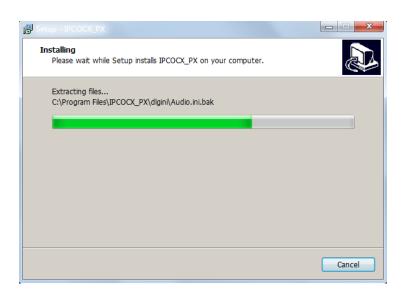
Click to download, and you can choose "Run" or save directly the installation. As shown below: click "Run".

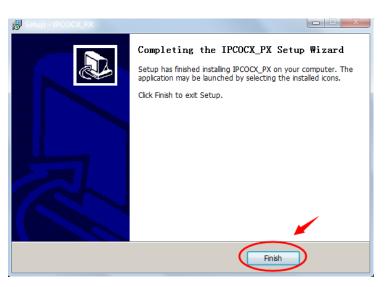
Will pop up the Setup Wizard after click "Run", as shown below:





🔂 Setup - IPCOCX_PX	
Ready to Install Setup is now ready to begin installing IPCOCX_PX on your computer.	
Click Install to continue with the installation, or click Back if you want to rev change any settings.	view or
Destination location: C:\Program Files\IPCOCX_PX	*
Start Menu folder: IPCOCX_PX	
	-
<	Þ
< Back Install	Cancel

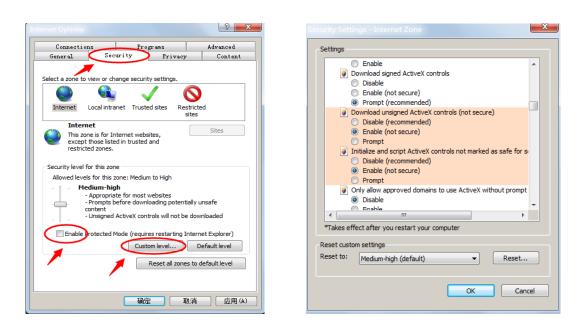




Click "Finish" and login page again, enter the login interface as shown below:



Note: If the system prompt "installation failure", please uncheck the "cancel protection mode" in the setting safety of "Internet options" and enter the "custom level" ActiveX control Settings as shown below, and reinstall HsWebplugin.exe after save settings.



4.3. Interface operations and Usage:

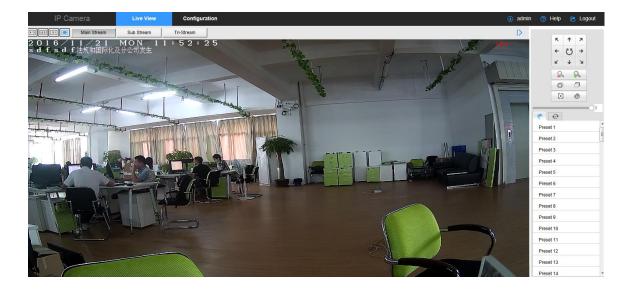
4.3.1. Login

Login for the first time must input account: " admin " and password: " admin " on the login interface as below.



4.3.2. Live preview

4.3.2.1. Video Preview



[switching window size] In the real-time preview interface on the top left of the preview ratio option, click "4: 3", "16: 9", "X1", "full screen" to switch the video preview scale.

【switching option】 In the upper left of the real-time preview interface, there is a stream switching option. Click "Main Stream", "Sub Stream" and "Triple Stream" to switch preview video stream.

【Capturing Pictures Manually】 In the live view interface, click in on the toolbar to capture the live pictures. The captured image will be saved as JPEG file in your computer. The saving paths of the captured pictures and clips can be set on the Configuration > Local Configuration page.

【Recording Pictures Manually】 In the live view interface, click it to record the live view. The recorded file will be saved as avi file in your computer. The saving paths of the recorded can be set on the Configuration > Local Configuration page.

In the live view window as follow Figure, click $\blacktriangleright I \blacksquare$ on the toolbar to start/stop the live view of the camera.

E € Q

Open Sound Off

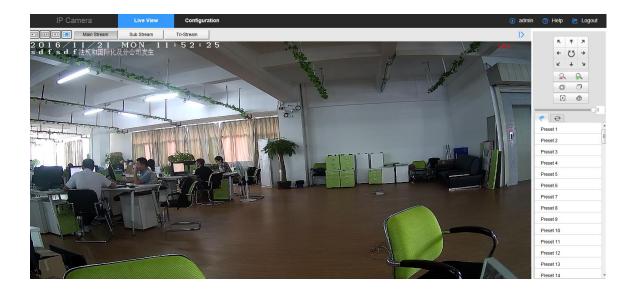
The preview interface operation buttons are shown in the following table.

Icon	Description
▶/■	Start/Stop live view.
u:3	The window size is 4:3.

15:9	The window size is 16:9.
	Self-adaptive window size.
1	Manually capture the picture.
	Manually start/stop recording.
Č '	Open/close talk back
☑ Open Sound Off / ☐ Open Sound Off	Turn on/off Sound.

4.3.2.2. Camera settings PTZ, zoom, cruise

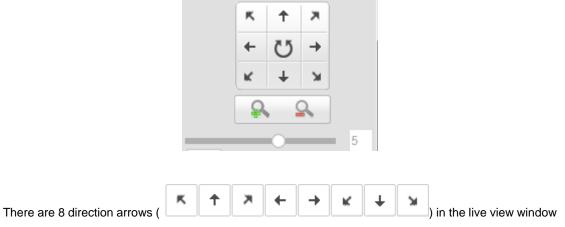
In the live view interface, you can use the PTZ control buttons to realize pan/tilt/zoom control of the camera.



[PTZ control] On the live view page, click * to show the PTZ control panel or click * to hide it.

1 PTZ direction control

Click the direction buttons to control the pan/tilt movements.



when you click in the relative positions.

The PTZ interface operation buttons are shown in the following table.

lcon	Description
C	Auto Scan
4	Zoom in/out
5	Adjust speed of pan/tilt movements

2 Setting a Preset

(1) In the PTZ control panel, select a preset number from the preset list.

e 😔		
Preset 1		
Preset 2		
Preset 3		
Preset 4		
Preset 5		
Preset 6		
Preset 7		

(2) Use the PTZ control buttons to move the lens to the desired position.

Pan the camera to the right or left.

Tilt the camera up or down.

Zoom in or out.

(3) Click

to finish the setting of the current preset.

(4) You can click to delete the preset.

Note: You can configure up to 128 presets.

3 Calling a Preset

This feature enables the camera to point to a specified preset scene manually when an event takes place. For the defined preset, you can call it at any time to the desired preset scene. In the PTZ control panel,

select a defined preset from the list and click to call the preset.

🥐 😥]			
Preset 1	- 🌩	Ø	ŵ	
Preset 2				
Preset 3				
Preset 4				
Preset 5				
Preset 6				
Preset 7				

(4) Setting / Calling a Cruise

Note:

No less than 2 presets have to be configured before you set a cruise.

Steps:



to enter the cruise configuration interface.

- (2) Select a path No., and click to add the configured presets.
- (3) Select the preset, and input the cruise duration and cruise speed.
- (4) Click OK to save the first preset.
- (5) Follow the steps above to add the other presets.

		Add Cr	uise l	Path	
		Preset Cruise Time Cruise Speed Ok	Prese		• ancel
(6) Click	to save a cruise.				

(7) Click $^{\triangleright}$ to start the cruise, and click $^{\Box}$ to stop it.

(8) (Optional) Click to delete a cruise.

Note: Normal camera no PTZ, zoom, cruise settings interface, please take the camera physical specific functions shall prevail.

4.4. Playback

In the main interface, click	Playback	into the video palyback interface.

IP Camera	Live View	Playback	Configuration	٩	admin 🧿	Help	🖄 Logout
				Status	et et Nov		
					Sun Mon Tu 30 31 1		
					6 7 8	9 1	0 11 12
					13 14 15 20 21 25		7 18 19
					20 21 21 27 28 29		4 25 26
					4 5 6		
					Start Time	00	00 00
					Stop Time	23	59 59
					File Type	Norm	al Record 💌
						Q	
				B * H			
10:00 11:00	12:00 1	3:00 14:00	2016-11-21 15:26:05 15:00 17:00 18:00	(→ ± 19:00 20:00 21:00			
				Normal Record Alarm Record			

Here you can query the video files in the SD card according to the recording type (Normal Record, Alarm Record) and recording time, playback, screenshot, clip and download to the video file.

Note: No SD card storage video camera and no video playback settings interface, please take the camera physical specific functions shall prevail.

4.5. Network Camera Configuration

4.5.1. Local Configuration

Click	Live View	Playback	Configuration	into	the	parameter
configu	ration screen, where you	can manually choos	e image format, and set	the sto	orage p	bath for you

record video files log export files as well as capture files. As shown below:

	IP Camera	Live View P	layback	Configuration	
₽	Local Configuration	Local Configuration			
	Local Configuration				
	System	Record File Settings			
0	Network	Save record files to	C:\Users\su	mmer	Browse
Ð	Network	Save downloaded files to	C:\IPC\Dow	nloadFiles	Browse
<u>.0</u> .	Video	Picture and Clip Settings			
1	Image				_
		Save capture files in live view to	C:\Users\su	mmer	Browse
Ë	Events	Save capture files when playbac	k to C:\IPC\Play	backPics	 Browse
		Save clips to	C:\IPC\Play	backFiles	Browse
		Annualdan Frank			
		Anmelden Export			
		Log export save path	C:\Users\su	mmer	Browse

[Record File Settings] Set the saving path of the recorded video files. Valid for the record files you recorded with the web browser.

[Save record files to] Set the saving path for the manually recorded video files.

[Save downloaded files to] Set the saving path for the downloaded video files in playback mode.

[Picture and Clip Settings] Set the saving paths of the captured pictures and clipped video files. Valid for the pictures you captured with the web browser.

[Save capture files in live view to] Set the saving path of the manually captured pictures in live view mode.

[Save capture files when playback to] Set the saving path of the captured pictures in playback mode.

[Save clips to] Set the saving path of the clipped video files in playback mode.

[Picture and Clip Settings] Set the saving paths of the captured pictures and clipped video files. Valid for the pictures you captured with the web browser.

[Save capture files in live view to] Set the saving path of the manually captured pictures in live view mode

【Anmelden Export】 Set the saving paths of the exported log

[Log export save path] Set the saving path of the exported log

Note: You can click Browse to change the directory for saving the clips and pictures.

4.5.2. System

Click (1)

System

into the system configuration interface.

4.5.2.1. System Configuration

1 Device Information

	IP Camera	Live View	Playba	ck	Configu	ration
Ţ	Local Configuration	Device Information	Time Settings	DST	Maintenance	Fisheye Parameters
	System	Basic Information	1			
	System Configuration	Device Name			IDO	
	Scheduled Reboot	Device Name			IPC	
	Log Search	Firmware Version			S2E66_IM	IX178_W_6.1.45.4
	Security	Software Version			6.1.46.3	
	SDCard	WEB Version			6.1.45.161	1031
Ð	Network	Number of Channels			1	
<u>Q.</u>	Video					
1	Image					
▤	Events					

Here you can see the basic information of the current device.

[Device Name] The name of the current IPC.

[Firmware Version] The current version of the IPC.

[Software Version] The current HsWebplugin.exe control version of the IPC.

[WEB Version] The current page version of the IPC.

[Number of Channels] The current channels of the IPC, the default is 1.

② Time Setting

Click "Time Setting" into the set the time interface.

	IP Camera	Live View	Playba	ck	Configu	uration
₽	Local Configuration	Device Information	Time Settings	DST	Maintenance	Fisheye Parameters
	System	Time Settings				
	System Configuration Scheduled Reboot	Time Zone			GMT+08 T	Taipei, Beijing, Chongqing, Urumqi, Hong Kong, Pert/
	Log Search	Time Sync.				
	Security SDCard	Time in Camera			2016-11-2	24 16:17:30
		◎ NTP				
© <u>0</u> :	Video	SNTP Server			time.windo	
1	Image	Set Manually				
Ë	Events	Time Settings			2016-11-	-24 16 💌 17 💌 18 💌
		Synchronize w	ith computer time			
		Computer time			2016-11-2	24 16:16:20
		VR prohibit mo	odification IPC Time			

[NTP] The IPC time will synchronization with network, and you can change the different time zones. (This feature requires that IPC network environment can connect to the Internet.) Click on the "Save" after completing the settings.

[Set Manually] Setting the IPC 's date and time manually. Click on the "Save" after completing the settings.

[Synchronize with computer time] The IPC will synchronize with the computer time and date that your connect currently. Click on the "Save" after completing the settings.

[NVR prohibit modification IPC time] The IPC time will be not affected by the backend storage devices (such as NVR and XVR, etc.) after check this option. The IPC 's time will be running according to the user settings.

③ DST

Click "DST" into the daylight saving time setting interface.

	IP Camera	Live View	Play	back		Cont	īgu	ration			
₽	Local Configuration	Device Information	Time Setting	s DST	Ma	aintenanc	e	Fisheye	Paran	neters	
	System	Enable DST									
	System Configuration	Start Time		Apr	•	First	•	Sun	•	02	•
	Scheduled Reboot	End Time		Oct	•	The End	•	Sun	•	02	•
	Log Search	DST Bias		30 minute	es						•
	Security										

To enable daylight saving time here, set the start time, end time, and offset time for Daylight Saving Time.

(4) Maintenance

Click "Maintenance" into the setup interface.

	IP Camera	Live View	Playb	ack	Configu	ration		👤 admin
\Box	Local Configuration	Device Information	Time Settings	DST	Maintenance	Fisheye Parameters		
	System	Reboot System						
	System Configuration	Reboot Sy	(stem		Reboot			
	Scheduled Reboot	1(600010)	atom		1100001			
	Log Search	Default						
	Security	Restore Factor	y Settings		Fully resto	re the device parameters to the factory settings		
	SDCard	1 in sec. do						
Ð	Network	Upgrade						
-		Firmware					Browse	Upgrade
Q.	Video	Connection status						
1	Image	Note			The upgrad	e process will take about 1-6 minutes, please do not turn off the powe	er,The device reboots automa	tically after upgrading.
₿	Events							

[Reboot System] The IPC will restart again automatically after clicking "Reboot System".

[Restore Factory Settings] The IPC will restore to factory default parameters automatically after clicking this option.(Camera IP and other network parameters will not be restored to the factory, other settings will

be restored to factory defaults.Please operate this function carefully).

[Firmware]Clicking browse to add upgrade file package, and upgrading the IPC program. (Please careful operation, the error of upgrade file will cause equipment system operate abnormally).

(5) Fisheye Parameters

Click "Fisheye Parameters" into the fisheye parameter setting interface.

	IP Camera	Live View	Play	back	Configu	iration	
₽	Local Configuration	Device Information	Time Setting:	S DST	Maintenance	Fisheye Parameter	5
	System	Stream Mode		Mode 3: F	isheye (Main Strea	am) + Fisheye (Sub 💌	
	System Configuration						
	Scheduled Reboot	Mount type		Table		•	
	Log Search	Note:The change of r	mounting type wil	also chan	ge the live view mo	ode, image effect, PTZ co	ontrol, preset scene, etc.

Here you can set stream mode and mount type, select stream mode different camera output

corresponding to the different stream.

4.5.2.2. Scheduled Reboot

Scheduled Reboot Click into the scheduled reboot interface. **IP** Camera Live View Playback Configuration Scheduled Reboot Local Configuration Q System ----Scheduled Reboot System Configuration Monthly ▼ 03 Day 03 Hour 03 Minute Scheduled Reboot

It can be set "cycle" and "time" from the pull down menu, such as setting "every day to restart in 1:00 am", click to save. The IPC will be restarting every day at 1:00 am.

4.5.2.3. Log Search

Click into the log search interface.

	IP Camera	Li	ve View Pl	ayback	Configuration				
₽	Local Configuration	Log Se	arch						
	System	ID	Time	Detail			*	Start Time :	
	System Configuration	1	2016-11-24 16:27:34	Motion Alarm		1	=	2016-11-24 00:00:00	11
	Scheduled Reboot	2	2016-11-24 16:21:33	Motion Alarm				2016-11-24 23:59:59	**
	Log Search	3	2016-11-24 16:17:36	Motion Alarm					
	Security	4	2016-11-24 16:16:15	Motion Alarm				Search	
	SDCard	5	2016-11-24 16:15:25	Motion Alarm				Clear	
~		6	2016-11-24 16:15:15	Motion Alarm				0.00	
Ð	Network	7	2016-11-24 16:14:41	Motion Alarm				Anmelden Export	
Q.	Video	8	2016-11-24 16:14:29	Motion Alarm					

[Search] It can find running record of IPC from the start time to end time.

[Clear] Clicking clear button to empty all logging.

[Anmelden Export] Save the contents of the current log to the location you specified in txt format.

4.5.2.4. Security

Click	Security into th	e user manageme	nt interface.		
	IP Camera	Live View	Configuration		
P	Local Configuration	User			
()	System	Viewer	Authority	Edit	Delete
	System Configuration Scheduled Reboot Log Search	admin	Admin	Edit	
	Security				
$\textcircled{\textbf{0}}$	Network				
	Video				
20	Image				
	Events				
					Add User

Here you can click "Edit" to modify the original account password, and click" Add User "to create / delete an administrator account, create / delete operator account, or create / delete user account, a total of 10 accounts can be created. The system administrator account is prohibited to delete.

4.5.2.5. SD Card

SDCard

Click

into the SD card management interface.

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	IP Camera	Liv	e View	Playback	Configuration		
P	Local Configuration	SDCard	Rec Setup				
i	System	NO.		Status	Total Capacity	Residual Capacity	Device Type
	System Configuration	1		Using	61201MB	2185MB	SDCard
	Scheduled Reboot						
	Log Search						
	Security						
	SDCard						
\bigcirc	Network						
	Video						
	Image						
	Events	•			III		4
							Format

Here you can view the SD card detected in the camera, and SD card format.

IP Camera	Live View	Playback	Configuration
Local Configuration	SDCard Rec Setup		
(i) System	Enable Record		
System Configuration Scheduled Reboot	Record Mode	Overwrite	
Log Search	Week	Every	All Day
Security	Schedule1	00 : 00	00 : 00
SDCard	Schedule2	00 : 00	00 : 00
S Network			
Video	Schedule3	00 : 00	00 : 00
🔚 Image	Schedule4	00 : 00	00 : 00
Events	Save		

Click "Rec Setup" into the recording setting interface.

Here you can open the SD card video, set the SD card recording schedule and recording mode. Note: No SD card video recording function of the camera No SD card management interface, please take the camera physical specific functions shall prevail.

4.5.3. Network

Click Network into the network setting interface.

4.5.3.1. Basic Setup

	IP Camera	Live View	Playback	Configuration	
₽	Local Configuration	TCP/IP Port			
	System	NIC Settings			
Ø	Network		DHCP		
	Basic Setup	IPv4 Address	172.18.194.27		Test
	Advance Setup	IPv4 Subnet Mask	255.255.248.0		
Q. •	Video	IPv4 Default Gateway	192.168.1.1		
<u>**</u>	Image	DNS Server			
Ë	Events	Preferred DNS Server	192.168.1.1		

① TCP/IP

The IPC is connected to the router that have opened the DHCP function, check the DHCP option, and the IPC can be get automatically IP address. Net mask. Default Gateway and DNS $_{\circ}$

Don't check the DHCP, you can manually modify the IP address Net mask Default Gateway and DNS for IPC.

2 Port

Click "port" into the port settings interface, can manually modify the IPC's HTTP, RTSP and other port numbers.

	IP Camera	Live View	Playback	Configuration
₽	Local Configuration	TCP/IP Port		
	System	Port		
Ø	Network	HTTP Port	80	
	Basic Setup	RTSP Port	554	
	Advance Setup	HTTPS Port	443	
.0. 90	Video	Protocol Port		
1	Image	ONVIF Port	8999 🔽 ON	VIF Protocol Enable
Ë	Events	HIK Port	8000 📝 HII	K Protocol Enable

4.5.3.2. Advance Setup

Click ______ into the advance network setting interface.

1 DDNS

	IP Camera	Live View	Playback	С	onfiguration		
Q	Local Configuration	DDNS	FTP	SMTP	P2P	Cloud	Other
	System	DDNS					
Ø	Network	DDNS					
	Basic Setup	DDNS Type	Oray			T	
	Advance Setup	Site Name					
<u>Q.</u>	Video	DDNS Account					
1	Image	DDNS Password					
	Funda	Confirm Password					
Ë	Events	Status	Login fa	ailed			
		Service Type	Ordinar	ry User			
		Links to service providers	oray D	DNS to apply	Oray DDNS to hel	p	

Open the DDNS (Dynamic Domain Name Server), click the link to register DDNS service account. Fill in the account name and password that you registered. Then you can access your IPC through DDNS. (Note: IPC must be connected to the Internet).

② FTP

Click"FTP"into the FTP setting interface.

	IP Camera	Live View	Playba	ick	Configuration		
₽	Local Configuration	DDNS	FTP	SMT	P P2P	Cloud	Other
	System	FTP					
Ø	Network	FTP Server	19	2.168.1.1		Test	
	Basic Setup	Port	Port 21				
	Advance Setup	User Name	ftp	user		Anonymous	
.Q. •	Video	Password	••	••			
1	Image	Confirm Password	••	••			
,,	Fuenda	FileUpload	de	fault_folder			
Ë	Events	AutoCover					
		Upload Via FTP	JF	PEG			

[FTP Server] Fill in the FTP server address.

[Port] Fill in the FTP server port number.

[User Name] Fill in the FTP server username.

[Password] Fill in the FTP server password.

[Confirm Password] Fill in the FTP server password.

[File Upload] Automatically creates a folder that you named in the FTP storage path.

[Auto Cover] When enabled, the oldest FTP server will be overwritten automatically when the FTP server is full.

【Upload Via FTP】 In the drop-down menu, select FTP file format, JPEG image format and AVI video for selection. Click on the "Save" after completing the settings.

③ SMTP

Click"SMTP"into the SMTP setting interface.

	IP Camera	Live View	Playback	Co	onfiguration		
\Box	Local Configuration	DDNS	FTP	SMTP	P2P	Cloud	Other
	System	Sender					
Ð	Network	Sender	user@	domain.com			
	Basic Setup	SMTP Server	smtp.d	omain.com			
	Advance Setup	Port	25				
<u>Q.</u>	Video	Upload Via SMTP	MESS	AGE	•]	
1	Image	Alarm Duration	10 s		•]	
,,	Fuente	My Server Requires	s Authentication				
Ë	Events	User Name	smtpus	ser			
		Password	••••				
		Confirm Password	••••				
		Receiver					
		Email1	user@	domain.com	Test		
		Email2				Test	
		Email3				Test	

Sender

[Sender] Fill out the full address of the sender mailbox.

[SMTP Server] Fill in your email server address.

[Port] Fill in your email server port.

[Upload Via SMTP] In the drop-down menu, select SMTP file format, JPEG image format, AVI video and message for selection. Click on the "Save" after completing the settings.

[Alarm Duration] Set the sending interval.

[My Server Requires Authentication] When enabled, the server and user are authenticated to ensure that the data is sent to the correct client and server.

[User Name] Fill out the send mailbox user name.

[Password] Fill out the send mailbox password.

[Confirm Password] Fill out the send mailbox password.

Receiver

[Email] Fill in the full address of your inbox, here up to 3 inboxes, click on the completion of the completion of the "test" to ensure that all the correctness of the input information and network connectivity of the camera.

④ P2P

Click"P2P"into P2P configuration interface.

IP Camera	Live View	Playt	ack Con	figuration			
Local Configuration	DDNS	FTP	SMTP	P2P	Cloud	Other	
System							
S Network							
Basic Setup	End Sector				118月1日		
Advance Setup							
▶ Video		Å.					
🔼 Image	回水湯	799 		St i			
Events	986116312	2325	Android APP		IOS APP		
	Connection Status : P2P connection successful						
	Save						

This function is mainly used mobile client for remote monitoring. Currently, the FreeIP PRO client we offer has Android version and iOS version. Users can be added to the appropriate mobile client by scanning the QR code. (Remote monitoring requirements IPC connected to the Internet).

(5) Cloud

Click "Cloud" into the cloud setting interface.

	IP Camera	Live View	Playb	ack Co	nfiguration		
₽	Local Configuration	DDNS	FTP	SMTP	P2P	Cloud	Other
	System	Cloud					
©	Network	Cloud Storage Type	C	ropbox		▼ Unb	ound
	Basic Setup	Web	ht	tps://www.dropbox.	.com/1/oauth2/author	ize?client_id=4u	
	Advance Setup	Auth Code					
<u>Q.</u>	Video	User Name					
1	Image	Total Capacity					
Ë	Events	Used Capacity					

[Cloud Storage Type] Select the cloud storage type, Dropbox or Google in the drop-down menu.

[Web] Depending on the type of cloud storage selection play a cloud url, login web site registered account according to clew clouds.

[Auth Code] Login cloud web, the verification code will display on the cloud storage interface, than copy it in the space.

Fill in the verification code, click on the "Bind" after the success. "User name", "Total Capacity" and "Used Capacity" that information will be automatically displayed.

6 Other

Click "Other" into the video and audio setting interface.

	IP Camera	Live View	Playback	Conf	iguration				
Ţ	Local Configuration	DDNS	FTP	SMTP	P2P	Cloud	Other		
	System	Other							
Ø	Network	Video Password Authentication							
	Basic Setup								
	Advance Setup	Save							

Here, the video password authentication is enabled. All the devices connected to the camera through the ONVIF protocol must be connected to the camera.

⑦ Wifi

Click "Wifi" into the video and audio setting interface.

IP Camera	Live View	Play	vback	Configura	tion			
Local Configuration	DDNS	FTP	SMT	Р	P2P	Cloud	Other	Wifi
(i) System	Wifi					Scan		
S Network	SSID		Encryption	S	Signal Strength			
Basic Setup								
Advance Setup								
Video								
🖾 Image								
Events								
	Status		Connection Failed	ł				
	SSID							
	Key							
	Encryption		None		[•		
	DHCP							
	IP Address							
	Netmask							

Here you can configure the camera to connect the WiFi to the camera, click Scan to search for a nearby WiFi connection, select the camera you want to connect to WiFi, enter the WiFi password, turn DHCP on or not, and click Save.

Note: Normal camera no"Wifi" setting interface, please take the camera physical specific functions shall prevail.

4.5.4. Video

Click Video into the video and audio setting interface.

4.5.4.1. Video

	IP Camera	Live View	Con	nfigur	ation			
Ţ	Local Configuration	Video						
()	System	Device Name		IPC				
\bigcirc	Network	StreamType		Tri-Stream				
D	Video	Codec		H264:2048x1536,H264:720x480,H264:35				
	Video	00000		1120	4.2040/1000,	,11204.7	20,100,1201.002,200	
	Audio	Stream1	Stream	2	Stream	n2		
	Image		Stream	2				
(II)	Events	Framerate			30	-	fps	
ųΞμ	Lvents	Bit Rate			6144		Kbps	
		Rate Control			CBR	•		
		I-Frame Interval			1	•	s	
		Profile			Main Profile	e 💌		
		Save						

[Device Name] Setting your camera name.

[Stream Type] Here Single/Third available.

【Codec】Choose coding and resolution.(Note: The coding scheme is based on the actual scheme type.) 【Framerate】 Set the frame rate of the current output video of the device. (Note: Frame rate is too low will cause the video caton)

[Bit Rate] Support 64-12000kbps. The higher the bit rates the better video quality, but it occupy the greater network bandwidth and the greater the pressure transmission.

【Variable (fixed) code rate】 Switch the code rate output mode in the drop-down menu, fixed rate and variable rate.

[I Frame Interval] IPC acquisition keyframe interval, can be set 1-5s.

Note: The supported video encoding may be different according to the different platform.

4.5.4.2、Audio

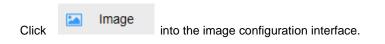
Click

Audio into the audio configuration interface.

	IP Camera	Live View	Playback	Configuration
₽	Local Configuration	Audio Configuration		
	System	Audio Enable		
Ø	Network	Audio Input	Mic Input	•
<u>Q.</u>	Video	Volume		
	Video			
	Audio	Input Volume		50
1	Image	Output Volume		50

Open the audio, pull bar to set the input volume (range 0-100 range optional). Click "Save" to complete the setting.

4.5.5. Image



4.5.5.1. Image

	IP Camera	Live View	Playback	Configuration		
Q	Local Configuration	Image Adjustment				
	System				Image Adjustment	-
•	Network		S Jalo		Brightness	128
	Video	- Aller	Elim		Contrast	128
	Image		1122	Sur.	Saturation	128
	Image		All a		Sharpness	128
	OSD				Default	
	Events				IRcut	
				T	Exposure Settings	
					BackLight Settings	
					White Balance	
					Video Adjustment	
					Image Enhancement	

[Brightness/Contrast/Saturation/Sharpness] You can input the value manually to set brightness, contrast, saturation, sharpness. These parameters shall be set according to the actual environment. The scope of valid values is from 0 to 255, you can drag the slider to set, and the default value is 128.

Brightness		128
Contrast	O	128
Saturation		128
Sharpness		128

[IRcut] Select the day/night switch mode, and configure the IR switching time from this option.

IRcut		•
Ircut Filter Time	3	•
Ircut Mode	LDR Auto	•

(Exposure Settings**)** It have automatic mode and manual mode, the manual mode when the click, "Gain Control" is active, valid values are (0-255) and the default value is 128. At the same time can set the speed of the electronic shutter.Click "Save" to complete the setting.

Exposure Settings									
Exposure Settings	Auto	Manual							
Exposure Time	1/25	•							
Gain Control	0		0						

[White Balance] It have automatic mode and manual mode, the manual mode when the click, "Red gain" and "green gain", "Blue Gain" is active, valid values are (0-255) and the default value is 128. Click "Save" to complete the setting.

White Balance		•
White Balance	Auto	•
Red Gain	0	0
Green Gain	0	0
Blue Gain	0	0
Dide Odli		0

[Image Enhancement] It have flicker control and sensor linear WDR setting.

• Flicker Control: Indoor PAL, Indoor NTSC and outdoor are selectable. The flash mode is selected according to the camera installation environment and the flicker standard; normally 50 Hz for PAL standard and 60 Hz for NTSC Standard.

• WDR: Wide Dynamic Range can be used when there is a high contrast of the bright area and the

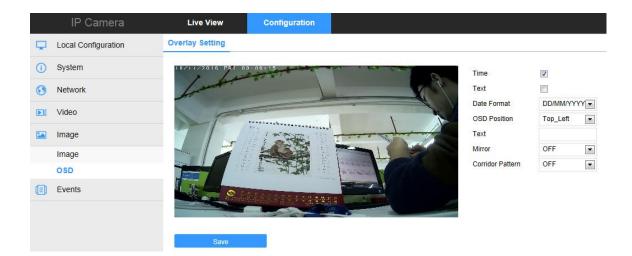
dark area of the scene.

Image Enhancement									
Flicker Control	Indoor PAL								
Sensor Linear WDR	Shut Down								

4.5.5.2、OSD

Click

into the overlay setting interface.

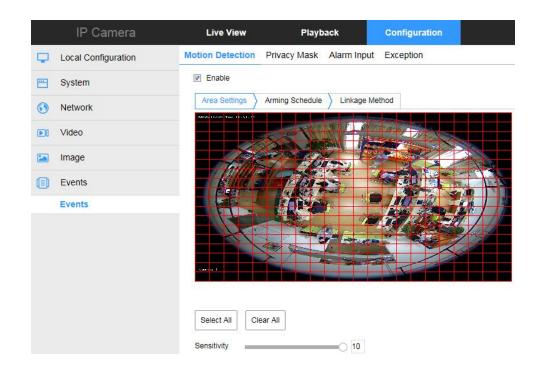


[Overlay Setting] It allows you to set the Date Format, OSD Position, OSD Text and mirror, and will be displayed in the preview screen.

4.5.6. Events

4.5.6.1. Motion Detection

Click Events into the motion detection setting interface.



[Select All] Motion detection range to monitor all of the area, which Consists of 396(22*18) small squares. Of course you can choose a combination of several small squares among them as motion detecting area.

[Clear All] Clearing all the motion detecting area that selected currently.

[Sensitivity] Can be selected 0 to 10, and the higher the value, the greater the sensitivity.

Click "Arming Schedule" into the arming time setting interface.

IP Camera	Live View	Playb	ack	Configuration		
Local Configuration	Motion Detection	Privacy Mask	Alarm Input	Exception		
System	Enable					
Network	Area Settings	Arming Schedule	> Linkage Me	thod		
0. Video	× Delete	🔟 Del All 🛛 🕂	Select All			
Image	Mon 0	2 4 6	8	10 12 14	16 18	20 22 2
Events	Tue 0	2 4 6	8	10 12 14	16 18	20 22 2
Events	Wed ⁰	2 4 6	8	10 12 14	16 18	20 22 2
	Thu 0	2 4 6	8	10 12 14	16 18	20 22 2
	Fri 0	2 4 6	8	10 12 14	16 18	20 22 2
	Sat 0	2 4 6	8	10 12 14	16 18	20 22 2
	Sun 0	2 4 6	8	10 12 14	16 18	20 22 2

Here, set the motion detection alarm period, add, delete, edit.

(1) Click and drag the mouse on the time axis to edit the arming schedule.

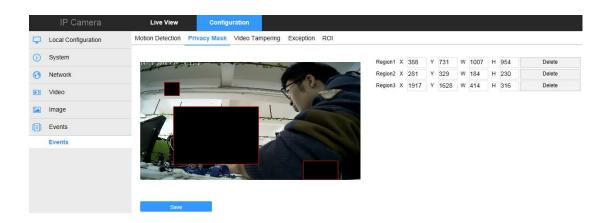
- (2) Choose the day you want to set the arming schedule.
- (3) Click to set the time period for the arming schedule.
- (4) After you set the arming schedule, you can copy the schedule to other days (Optional).
- (5) Click Save to save the settings.

Click "Linkage Method" into the linkage mode setting interface.

	IP Camera	Live View	Playb	ack	Configuration
Ţ	Local Configuration	Motion Detection	Privacy Mask	Alarm Input	Exception
	System	Enable			
Ð	Network	Area Settings	Arming Schedule	Linkage Me	thod
0. 20	Video	General Linkag Upload Via SM			
<u>**</u>	Image	Upload Via FT			
Ë	Events	Upload Via Clo			
	Events	Record Via SD	card		

Open the "General linkage", "upload Via SMTP", "upload Via FTP", "upload Via Cloud" function, when the device motion detection alarm, the linkage corresponding way to inform the user.

4.5.6.2. Privacy



Click "Privacy" into the privacy setting interface.

Pressing the left mouse button and drag to select area in the region. Region 1, Region 2, Region 3 bellow will show the corresponding coordinates, width, and height of the region .If you want to delete a region, click on the corresponding "Delete" button. Click on the "Save" after completing the setting.

4.5.6.3. Video Tampering

Click "Video Tampering" into the video occlusion interface.

IP Camera	Live View		Pla	yback	C	onfiguration
Local Configuration	Motion Detectio	n Priva	acy Mask	Alarm	Input Ex	ception
😁 System				331-		
S Network	30187117.00 Tun 11.53		010	1992	11.	
Video						
🖾 Image			T G	S	-	
Events		- (10%			
Events			Ch. John	100		
		Y	-			
	yanetak 1				frank to	T
	Region1 X 9	41 Y	75	W 266	н 491	Delete
	Region2 X C			W 0	но	Delete
	Region3 X C			w O	но	Delete

Open the "block alarm", draws the occlusion area, set the sensitivity. Click "Save" when the settings are complete.

[Clear All] Clearing all the occlusion area that selected currently.

Click "Arming Schedule" into the arming time setting interface.

	IP Camera	Live Vie	w			Play	baci	ĸ		Co	nfigur	ation						
Q	Local Configuration	Motion Detecti	on	Priva	cy Ma	ask	Ala	ırm Inp	ut	Exc	eption							
	System	Arming Sch	edule	λι	.inkage	e Metr	nod											
Ø	Network	× Delete)	💼 D	el All	-	⊢ s	elect All										
<u>Q.</u>	Video	Mon ⁰		2	4		6	8	1	10	12	14	1	5 1	8	20	22	24
<u>*.4</u>	Image	Tue ⁰		2	4		6	8	1	10	12	14	1	5 1	8	20	22	24
Ë	Events	Wed ⁰		2	4		6	8		10	12	14	1	5 1	8	20	22	24
	Events	Thu 0		2	4		6	8	1	10	12	14	1	5 1	8	20	22	24
		Fri ⁰		2	4	I	6	8		10	12	14	1	5 1	8	20	22	24
		Sat ⁰		2	4		6	8	1	10	12	14	1	5 1	8	20	22	24
		Sun ⁰		2	4		6	8		10	12	14	1	5 1	8	20	22	24

Set the time period for occlusion alarm, add, delete, edit. Click on the "Save" after completing.

Click "Linkage Method" into the linkage mode setting interface

	IP Camera	Live View Play	back	Configuration
Ţ	Local Configuration	Motion Detection Privacy Mask	Alarm Input	Exception
	System	Arming Schedule Linkage Met	hod	
Ð	Network	General Linkage	Linkage Ala	arm Output
Q. •	Video	Upload Via SMTP Upload Via FTP	IO Output	
1	Image			
Ë	Events			
	Events			

Open the "General linkage", "upload Via SMTP", "upload Via FTP" function, when the device occlusion alarm, the linkage corresponding way to inform the user.

4.5.6.4 Exception

Click "Exception" into the abnormal alarm setting interface.

	IP Camera	Live View	P	Ylayback	Configuration
₽	Local Configuration	Motion Detection	Privacy Mas	sk Alarm Input	Exception
	System	Exception Type	Netv	work Disconnected	
Ð	Network	Linkage Alar IO Output	m Output IP A	ddress Conflicted	
Q. 20	Video				
1	Image				
Ë	Events				
	Events				

Set the "Cable Disconnection" and "IP Address Conflict" alarms here, and set the alarm output mode. Click on the "Save" after completing the settings.

5. App client

5.1. Download and install App

Download and install FreeIP on your smart phone. Please scan the following QR codes to download the

App, or you can download from the following websites:

Android App: https://play.google.com/store/apps/details?id=com.xc.hdscreen iOS App : https://itunes.apple.com/cn/app/freeip/id898690336?mt=8



5.2. Add device

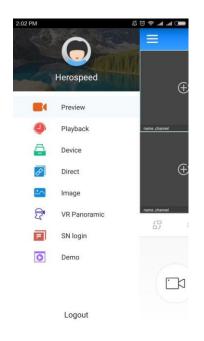
Add a device to the device list to manage.

Steps:

(1) Open the FreeIP you install on the smart phone (New users please register an account), and log in the account.



(2) Enter the sliding menu, Click 【Device】 to add the device.



(3) In the device management interface, Click [Add Device] or [+] on the right of Device Management to enter the adding devices interface.

- (4) Scan the QR code on the gift box or on the website to add the device.
- (5) Enter the device's user name and password, and then click 【Submit】

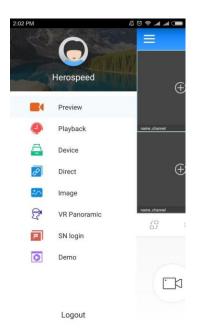
2:02 PM	Ø	ti 🗢 🛋 🔳 🚥	1:41 PM	Ø	🛲 lhe he <	2:03 PM	A 🕫 🕈 🛋 🛲
=	Device	÷	<		Input	<	Add device
my device		6/6					
Online demo		1/1				9770410	0254236
						Please i	nput the device account
						Please i	nput the device password
							Submit
					050		
			(
				Select an album fi the phone	om		
			·				

5.3. Preview

Preview the real time stream of the device.

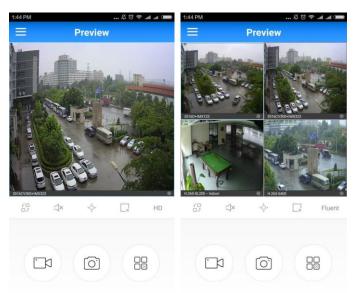
Steps:

(1) Enter the sliding menu, Click [Preview] to preview.



(2) Click 【+】

- (3) In [My device], please choose the device you want to preview, then click [Preview]
- (4) You can select different preview windows in the preview interface, different modes as below.



Phone full-screen preview as follows:



In the preview interface in addition to switch preview mode, you do video, capture, set the sound and other operations.

6. Frequently Asked Questions

6.1. Why can not access the camera by IE?

Answer: There maybe 4 reasons, Details are as follows:

a. The network unreasonable?

Solution: First you can connect network by PC, check the network cable if it is good. And check the network between the camera and the PC is good.

b.The IP address of the camera is occupied by other device or PC?

Solution: You can connect the camera with your PC directly, and modify the IP address or use the IP search tool.

c.The camera maybe in other network segment?

Solution: Check the IP address and net mask.

6.2. Why can not access the camera after update?

Answer: Clean browser cache.

Steps: open IE, click "Tools" and select "Internet Options", then you can see "Temporary Internet files" and click "Delete Files", it will prompt a dialog you need to check "Delete all offline content" and click "OK".

Also you can click "Start" and select "Run" then enter "cmd", enter "arp -d" in "Command Prompt" interface. Re-access the camera.

6.3. Why cannot show the whole interface?

Answer: Close some options of IE.

Steps: Open IE, click "View" and select "Toolbar", close the "Favorites bar", "Status bar" and "Command bar".