IP Camera

Operation Manual V3.1.0

Mar. 5, 2016

Preface

Thank you for buying our product very much.

Description

- > This operation manual takes a gun-type IP camera as an example, and describes the operation method and performance index of the IP camera in detail.
- > The IP camera mentioned in the text refers to the IP camera.
- > The IP address of the IP Camera in the text sets the network parameter by taking 192.168.1.100 as an example.
- Before using the IP Camera, we advise you to read this operation manual carefully, install and use this system according to the steps described in the manual.
- > The bold typeface in the text is the part which needs special attention.

Statement

This manual may include inexact part technically, or the part unmatched with the product function, or the part with wrong printing. We will update the content of this manual according to the enhancement of the product function, and improve or update the product or procedure described in this manual regularly. The updated content will be added in the new version of this manual without notice.



Safety Instructions

This content aims to ensure that user can use this product correctly in order to avoid risk or financial loss. Before using this product, please carefully read this operation manual and carefully store it for future reference.

As shown below, the precautionary measures are divided into "warning" and "notice":

Warning: it may cause serious injury for ignoring the warning matters.

Notice: it may cause the financial loss if ignoring the matters needing attention.



Warning:

- 1. Please use the power source which satisfies the requirement of safe low-voltage, and make sure rated voltage of the limited power source is 12 V DC supply.
- 2. If the equipment cannot work normally, please contact the service center where you bought this device or the service center nearby, do not dismantle or change the device in any way (user shall be responsible for the problems caused by change or repair without permission)
- 3. In order to reduce fire disaster or shock hazard, prevent this product from raining or wetting.
- 4. This installation should be carried out by professional service staff, and shall accord with the provisions by local laws and regulations.



- 5. Before running the camera, please check whether the power supply is correct.
- 6. Do not throw the product on the ground or seriously strike it.
- 7. Do not contact the optical element of the image sensor directly; if it is necessary to clean, please wipe the dust by a clean soft cloth after being wetted by high concentration ethanol; when the camera is not in use, please cover it with the anti-dust cover.
- 8. Avoid wet, dusty, extremely hot, extremely cold (normal working temperature: 10 below DEG C-70 DEG C), strong electromagnetic radiation, and other places.
- 9. Prevent water and any fluid from flowing into IP Camera in use.
- 10. When **IP Camera** is conveyed, package it by the pack or the material with the same quality when it leaves factory



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1 Product Overview

The IP Camera adopts an embedded RTOS design; it has high sensitivity; the snapped moving image is free from saw tooth; it has pure hard compression, watchdog, stability and reliability, and extremely low power consumption. The IP Camera is completely separated from the PC platform, and the system scheduling efficiency is high; the code is solidified in FLASH, thus the system running is more stable and reliable.

By adopting the advanced H264 and H265 compression technology, the IP Camera is able to compress the video signal; the compressed data can be transmitted. Through the network, user can perform the real-time video and sound preview; it supports ONVIF 2.2, GB 28181 protocol, stream protocol (RTP/RTCP, RTSP), IE browse, full-duplex speech talkback, multi-linguistic support, "My EYE" function, and PUSH ALARM phone alarm function.

1.1 Main function and characteristics

Basic function

Adopt advanced H264 and H265 compression technology; the compression ratio is high and the treatment is very flexible;

- Support the on-line monitoring of multiple users at the same time; support C/S model; the built-in embedded type Web server of IP Camera can provide convenient B/S model access for you;
- Multi-user privilege management can ensure the safety of the system;
- Support one RS-485 interface (optional), support the PTZ equipment of the third party or the other serial equipment, and support the transparent transmission;
- Powerful alarm management and affair handling ability; the video lost, video movement alarm, probe input, alarm output, alarm linkage, automatic connection of alarm, and alarm log can help you to handle various emergencies easily; I path of switching value triggers the alarm input, and 1 path of probe triggers the alarm output.

Compressing function

- IP Camera supports 1 path of sound video signal and can compress the image with the highest resolution with 25 frames above per second in real time; by adopting the H264 and H265 compression standard, the code stream control can be carried out by two methods of fixing code stream and fixing quality. When the video image quality is set, the compression code stream of the video image can be defined;
- Support three-code stream, main code stream, sub-code stream, and phone code stream;
- Support OSD, set the position of the described information, multiple displaying styles of date and time;
- Support at most five video shield and set video shield at any position in the video image;

Network function

- Support one 10M/100M compatible Ethernet port;
- Support TCP/IP protocol, set parameter through application software or IE browser, browse video and audio signals in real time, check IP Camera state; perform the network alarm, and



store the compression code stream through network;

- Network controls the rotation of a holder and relevant parameter of the camera, such f-number, and distance of focal length, etc;
- > Upgrade through network and achieve Setting maintenance;
- Support RTSP/RTP/CGI/FTP/PPPOE/DHCP/DDNS/NTP/UPnP, and other network protocols.
- Support ONVIF 2.4, GB 28181 protocol, compatible with NVR of domestic and foreign standard ONVIF protocols; compatible with monitoring software of domestic and foreign standard ONVIF protocols.
- Support PUSH ALARM phone pushing function, and check alarm video through mobile phone at any time.
- Support IMAC system monitoring, support the monitoring of iPhone, Android, Saipan, Blackberry, and other mobile phones, support Setting configuration of mobile phone, local video, local playback, and other functions.
- Support "My EYE", and access device through network at any time and any place.
- Support operations of Firefox, Google Chrome, and other browsers.

1.2 Application Field

It is suitable for various fields where the network Setting monitoring is required, e.g.

- > Network monitoring of ATM, bank teller, supermarket, factory, and other places
- > Setting monitoring service provided for nursing home, kindergarten, and school
- Smart access control system
- Smart mansion, intelligent residential district management system
- Unattended operation system of electric power station and telecom base station
- Outdoor equipment monitoring management
- > Traffic status monitoring system of bridge, tunnel, and intersection
- Monitoring of production line, supervision of storehouse
- Supervision of road traffic for 24 hours
- > Setting monitoring of forest, water source, river resource
- Other application field



2 Appearance and Installation

2.1 Running environment of PC

The PC working environment of IP Camera is defined as follows: The lowest configuration of PC hardware environment CPU: 1 .6GHz 32-bit or 64-bit processor Memory: 1GB and above Display card: Support for DirectX 9 256M and above Sound card: it needs voice monitoring; and it is necessary during the duplexing talkback Hard disk: if the image is required to record, the image should not be less than 40G **Recommended configuration of PC hardware environment** CPU: 2.5Ghz 32-bit or 64-bit processor Memory: 2GB and above Display card: Support for DirectX 9 1GB and above Hard disk: 500 G PC operation system Support 32/64bit Windows2000/XP/2003/VISTA/WIN7/WIN8/WIN10 operation systems in Chinese/English. Support IMAC system. Software environment Support IE8, IE9, IE10, IE11 versions Support operations of Firefox, Google Chrome, and other browsers. DirectX9.0 above version TCP/IP network protocol

2.2 Appearance structure of IP Camera and definition of interface

Please pay attention to the following matters at the same time during the installation and operation:

- 1) Please carefully check the package box when it is opened, and confirm that the matters therein are in accordance with the list;
- 2) Please carefully read the operation manual before installation;
- 3) When the IP Camera is installed, please do not close power sources of all relevant devices;
- 4) Check the supply voltage and prevent the equipment damage caused by unmatched voltage.
- 5) Installing environment: do not use it under wet or hot environment, keep good ventilation, and prevent the ventilation opening from being blocked. Horizontal place it and avoid the installation under the serious shocking environment.



2.2.1 Definition of panel interface



1) Home Network Camera panel interface definition, As shown in Figure 2-2-1:

Figure 2-2-1 Home Network Camera panel interface

Introduction of interface:

[DC5V] power interface, which is connected with 5V DC power through a voltage stabilizer; please use a matched power supply of the voltage stabilizer

[LAN] standard network RJ 45 interface

[ALARM OUT/IN] Alarm input and output interface

2) Definition of panel interface of infrared waterproof, fixed hemisphere, spherical IP Camera, As shown in Figure 2-2-2:



Figure 2-2-2 Infrared and hemisphere panel interfaces

Introduction of interface:

A. [DC12V] power interface, which is connected with 12 V DC power through a voltage stabilizer; please use a matched power supply of the voltage stabilizer

- B. **[LAN]** standard network RJ45 interface
- C. [VIDEO OUT] analog video output interface, standard BNC interface



2.3 Topological graph of camera connection

There are two common-used connection methods between the IP Camera and the computer, and the methods are shown as Figure 2-3-1 and 2-3-2:



Figure 2-3-2 Connection through an exchange and a router

Notice: when the power supply connected by POE, do not access IP Camera by using a 12V adapter; otherwise, it is likely to cause the equipment damage.

Before accessing the IP Camera through network, obtain IP address thereof at first; search the IP address of the network camera through the SearchTools software.

By running the SearchTools software in the random optical disk, the software will automatically display the IP address, Port, MAC address, DHCP state and version information, and so on of the running IP Camera in the current LAN; it is shown as Figure 2-3-3:



IP Camera	User Ma	nual

etwork Configuration	Batch Upgrade	Restore The	Default						
ame	IP Addresses	Web Port	Data P	Channel	Туре	Release	DHCP	Au	
Number:38 odify Equipment In	formation								Search
IP Addresses:		Subnet	Mask:			Default Ga	teway:		 Modify

Figure 2-3-3 Search IP address

3 IP Camera Access

3.1 PC network setting

The defaulted IP address of IP Camera: DHCP, Direct Connect IP: 192.168.1.100. Add an IP address capable of accessing IP Camera mutually to the computer, for example:

◆ 192.168.1.99, the specific operation method is as follows:

If you use Windows 2003/XP operation system:

After entering the operation system, click [Start] \rightarrow [Set] \rightarrow [Control panel] of the task bar; open "Network and Dial connection" menu, click the mouse once and select the "Local Connection" icon corresponding to the network card connected with the video server; click right button once and select "Property"; select "Internet Protocol (TCP/IP)" from the popup "Routine" page, check "Property", and pop up the following page, shown as Figure 3-1-1:



Internet Protocol (TCP/IP) Pr	operties 🛛 🛛 🔀		
General			
You can get IP settings assigned a this capability. Otherwise, you need the appropriate IP settings.	automatically if your network supports d to ask your network administrator for		
O <u>O</u> btain an IP address automa	tically		
• • • • • • • • • • • • • • • • • • •			
IP address:	192.168.1.99		
S <u>u</u> bnet mask:	255 . 255 . 255 . 0		
Default gateway: 192.168.1.1			
O <u>D</u> tain DNS server address a	automatically		
• Use the following DNS serve	r addresses:		
Preferred DNS server:			
Alternate DNS server:			
	Ad <u>v</u> anced		
	OK Cancel		

Figure 3-1-1 Set network parameter of computer

Select the "Use the following IP address", and fill the IP address **192.168.1.99** (the other IP address which is not conflict with 192.168.1.100 in the same one network segment); the subnet mask is 255.255.255.0, and defaulted gateway is 192.168.1.1. The others are not required to set; click "Confirm" on this page and the "Confirm: on the page of "Local connection property". Wait for the configuration of the system.

If you use Windows Vista /Windows 7/8/10 operation system:

After entering the operation system, click [Start] \rightarrow [Control panel] of the task bar, open "Network and Share center" and select "Network connection"; click mouse once and select the "Local Connection" icon corresponding to the IP Camera network card connecting the IP Camera; click the right button and select "Properties"; select "Internet Protocol Version 4 (TCP/IPv4)" from the popped page "Local connection property", check "Properties", and pop up the following pages, and show as Figure 3-1-2:



eneral	
You can get IP settings assigne this capability. Otherwise, you for the appropriate IP settings	ed automatically if your network supports need to ask your network administrator
🔘 Obtain an IP address aut	omatically
Output See the following IP address	ess:
IP address:	192.168.1.99
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
 Obtain DNS server addres Ouse the following DNS server: Preferred DNS server: Alternate DNS server: 	ss automatically ver addresses:
🔲 Validate settings upon ex	Advanced

Figure 3-1-2 Set network parameter of computer

Select "Use the following IP address", fill the IP address 192.168.199 (or the other IP address which is not conflict with 192.168.100 in the same network section); the subnet mask is 255.255.255.0, and defaulted gateway is 192.168.1.1. The others are not required to set; click "Confirm" on this page and the "confirm: on the page of "Local connection property". Wait for the configuration of the system.

3.2 Access through IE browser

3.2.1 Video Preview

Step I: Install plug-in unit

Input IP address of camera in the IE address bar, and then press Enter in the keyboard, pop up a prompt of installing Active X plug-in unit as Figure 3-2-1; click the prompt once and select [OK] to select the download plug-in unit; after downloading the plug-in unit, run and install as the dialog box of the installation of Active X plug-in unit in Figure 3-2-1; click [Next] and install the plug-in unit.





Figure 3-2-1 Prompt of installation of Active X plug-in unit

j⊡ Setup - DMSView	- • •
Ready to Install Setup is now ready to begin installing DMSView on your computer.	
Click Install to continue with the installation.	
Install	Cancel

Figure 3-2-2 Installation of Active X plug-in unit

Notice: Download the ActiveX, if prompted to download is blocked, it is required to set the safety grade of the browser, thereby facilitating the installation of the plug-in unit. Open the IE browser, enter the menu [Tool/Internet Option/Safety/Self-Definition Grade...]; change "Active control and plug", "download: in the set to be use or prompt; set the safety grade as "Safety grade-low", show as Figure 3-2-1.



curity Settings - Internet Zone	Security Settings - Internet Zone
Settings	Settings
ActiveX controls and plug-ins ActiveX controls and plug-ins Allow ActiveX Filtering Disable Allow previously unused ActiveX controls to run without pron Disable Allow Scriptlets Disable Enable Prompt Automatic prompting for ActiveX controls Disable Enable Prompt Automatic prompting for ActiveX controls Disable Enable Prompt Automatic prompting for ActiveX controls Disable Final Final Takes effect after you restart your computer Reset custom settings	
Reset to: Medium-high (default) Reset OK Cancel	Reset to: Medium-high (default) Reset OK Cancel
urity Settings - Internet Zone	Security Settings - Internet Zone
Initialize and script ActiveX controls not marked as safe for si Disable (recommended) Enable (not secure) @ Prompt @ Only allow approved domains to use ActiveX without prompt @ Disable @ Enable @ Run ActiveX controls and plug-ins Administrator approved Disable @ Enable @ Enable @ Frompt @ Script ActiveX controls marked safe for scripting* Disable @ Enable Prompt @ Enable @ Pr	
OK Cancel	OK Cancel

Figure 3-2-3 Safety grade set of IE

Step II: Login and preview

After the plug-in installation is complete, refresh the web and appears as shown in Figure 3-2-3, select Cancel download and install, are allowed to Run Add-on to load items.



()) () () () () () () () () (P → Ø WebClient ×	6 🛠 🔅
IPCAM Language: English User Name: Password: Net Type: MAIN STREAM Login Cancel	If this is your first time to login, please download and install the ActiveX control under the instruction. If it still doesn't work, please unisstall the old ActiveX control, clear up the IE cache, re-open the page and try it again. Click here to download and install the ActiveX packet mannually Interval to the instruction of the instruction. Download IOS Download Android	
This webpage wants to run the following add-on: 'TODO: <fil Technology.Co.,Ltd'. What's the risk?</fil 	ile description>' from 'ShenZhen Glory Information × Allow ▼	
This webpage wants to run the following add-on: 'TODO: <file of="" technology.co.,ltd'.<br="">What's the risk?</file>	description>' from 'ShenZhen Glory Information	×



Input user name (Default: Admin), password (Default: Admin), port number (Default: 80) of the IP Camera on the IE interface, show it as Figure 3-2-4; press Enter in the keyboard, and preview the image.



(-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		,0 + →	WebClient	×		🟠 🛣
Language: E User Name: ac Password: • Net Type: M Log	IPCAM		If this is your firs ActiveX control unde uninstall the old Activ page and try it again. <u>Click here to dowr</u> <u>Do</u>	t time to login r the instructio reX control, cl totad and inst totad and inst wnload IOS	, please download and install the on. If it still doesn't work, please ear up the IE cache, re-open the all the ActiveX packet mannually all the ActiveX packet mannually Download Android	

Step IV: click the login button and enter the video previewing interface, show as Figure 3-2-5



Figure 3-2-5 Preview interface

3.2.2 IE preview function

Perform the record, snapshot, talkback, holder, and other operations of the video image on the IE



real-time preview page Description of interface function

Icon	Characters	Function description
	Open channel	Click this button, open the channel picture, or close the channel picture
	Snap	Click this button and snapshot the front video
ß	Record	Click this button and start/stop recording
2	Talk	Click the button, start the talkback function with the front IP Camera
•40	Voice switch	Click this button and switch the turning on and off of the audio
	Wipper	Click the button and start the windshield wiper function
	Light	Click the button and start the lighting function
	PTZ Control	Automatically control all sides of the camera console
🔁 доом 🖨	Zoom	Amplify or zoom out the video image
FOCUS	Focus	Adjust the focal length of lens
🕈 iris 🖨	Iris	Adjust size of aperture
PreSet: 1 Set Call	Preset of console	Set and call the preset position of the console
Cruise Path: 1 V Call Stop	Cruise path	Call and stop cruising route
LIVE	Real-time preview	Click this menu and switch to real-time preview interface



PLAY BACK	Playback	Click the button and switch to the record playback interface
SETTING	Set	Click the button and pop up the parameter setting dialog box
LOGOUT	Logout	Click the button and log out

3.3 Access through client

3.3.1 Installation of CMS

Double click the installation program document of the video monitoring management software, and appear the dialog box shown as Figure 3-3-1 below:

Select language to be used in the course of installing: simplified Chinese, English, Russian or Portuguese; click [OK] and click [Next] according to the prompt until the [Finish] button is appeared; click [Finish] and finish the installation.



Figure 3-3-1 Language selection for client installation

3.3.2 Client preview image

After installing client NVClient_V6, click "NVClient" in the menu "Start" \longrightarrow "Program" \longrightarrow "NVClient_V6" of the Windows operation system, run the software, and pop up the user login interface, and then input user name and password (the default user name when the NVClient is used for the first time: admin; the password is empty), click [login] and enter the software interface. (The detailed operation introduction of NVClient_V6 shall refer to *Video Surveillance Management Software*)

Click the [Device Config] \rightarrow [Device] on the menu bar, pop up the dialog box of the equipment management





Figure 3-3-2 Equipment administration interface

The IP Camera adding method in the local LAN is as follows:

Method I:

Search adding:

Click [Search] button of [Device]

Step I: select equipment list node, and then select the equipment to be added from the search list, show as Figure 3-3-3; input the self-defined Device name, user name and password of user.

Step II: click [Apply] button on the [Device], add pointed equipment to the pointed equipment zone (click the equipment in the search list twice and directly add the equipment to the pointed equipment zone, wherein the added equipment user name and password clicked twice are admin)

Method I I:

Manually add:

Step I: select the equipment list node, click [Manually Add] once, show as Figure 3-3-3, and input the self-defined device name, device, port, channels, username and password of user. Step II: click [Apply] button on the [Device], add pointed equipment to the pointed equipment

zone



IP Camera	User	Manual
------------------	------	--------

Device info			Device info		
Device type	IP address	C Domain C P2P	Device type	C IP address	C Domain C P2F
Protocol type	A1	Ŧ	Protocol type	A1	Ŧ
Device name			Device name	p2p.dvripc.cn	Ú.
Device	·		Domain	p2p.dvripc.cn	
Port	8200		Port	8200	
Channels	1		Channels	1	
Username	admin		Username	admin	
Password	*****		Password	****	
Area name	Device list		Area name	Device list	
Manuall	y add		Manually	add	
Sav	e	Cancel	Save		Cancel
rea Manage —			Area Manage		
Add a	rea		Add ar	ea	
Modify	area	Delete area	Modify a	irea	Delete area

Figure 3-3-3 Add equipment by LAN

Figure 3-3-4 Add equipment by WAN

After adding equipment through method I or method II, return the software real-time preview interface, and double click the channel under the equipment in the equipment list, and then preview the video.

The adding method of IP Camera of WAN is as follows:

For the client software is only able to automatically search the network equipment in the local LAN, it is required to manually add IP Camera when user is required to intensively manage the Setting equipment,

The manual adding method of IP Camera includes the following steps:

Step I: select the equipment list node, click [Manually Add] once, show as Figure 3-3-4; input the Setting address (Fill IP address or domain name) of the equipment in the address bar; input user defined local name port number, channel number, user name, and password in the port, (The port number of equipment is defaulted as **8200**, the port can be customized and modified according to the data port in the network set; please check **Chapter 4.4 Network Setting for details**)

Step II: click [Apply] button on the [Device], and add the pointed equipment to the pointed equipment zone

After adding equipment, return the software real-time preview interface, click the channel under the equipment twice in the equipment list, and then preview the video.



4 IP Camera Parameter Setting

There are three methods to enter the IP Camera Setting parameter setting interface, the specific operation is as follows:

Method I: Access IP Camera through IE; after logging, click [SETTING] on the preview page and then enter the parameter setting interface of the IP Camera.

Method II: Add IP Camera through the video monitoring management software (CMS); after selecting the equipment, click the [Setting] on the software menu and enter the parameter setting interface of the IP Camera.

Method III: Add IP Camera through the video monitoring management software (CMS); select the equipment through the right button, click the [Setting] on the right button menu, and enter the parameter setting interface of the IP Camera.

4.1 Local Setup

Open [Settings] \rightarrow [System Parameter] \rightarrow [Local Setup]: set the storage path of local record and snapshot, network cache, image display method, and other parameter, show as Figure 4-1-1.





Figure 4-1-1 Local setting

Description of detailed parameter configuration:

[Record Disk Setup] Check the drive of the record to be stored from the magnetic disk list. It is defaulted as system disk D.

[Image Root Path] set the name of the image record storage root catalog as NVFile.

The storage path of the record document is defaulted as D:\NVFile\date, the preview screenshot storage path is defaulted as D:\NVFile\Capture.

4.2 Network Setup

4.2.1 Basic Network

Static IP

Open [Settings] → [Network Parameter] → [Basic Network]: set "IP Address", "Mask", "Gateway",



"DNS Server", "Data Port", "Web Port", and "RTSP Port" of the IP Camera according to the actual demand; set the method of automatically obtaining the IP address.



1. When the IP address is set, prevent the IP address from conflicting with the IP address of the other equipment of the LAN; the conflict of the IP address will cause that the equipment cannot login normally

2. After modifying the network parameter, click [OK] to modify; Please use the new IP address to log in again. By selecting DHCP: C On Off (Use the following

IP address), you can distribute one legal IP address manually on the IP address bar as Figure 4-2-1 [IP address] The IP address must be the only one and cannot conflict with the other any host or work station on the same one network section.

[Mask] is applied to classify the subnet section.

[Gateway] When the IP Camera is accessed by spanning the net section, the address is required to set.

[DNS] Analyze the server IP address of the dynamic IP address and set a correct DNS address after starting the DDNS function.

[Media port] The audio/video media port of IP Camera, wherein the port scope is 1025-66535, the defaulted value is 8200.

[Web port] The default value of the service port accessed by IP Camera WEB is 80; if the Settings is changed, it is required to input <u>http:// IP address:Web port</u> in the course of logging again.

[RTSP port] The default value of the RTSP port of the IP camera is 554, the RTSP port is applied to the video transmission of the RTSP protocol.

[Apply] When the Settings is finished, the Settings can be finished by clicking the button.

Do remember: after clicking [Apply]-[OK], Please use the set new IP address to log in.



Colour Setup Privacy Mask OSD Setup ROI Setup ROI Setup DHCP: DHCP: DHCP: DHCP: DHCP: P address: 192.168.1.100 Mask: 255.255.255.0 Default Getway: 192.168.1.1 Multicast IP: 255.255.255.255 MAC: Protocol Setup Cruising Point Setup Atarm Parameter Protocol Setup Cruising Point Setup Alarm Parameter Protocol Setup Cruising Point Setup Alarm Parameter Alarm Out Alarm Out Alarm Out Alarm Out Alarm Out Alarm Out Alarm Col Storage Manage Thing to Capture HDD Manage System Parameter System Time System Strings System Stri	- Channel Parameter - Video Setup	Basic Network			
	Colour Setup Privacy Mask OSD Setup ROI Setup ROI Setup PPPCE setup DDNS Setup DDNS Setup DDNS Setup ODNS Setup ODNS Setup Center Platform Active Connection PTZ Parameter Protocol Setup Cruising Point Setup Cruising Point Setup Alarm Parameter Motion Detect Video Loss Alarm In Blocking Alarm Alarm Log Aharm Cut Alarm Anage Timing to Capture HDD Manage System Parameter System Settings Maintain Authentication Settings Timing Maintenance System Time System Info Acrement	Common Setup DHCP: IP address: Mask: Default Getway: Multicast IP: MAC: First DNS Server: Second DNS Server: Second DNS Server: Data Port: Web Port: RTSP Authentication:	On 192.168. 255.255.2 192.168. 255.255.2 74:37:2F:04:0 8.8. 114.114.1 8200 80 554	Off 1 . 100 255 . 0 1 . 1 255 . 255 DE:2D 8 . 8 14 . 114	

Figure 4-2-1 Network Settings

DHCP

Open[Settings]→[Network Parameter]→[Basic Network], select DHCP: On C off

(Automatically obtain an IP address), click [OK] to modify; the IP Camera will automatically store and restart; after restarting, the equipment can obtain "IP address", "Mask", and "Gateway" through the DHCP server; the IP address can be checked through the search tool or the DHCP server.

4.2.2 PPPOE dialing

PPPoE configuration process

Step I: Open [Settings] →[Network Parameter]→ [PPPOE Setup]

Step II: Fill PPPoE [Username] and [Password] (obtained from the network server)

Step III: Click [Apply] once, store the parameter Settings so that the equipment can login the WAN through dialing directly.



4.2.3 DDNS Setup

Open [Settings] \rightarrow [Network Parameter] \rightarrow [DDNS Settings],tick Finable DDNS (Enable DDNS),

show as Figure 4-2-2.

Step I: Select the DDNS service provider, and then select the type of DDNS server address; ISP can choose MyEYE,3322, Dyndns, nightowldvr, no-ip; where MyEYE is Division I offer free domain.

Step II: default the DDNS server port as 80; not modify if the address of the server is 80 port.

Step III: input customized domain name, user name, and password.

Step IV: set the update cycle of domain name, where in the minimum cycle is 30 seconds, and the maximum cycle is 2 hours.

Step V: after confirming that the configuration is right, click [Apply],quit and store.

[DDNS Status] displays the current status of DDNS. "Success" represents DDNS network connection is successful;

"Network connect fail" indicates DDNS network connect fail, and this time you need to check whether the correct IP address of the network.

Figure 4-2-2 DDNS Setup



4.2.4 Mobile Setup

	<u> </u>	Mobile Setup			
		Port: Port: P2P	15961 enter		
		P2P ID: Domain :	bi028d865f 04DE2D.dvripc.cn		
Alarm Parameter Motion Detect Wideo Loss Alarm In Blocking Alarm	E	Status:	Network connect f	ail	
System Parameter System Settings Maintain Authentication Settings Timing Maintenance System Time System Time System Info					

Open [Settings] \rightarrow [Network Parameter] \rightarrow [Mobile Setup], show as Figure 4-2-3.

Figure 4-2-3 Mobile Setup

[Port] To set the phone port, using the IP address of the phone APP add, need this port [Alarm Upload Center] APP phone to receive alarm push, we need to turn this feature on. [P2P] Display device P2P ID, domain name, P2P state.

[Two-dimensional code] P2P: Mobile APP add devices to scan the two-dimensional code; IOS: IOS phone system scans this two-dimensional code to download mobile APP; Android: Android phone to scan the two-dimensional code to download mobile APP.

P2P domain names refer to the "Appendix III MyEYE domain"

4.2.5 UPNP Setup

After opening UPNP function, make you IP Camera achieve plug and play by cooperating with DDNS. The "UPNP Setup" mainly includes: [Enable UPNP],[Work Mode],[Network Card Type],[Local data port],[Remote data port],And other Settings as shown in Figure 4-2-4:



22.108.1.100(8200)					
- Channel Parameter		UPNP Setup			
Video Setup Colour Setup Privacy Mask OSD Setup		Enable UPNP			
ROI Setup		Work mode	Auto port map	-	
Network Parameter Basic Network PPPOF Setup		Network Card Type	Wired card	•	
		Router IP			
UPNP Setup		Local Data Port	8200		
Center Platform Active Connection		Local Web Port	80		
Protocol Setup		Local Mobile Port	15961		
Alarm Parameter	=	Remote Data Port	0	Fail	
		Remote Web Port	0	Fail	
Weight Strain Stra		Remote Mobile Port	0	Fail	
Storage Manage Network Storage Record Manage Timing to Capture					
- System Parameter					
System Settings Maintain					
···· Authentication Settings ···· Timing Maintenance					
System Time System Info	Ŧ				
im account			ок	Refresh	Apply

Figure 4-2-4 UPNP Setup

[Enable UPNP] The default of the camera does not use UPNP; when the UPNP function is going to use, choose [Enable UPNP]; select [Work Mode] and [Network Card Type] as required, and click [Apply].

[Work Mode] There are two optional working methods, which are automatic port mapping and manual port mapping; after Settings it to be automatic port mapping, the IP Camera can automatically distribute the mapping Settings port through the router; after Settings it to be the manual port mapping, it is required to manually set "Settings data port", "Settings network port" and "Settings mobile phone port".

[Network Card Type] Select wire network card or the wireless network card to achieve the UPNP function.

[Local data port] IP Camera local access port is required to set the local port in the network parameter.

[Remote data port] Display the port information of the Settings mapping or manually modify the Settings mapping port.



4.2.6 EMAIL Setup

Email alarm uploading means that when the alarm happens and it is required to send pictures to the Email, IP Camera will automatically send the alarm information and the snapshot pictures to the pointed Email.

192.168.1.100(8200)	x
192.168.1100(8200) Colour Setup Privacy Mask -OSD Setup ROI Setup Basic Network PONS Setup DONS Setup Protocol Setup Cruing Point Setup Cruing Point Setup Cruing Point Setup Cruing Point Setup Motion Detect Web Loss Alarm Dot Alarm Out Alarm Iog Surge Manage Thing to Capture HDD Manage System Settings Maintain Autach Pic: System Info	
System Info Account Local Setup OK Refresh Apply	

Figure 4-2-5 Email Setup

The Email Settings step:

Step I: open [Settings] \rightarrow [Network Parameter] \rightarrow [Email Setup] as Figure 4-2-5;

Enable Email Enabling this feature.

Step II: set [Email server] and [Port], wherein the Email server refers to the Email server address used by the mailbox of the sender; the port number refers to the port of the Email server (if the port is unknown, please check it by logging in the official website of the Email server according to the set Email server At present, it supports smtp.qq.com, smtp.sohu.com, smtp.163.com, smtp. 126.com, smtp.sina.com, smtp.hotmail.com, smtp.gmail.com, smtp.yahoo.com, smtp.yeah.net, and other Email servers at home and abroad

Step III: set [Username, Password], and input corresponding user name and password according to the mailbox of the sender.



Step IV: set sender, receiver, copy, blind carbon copy, attached picture

[From] refers to the mailbox address used by the sender, and sender use must fill it

[To] refers to the mailbox address used by the receiver, and receiver user must fill it

[Copy] refers to that the mail your wrote can send to the mailbox wrote at the copy bar except for the receiver, and receiver knows that you have sent the mail to him and the person with the mail address input to the copy bar.

[BCopy] refers to that the mail you wrote will be sent to the mailbox address at the blind carbon copy bar except for the receiver, but the receiver does not know that you have sent the mail to the person with the mail address input to the blind carbon copy bar.

[Attach Pic] this option represents that pictures are automatically snapshot when alarm happens and uploaded through Email, and receiver can check the snapshot pictures through the attachment.

[SSL] Enabled, the mail servers use SSL encryption to send.

[EMail test] Verify that the email settings are correct.

4.2.8 Center Platform

When users access the platform, front-end equipment required to set the parameter access center platform.

Colour Setup	Center Platfo	rm		
	 Center Platfo ✓ Enable Centerl Pl Server IP: Server Serial No: Platform Type Username: Stream Type Heartbeat Device ID: sip server port Video equipment II Channel1 Channel2 Channel3 Channel4 	TTN atform 0.0.0.0 Platform1 Platform1	Port: Password: Password: Register refresh time Device Port Alarm device ID Channel1 Channel2 Channel3 Channel4	
Er System Parameter System Settings Maintain Authentication Settings Timing Maintenance System Time System Info Account Local Setup				
		1		

Figure 4-2-6 Center Platform

Platform 1: GB28181



4.2.8 Active Connection

Active connection refers to the camera active registered with the CMS client, need the V6 version CMS supports the use of this function.

Depending on the installation of the CMS PC host computer's IP address and port CMS settings active, enable and fill these two pieces of information, the time interval is set according to user needs. Click "OK" to complete the setup.

192.168.1.100(8200)					×
Colour Setup	*	Active Connection			
 Privacy Mask OSD Setup ROI Setup ROI Setup Network Parameter Basic Network PPPOE Setup DDNS Setup Mobile Setup UPNP Setup EMAIL Setup Center Platform Active Connection PTZ Parameter Protocol Setup Cruising Point Setup Alarm Parameter Motion Detect Video Loss Alarm In Blocking Alarm Alarm Qut Alarm Log Abnormal Alarm Storage Manage Timing to Capture HDD Manage System Parameter System Settings Maintain Authentication Settings Timing Maintenance System Info Account Local Setup 	E	♥ Enable Server IP: Server Port(1-65535): Interval:	192.168.1.1 4561 50	200	
			ОК	Refresh	Apply

Figure 4-2-7 Active Connection



4.3 Channel Parameter

4.3.1 Video Setup

Open [Settings] \rightarrow [Channel Parameter] \rightarrow [Video Setup]: the channel Settings interface is shown as Figure 4-3-1; in this Settings option, configure the channel name, video code, audio parameter, and other options of the IP Camera.

Video Setun	<u>.</u>	Video Setup			
	Ш	Video Mode: Video Coding Video Format: Frame Rate: Video Size: Stream Mode: Quality: VBR: I Frame Interval:	Main Stream H264 25 1280 x 960(960P) Fixed Quality Best 3072 50	▼ ▼ ▼ ▼	
		Audio coding Audio Format:	G711A	¥	

Figure 4-3-1 Video Setup

Description of option function

[Encode Mode] support three code streams, which are respectively: main stream, sub stream, and Mobile stream.

[Video Format] set the coding format, and support H.264, H.264_Baseline, MJPEG.

[Frame Rate] set the coding frame rate, which refers to the number of the pictures coded by the IP Camera per second. PAL format up to 25 frames; NTSC format up to 30 frames.

[Video size] set the picture size of the coded video of the IP Camera; perform the corresponding Settings according to the coding model



[Stream model] constant bit rate and constant quality are optional; when the constant bit rate is selected, the camera can code according to the set fixed code rate; when the constant quality is selected, code is carried out according to the [coding quality] option and the highest code rate [Quality] five coding qualities can be selected, which are: best, good, normal, not so good, and bad [Highest Byte] the IP Camera is coded according to the constant bit rate

[I frame interval], which refers to the number of the P frame or B frame between the key frames (I frames) in the frames (I frame, B frame, P frame) coded by the IP Camera, namely, one key frame is appeared until the number of the coded frame is enough.

[Code rate] the code rate refers to the number of the code stream coded by the coder per second, and is represented by bps or bit per second; the scope is continuous and adjustable from 16k to 20000k.

4.3.2 Color Setup

Open [Settings] \rightarrow [Channel Parameter] \rightarrow [Color Setup]: the color Settings interface is shown as Figure 4-3-2; in this Settings item, configure the video Lightness, Contrast ,Saturation, Hue, WDR, and other options of the IP Camera.

Channel Parameter	<u> </u>	Colour Setup			
Video Setup Olour Setup Privacy Mask OSD Setup ROI Setup ROI Setup Network Parameter DNS Setup ODNS Setup ODN Setu		Common Setup Lightness Contrast Saturation Hue Sharpness	J	-}	50 50 100 50 20
	н	Advanced Setup Noise Reduction Gain WDR IRIS Defogging Electronic shutter Sense	Auto	 Mirror	44 ✓ Enable 8 ✓ Auto 128 □ Enable 480 □ Auto 0 □ Enable None Mirror ✓
		Day and night control Day and Night Detection Mode Sensitivity Turn daylight time ICR Control	Auto Photoresistor Natural light is sl 7 : 0 Active high	Conversion Delay Photoresistor Turn night time Infrared Lamp	3s Active low 18 18 Active high Default

Figure 4-3-2 Color Setup



Introduction of option function

Common Setup

[Lightness] adjust the degree of brightness of the picture

[Contrast] adjust the ratio between the brightest and darkest zones of the picture

[Saturation] adjust the bright-colored degree of the color of the picture

[Hues] adjust the tone of the picture

[Sharpness] Adjust the definition of every fine image texture and its border on the picture

Advanced Setup

[Noise Reduction] adjust the digital noise value

[Gain] when automatic gain is opened, prompt small signal so that the noise electric level is correspondingly improved.

[WDR] the bright zone and dark zone, foreground and background of the picture can be saw clearly

[IRIS] adjust the amount of light of the lens of the automatic diaphragm

[Defogging] Some models support image defogging function

[Electronic shutter] The electronic shutter time is from 1/100s—1/200000s; the electronic shutter of the camera is ordinarily set to be automatic electronic shutter model; the shutter time can be adjusted according to the environmental brightness, thereby obtaining clear picture.

[Sense] the pull-down list has outdoor, indoor, manual and automatic options for choose

[Mirror] the pull-down list has Not Mirror, op-Bottom, Left-Right and Top-Bottom Left-Right

Day and night control

[Day and Night] Optional auto, Night, Day.

[Detection mode] Optional Automatic, Photoresistor, Video, Time

[Conversion delay] Optional Black and white conversion time can be set from 0 to 10 seconds [Sensitivity] In the video detection mode, you can set the sensitivity

[Photoresistor] In the photosensitive resistance detection mode can be set Active low or Active high

[ICR control] According to ICR can be set high or low

[infrared lamp control] Can be set to high or low according to the type of infrared light

4.3.3 Video Blind

Open [Settings] \rightarrow [Channel Parameter] \rightarrow [Video Blind]: show as Figure 4-3-3.

Increase in the video image occlusion, can block some of the privacy of users. In the video and screenshots cannot show the blocked content.

Step 1: Finable Video Blind enable video-blocking function.

Step 2: the left mouse button and drag the image anywhere you want to draw a shaded area, the right mouse button to clear the area. the device supports only one block area.

Step 3: Click the 'Apply' can be in the live display video blind.

If you want to clear the blocked area, click on the "Clear", then click the 'Apply', you can remove video blind.





Figure 4-3-3 Video Blind

4.3.4 OSD Setup

OSD is the abbreviation of On Screen Display; the character superimposition in the video image to generate some special characters or figures, thus user can obtain some helpful information. The superimposition character time and content can be displayed in the course of recording and snapshot.

Show Time the represents that corresponding optional function is enabled; Enabled by default. [Show time]: According to actual needs by the time position (X, Y) "X coordinate" and "Y coordinate", Select the display position. As shown in Figure 4-3-4. (X coordinate in the range of 0 \sim 704, Y coordinate ranges from 0 to 576), Click [Apply], to display the device current time in the

2016-04-18 15:56:36

[Show Info]: According to actual needs by the Channel Name(X, Y) "X coordinate" and "Y coordinate", Select the display position. As shown in Figure 4-3-4. (X coordinate in the range of 0



 \sim 704, Y coordinate ranges from 0 to 576) , Click [Apply] ,to display the device channel name in the live.

[Custom name]: According to actual needs by the Channel Name(X, Y) "X coordinate" and "Y coordinate", Select the display position. As shown in Figure 4-3-4. (X coordinate in the range of 0 \sim 704, Y coordinate ranges from 0 to 576), Click [Apply], to display the device channel name in the live.

192.168.1.100(8200)					X
Channel Parameter		OSD Setup			
Video Setup	<u> </u>	1			
Colour Setup		The show They			
Privacy Mask		Show Time			
OSD Setup		Time Position(X,Y):	10	10	
E Network Parameter					
Basic Network		Show Name			
··· PPPOE Setup		Channel Name:	name		
DDNS Setup					
Mobile Setup		Name Position(X,Y):	550	520	
··· UPNP Setup				1	
EMAIL Setup		Custom name			
Center Platform					
Active Connection		Custom name 1	name 1		display 1
- PIZ Parameter					
Protocol Setup		Name Location(X,Y):	0	0	
Cruising Point Setup	=	100000000000000000000000000000000000000			
Motion Detect		Custom name 2	name2		display 2
Video Loss		000000000000000000000000000000000000000			
Alarm In		Name Location(X,Y):	0	0	
Blocking Alarm					
Alarm Out		Custom name 3	name3		display 3
Alarm Log					
Abnormal Alarm		Name Location(X,Y):	0	0	
🖃 Storage Manage					
···· Network Storage		Custom name 4	name4		display 4
Record Manage					
··· Timing to Capture		Name Location(X,Y):	0	0	
HDD Manage				,	
System Parameter					
System Settings					
Maintain					
Timing Maintenance					
System Time					
System Info					
Account	*				
			ОК	Refresh	Apply
	_				

Figure 4-3-4 OSD Setup

4.3.5 ROI Setup

ROI is an area enhanced video clarity. Selective enhancement stream type area, enable ROI, custom name. Divided designated areas. Click [App]. ROI supports three area.



192.168.1.100(8200)				X
Channel Parameter	ROI Setup			
Video Setup	-			
Colour Setup				
Privacy Mask	2016 01 18 15:59:30			
OSD Setup				
ROI Setup				
Network Parameter				
Basic Network				and the second se
···· PPPOE Setup	And the owner of the owner			
DDNS Setup				
Mobile Setup				
···· UPNP Setup				
EMAIL Setup				
Center Platform				
Active Connection				
PTZ Parameter				
Protocol Setup				
Cruising Point Setup				
🖃 Alarm Parameter 🗧				
Motion Detect				
···· Video Loss				
Alarm In				
Blocking Alarm				
Alarm Out	Stream Type	ain Stream 🔻	Name	
Alarm Log	pacan type In			1
Abnormal Alarm	DOL Number	-	Enable	
🖃 Storage Manage	ROI Number 11			
···· Network Storage				
···· Record Manage				
···· Timing to Capture				
HDD Manage				
System Parameter				
System Settings				
Maintain				
Authentication Settings				
···· Timing Maintenance				
System Time				
System Info				
Account		1	89.0	1
		OK	Refresh	Apply

Figure 4-3-5 ROI Setup

4.4 PTZ

4.4.1 Protocol Setup

Open [Settings] \rightarrow [PTZ Parameter] \rightarrow [Protocol Setup]: All IP Cameras of this company support 13 types of common ptz protocols; the equipment for connecting the holder is required to set the parameter of the RS 485 interface at this option, such as the PTZ proto, address, Baud rate of the holder.

Settings steps:

Step I: please correctly set the protocol, address and Baud rate of a ball machine or the holder.

Step II: correctly connect the 485 communication line of the ball machine or the holder with the IP Camera 485 communication port.

Step III: set [Address],[Baud Rate],[Data],and [Stop bit]; correspond to the front ball machine or the holder.


Step IV: select your required protocol from the pull-down menu (matched with the ball machine or the holder); the server supports 13 types of common holder protocols; if the down-pull menu is free from your required protocol, you can upload your own protocol, the server supports transparent transmission, and is defaulted as pelco-d.

Step V: set [Speed], you can freely set the running speed of the ball machine here (0-64 optional) After confirming the right Settings of the holder, click [Apply], quit the "Settings" interface, and control the holder through the IE or client, Shown as Figure 4-4-1.

192.168.1.100(8200)					×
192.168.1.100(8200)		Protocol Setup PTZ Protocal Setting Baud Rate: Data: Odd-even check: Stop Bit: Stream: PTZ : Address:	2400 8 None 1 None pelco-d	• • • •	
PTZ Parameter Protocol Setup Cruising Point Setup Cruising Point Setup Alarm Parameter Wideo Loss Alarm In Blocking Alarm Alarm Out Alarm Log Alarm Log Abnormal Alarm Storage Manage Record Manage Timing to Capture HDD Manage System Parameter System Parameter System Settings Maintain Authentication Settings Timing Maintenance System Time System Info	E.	Address: Keep PrePos: PTZ H_Speed: PTZ V_Speed:		}	60 60
L in Account			ок	Refresh	Apply

Figure 4-4-1 Protocol Setup



4.4.2 Cruise Setup

Open [Settings] \rightarrow [PTZ Parameter] \rightarrow [Cruising Point Setup], Double-click or right mouse button to enter the cruise path is set, you can add and delete cruise points.

uise Setup —	
SerialNo	Cruise Path
01	Cruise Path01
02	Cruise Path02
02	
03	Cruise Path03
03 04	Cruise Path03 Cruise Path04

	julise ra		
Preset	Cruise Time(s)	Cruise Speed	
1	10	1	

Figure 4-4-2 Cruising Point Setup



4.5 Alarm Parameter

4.5.1 Motion Detect

Set the video mobile alarm

Open [Settings] \rightarrow [Alarm Parameter] \rightarrow [Motion Detect]

After using the video mobile alarm, when there is movement in the picture under the set zone and the set time, the IP Camera will perform the alarm treatment according to the set action, e.g. linkage snapshot jpg picture, linkage record, linkage probe output; send the alarm to the client, and then process it by the client according to the local Settings.

192.168.1.100(8200)	
192.168.1.100(8200) □- Channel Parameter Udeo Setup Colour Setup Privacy Mask OSD Setup ROI Setup Colour Setup DNS Setup DDNS Setup UPNP Setup UPNP Setup Center Platform Active Connection - PTZ Parameter VIdeo Consectup Cruising Point Setup Cruising Point Setup Cruising Point Setup Cruising Point Setup Cruising Alarm Alarm Out Alarm Log	Motion Detect Image: Sunday Sensitivity(The smaller, the more sensitive): Defence Time 20 Defence Time 0:00:00 • Sunday Time Zone: Tuesday Time Zone: O:00:00 • 23:59:00 • Thursday Time Zone: O:00:00 • 23:59:00 • Thursday Time Zone: O:00:00 • 23:59:00 • Thursday Copy To Week Copy To Week Check All Sunday Monday Thursday Friday Saterday Copy Thursday Friday Sunday Monday Tuesday Wednesday Thursday Friday Sunday Monday Tuesday Copy Vednesday Copy Inkage Setup Linkage PTZ Linkage email Upload to FTP Buzzer Upload NAS Alarm Out Linkage Capture Linkage Record Linkage Record
Active Connection Active Connection PTZ Parameter Protocol Setup Cruising Point Setup Alarm Parameter Video coss Alarm In Blocking Alarm Alarm Out Alarm Log Abnormal Alarm Storage Manage Network Storage Record Manage Timing to Capture HDD Manage System Parameter System Settings Maintain Authentication Settings	Image Setup Image Setup Alarm Duration(s): 30 Linkage email Upload to FTP Buzzer Upload NAS Alarm Out Linkage Capture
···· Timing Maintenance ···· System Time ···· System Info	Motion Area
Account	OK Refresh Apply

Figure 4-5-1 Motion Detect

Settings step is shown as Figure 4-5-1

Step I: F Enable Alarm enable Motion Detect function.

Step II: set the alarm time section from the [Defence Time] option, select from Monday to Sunday or every day; And then set the deployment time section one and time section two (0:00:00-0:00:00 represents that it is not used during the deployment time section), You can quickly copy arming time.



Step III: set [Sensitive], wherein the numerical value of the sensitivity is smaller and the sensitivity is higher (5-100 optional), Default 20.

Step IV: set [Alarm clear time] (1-255 seconds optional)

The alarm eliminating time means that the time of the continuous alarm can automatically eliminate output; namely, the alarm interval time triggered again

Step V: tick [Linkage Setup] (optional); the trigger alarm is linkable; alarm output, alarm record, Upload to FTP, Linkage email, Linkage Capture, Upload NAS.

StepVI:Motion Area

In [Video Detect] option, click open [Motion Area] set the video detection area, as shown in Figure 4-5-2



Figure 4-5-2 Motion Area

The picture is partitioned into 36 lines and 44 rows,1584 zones in total can set the dynamic detection; the system out of the set zone will not be detected dynamically; the red display represents that "the zone is picture dynamic detecting zone"; click the right button of the mouse and drag mouse in the picture, and then loose the right button of the mouse, thus the drawing of one zone is finished. Multiple zones can be drawn in the picture.

Setting Tips:

1. In order to avoid the movement of small matters in the picture and cause unnecessary alarm, set the sensitivity to be higher.

2. Set the sensitivity to be higher at the place with relatively frequent movement in case of frequently alarm

3. Set the sensitivity value to be lower if very refined movement alarm is required (except for very sensitive), it is recommended that the value of the sensitivity should be higher in the other cases. **Step VII:** after confirming the right Settings, click [Apply] and quit the "Video Detect" interface.

Alarm Record Settings : Please check 4.6.4 Alarm Record Settings.



4.5.2 Video Loss

IP Camera does not support video lost, this function can only take effect in the DVS device settings.

4.5.3 Alarm In

Alarm In Setup:

192.168.1.100(8200)					×
- Channel Parameter	•	Alarm In			
Wideo Setup Colour Setup Privacy Mask OSD Setup ROI Setup		✓ Enable Alarm □Defence Time	Alarm type: NO	Alam name:	Aamin01
Network Parameter Basic Network PPPOE Setup		Sunday Monday Tuesday	Time Zone:		9:00
DDNS Setup Mobile Setup UPNP Setup		Thursday Friday Saterday	Time Zone:	::00:00	
			🗌 Sunday 🔲 Mi	onday 🦵 Tuesday iday 🗖 Saterday	Copy
Protocol Setup Cruising Point Setup I⊐ Alarm Parameter	=	Linkage Setup	30	-	Linkage PTZ
Motion Detect		Linkage email	Upload to FTP	Buzzer 🔽	Upload NAS
Alarm Out Alarm Log		Alarm Out	Linkage Capture	Linkage Record	
⊡ Storage Manage … Network Storage … Record Manage					
Timing to Capture HDD Manage System Parameter					
	-				
			ОК	Refresh	Apply

Figure 4-5-3 alarm input

Step I: hardwire connection, correctly connect the alarm input device to the alarm input interface of the IP Camera

Step II: open [Settings] \rightarrow [Alarm Parameter] \rightarrow [Alarm In], as shown in Figure 4-5-3

Step III: according to the type of the accessed probe, select [Alarm Type], and customize the [Alarm Name].

Step IV: Finable Alarm enable Alarm function., select from Monday to Sunday or every day; And then set the deployment time section one and time section two (0:00:00-0:00:00 represents



that it is not used during the deployment time section), You can quickly copy arming time.

Step V: set [Alarm Duration] (1-255 seconds optional); the alarm release time means that the alarm lasts to the set time and then automatically eliminates the output, namely the alarm interval time triggered again.

Step VI: tick [Linkage Setup] (optional); the trigger alarm is linkable; alarm output, alarm record, Upload to FTP, Linkage email, Linkage Capture, Upload NAS.

Alarm Record Settings : Please check 4.6.4 Alarm Record Settings.

4.5.4 Blocking Alarm

open [Settings] \rightarrow [Alarm Parameter] \rightarrow [Blocking Alarm]

After using the video mobile alarm, When the image occurs in the setting area and set time completely blocked or missing objects, the IP Camera will perform the alarm treatment according to the set action, e.g. linkage snapshot jpg picture, linkage record, linkage probe output; send the alarm to the client, and then process it by the client according to the local Settings.

Set the video blocking alarm

.92.168.1.100(8200)		
Channel Parameter	Blocking Alarm	
Wideo Setup Colour Setup Privacy Mask OSD Setup	I Enable Alarm Sensitivity Low ▼	
ROI Setup Network Parameter Sasic Network m-PBPOE Setup	Defence Time Sunday Monday Tuesday	
···· DDNS Setup ···· Mobile Setup ···· UPNP Setup ···· UPNP Setup ···· EMAIL Setup ···· Emails Setup ···· Center Platform	Wednesday Time Zone: 0:00:00 23:59:00 Thursday Friday Friday Copy To Week Check All Saterday Sunday Tuesday Wednesday	
	Thursday Friday Saterday Copy	
Alarm Parameter Motion Detect	Alarm Duration(s): 30 Linkage PTZ	
Video Loss Alarm In	Linkage email Upload to FTP Buzzer Upload NAS	
 Elocking Alarm Alarm Out Alarm Log Abnormal Alarm Storage Manage Network Storage Record Manage Timing to Capture HDD Manage System Parameter System Settings Maintain Authentication Settings 	Alarm Out Linkage Capture Linkage Record	
···· Timing Maintenance ···· System Time ···· System Info	Motion Area	
I im Account	OK Refresh Apply	

Figure 4-5-4 Blocking Alarm



Settings step is shown as Figure 4-5-5

Step I: 🔽 Enable Alarm enable Blocking Alarm function.

Step II: set the alarm time section from the [Defence Time] option, select from Monday to Sunday or every day; And then set the deployment time section one and time section two (0:00:00-0:00:00 represents that it is not used during the deployment time section), You can quickly copy arming time.

Step III: set [Sensitive], Default low. Can be adjusted according to the demand, have high, middle and low three sensitivity,

Step IV: set [Alarm clear time] (1-255 seconds optional)

The alarm eliminating time means that the time of the continuous alarm can automatically eliminate output; namely, the alarm interval time triggered again

Step V: tick [Linkage Setup] (optional); the trigger alarm is linkable; alarm output, alarm record, Upload to FTP, Linkage email, Linkage Capture, Upload NAS.

StepVI:Motion Area

In [Video Detect] option, click open [Motion Area] set the video detection area, as shown in Figure 4-5-5



Figure 4-5-5 Blocking Alarm Area

Blocking area divided area with the mouse, the red rectangle area is effective within the area. **Setting Tips:**

1. In order to avoid the movement of small matters in the picture and cause unnecessary alarm, set the sensitivity to be higher.

2. In order to avoid the moving object in the image, resulting in unnecessary blocking alarm,

blocking alarm trigger condition is completely obscured, blocking area and keep out of more than 3 seconds time will trigger.

Step VII: after confirming the right Settings, click [OK] and quit the "Video Detect" interface. **Alarm Record Settings :Please check 4.6.4 Alarm Record Settings.**



4.5.5 Alarm output

Open [Settings] -	>[Alarm Parameter]	\rightarrow [Alarm (Out], as shown	in Figure 4-5-6:
-------------------	--------------------	------------------------	----------------	------------------

192.168.1.100(8200)						×
Channel Parameter		Alarm Out				
Wideo Setup Colour Setup OSD Setup ROI Setup ROI Setup Sasic Network PPPOE Setup ODNS Setup Mobile Setup Wobile Setup WONP Setup WONP Setup WONP Setup WONP Setup WONP Setup		Alam Out Out1: Out2: Out3: Out4:	Alarm	Dut-1		
Center Platform Active Connection PTZ Parameter Protocol Setup Cruising Point Setup Alarm Parameter Motion Detect Video Loss Alarm In Blocking Alarm Alarm Out	5	Status of sensor				
Abnormal Alarm Adonormal Alarm Storage Manage Manage Record Manage Timing to Capture HDD Manage System Parameter System Satinge						
System Settings Maintain Authentication Settings Timing Maintenance System Time System Info System Info	•					
				ОК	Refresh	Apply

Figure 4-5-6 Alarm output

[Output1] customize the name of the switch and also can select default

[Status of sensor] Status of sensor, Sensor1 Expressed alarm output is enabled



4.5.6Alarm Log

Open [Settings] \rightarrow [Alarm Parameter] \rightarrow [Alarm Log]; check the probe alarm information, mobile detecting alarm information, abnormal error of mobile disk, and other information in real time. as shown in Figure 4-5-7:

192.168.1.100(8200)				×
Channel Parameter	Alarm Log			
Colour Setup				
···· Video Blind				1
OSD Setup				Clear
Network Parameter		AL T		
Basic Network	Server	Alarm Type	lime	
WIFI Setup				
··· PPPOE Setup				
··· DDNS Setup				
···· Mobile Setup				
UPNP Setup				
FTP Setup				
EMAIL Setup				
Center Platform				
- PIZ Parameter				
Protocol Setup				
Cruising Point Setup				
E- Alarm Parameter				
Widee Loss				
Alarm In				
Alarm Out				
Alarming				
Abnormal alarm				
- Record Manage				
Timing to Capture	4			•
HDD Manage				
- System Parameter				
System Settings				
···· Maintain				
System Time				
System Info				
Account				
Local Setup				
	la s	or 1	D-Ch	La contra da la co
		OK	Refresh	Apply

Figure 4-5-7 Alarm log



4.5.7 Abnormal alarm

Open [Settings] \rightarrow [Alarm Parameter] \rightarrow [Abnormal alarm], as shown in Figure 4-5-8: Abnormal alarm and alarm linkage.

Abnormal alarm:

[Disk Full]

[Disk Error]

[Net Disconnection]

[IP Conflicts]

[Access Violation]

[Video Format Mismatch]

Alarm linkage: alarm output, alarm record, Upload to FTP, Linkage email, Linkage Capture.

192.168.1.100(8200)					x
	Abnormal Ala	r m			
Video Setup		110			-
Colour Setup					
- Brivacy Made	100000000000000000000000000000000000000				
OSD Satur	Exception type	Disk Full		<u> </u>	
POI Sotup	1000000000				
Network Decemptor	Linkage Setup				1
Basis Network				Linkage PT7	
DBDOS Salar				Liniagorria	
DDNG Cobur	Linkage email	Lipload to ETP	Buzzer	Upload NAS	
Mahila Satur	i cintage cinai		1 DULLEI) Opidad NAS	
	Alarm Out	Linkage Capture	Linkage Record		
EMAIL Cat					
Contra Diations					
Center Platform					
Active Connection					
E-PIZ Parameter					
Cruisian Deint Catur					
Cruising Point Setup	-				
- Alarm Parameter					
Motion Detect					
video Loss					
Plading Alarm					
Alarm Out					
Alarm Log					
Alarmal Alarma					
Network Storage					
Record Manage					
Timing to Capture					
HDD Manage					
E- System Parameter					
System Settings					
Maintain					
Authentication Settings					
System Info					
Account	•				_
		ОК	Refresh	Apply	
					_

Figure 4-5-8 Abnormal alarm



4.6 Storage Manage

4.6.1 Network Storage

4. 6.1.1 FTP Setup

FTP alarm uploading that when the alarm happens and it required to upload pictures to one FTP server on the network, the IP Camera can upload the picture to the FTP server automatically.

Video Setup Colour Setup Privacy Mask OSD Setup ROI Setup ROI Setup DNS Setup DONS Setup DDNS Setup DDNS Setup ODNS Setup	Network Stora	age		
		ОК	Refresh	Apply

Figure 4-6-1 FTP Setup

Configuration step of FTP

After Settings the following options correctly, the FTP uploading function can be realized Step I: install FTP server (please consult the enterprise network administrator for the specific installing method)

Introduction: the Serv-U series FTP server software is recommended Step II: open [Settings] \rightarrow [Storage Manage] \rightarrow [Network Storage] \rightarrow [FTP Setup], show as



Figure 4-6-1: Figure 4-6-1: Enable FTP Enable FTP function indicates, which represents that the FTP

function is used.

Step III: according to the Settings of the FTP server, fill correct supporting IP address and domain name,[Port],[Username],and [Password] of the [FTP server]

Step IV: set [Top Dir, Sub Dir], which refers to the naming method of the picture file stored on the FTP server; OFF represents that the catalogue is not set up

Step V: click [OK] once, quit and store parameter

4.6.1.2 NAS Storage

NAS storage only support the NFS protocol.

NAS storage server address, and the file path, please according to the NAS server configuration information related Settings.

Fill in the NAS server address and the NAS server file path. Click "ok" to complete setup, as shown in figure 4-6-2:

192.168.1.100(8200)					l	
Video Setup	Network Stor	age				
Colour Setup						-
Privacy Mask						
OSD Setup	Enable FTP	18				
E Network Parameter	FTP Server:	192, 168,	1.21			
Basic Network		1				
PPPOE Setup	Port:	21				
DDNS Setup	1.000	1				
Mobile Setup	Username:	name				
UPNP Setup						
EMAIL Setup	Password:	*****				
- Center Platform						
Active Connection	Top Dir:	Server IP	•			
- PTZ Parameter		_				
Protocol Setup	Sub Dir:	Channal I	D 🗾			
Cruising Point Setup						
- Alarm Parameter	NAS Setup	>				
Motion Detect						
Video Loss 🗧	NAS Type:		INFS	<u> </u>		
Alarm In	Server IP:		192, 168, 1, 200			
Blocking Alarm	berverin		1			
Alarm Out	File Path:		mnt/NAS/NFS			
Alarm Log			1			
Abnormal Alarm						
E Storage Manage						
Network Storage						
Record Manage	S					
···· Timing to Capture						
HDD Manage						
E- System Parameter						
System Settings						
Maintain						
Authentication Settings						
Custom Time						
System Time						
Account						
- Account						
			OK	Refresh	Apply	

Figure4-6-2 NAS setup



4.6.2 Record Manage

Open [Settings] \rightarrow [Storage Manage] \rightarrow [Record Manage], as shown in Figure 4-6-3:

[Record Stream] you can choose [main stream] and [sub stream]

[Record Mode] you can choose [Plan record], [Startup record] and [Forbid record]

[Startup record]_After the device starts recording starts, only manually stop recording.

[Plan record] You can set the alarm, motion detection, timing. Alarm recording and motion

detection alarm needs to check the video settings in the linkage, the specific setting procedure see

"4.6.4 Alarm Recording"

You can quickly copy the scheduled time.

You can quickly remove the scheduled time by clearing function.



Figure 4-6-3 Plan record



4.6.3 Timing to Capture

Open [Settings] \rightarrow [Storage Manage] \rightarrow [Timing to Capture], as shown in Figure 4-6-4:



Figure 4-6-4 Timing to Capture

Timing to capture Timing to Capture is enabled.

[Picture Quality] you can choose [best],[good],[normal],[bad],[worse]

[Interval] Set the time capture time interval, Many choices between 0.1 s to 60 s

[Storage Location] you can choose local memory [NAS storage] [FTP storage] [Removable disk Storage]

4.6.4 HDD Manage

IP Camera if support for built-in SD card and external USB disk recording, maximum support capacity of 64G



Video Setup Colour Setup	•	HDD M	anage						
···· Privacy Mask ···· OSD Setup		Diele TD	Time	Canadita	Erro C	Diale Ch	Chathan	Duranta of	
ROI Setup		OISK ID	U Disk	7064 M	5867 M	OK	Recording	Progress or	_
Network Parameter Basic Network			U Dian			-	recording		
PPPOE Setup		-							
DDNS Setup									
···· Mobile Setup									
Center Platform									
Active Connection									
E PTZ Parameter									
Protocol Setup									
- Alarm Parameter									
Motion Detect				1		1		1	
Video Loss	=	Star	t Record	Stop	Record	Disk (Offload	Format	
Alarm In									
- Alarm Out									
Alarm Log									
Abnormal Alarm									
E Storage Manage									
Record Manage									
Timing to Capture									
HDD Manage									
System Parameter									
System Settings Maintain									
Authentication Settings									
···· Timing Maintenance									
System Time									
o you and									
System Info									
System Info Account	-								

Figure 4-6-5 HDD Manage

If the plan is not set record, IP Camera installation of a disk, boot auto start recording. Format Disk:

Step I: Select the disk

Step II: Click the "Format"

Step III: When formatting the disk, click "refresh" Viewing Disk Status.

Disk Offload:

Step I: Click the "Stop Record"

Step II: Click the "Disk Offload"

Step III: Remove the SD card or USB disk

[Start Record] Manually start recording

[Stop Record] Manually stop recording



4.6.5 Alarm Record Setup

Step I: Insert the SD card to the IP Camera SD card interface or connect the built-out USB interface to the mobile disk

Step II: Open [Settings] → [Storage Manage] → [Record Manage], as shown in Figure 4-6-3: [Record Stream] you can choose [main stream] or [sub stream] [Record Mode] choose [Plan record] [Plan record] You can set the alarm, motion detection, timing. Alarm recording, "OK" save. StepIII: [Video Detect] open alarm, check [Linkage Record] → [OK] StepIV:[System Settings] set [Video package time] → [OK]; the default package for 10 minutes, no need to set.

When a video trigger motion detection, disk start recording

4.6.5 IE record playback

Select **[Playback]** from the IE interface; playback the local recording document at the record playback page; search, playback and download the record file recorded by the Settings mobile disk. Shown as Figure 4-6-6:



Figure 4-6-6 IE playback interface

Introduction of interface function



IP Camera User Manual

		D	ec	201	15	Þ	••		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
	29	30	1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		Settings of time section of record searching
	20	21	22	23	24	25	26		
	27	28	29	30	31	1	2		
	3	4	5	6	7	8	9		
				Cle	ear	Тос	lay		
	Fil	le Nam	ne	Cha	nnel	Siz	ze	Play	
09	9:37:49	9-09:47	:51	(D	393.	2M	Play	
09	9:43:49	9-09:53	8:50	(D	379	1M	Play	
09	9:53:50	0-10:00	00:00	(D	242	M0.	Play	Search result and click the recording file to play
10	0:00:01	1-10:04	:22	(D	170	5M	Play	
10	0:10:54	-10:20	:55	(D	392	8M	Play	
Deput	laad								Select the file to be downloaded and then click
DOUM	loau								this button to download the recording file
Show	Dow	nload	l Tas	sks					Click this button , check the download task
0.000									Click this button, browse and play the
Ope	11								downloaded record file
Pla	y								Click the button and play the recording file
Paus	se								Click this button, and pause the playing of the recording file
Sto	р								Click this button and stop playing the recording file
Zo	om								Playback zoom up

4.6.7 Client recording playback

For the detailed introduction of the client recording playback, please refer Using Manual of Video Monitoring Management Software



4.7 System Parameter

4.7.1 System Settings

Open [Settings] \rightarrow [System Parameter] \rightarrow [System Settings], Shown as Figure 4-7-1:

192.168.1.100(8200)							x
Colour Setup	*	System Settings					
Colour Setup Privacy Mask OSD Setup ROI Setup ROI Setup ROI Setup DINS Setup DDNS Setup DDNS Setup DDNS Setup DDNS Setup ODNS Setup OLONS ODNS Setup ODNS S	• E	System Settings Equipment: Device ID: Video package time: Loop recording: Video Mode: Date Format:	IPCAM 0 10 Open PAL YYYY-MM-	DD hh:mm:ss	Def	Minute	
1			ОК	Refres	sh	Apply	Ī

Figure 4-7-1 System Settings

[Equipment] Device Name Description, the user can customize. Default IPCAM

[Device ID] Device ID

[Video package time] The length of time for each video file

[Loop recording] When the disk is full, you can set loop recording.

[Video Mode] PAL and NTSC

[Date Format] Date format options, supports 6 formats

[Default] The default system settings



4.7.2 Maintain

192.168.1.100(8200)		x
192.168.1.100(8200)	Maintain Upgrade Browse Browse Upgrade Setup update Save all the changed parameters to the flash. All your settings are saved after restarting the IP camera. Save Configuration file upload and download Configuration Upload Download Path D:\WVFile\ConfigFile\192.168.1.100\	
Protocol Setup Protocol Setup Protocol Setup Protocol Setup Protocol Setup Marm Parameter Motion Detect Video Loss Alarm In Blocking Alarm Alarm Out Alarm Log Abnormal Alarm E- Storage Manage Network Storage	Save all the changed parameters to the flash.All your settings are saved after restarting the IP camera. Configuration file upload and download Configuration Download Path D:\NVFile\ConfigFile\192.168.1.100\ Download	
Record Manage Timing to Capture HDD Manage System Parameter System Settings Mantan Authentication Settings Timing Maintenance System Time System Info Account	Bin backup D:\WVFile\BinFile\192.168.1.100\Backup.bin Backup OCX Version: 2.16.3.4 Server version: 4.11.23.74 FC (2016-02-25) Restart Restore	
Local Setup	OK Refresh Apply	

The IP Camera Maintain, open [Settings] →[System Parameter] [Maintain], Shown as Figure 4-7-2:

Figure 4-7-2 Maintain

[Upgrade] Update device firmware. Refer to "Appendix I Firmware Upgrade"

[Save] You can save remote configuration parameters

[Configuration file upload and download]Users can download save configuration file according to your needs, download a configuration file can be uploaded to the same model of the camera.

[BIN backup]BIN backup use to Flash.

[Restart] Software Reboot

[Restore] Software restore settings. It does not restore the IP address and video mode.

[OCX Version] OCX version information display

[Server version] Server version information displayed



4.7.3 Authentication Settings

ONVIF authentication and RTSP authentication Settings. ONVIF authentication turned on and off is immediate effect.

RTSP certification is divided into: no authentication, BASIC64 certification, DIGEST authentication.

RTSP URL is RTSP stream address, MCAST URL is RTSP multicast address.

192.168.1.100(8200)				×
Colour Setup	Authentication Settir	ıgs		
Colour Setup Privacy Mask OSD Setup ROI Setup ROI Setup DDIS Setup DDNS Setup DDNS Setup DDNS Setup DDNS Setup DDNS Setup ODNS Setup	Authentication Settin	IgS	on 1. 100:554/11 1. 100:554/mcast/11	
Local Setup				
		ок	Refresh	Apply

Figure 4-7-3 Authentication Settings

4.7.4 Timing Maintenance

Timing Maintenance is the camera according to the set date/time automatically restart, achieve maintenance.

Enable the timing, set the maintenance date and maintenance time.



192.168.1.100(8200)			_		×
192.168.1.100(8200)	Timing Maintenance Modification date Maintenance time	Sunday 16:30:57			
- System Settings - Maintain - Authentication Settings - Timing Maintenance - System Time - System Time - System Info - Account - Local Setup					
		ОК	Refresh	Apply	

Figure 4-7-4 Timing Maintenance

4.7.5 System Time

The time correction has two methods; open [Settings] \rightarrow [System Parameter] \rightarrow [System Time]: I. [NTP Time Sync]: the system provides automatic NTP time correction; the network of the IP Camera is required to access the public network, please configure the network according to "Chapter 4.2 Network Parameter". According to the actual demand: tick [NTP Time Sync] and use it as Figure 4-7-5, select [Time Zone] (capable of Settings 24 time zones throughout the world), set NTP server address, NTP port, and time interval. Click [Set], store parameter. The defaulted NTP server address: time.windows.com; port: 123; the time interval is the integer from 1 hour to infinite.

II. [Manual correction]: the system provides the Settings IP Camera and PC time correction function; after confirming that the time of PC is correction, the IP Camera will correct time with the PC by clicking [Set]

Note: [Manual correction] is carried out according to the PC terminal time; therefore, when it is required to the time of IP Camera, time of PC terminal is only required to modify, and then the time correction can be carried out.





Figure 4-7-5 System Time

4.7.6 System Info

open [Settings] \rightarrow [System Parameter] \rightarrow [System Info], Display the system information, Shown as Figure 4-7-6:





Figure 4-7-6 System Info

[OCX Version] OCX Version [Server version] Server version

[Hardware Version] Hardware production date

[WEB Version] WEB Version

[Device Type] Device Type

[Serial No] Serial number of the device, each serial number is unique

[Digital channels] Digital channels

[The max number of video] The max number of video

[The max number of audio] The max number of audio

[Alarm input number] Alarm input number

[Alarm output number] Alarm output number

[The number of hard disk] The number of hard disk

[Device Support] This device support the features



4.7.5 Account

192.168.1.100(8200)				×
Colour Setup	Account			
Privacy Mask				
OSD Setup				
ROI Setup	Username:	admin	Add U	iser _
Network Parameter	Lines Turney			
Basic Network	User Type:	Administrator	<u></u>	Add
···· PPPOE Setup	Password:	*****		0.00
···· DDNS Setup		I.		
···· Mobile Setup	-			
···· UPNP Setup	M remote preview au	thority	M Remote Maintenanc	e
EMAIL Setup	Remote Control PT	Z	🔽 Remote View Log	
Center Platform	E			
Active Connection	Manual vic	leo	Remote Advanced C	Operation
PTZ Parameter	Remote Playback		✓ remote initiate voice	: intercom
Protocol Setup	-			
Cruising Point Setup	M remote setting par	ameter		
Harm Parameter	Control In Lawrence	l		
Motion Detect	Serial Username	user type		
Video Loss	1 admin	Administrator		
Alarm In				
Biocking Alarm				
Alarm Log				
Abaarmal Alarm				
Abnormal Alarm				
En Storage Manage				
Decord Manage				
Timing to Conturn				
HDD Mapage				
El System Parameter		Delete		
System Settings	modify	Delete		
Maintain				
Timing Maintenance				
System Time				
System Info				
Account				
Local Setup				
		ОК	Refresh	Apply

4-7-7 Account

The server supports ten users at most. Every user can set independent right;

The admin user right cannot be modified.

Add user settings step:

Step I: open [Settings] \rightarrow [System Parameter] \rightarrow [Account], show as Figure 4-7-7, Check the "add user" and enter the user name and password, select the user type (operator and normal users) **Step II:** Add user rights assignments, gray non-operating authority.

Step III: After the user name, password, and permissions assignment is complete, click "add" Completing the Add User, click [OK]

Users to modify:

Step I: select the need to modify the user can modify the user name, user type, and password, user privileges.

Step II: Click "Modify" click "OK" to finish.

Users to delete:

Step I: Select the user you want to delete, click "Delete" click "OK" to complete the removal.



5 Wireless Access

5.1 Access through Wi-Fi

5.1.1 Configuration of wireless parameter of wireless router

Log in the wireless router and select wireless parameter; (take TP-LINK wireless router as an example): configure SSID number, encryption mode and password.

5.1.2 Configuration of wireless parameter of camera

Note: Before Settings WIFI parameter, please confirm that your camera has been equipped with the WIFI net card and antenna

Open [Settings] \rightarrow [Network Parameter] \rightarrow [WIFI Setup], wherein the wireless state selects [Static IP] or [DHCP] mode. Two methods can configure the wireless Settings.

Method I:

Search wireless configuration: click the Settings interface [search wireless] once, and search all wireless ID, encryption mode, signal intensity, and MAC address of wireless router within the current signal scale; double click and select the wireless ID required to add; and then manually configure wireless IP address, gateway, sub-net mask, DNS, working mode, and encrypted content; show as Figure 5-1-2

[Encrypted content]: the wireless password must be in accordance with the PSK password for wireless router.

Method II:

Manually add wireless configuration: manually configure wireless IP address, gateway, and subnet mask, DNS, ESSID, working mode, character format, and encrypted content, show as Figure 5-1-2 [ESSID]: the name of the wireless network is the same as the wireless router;

[Operation Mode]: select "infra"

[Password]: the wireless password must be in accordance with the PSK password for wireless router.

[Character format]: select HEX or ASCII encrypted character format according to the encryption mode of the wireless router

[Encryption mode]: select "WPAPSK-AES" or "WPA2PSK-AES"

After Settings above parameter through method I or method II, click [Apply]-[OK]; select [Yes] from the popped storage parameter dialog box.



∃. Channel Parameter … Video Setup	WIFI Setup			
	WIFI Setup WIFI Status: WIFI Mode: IP address: Getway: Mask: DNS: ESSID: Operation Mode: Encryption Mode: Character Format: Password: WPS Status: Connecting Status:	DHCP Station 192 . 168 . 5 . 192 . 168 . 5 . 255 . 255 . 255 . 8 . 8 . 8 . name infra WPA2PSK-AES ASCII 12345678 Disable Connect Success	▼ Search WIFI ▼ WPS button	
Account Local Setup				

Figure 5-1-2 Wireless Settings interface

5.1.3 Access camera through wireless IP

Add wireless IP through video monitoring management software or input wireless IP address at the IE address bar directly so as to connect the camera. As for the method of adding the camera to the client, please refer to <u>"Chapter 3.3 Access through client"</u>

5.2 Access through mobile phone

5.2.1 Configuration of camera and mobile phone parameter

Open [Settings] \rightarrow [Network Parameter] \rightarrow [Mobile Setup]; set port of the mobile phone; the default is 15961; P2P Information: P2P dimensional code, mobile software download, shown as Figure 5-2-1:



192.168.1.100(8200)				×
192.168.1.100(8200)	Mobile Setup Port: Port: Alarm to cer P2P P2P ID: Domain: Status:	15961 hter bi028d865f 04DE2D,dvripc.cn Network connect fail P2P	APP	
Authentication Settings Timing Maintenance System Time System Info Account Local Setup				
		ОК	Refresh	Apply

Figure 5-2-1 Mobile phone access Settings

5.2.2 P2P access

Download and install CamViews phone APP, two-dimensional code scanning P2P add devices. CamViews detailed instructions please refer to the "*CamViews Mobile Client User Guide*"

5.2.3 Mobile phone access

When access camera in LAN though mobile, the network of ip camera and mobile need to be at the same network segment. When remote access camera though WAN, make sure that camera is connected to WAN and mobile is also connect to network or enable 3G/4G. As for the installation and access of the mobile phone software, please refer to the *CamViews Mobile Client User Guide* attached by the light disk matched at random, and the mobile phone monitoring software.



5.2.4 Mobile phone alarm

Set [Alarm uploading], wherein we call "mobile phone alarm uploading" as [Mobile phone Push Alarm] function; tick and use the [Alarm uploading center], and the network of the IP Camera can access the public network; meanwhile, the mobile phone software is required to open the Push Alarm; please refer to *Instruction Book of Mobile Phone Monitoring Software* about the operation instruction of the mobile phone. When the IP Camera triggers alarm, the mobile phone will receive the alarm prompt information and check video in real time.

5.3 Access through 4G

5.3.1 4G parameter Settings

Note: Before Settings 4G parameter, please confirm that your camera has been equipped with 4G net card and antenna, Support: Telecom 4G, Unicom 4G, mobile 4G Open [Settings] \rightarrow [Network Parameter] \rightarrow [4G Setup]; select "4G Mode";Click [Apply] and save parameter. The first dialing time is about 1 minute. After dialing successfully, it can be used; if the dialing of 3G card is successful, the 4G state will show "Dial Success", and the IP address will show the obtained IP address.

Support modem type: Huawei E3276 (4G), Huawei E171 (3G), Huawei E352 (3G), Huawei ME909S (4G), Long Shang U8300W (4G)

5.3.2 4G access

Please use the DDNS domain name access



6 WAN Access

6.1 Access through DDNS

6.1.1 DDNS Settings

According to user's demand, if user is required to access IP Camera through the domain name, set it by selecting the DDNS supported by IP Camera; at present, five types of DDNS servers are supported, which are: www.3322.org; www.dyndns.com; www.nightowldvr.com; www.on-ip.com; MyEYE (MyEYE is DDNS provided by our company for free, which is www.dvripc.cn; www.dvripc.net; "cn" is the domain name of domestic server; "net" is domain name of foreign server) . For the detailed Settings of the MyEYE domain name, please refer to "Appendix III MyEYE domain name"

Log in the website of the domain name analyzing sever and register a domain name; then access the IP Camera through the registered domain name. MyEYE is not required to register; if IP Camera is indirectly connected to the public network through the router, it is required to perform the port mapping on the router or use the UPNP port mapping (it needs that the router starts the UPNP function).

The detailed configuration process of the port mapping, please refer to "Appendix II Port mapping method"

6.1.2 DDNS domain name access

Through the video monitoring management software, add domain name or directly input domain name in the IE address bar so as to connect to the camera. As for the method of adding domain name to the video monitoring management software, please refer to **Chapter 3.3 Client access**

6.2 Access through P2P

Configure P2P according to the ex-factory demand of user, use the spot-to-spot mapping technology of the P2P cloudy server, and support Telecom/China Netcom/Unicom/Mobile internet/Cable network/Railcom/GWBN/ FTTX LAN, and other various networks. By applying the P2P technology to IP Camera, the IP Camera is added with the following

characteristics: 1. Plug and play

2. Check and remember the free domain name of IP Camera only; if the third party software is successfully set, it is not required to remember any domain name or IP of the camera, watch it easily. All problems can be solved by network wherever and whenever.

3. P2P technology makes the IP Camera suffer from the neck restriction between different network



operators, and can reach the mutual smooth communication among Telecom, Railcom, GWBN, China Netcom, and FTTX LAN.

4. Reduce the band width occupied by the WAN access of IP Camera

Add domain name through the video monitoring management software or directly input domain name at IE address bar so as to connect to the camera. The P2P transmission method can support the mobile access at the same time.

The P2P cloudy service of our company is bound with the MyEYE domain name; the machine with ex-factory set P2P is only required to set the MyEYE domain name instead of P2P separately; through the domain name, IP Camera can be accessed easily

As for the detailed Settings of the MyEYE domain name, please refer to "Appendix III MyEYE domain name"



Appendix I Firmware Upgrade

Step I: Open [Settings] \rightarrow [System Parameter] [Maintain], click [Browse], and show as Figure 7-1-1

Step II: select upgrade document, and show as Figure 7-1-1

92.168.1.100(8200)				23
 Channel Parameter Video Setup Colour Setup Video Blind OSD Setup Network Parameter Basic Network 	Maintain Upgrade	in 		
WIFI Setup PPPOE Setup DDNS Setup Mobile Setup			1 Browse	
EMAIL Setup			4 <u>Upgrade</u>	2
Center Platfor	Please change the impor	ort file.		— X
Protocol Setur Cruising Point		0.66 ► V4.00.00.66	↓ Search V4.00.00.66	5 ,
- Alarm Parameter Motion Detect	Organize 🔻 New fol	lder	!≡ ▼	
Video Loss Alarm In Alarm Out	★ Favorites	Name	Date modified	Туре
… Alarm Log … Abnormal alarr ⊡ Storage Manage … Record Manag … Timing to Capt	Downloads Desktop E Recent Places	US_0F_IPC_V4.00.00.06.rom	Z 2015/8/8 17:03	KOMI
HDD Manage System Parameter System Setting	🕽 Libraries 📕 Videos			
Maintain System Time System Info Account	 Pictures Documents Music 			
Local Setup		•		
	File na	ame: DS_6F_IPC_V4.00.00.66.rom	 ROM Files (*.ROM) Open 	▼ Cancel

Figure 7-1-1 Browse file

Step III: click [Upgrade], and wait for the completion of the server upgrade



- Before upgrading, please contact with our technician, and upgrade it under the guidance of the technician
- > The network cannot be disconnected during the upgrading process
- > The power supply of the IP Camera must be stable during the upgrading process

After completion of upgrading, the UP Camera will be restarted automatically; before re-running the system, do not perform any operation



Appendix II Port mapping method

Note: the description below takes the configuration interface of the TP-LINK router (model is TL-R410) as an example, the configuration interface of the other router may be different.

Step I: firstly, select internet access method from the "setup guide" of the network router where the IP Camera locates.

Step II: set "network parameter" of router, wherein the Figure below is the parameter Settings of LAN port, it includes the mask and gateway of LAN; the IP address 192.168.168.1 is the gateway of the internal network.

D-Link Building Networks for People		802	Air 11g/2.4GH	Plus G	outer
T	Home	Advanced	Tools	Status	Help
DI-524	Device Inform	ation			
Martin and		Firmware Version:	V2.04Patch05 , M	lon, Feb 26 2007	
	LAN				
		MAC Address 0	D-1C-FO-83-D3-1A	1	
Device Info		IP Address 1	92.168.168.1		
		Subnet Mask 2	55.255.255.0		
Log		DHCP Server D	isabled		
	WAN				

Step III: perform the port mapping in the option "Transfer rule" \rightarrow "Virtual server" of the router. The port number of the IP Camera is 80,8200,554; IP is 192.168.1.90; select All or TCP in the protocol and select use; after storing corresponding Settings, realize the port mapping function, show as the Figure below

	Name	Private IP	Protocol	Schedule	
ince	Virtual Server FTP	0.0.0.0	TCP 21 / 21	Always	
	Virtual Server HTTP	0.0.0.0	TCP 80/80	Always	
	Virtual Server HTTPS	0.0.0.0	TCP 443 / 443	Always	
	Virtual Server DNS	0.0.0.0	UDP 53/53	Always	
	Virtual Server SMTP	0.0.0.0	TCP 25/25	Always	.0
	Virtual Server POP3	0.0.0.0	TCP 110 / 110	Always	.0
	Virtual Server Telnet	0.0.0.0	TCP 23/23	Always	.0
	IPSec	0.0.0.0	UDP 500 / 500	Always	.0
	PPTP	0.0.0.0	TCP 1723 <i>1</i> 1723	Always	
	DCS-900,DCS-1000	0.0.0.0	TCP 80/80	Always	
	DCS-2000,DCS-5300	0.0.0.0	TCP 800 / 800	Always	
	DCS-3120	0.0.0.0	UDP 5002- 5003 / 5002- 5003	Always	
	DVS	192.168.168.72	TCP 8200 / 8200	Always	
	V DVS	192.168.168.72	TCP 80/80	Always	.0

Through the Settings above, the 80,8200,554 port mapping of the router is mapped to 192.168.190 of IP Camera, thus the 80,8200,554 port of the router is access 192.168.168.72.

Note: the port number of the IP Camera cannot conflict with the other port number; if the web administration port number of the router is 80, it is required to modify the port number of the router or the IP Camera so as to avoid conflict.



Appendix III MyEYE

Note: MyEYE is the latest free dynamic secondary domain name of our company which solves the problems that the Settings monitoring requires fixed IP and the update of the domain name is slow; the new generation of domain name is possessed of quick refresh time and stable domain name and supports the uniform management of multiple domain name; it is not required to register user. Wherein the dvripc.cn belongs to the domestic domain name server; dvripc.net belongs to the foreign domain name server. Hong Kong, Macao and Taiwan use .net domain names.

MyEYE is turned on by default. MyEYE P2P domain access points and access to two kinds of port mapping.

A. P2P access

Step I: log in client software or IE preview interface-->open [Settings] \rightarrow [PPPOE&DDNS Setup]-->Enable DDNS-->select MyEYE DDNS network provider. Shown as Figure 7-3-2

Step II: input domain name on the DDNS Settings interface, where in the default domain name is the last 6 digit numbers of MAC address; click "Apply" and store. **The MyEYE not requires the user name and password.**

Step III: View DDNS status and P2P status, P2P state is shown in 7-3-1:

DDNS state and P2P states are showing "success", Means the P2P domain can access. Such as status displays "network connect fail", please check the network if there are problems. If you have questions, please contact the technician.

Step IV: Add domain through CMS or in the IE address bar, enter the domain name can be connected to the camera



192.168.1.100(8200)					×
192.168.1.100(8200)		Mobile Setup Port:	15961 bi028d865f		
 □- PTZ Parameter □- Protocol Setup □- Cruising Point Setup □- Alarm Parameter □- Motion Detect □- Wideo Loss □- Alarm In □- Blocking Alarm □- Alarm Out □- Alarm Log □- Alarm Log □- Alarm Qut □- Alarm Log □- Storage Manage □- Network Storage □- Record Manage □- Timing to Capture □- HDD Manage □- System Parameter □- System Settings □- Maintain □- Authentication Settings □- Timing Maintenance □- System Info □- Account 	Domain : Status: P2	Network connect fail			
			ок	Refresh	Apply

Figure 7-3-1 Mobile P2P

B. Port mapping

Step I: log in client software or IE preview interface-->open [Settings] \rightarrow [PPPOE&DDNS Setup]-->Enable DDNS-->select MyEYE DDNS network provider. Shown as Figure 7-3-2

Step II: input domain name on the DDNS Settings interface, where in the default domain name is the last 6 digit numbers of MAC address; click "Settings" and store. **The MyEYE not requires the user name and password.**

Step III: set UPNP or set port mapping on the router. As for the port mapping method, please refer to "Appendix II Port mapping method"

Step IV: Add domain through CMS or in the IE address bar, enter the domain name can be connected to the camera



192.168.1.100(8200)	DDNS Setup ✓ Enable DDNS Server Provide: Centor IP: Domain : Port: Username: Password: Update Interval: DDNS Status:	MyEYE dvripc.cn 730DC0 80 30m Network connect fail	.dvripc.cn	
System Parameter System Settings Maintain System Time System Tine System Info Local Setup		OK	Refresh	Apply

Figure 7-3-2 MyEYE Setup



Appendix III Default Parameter

1 Network parameter

1) Network video server and default parameter of IP Camera

Parameter	Default
IP address	DHCP(Direct Connect IP:192.168.1.100)
Subnet mask	255.255.255.0
Gateway	192.168.1.1
DNS	8.8.8.8
Data port	8200
web port	80
RSTP port	554
Mobile phone access port	15961

2. Username and password

Parameter	Default
Username	admin
Password	admin

Appendix IV Common troubleshooting instructions

Q: How to quickly connect the new machine and preview pictures?

A: Please read IP Camera Quick User Guide before using the equipment

Q: Why the searching tool for opening the IP Camera cannot search the equipment IP?

A: Reason 1: the IP Camera is not connected with the power supply or does not use the power adaptor meeting the standard;

Solution: supply power to the equipment by using the standard power adaptor of the IP Camera, check whether the power indicator lamp (PWR) of the equipment is lighted, and whether the equipment running light (RUN) is flashed normally.

Reason 2: the network wire is bad or the network wire is too long;

Solution: manufacture the cable again, wherein the length of single network cable shall not exceed 80 meters; try to use the more than five types or six types of shield network cables with good quality; after connecting the network cable, please check whether the network connection indicator lamp is lighted.


Reason 3: the computer firewall stops the searching tool;

Solution: before opening up the searching tool, please try to close the firewall of the computer temporarily; after normally connecting the equipment, open up the firewall of the computer.

Reason 4: Other reasons

Solution: press the Reset key of the equipment under the charging state for about 5 seconds and set free after the network light is turned off, thus the equipment will be restored to the ex-factory default parameter. The equipment default ex-factory IP address is **192.168.1.100**,

Q: Why the picture is dim or has color cast after connecting the picture?

A: Reason 1: the lens is dirt, and the lens hasn't adjusted the focal length well or the used lens is not accordance with the IP Camera;

Solution: clean the lens carefully by using a professional lens cloth, re-adjust the focal length of the lens; please use the megapixel lens if it is the megapixel IP Camera with.

Reason 2: the brightness, contrast ratio, definition and color parameter are not well adjusted;

Solution: fine adjust the brightness, contrast ratio, definition and color parameter again according to the specific installing environment.

Q: Why the IP camera cannot be accessed through internet?

A: Reason 1: there is no access environment of internet or no access right.

Solution: please install the internet access environment in advance, e.g. open up the ADSL network or fixed IP address of internet; if there is no network access right, please contact with the network administrator to open up the relevant access right.

Reason 2: there is not well set network parameter, port mapping and DDNS;

Solution: the correctly set network parameter of the IP Camera includes IP address, subnet mask, gateway, DNS and network access port so as to ensure that your equipment network address can be normally connected with the internet; normally configure the port mapping, apply and configure correct DDNS domain name.

Q: Why the video image is not smooth or has big delay when the IP Camera is accessed through internet?

A: Reason: the network bandwidth for uploading or downloading is not enough;

Solution: optimize or promote the uploading bandwidth of the IP Camera access and improve the downloading bandwidth of the access port network; reduce the coding rate and frame rate of IP Camera.

