

Dear customers, you are strongly recommended to read the "User's Manual" carefully before use since the machine needs a professional job for functional settings.

Ivision IP Camera

User's Manual

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Declaration

Some technical details in this User's Manual may not be described accurately or some printing errors may exist in this user's Manual. When you use the product and have any problems that could not be solved by following this User's Manual, please call our Technical Dept. for troubleshooting. This User's Manual is subject to update without notice.

Packing List

Name	Qty
Host of IPC	1 Set
12V/1A or 12V/3A Power	1 Set
"User's Manual for IPC"	1 Сору
Supporting Disc	1 Disc
Conformity Certificate And Warranty Card	1 Card

Precautions for use

1. Installation Environment ;

- [®] Keep this NVS away from heat source, high temperature environment and direct sunlight;
- Keep the NVS away from the unventilated site to ensure normal heat dissipation; make sure to keep the NVS away from water, dampness and lightning. If installing this NVS outdoor, please provide the waterproof tank to fix the NVS inside;
- Please install the NVS horizontally or on wall surface; keep the installation site away from intense shock; never place any other devices on NVS.

2. Electrical shock and fire control

- Never touch the power source or NVS with wet hand;
- Never drop any fluid on the NVS, otherwise it may cause short circuit or fire inside the NVS;
- Never put any other devices on the NVS directly;
- No unprofessional person is allowed to open the housing; otherwise it may cause damage or electric shock.

3. Transport and handling

- It has been made the shock-resistant design and test for packaging to ensure the NVS be out of unexpected damage in transit; when handling this NVS, you'd better use the original packaging materials and cartons;
- When transporting the NVS with the hard disc, it is required to fix the hard disc on the disc holder inside the NVS and use the screws to fix; otherwise it may cause the hard disc to be damaged;
- Never move the NVS in the super-cooled or super-hot conditions; otherwise it may cause the machine to frost inside and cause influence on the use life;
- It is prohibited to move the NVS when power supply is on; otherwise it will damage the hard disc and main board.



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1 About the product

1.1 Product introduction

Thank you to use our product, we shall provide you the best service. The NVS offers a smooth video transmission and higher level of resolution, high performance operating system and sound video frequency compression algorithm, 3G and WIFI for optional. The NVS is available multiple ports for function expansion so as to meet your higher requirement; with the built-in WEB server, it can enhance the performance of the traditional monitoring system, and provide network connectivity for publishing monitoring image on a safe LAN or Internet. The NVS is easy to use the Internet Explore(IE browser) management, configuration, monitor, and the operation is rather simple and convenient.

1.2 Function introduction

- Support D1, 2CIF, CIF, QCIF, (704*576、704*288、352*288、176*144) resolution;
- Support H.264, MJPEG image compression encoding;
- Support two-way Talkback, third-class user rights, with perfect functions;
- Two-way voice Talkback, support external audio input and output;
- Complete network protocol, support RTSP, VLC (PS/TS) Media Protocol;
- Support the mobile phone for remote monitoring;

Parameter/Model	IV-NT6811D/NT9011D		
Compression standard			
Video frequency compression standard	H.264/MJPEG		
Compression output code rate	32K~4Mbps/1M~16Mbps		
Audio frequency compression standard	G.711		
Audio frequency output code rate	64Kbps		
Image			
Image size	704*576; 704*288; 352*288; 176*144 704*480; 704*240; 352*240		
Frame Rate	1-30f/s		
Image Setting	Brightness,contrast,saturation,hue,Exposal control		
Function			
Mobile phone monitoring	Support		
Network protocol	PPPoE、DHCP、TCP/IP、HTTP、UDP、RTP/RTCP、 RTSP、UPNP、SMTP、FTP、SIP、DDNS、DNS		
Video frequency	One-way video input		
Audio frequency	One-way linear audio input/output; one-way microphone input; one-way earphone output		

1.3 Technical specifications



Motion detection	Support	
Area shield	Support	
SD Card local storage N/A		
General specifications		
Working temperature	-10℃~65℃	
Working humidity	85%RH or less	
Power source	DC12V/1A	
Power consumption	<5W	

2 Appearance and description





IV-NT9011D



IV-NT6811D

IV-NT6811B



IV-NT9011B

You can use the following steps to restore to the Default Settings, i.e.:

- 1. Switch the power source off;
- 2. Press and hold the Reset button;
- 3. Switch the power source on;
- 4. The indicating lamp will be on;

5. The relay sends sound; release the Reset button; at this time the product is restored to the Default Settings, and the indicating lamp flashes.

3 Equipment and installation

3.1 Operation environment

Operating system: Windows2000server/professional/XP Network protocol: TCP/IP

Client terminal PC: P4/128MRAM/40GHD/ Support scaling display card; Support DirectX8.0 or above.

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3.2 Installation of equipment

- 1. Connect the NVS with PC via cross network cable;
- 2. Switch the DC12/1A power on;

3. If the network connection is successful, the indicating lamp (orange) at the network interface will flash within 5 seconds and the indicating lamp of data (green) will be on; at this time, the physical connection of the NVS is finished.

4 IE Version Client Terminal

4.1 Preparations

- 1) The NVS default IP address is 192.168.1.19, and the subnet mask is 255.255.255.0; it can change the IP address of the NVS, for instance, change the IP address of the NVS into 192.168.1.194; if so, it should change the IP address of your computer into the network segment as same as the one of the NVS, and the same subnet mask, i.e.: 192.168.1.171.
- Test if the NVS starts normally. Under the WINDOWS system, please follow <Start→run→command> to operate and open the Command Line Window, and then enter Ping 192.168.1.19; if there is no "Request Time Out" to disappear, it means the start is done normally;
- 3) When using the Internet Explore to access to the NVS firstly, it must decline the security setting temporarily so as to install ActiveX component into the network one time. You can finish this operation by following this path, i.e.: Tool → Internet → Security → Customer level → Active X control and plug-in component; please set the low security level and click the Reset button.

4.2 Start to login

1) Enter http:192.168.1.19 in the Address Bar of the Internet Explore, and then it will display a Log-in Interface as follows:



2) Read carefully the hints on the interface; if the Activex is a must, please click "Download and install controls" button, and then follow the hints to finish installation;

3) If the IE (Internet Explore) version that is used is less than 6.0 version, please upgrade the IE accordingly;

4) Enter user name: 888888 (factory defaults, admin user) or 1 (client user);

5) Enter password: 888888 (factory defaults, administrator password) or 1 (client user



password);

6) Click "OK" button to open Preview of NVS as follows:



4.3 Function introduction

4.3.1 Real-time monitoring

[Network Mode]: TCP and Multicast, choose as per your own demand;

[Play real-time video]: Click " Play ," button, it will play all real-time video of all channels in the preview window;

[Stop playing video]: Click "^{Stop}" button, it will stop playing all real-time video of all channels in the preview window;

[Audio frequency]: Click " 🖉 Audio

" button, the button will become orange.

Microphone input: Import the audio from the audio input port of the NVS; access to the device through your computer and start the audio function; if you can hear a voice, it means the microphone input of audio is finished. The audio parameter setting needs to be set as per the following path, i.e.: "Parameter setting" -> "Channel parameter" -> "Audio parameters"; see the following Figure:



IP CAMERA					
	Real-time Replay	Settings			
Save Reboot	Basic parameters	Network Parameters	Channels Parameters	Alarm Parameters	Server storage
Notes			imes Character superposition		
INDIC:			🔻 Video Coding		
 Click Save after changing the parameters, to make sure the 			▼ PTZ Protocol		
parameters be saved when device start up next time.			🔻 Adjust color		
2. Most of the parameters will work after you click OK. Some			💌 Area Shield		
of them need to save and reboot first. Attention to the note.			▼ Audio Parameters		
	Audio input setti	ngs			
	Audio in type:	Line-in	~		
	Line-in volume:	90	0-100		
	Audio output sett	ings			
	Audio out volume:	100	0-100		
				(OK

Set the "Audio-in Type" into "Microphone input"; when starting Boost of the microphone, the sound will be amplified.

Linear input: for the NVS, it can also use the audio cable to connect its audio input port with the audio output port of the computer. When using a computer to play music, it can access to the device through other computer and starting the audio frequency function to hear the music, and thence it can realize the linear input of audio frequency.

The Audio parameters is required to set by the following path, i.e.: "Parameter settings" -> "Channels parameters" -> "Audio parameters"; see the following Figure:

IP CAMERA	
	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
	▼ Character superposition
Note:	▼ Video Coding
 Click Save after changing the parameters, to make sure the 	▼ PTZ Protocol
parameters be saved when device start up next time.	▼ Adjust color
Most of the parameters will work after you click OK. Some	▼ Area Shield
of them need to save and reboot first. Attention to the note.	▼ Audio Parameters
	Audio input settings
	Audio in type:
	Line-in volume: 90 0-100
	Audio output settings
	Audio out volume: 100 0-100
	OK

Set the "Audio-in Type" into "Line-in", the tone is adjustable (1-100).

[Talkback]: Click "Ctalkback" Talkback" button, the button will become orange. Connect the microphone with the microphone input port of computer and the sound with the audio output port of the device, and then speak towards the microphone, the sound will play the voice; optionally, it can connect the linear input port of computer with the output port; when a computer plays music, the sound will play the music too. The Talkback can set the tone of the audio frequency exported from the NVS; see the following Figure, i.e.:



IP CAMERA	
	Keal-time Keplay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Neter	 Character superposition
14016.	▼ Video Coding
 Click Save after changing the parameters, to make sure the 	▼ PTZ Protocol
parameters be saved when device start up next time	▼ Adjust color
2. Most of the parameters will	▼ Area Shield
work after you click OK. Some of them need to save and reboot first. Attention to the note	▼ Audio Parameters
	Audio input settings
	Audio in type:
	Line-in volume: 90 0-100
	Audio output settings
	Audio out volume: 100 0-100
	OK

Note: It supports the device with the Talkback function.

[Snapshot]: Click " Snapshot Snapshot" button, it can save the current screen image in the C::\temp catalogue of the local computer as the *.Bmp format; the naming method of the image file is as follows, i.e.: device name + time; for instance: "video server_1_105210"; the size of image file is in accordance with the resolution of image. If there is the superimposed character and time display on the preview image, the superimposed character and time display will be available on the Snapshot.

[Local video]: Click " ERCORD local video" button, the button will become orange and the system will start recording pictures. The system will create a file folder to be named by the current date in D disc of the local computer automatically, and save the video in the file folder in *264 format. The naming method of the video file is as follows, i.e.: IP address + Channel number + time; for instance: the video file on November 5, 2009 will be saved in "d:\20091105\ Video Server _1_155327.264"; if D disc is full, it will go to the next disc to save automatically; if there is no sufficient space in the disc, it will delete the video file to be saved in earlier time and save the current file. Click the Video button again, it will stop recording and the button will become white.

4.3.2 Video replay

[Video replay]: Select "Video replay" option, it will access to the interface for replaying video, i.e.:





Front-end device: Search the front-end SD card video file



Enter the data, start and end time of the query video (local video and remote video) and click "Search" button, it will display all video files that meet the query conditions in the file list.

1. Play: Click the "Play" button at the rear of the video file, it will play the video in the preview window; when finishing playing, the last image will be stayed on the preview window;

2. Download: Click the button beneath the download, it can download the remote video file;

3. RTSP historic replay: Click RTSP, it can display the historic video file through the streaming media.

Note: Please install VLC and QuickTime Player Software before playing.



[Size of preview image]: Click " , button respectively, it will play the preview image in the 1X, 2X and full screen size; the selected size button will become white; when choosing the full screen size, it can restore the original size by clicking the right mouse.

[Image buffering]: Click "0, 5, 10, 20, 50, 100" button respectively, it will set the buffer class of image, i.e.: "0, 5, 10, 20, 50 and 100". The bigger the digit is, the more delay the image will have, and the better fluency the image will have. The selected buffer button will become white.

4.3.3 Parameter setting

[Parameter setting]: Select "Parameter setting" option, it will access to the parameter setting interface as follows, i.e.:

IP CAMERA	
	Real-time Replay Settings
Save	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Note:	 ▼ Device Name ▼ Time Setting
 Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note. 	▼ Video Format
	▼ User Management
	 Finance to recoort Restore to leave factory default parameters
	▼ System update

The parameter setting includes: basic settings, network parameters, channels parameters, alarm parameters and the Server-end storage.

4.3.3.1 Basic information setting

[Basic information]: Click "Basic information" line, it will unfold the setting interface beneath, i.e.:

IP CAMERA	Real-time Replay Settings	
Save	Basic parameters Network Parameters Channels Parameters Alarm Par	ameters Server storage
Note: 1. Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Device Name: video server193 Serial Number: 8000E09110116829	ОК
	 ▼ Time Setting ▼ Video Format 	
	 User Management Timing to reboot 	
	 Restore to leave factory default parameters System update 	

Enter the name of the equipment, and then click "OK", it can change the name of equipment. [Time synchronization type]: 1. Click "Date and time" line, it will unfold the setting interface beneath as follows, i.e.:



IP CAMERA	
	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Note:	▼ Device Name ▼ Time Setting
 Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. Most of the parameters will work after you click OK. Some 	Time synchronization type: Synchronization with PC system Current PC Time: 2010/04/27 11:34:25 Tuesday OK
first. Attention to the note.	▼ Video Format
	▼ User Management
	▼ Timing to reboot
	▼ Restore to leave factory default parameters
	▼ System update

Click "OK" button, the date and time displayed on the preview window will become synchronous with the date and time of the computer being accessed.

2. **Synchronization with NTP Server:** Select "synchronization with NTP Server" from the pull-down menu as follows, i.e.:

IP CAMERA	
	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
 Check Save after changing the parameters, to make sure the parameters be saved when device start up next time. Most of the parameters will work after you click OK. Some of them need to save and reboot 	Time synchronization type: Current PC Time: 2010/04 Synchronization with PC system Synchronization with NTP server OK
first. Attention to the note.	▼ Video Format
	▼ User Management
	 Timing to reboot
	▼ Restore to leave factory default parameters
	▼ System update

Set the time zone, address and port for the NTP server, make the time synchronize with the current time.

[User Management]: Click "User Management" line, it will unfold the setting interface beneath; See the following Figure, i.e.:



IP CAMERA	Real-time Replay Settings
Save Reboot Note: 1. Click Save after changing the parameters, to make sure the parameters, to make sure the parameters be saved when device s.1. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage Device Name Time Setting Video Format Video Format User Management Admin User Name: B898988 Admin User Pwd: Common User Name1: Common User Name1: Common User Pwd1: Verify: Common User Pwd2: Verify: Common User Name2: Common User Pwd2: Verify: Note: Username can only be composed by numbers, letters, and "-,"_" symbols. Ordinary users have no parameter setting permissions.
	▼ Timing to reboot
	▼ Restore to leave factory default parameters
	▼ System update

The default user name and password for the administrator is 888888/888888; it can be changed the user name and password; after changing, click the "OK" button to confirm and login the webpage again; afterwards it can view the real-time video; similarly, it can be changed the name and password of two default common users, i.e.: 1/1 and 2/2.

[Timing to reboot]: Click "Timing to reboot", setting interface as following .:

IP CAMERA	
	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Note:	 ▼ Time Setting
 Click Save after changing the parameters, to make sure the parameters be saved when device 	▼ Video Format
start up next time. 2. Most of the parameters will	 ▼ User Management ▼ Timing to reboot
of them need to save and reboot first. Attention to the note.	Timing to reboot: Off Reboot time: 1 H 5 M
	▼ Restore to leave factory default parameters
	▼ System update

Enter the Reboot time and click "OK", the network video server will reboot on the assigned time.

[Restore to leave factory default parameters]: Click "Restore to leave factory default parameters", setting interface as following :



IP CAMERA	Real-time Replay Settings
Save Reboot Note: 1. Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Rest Parameters Network Parameters Channels Parameters Alarm Parameters Server storage • Device Name •

Click "Restore to leave factory default parameters", restart the network video server manually to restore the default parameters, except the network parameters and device name (the device name will not be restored).

[System update]: Click "System update", setting interface as following :

IP CAMERA	
	Real-time Replay Settings
Save Reboot Note: 1 Click Save after charging the	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
parameters, to make sure the parameters be saved when device start up next time. 2. Most of the parameters will	 ▼ Video Format ▼ User Management ▼ Tit is a basis
work after you click OK. Some of them need to save and reboot first. Attention to the note.	 Finning to recoort Restore to leave factory default parameters System update
	Built-in webpage version Webpage Version V07.00.05.01 Webpage Compile Time 2010-03-22 Software Version BSP Version DO6.00.09.02 BSP Compile Time 2010-04-23 Application Version V06.00.09.02 Application Compile Time 2010-04-23 Note: Keep the power supply and network connection no intermittence while updating. If there are abnormal intermittence, it will break

Click "Browse..." button and select the *.itm that for the device,, and then click "OK" button; after updating, the interface will prompt "The program is upgraded successfully, please re-login", and the device will re-start automatically. When updating ,the "OK" button is unavailable status, can read the webpage and the version number of ITM.

4.3.3.2 Network Parameter Setting

[Network parameters]: Click "network parameters" option, setting interface as follows:



IP CAMERA				
	Real-time Replay	Settings		
Save Reboot	Basic parameters Netwo	ork Parameters Channels	Parameters Alarm Parameters	Server storage
Note:	- 11 a	I Deservations		
1. Click Save after changing the	- DD	1 C atameters		
parameters, to make sure the parameters be saved when device	- DDI			
start up next time. 2. Most of the parameters will	- 50 F	parameter		
work after you click OK. Some of them need to save and rehoot	▼ FIP	Parameters		
first. Attention to the note.	₹ UPN			
	▼ Strea	aming Protocol		
IP address & port]: Clie	ck "IP address & po	ort" line, setting	interface as follows:	
IP CAMERA				
	Real-time Replay	Settings		
		<u> </u>		
Save Reboot	Basic parameters Netw	ork Parameters Channels	Parameters Alarm Parameters	Server storage
Note:	▼ IP a	ddress & port		
1. Click Save after changing the	Cor Static IP address	~		
parameters, to make sure the parameters be saved when device	IP address:	192.168.1.199	Gateway: 192.168.1.1	
start up next time. 2 Most of the narameters will	Subnet mask:	255.255.255.0	DNS: 0.0.0.0	
work after you click OK. Some	MAC address:	02-F0-00-00-16-F5		
first. Attention to the note.	WEB port:	80	Data transfer port: 3000	[1-65533]
	Alarm host address:	0.0.0	Alarm host port: 8000	
	Remote host address:	235.1.1.1	Remote host port: 3004	
	Multicast address.	6500	Range:[6000-9999]	
	Note: Any changes of net	work parameters will take effect aft	er saved and system restarted.	
		*		ОК
	- WI	71 Parameters		
	▼ DD	NS		
	▼ 3G	parameter		
	- FTF	P Parameters		
	▼ UP	NP		
	▼ Stre	aming Protocol		

Change the IP address, subnet mask, gateway, web port, Data transfer port remote host address and port, Multicast etc, as well as the web port, UPNP, PPPOE service; after changing, please click "OK" button and click "Save " button on the left and reboot the device.

The optional connection type is PPPOE, setting as follows:



IP CAMERA					
	Real-time Replay	Settings			
Save Reboot	Basic parameters Netw	ork Parameters Channels	Parameters Alar	m Parameters	Server storage
Note:	🔻 IP a	ddress & port			
1. Click Save after changing the	Connection type:	Static IP address 🛛 👻]		
parameters, to make sure the	IP address:	192.168.1.199	Gateway:	192.168.1.1	
start up next time.	Subnet mask:	255.255.255.0	DNS:	0.0.0.0	
Most of the parameters will work after you click OK. Some	MAC address:	02-F0-00-00-16-F5]		
of them need to save and reboot first. Attention to the note.	WEB port:	80	Data transfer port:	3000	[1-65533]
	Alarm host address:	0.0.0.0	Alarm host port:	8000	
	Remote host address:	0.0.0.0	Remote host port:	3004	
	Multicast address:	235.1.1.1	Range:[225.0.0.0-239.	.255.255.255]	
	Multicast port:	6500	Range:[6000-9999]		
	Note: Any changes of net	work parameters will take effect afte	r saved and system restar	rted.	
					ĸ
	▼ WII	71 Parameters			
	▼ DD	NS			
	▼ 3G	parameter			
	▼ FTI	P Parameters			
	▼ UP	NP			
	▼ Stre	aming Protocol			

Enter PPPOE user name and password to dial up. The optional connection type is [DHCP], setting as follows:

IP CAMERA				
	Real-time Replay	Settings		
	_			
Save Reboot	Basic parameters Netw	work Parameters Channe	els Parameters Alarm Parameters	Server storage
Note:	▼ IP :	address & port		
	Connection type:	PPPOE	~	
parameters, to make sure the	PPPOE user name:		PPPOE password:	
parameters be saved when device start up next time.	MAC address:	02-F0-00-00-16-F5		
Most of the parameters will work after you click OK. Some	WEB port:	80	Data transfer port: 3000	[1-65533]
of them need to save and reboot	Alarm host address:	0.0.0.0	Alarm host port: 8000	
HIST. FITTERHOLE TO THE HOTE.	Remote host address:	0.0.0.0	Remote host port: 3004	
	Multicast address:	235.1.1.1	Range: [225.0.0.0-239.255.255.255]	
	Multicast port:	6500	Range:[6000-9999]	
	Note: Any changes of net	twork parameters will take effect	after saved and system restarted.	
				OK
	- WI	FI Parameters		
	▼ DI	ONS		
	▼ 3G	parameter		
	▼ FT	'P Parameters		
	▼ UF	'nP		
	▼ Str	eaming Protocol		

The default DHCP is the Disable Status. After starting DHCP, save the parameters and re-boot, and then connect the network video server and PC to a router with the DHCP function; the router will distribute an IP at the same network segment as the router to the network video server automatically (for instance: the IP address of router is 192.168.0.1; after starting DHCP, the IP address of network video server will be 192.168.0.100).

[WIFI parameters]: Click "WIFI parameters", setting interface as follows:



Save	Basic parameters Network Parameters Channels Parameters	Alarm Parameters Server storage
	▼ IP address & port	
ote:	 WIFI Parameters 	
Click Save after changing the rameters, to make sure the	Wireless Network	ess configuration:
rameters be saved when device	SSID Encryption	1F1: Static Y
Most of the parameters will	IP addres	s: 192.168.0.199
them need to save and reboot	Subnet m	ask: 255.255.255.0
t. Attention to the note.	Gateway	192.168.0.1
	DNS:	0.0.0.0
	Refresh	DNS as Default DNS
	Currently wireless network: launch-ys	
	Input password:	
	Connection status: Disconnected	UK
tic IP: P CAMERA	✓ DDNS Real-time Replay Settings	
P CAMERA	- DDNS Real-time Replay Settings	Alarea Davanastere
ITIC IP: PCAMERA Save Reboot	 → DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters → IP address & port 	Alarm Parameters Server storage
tic IP: P CAMERA Save Reboot		Alarm Parameters Server storage
tic IP: IP CAMERA Save Reboot te: Click Save after changing the	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters ~ IP address & port ~ WIFI Parameters Wireless Network IP address	Alarm Parameters Server storage
tic IP: PCAMERA Save Reboot te: Click Save after changing the araneters, to make sure the araneters be saved when device the reasoned there	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters	Alarm Parameters Server storage
tic IP: PCAMERA Save Reboot te: Click Save after changing the rameters to make sure the rameters be saved when device r up mext time. Most of the parameters will	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters - IP address & port - WIFI Parameters WIFless Network Choose Wireless Network: SID Encryption IP addres	Alarm Parameters Server storage ess configuration:
ttic IP: PCAMERA Bave Reboot Reboot re: Click Save after changing the rameters be saved when device rt up next time. Most of the parameters will wh after you click OK. Some them need to save and reboot	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters - IP address & port - WIFI Parameters Wireless Network Choose Wireless Network: SSID Encryption IP addres Subnet matches	Alarm Parameters Server storage ese configuration: TFI: Static S
tic IP: PCAMERA Save Reboot te: Click Save after changing the rameters be saved when device rt up next time. Most of the parameters will rt after you click OK. Some the after you click OK. Some the mode to save and reboot t. Attention to the note.		Alarm Parameters Server storage ess configuration:
ttic IP: IP CAMERA Save Reboot te: Click Save after changing the rameters be saved when device rt up next time. Most of the parameters will rt after you click OK. Some them need to save and reboot tt. Attention to the note.		Alarm Parameters Server storage ess configuration:
Atic IP: A CAMERA B CAMERA B C Reboot C C C C C C C C C C C C C C C C C C C	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters	Alarm Parameters Server storage ess configuration: Image: 192.168.0.199 sek: 255.255.255.0 : 192.168.0.1 0.0.0 0.0.0
tic IP: PCAMERA Bave Reboot te: Click Save after changing the rameters be saved when devicer rup mext time. Most of the parameters will rk after you click OK. Some them meed to save and reboot t. Attention to the note.	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters - IP address & port - WIFI Parameters Wineless Network: SID Encryption IP addres Subnet ra Gateway DNS: Ummune	Alarm Parameters Server storage ess configuration:
ttic IP: DCAMERA But Reboot Save Reboot the Click Save after changing the frameters be saved when device it up next time. Most of the parameters will what after you click OK. Some them need to save and reboot at. Attention to the note.		Alarm Parameters Server storage ess configuration:
ttic IP: DCAMERA Network Save Reboot te: Click Save after changing the rameters be saved when device ar up next time. Most of the parameters will rk after you click OK. Some them need to save and reboot st. Attention to the note.		Alarm Parameters Server storage ess configuration:
ttic IP: PCAMERA Save Teboot Te Charles are after changing the rameters, to make sure the rameters be saved when device r up next time. Most of the parameters will what for you click OK. Some them need to save and reboot t. Attention to the note.	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters - IP address & port - WIPI Parameters Wireless Network Choose Wireless Network: SID Encryption IP address Subnet ra Gateway DNS:	Alarm Parameters Server storage ess configuration:
Atic IP: (PCAMERA) New Reboot The Rebot	DDNS Real-time Replay Settings Basic parameters Network Parameters Channels Parameters UIPI Parameters Wireless Network: SID Encryption IP addres Subnet ra Gateway DNS: Refresh Currently wireless network: launch-ys Input password: encryption	Alarm Parameters Server storage ese configuration:

Enable WIFI, select network type

Setting default gateway: check

Wireless SSID: enter SSID of the wireless route

Input password: Enter the encryption key

Test the wireless network: click "refresh" button to search wireless network device;

Connection status: it will display the connection status of device (connected/disconnected) IP address: It will display the distributed IP address.

2. PPPOE: Wireless dial-up. Set the username and password for dial-up.

IP CAMERA	
	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Note:	▼ WIFI Parameters
1. Click Save after changing the	Wineless Network
parameters, to make sub the parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Choose Wireless Network: SSID Encryption PPPOE user name: PPPOE password: IP address: 192.168.0.199 Subnet mask: 256.255.255.0 Gateway: 192.168.0.1 DNS: 0.0.0.0
	Refresh Currently wireless network: Input password: Connection status: Disconnected
DHCP: Wireless DH IP CAMERA	
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Note:	✓ WIFI Parameters
 Chick Save after changing the parameters, to make sume the parameters be saved when device start up next time. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note. 	Wireless Network: SSD Encryption Imput password: Input password: Imput password: Impu
	Connection status: Disconnected OK

Search the wireless router that with DHCP function, the router will assigned a wireless IP address at the same network segment as the router to network video server automatically (for instance: the IP address of router is 192.168.0.1; after starting DHCP, the IP address of network video server will be 192.168.0.100).

Note: The network segment of WIFI IP address must be difference from the wired IP address [DDNS]: Click "DDNS", interface as follows.:



IP CAMERA	
	Real-time Replay Settings
Save	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Note:	✓ WIFI Parameters
 Click Save after changing the parameters, to make sure the 	▼ DDNS
parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Start DDNS:
	▼ 3G parameter
	▼ FTP Parameters
	 ▼ UPNP ▼ Streaming Protocol

Enabled "start DDNS", select DDNS supplier, enter DDNS username and password, domain name, DDNS server address and port, and set the Web mapping port and update interval, and then click "OK" button. Enter the domain name in the web browser; if it can access to the device, it means the domain name is setted successfully.

[3G parameter]: Click "3G parameter", setting interface as follows.:

IP CAMERA		
	Real-time Replay Settings	
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Serve	r storage
	▼ IP address & port	
Note:	▼ WIFI Parameters	
 Click Save after changing the parameters, to make sure the 	▼ DDNS	
parameters be saved when device start up next time.	▼ 3G parameter	
 Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note. 	Connection type: Off ♥ User Name: Card Password: ●●●● Dial-up number: #777 3G status: Disconnected IP address: 0.0.0	
	▼ FTP Parameters	
	▼ UPNP	
	▼ Streaming Protocol	

Start 3G, it will display the connection status as "Connected" , and the IP address, **WCDMA Description:**

I. Online mode of equipment

1. Set "Keeping Online", See the following Figure, i.e.:



Link Mode:	WCDMA	 Tel Numbers: 	*99#
Username:		Password:	
APN Name:	3GNET	Authencation Type:	Auto
LCP echo interval:	10	LCP echo failure:	20
MRU:	1500	MTU:	1500
Connection Mode:	Always Online	▼ Network Select Type:	AUTO
Radio Band Set:	 ✓ GSM 850 ✓ GSM 9 ✓ WCDMA 850 ✓ W 	900 🕏 GSM 1800 🕏 GSM 1900 CDMA 900 🗑 WCDMA 1900 🐼 W	CDMA 2100
Band saving	Enable	 Get dns from operator: 	Enable
Ping Link Detection			
Ping Link Detection:	Disable	✓ Ping IP Address:	192.168.1.1
Ping Interval:(s)	30	Ping Package Length:(Byte)	1024
Ping failure times:(s)	20		

Save and re-boot. 2. Set "Dial-on-demand" mode:

Tinta Mandari	WODMA	T-1 March 199	*00#
Link Mode:	WCDMA	Tel Numbers:	
Username:		Password:	
APN Name:	3GNET	Authencation Type:	Auto
LCP echo interval:	10	LCP echo failure:	20
MRU:	1500	MTU:	1500
Connection Mode:	On demand	▼ Network Select Type:	AUTO
Radio Band Set:	🔽 GSM 850 👿 GSM	I 900 🗹 GSM 1800 📝 GSM 1900	
	WCDMA 850 🔽 🗸	WCDMA 900 🗹 WCDMA 1900 📝 V	VCDMA 2100
Band saving	Enable	 Get dns from operator: 	Enable
Ping Link Detection			
Ping Link Detection:	Disable	 Ping IP Address: 	192.168.1.1
Ping Interval:(s)	30	Ping Package Length:(Byte)	1024
Ping failure times:(s)	20		

- 1) Set the address for remote host;
- 2) Set Ping Link Detection shown by Figure 2 and set Ping IP address; It can realize the dial-on-demand through the two methods said above.
 3. Set "Manual-dial-up" mode



Link Mode:	WCDMA	✓ Tel Numbers:	*99#
Username:		Password:	
APN Name:	3GNET	Authencation Type:	Auto
LCP echo interval:	10	LCP echo failure:	20
MRU:	1500	MTU:	1500
Connection Mode:	Manual	▼ Network Select Type:	AUTO
Radio Band Set:	☑ GSM 850 ☑ GSM ☑ WCDMA 850 ☑ V	900 🗹 GSM 1800 🔍 GSM 1900 VCDMA 900 🔍 WCDMA 1900 🔍 W	CDMA 2100
Band saving	Enable	▼ Get dns from operator:	Disable
Primary DNS Address:	61.139.2.69	Secondary DNS address:	61.139.2.69
Ping Link Detection			
Ping Link Detection:	Disable	 Ping IP Address: 	192.168.1.1
Ping Interval:(s)	30	Ping Package Length:(Byte)	1024
Ping failure times:(s)	20		

Save and re-boot; and then access to "Dial up settings" interface, click "Apply" to realize the manual dialing (for manual dialing, it does not set the parameter options for LCP echo interval and LCP echo failure; such parameters have no business with the manual dialing).

II. Set the address for forwarding server

	▼ IP address	& port				
	Connection type:	Static IP address	•			
	IP address:	192.168.2.115	Gateway:	192.168.2.1		1
	Subnet mask:	255.255.255.0	DNS:	0.0.0.0		1
	MAC address:	02-F0-00-00-01-D3	7			
	WEB port:	80	Data transfer port:	3000		11-655331
	Alarm host address:	0.0.0.0	Alarm host port:	8000]
	Remote host address:	202.98.133.120	Remote host port:	3004		1
	Multicast address:	235.1.1.1	Range:[225.0.0.0-239.2	55.255.255]		Í.
	Multicast port:	6500	Range:[6000-9999]			
	Note: Any changes of netv	vork parameters will take effect aft	er saved and system restart	ed.		
					Apply	Cancel
Save a	nd re-boot; see t	he Figure as follows	S:			
	,	▼ 3G network				
	3G Status:	Connected	3G IP:	172.17.239.221	7	7
	Subnet Mask:	255. 255. 255. 255	Default Gateway:	10.64.64.64		
	Primary DNS Address:	10. 11. 12. 13	Secondary DNS address	10.11.12.14]
					(App. 1.r.)	Concol
Common	at u vithe the a limit wave				Abbia	Cancer
Connec	st with the intran	et address of the fol	warding server:			



Server IP:	wcdma01
Server Addr:	116. 7. 77. 241
Server Port:	3000
Vse DDNS:	
Vsername:	1
Password:	*
The name of sen	sor1 💙 sensor1

The client-terminal software is available to view image immediately.

III. Access method of external network

- 1. After making the device online, enter 3G IP in the address bar to access;
- 2. Access through the dynamic domain name, See the following Figure:

DDNS supplier:	CamAnyWhere	 Domain name: 	5201.51ddns.com
DDNS user name:	yangph	DDNS password:	•••••
DDNS server address:	119.145.0.163	DDNS server port:	80
WEB mapping port:	80	Update interval(S):	30

IV. Other options description

1. Authentication Methods

In the "Dial up settings" interface, it can choose the Authentication Methods from "Auto, PAP and CHAP".

2.Ping Link Detection:

Set in the "Dial up setting" interface; its purpose is to let the equipment perform Ping command as the given time and frequency.

3. 3G network interface:

	 3G network 				
3G Status:	Connected	3G IP:	172.19.45.130		
Subnet Mask:	255.255.255.255	Default Gateway:	10.112.112.112		
Primary DNS Address:	202.106.195.68	Secondary DNS address:	202.106.46.151		
				Apply	Cancel
Used to view the curre	nt 3G status.				

4. Dial log:



Jsing interface ppp0	
ocal IP address 10.64.64.64	
emote IP address 10.112.112.112	=
tarting link	
Beginning	
)ialing up*99#	
.ogging	
erial connection established.	
sing channel 1	
Connect: ppp0 <> /dev/usb/tts/0	
Marning - secret file /etc/ppp/pap-secrets has world and/or group	
ICCESS	
ent [LCP ConfReq id=0x1 <asyncmap 0x0=""> <magic 0x941d085a=""> <pcomp></pcomp></magic></asyncmap>	
(accomp>]	
cvd [LCP ConfReq id=0x0 <asyncmap 0x0=""> <auth chap="" md5=""> <magic< td=""><td>w.</td></magic<></auth></asyncmap>	w.

Used to view the 3G connection log after re-booting.

5.3	G status:	
		▼ 3G status
	Operator:	CHN-CUGSM
	Current Network:	HSDPA&HSUPA
	Signal Strength:	22
	IMEI	357030021690199
	SIM state:	USIM available
Llood to	viou the e	Apply Cancel
	view trie cu	JITERI SG HELWORK SIALUS.
0.61	IN COUE:	T DIV Code
		* FILV CODE
	PIN protection:	Disable -
	PIN code: 1	1234
		Apply Cancel
The fund	ction is the	same as the PIN function of mobile phone.
7.SI	MS settings	S:
	5	▼ SMS Settings
	Dave:	2 [1.28]
	Call Phone Number	5 [1-20]
	Contont:	10884000180
	Content:	123
	SIMS center numbe	#: +8613010112500
	Send ip addres	ss via SMS when 3G dial up successfully conneted.
		Test Apply Cancel
Llood to	sot phono r	number and content for short message, and if it will use the short mess

Used to set phone number and content for short message, and if it will use the short message to inform when equipment is online.

[FTP parameters]: Click "FTP parameters", setting interface as follows:



	Real-time R	play	Settings				
Save	Basic parameter	s Netw	ork Parameters	Channels F	arameters	Alarm Parameters	Server storage
		▼ IP a	ddress & port				
Note:		▼ WIF	'I Parameters				
 Click Save after changing the parameters, to make sure the 		▼ DDI	NS				
parameters be saved when device start up next time.		🔻 3G j	parameter				
2. Most of the parameters will work after you click OK. Some		🔻 FTF	Parameters				
of them need to save and reboot first. Attention to the note.	FTP usernar	ue:	888888		FTP password	•••••	
	FTP host IP		192.168.1.40		FTP host port:	21	
						(OK
		🔻 UPł	4P				
		▼ Stre	aming Protocol				

Start FTP, finish these settings

Upload snapshot and record to FTP when alarming, or upload timing snapshot to FTP

[UPNP]: Click "UPNP parameter", setting interface as follows:

IP CAMERA	Real-time Replay	Settings				
Save Reboot	Basic parameters Netwo	ork Parameters	Channels Para	ameters	Alarm Parame	eters Server storage
Note:	▼ IP a	ldress & port				
1 Click Sum (Burnhammerth)	▼ WIF	I Parameters				
parameters, to make sure the	▼ DDI	4S				
parameters be saved when device start up next time.	▼ 3G I	parameter				
2. Most of the parameters will	▼ FTP	Parameters				
of them need to save and reboot first. Attention to the note.	▼ UPh	IP				
	UPNP:	On	~			
	UPNP data					
	External IP Address:	0.0.0.0				
	Web port:	80	External port:	0	State:	Unmapped
	RTSP port:	554	External port:	0	State:	Unmapped
	Data transfer port:	3000	External port:	0	State:	Unmapped
	Data control port:	3001	External port:	0	State:	Unmapped
	Remote transfer port:	3002	External port:	0	State:	Unmapped
	Data control port=Data tr Remote transfer port=Dat Note: If the gateway route of the router is ON,and th used. If there are more tha avoid the port conflict.	ansfer port+1 a transfer port+2 ir don't support UP1 e state of the port ab n one device connect	IP, or UPNP is OFF ove is still OFF, ple to the same gateway	, the port wi ase check the 7, the port of	ll not be able to map router settings if th 'each device should:	pping. If the UPNP ie port have been n't be the same to
						ОК

Connect the device with the router that with UPNP function, the WEB port, Data transfer port,RTSP port, Data control port and remote transfer port will be mapped, and the status will display "Mapping".

[Streaming protocol]: Click "RTSP", setting interface as follows:



	Real-time Rep	ay Settings			
Save Reboot	Basic parameters	Network Parameters	Channels Parameters	Alarm Parameters	Server storage
Note:		▼ IP address & port			
l . Click Save after changing the parameters, to make sure the		 WITT and deters DDNS 			
parameters be saved when device start up next time.		▼ 3G parameter			
2. Most of the parameters will work after you click OK. Some of them need to save and reboot		▼ FTP Parameters			
first. Attention to the note.		 UPNP Streaming Protocol 			
	RTSP Enable R Listen port:	TSP: 554			
	VLC Enable V Destination a	LC ddress: 192.168.1.1			
	Destination p	1234			

启用 Rtsp: 勾选启用 Rtsp 后, 在你安装的播放器媒体-> 打开网络里输入 "rtsp://192.168.1.19:554/live"播放实时视频。

Enable Rtsp: enable RTSP, you can play the real-time video by entering "rtsp://192.168.1.19:554/live" after opening the network from the player media you have already installed.

启用 VLC:填入目的地址和端口,使用流媒体软件播放实时,历史视频。

Enable VLC: enter the Destination address and port to use the streaming media player play the real-time or historic video.

4.3.3.3 Channels parameters setting

[Channels parameters]: click "Channels Parameters", parameters as follows:

IP CAMERA					
	Real-time Replay	y Settings			
Save Reboot	Basic parameters	Network Parameters	Channels Parameters	Alarm Parameters	Server storage
			$ extsf{ heta}$ Character superposition		
Note:			💌 Video Coding		
 Click Save after changing the parameters, to make sure the 			▼ PTZ Protocol		
parameters be saved when device start up next time			💌 Adjust color		
2. Most of the parameters will work after you glick OK. Some			🔻 Area Shield		
of them need to save and reboot			▼ Audio Parameters		
mst. Attention to the hote.					

[Character superposition]: Click "Character superposition", setting interface as follows:



IP CAMERA	
	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
	 Character superposition
Note:	
 Click Save after changing the 	Channel Name: Channel1
parameters, to make sure the parameters be saved when device	Time type: 2009-4-20 14:55:10 🔽 Location: X= 8 Y= 50
start up next time.	Frame rate: Not indicating 💽 Location: X= 8 Y= 10
2. Most of the parameters will work after you click OK. Some	Character 1: Location: X= 8 Y= 90
of them need to save and reboot first. Attention to the note	Character 2: Location: X= 8 Y= 130
not monor o no noto.	
	▼ Video Coding
	▼ PTZ Protocol
	▼ Adjust color
	▼ Area Shield
	 Audio Doministria

Enter the superimposed characters on the video screen, with two rows available for setting, including the Chinese characters, letter in capital and lower case, figures and special character; set the coordinates position where will display, select time format, set the position for the displayed coordinates; check the displayed code rate and set the coordinates position displayed by the code rate; afterwards click "OK". It can only allow to enter 24 characters and 24 bytes at most.

[Video coding]: Click "Video coding", it will unfold the setting interface as follows:

IP CAMERA	Real-time Replay Settings
Save Reboot Note: 1. Click Save after changing the parameters, to make sure the	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage Character superposition Video Coding Network Transfer Stream
parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	□ Incoming Guide Data Resolution: CIF Resolution: 4CIF(D1) ◆ ○ LAN: High video quality Bite Rate Type: Constant ◆ Bite Rate Type: Constant ◆ ○ LAN: Normal video quality Max. Bite Rate: 200 [32.4000] Max. Bite Rate: 1500 ○ Broad Band: Upstream 2M Quality Upper Limit: 2 2.31] Wax. Bite Rate: 1500 ○ Broad Band: ADSL Quality Lower Limit: 31 2.31] Quality Upper Limit: 2 (Upstream 512) Frame Rate: 18 [1.30] Quality Lower Limit: 31 Note: Please select based on the real environment. The guide dat is adjustable. Stream Type: Video & Audio ♥ Frame Rate: 25 Note: Save and reboot is a must affer change. Key Frame Interval: 100 Stream Type: Video & Audi ♥
	Compression: H.264 OK

Check and load the default value, select one setting value, it will display the image size, code rate, worse quality, frame rate at the right side; or don't check and load the default value; and set the parameters above directly. Set the parameters directly The image size can be D1,2CIF,CIF,QCIF. The network video server can only show the normal image when being connected with the video source of the same resolution and frequency; when fixing the code rate, keep the same average code rate of the image; when fixing the quality, change the average code rate of the image complicacy. H.264 compression code rate range 32-4000Kbps; MJPEG compression optional, the code rate range 1000-16000Kbps. When the code stream format is the compound format (audio/video), the audio and video will be



transferred simultaneously; if the code stream format is the video format, it will only transfer the video, but not the audio. After changing the code stream format, it needs to re-boot the device to activate.

Note: After selecting MJPEG encode, the code rate will be turned to 8000 automatically. (Avoid the Mosaic of low code rate after setting MJPEG)

[PTZ function]: The RS485 interface of device is connected with the high-speed camera with PTZ function. Select "PTZ protocol", it will unfold the setting interface beneath as follows:

IP CAMERA				
	Real-time Replay Settings			
Save Reboot	Basic parameters Network Parame	ters Channels Parameters	Alarm Parameters	Server storage
Note:		▼ Video Coding		
 Click Save after changing the parameters, to make sure the 		▼ PTZ Protocol		
parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	PTZ Address: 1 Baudrate: 2400 Data Bit: 8 Stop Bit: 1 Check Bit: None PTZ Protocol:PELOC-D Update PTZ Protocol: Update PTZ Protocol: Select Protocol(*.ptz)	V V V		ОК
		 Adjust color 		
		🔻 Area Shield		
		 Audio Parameters 		

Select update the PTZ control document, click "Browse..." button to select the PTZ Protocol to upgrade; click "OK" to upgrade the PTZ protocol; set the PTZ address, baud rate, data bit, stop position and check bit of device, and make them conforming with the PTZ. It can copy such settings to all channels or any channels among them (except the PTZ address). Access to "Real-time monitoring" interface to operate the following PTZ function buttons.



Operate the PTZ to move towards up, down, left and right; the ball machine can move as per the operation directions;

Adjust the speed of PTZ; control the rotation of PTZ; the ball machine can turn as per the given speed;

Click "Focus +" or "Focus -" button, it can increase or reduce the focal distance of image; Click "Preset" button, it can set the preset point;

Enter the number of preset point and click "Transfer" button, it can transfer call the preset point;



[Brightness and color adjustment]: Click "Adjust color" line, it will unfold the setting interface as follows:



Set the brightness, contrast, saturation and horizontal offset of image.

Note: The horizontal offset refers to the left-side offset.

[Area shield]: Click "Area shield" line, it will unfold the setting interface as follows:

Select the "Setting Privacy Switch" Area Shield, hold the left mouse, drag the mouse on the preview screen, select the range you want to shield. The maximum range is one quarter of whole screen; it can set 4 Area shields at most; click "OK" button to save. If clearing the Area shield where has been set, click "OK" button.





[Audio parameter]: Select "Audio parameter" option, it will display the audio parameter setting page beneath; when setting the audio parameters, please refer to the above audio frequency and Talkback function.

4.3.3.4 Alarm parameters setting

[Alarm parameters]: Select "Alarm parameters" option, it will display the parameters beneath as follows:

IP CAMERA	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
Neter	 Sensor Detection Schedule Settings
INDIC:	 Motion Detection Area Settings
 Click Save after changing the parameters, to make sure the 	▼ Motion Detection Schedule Settings
parameters be saved when device start up next time	💌 Camera Been Shaded Alarm Trigger Schedule Settings
2. Most of the parameters will	▼ Email Alarm Settings
of them need to save and reboot first. Attention to the note.	

[Sensor Detection Schedule Settings]: Click "Sensor Detection Schedule Settings" line, it will unfold the setting interface beneath as follows:



IP CAMERA	Real-time Replay Settings
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage
 Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. Most of the parameters will work after you click O.K. Some of them need to save and reboot first. Attention to the note. 	Start Sensor Detection: Sensor Name Everyday Start Time OD H M Close Start Time OD H OD M End Time D H OD M Close Start Time OD H OD M End Time OD H OD M Close Start Time OD H OD M End Time OD H OD M OD M End Time OD M OD M End Time OD M OD M Start Time OD H
	OK Motion Detection Area Settings Motion Detection Schedule Settings Camera Been Shaded Alarm Trigger Schedule Settings
	▼ Email Alarm Settings

Under the normal open mode, it need to trigger the alarm (connect the alarm input with the earth);

Under the normal close mode: the network video server will be under the alarm status; after triggering alarm (connect the alarm input with the earth)), the alarm will stop.

Start the Trigger Channel Snapshot, the image will be saved in the fore-end storage device.

[Motion Detection Area Settings]: Click "Motion Detection Area Settings" line, it will unfold the setting interface as follows:



Select the range and sensitivity of detection; the default sensitivity is 86. Note: If the sensitivity is too high, the jump of OSD will trigger the Motion Detection Area

Setting alarm when OSD superposition displays.

Click "Motion Detection Schedule Settings" line; it will unfold the setting interface as follows:

IP CAMERA					
	Real-time Replay	Settings			
Save Reboot Note: 1. Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Basic parameters Netwo	ork Parameters	Channels Parameters	Alarm Parameters Sensor Detection Schedul Motion Detection Area S Motion Detection Schedul M End Time [0]	Server storage ettings ettings ale Settings 0 H 0 M 0 H 0 M 0 H 0 M 0 H 0 M 0 H 0 M 0 H 0 M 0 H 0 M 0 M 0 M 0 M 0 M 0 M 0 M
	Triggering alarm output:				
				🔻 Camera Been Shaded Alar	m Trigger Schedule Settings
				▼ Email Alarm Settings	

Set the time group and alarm linkage, and then click "OK";

Start the Trigger Channel Snapshot and save the image in the Server-end storage. fore-end storage device. Trigger "Upload the alarm snapshot to FTP"; upload the picture to the designated root directory of FTP Server.

[Camera Been Shaded Alarm Trigger Schedule Settings]: Click "Camera Been Shaded Alarm Trigger Schedule Settings" line, it will unfold the setting interface as follows:

IP CAMERA			
	Real-time Replay Settings		
Save Reboot	Basic parameters Network Parameters	Channels Parameters Alarm Parameters Channels Parameters Sensor Detection Schedul	Server storage
Note:		🔻 Motion Detection Area S	ettings
 Click Save after changing the parameters, to make sure the 		 Motion Detection Schedu 	ıle Settings
parameters be saved when device start up next time.		💌 Camera Been Shaded Ala:	rm Trigger Schedule Settings
 Most of the parameters will work after you click OK. Some 	Start camera been shaded detection: 🔲		
of them need to save and reboot	Close 👻 Star	rt Time 00 H 00 M End Time 00 H 00 M	
first. Attention to the note.	Close 🖌 Star	rt Time 00 H 00 M End Time 00 H 00 M	
	Close Star	tt Time 00 H 00 M End Time 00 H 00 M	
	Close Star	rt Time 00 H 00 M End Time 00 H 00 M	
	Close 🗸 Star	rt Time 00 H 00 M End Time 00 H 00 M	
	Close 👻 Star	t Time 00 H 00 M End Time 00 H 00 M	
	Close Star	t Time 00 H 00 M End Time 00 H 00 M	
	I nggering alarm output:		
	Sensionity.	V	
			OK
		🔻 Email Alarm Settings	

Start the "Camera Been Shaded Alarm Trigger Schedule Settings", set the time for shaded detection and the sensitivity (1-5) to make video shielding arrangement; the higher the sensitivity is, the more sensitive it will have.

[Email Alarm Settings]: Click "Email Alarm Settings" line, it will unfold the setting interface as follows:



IP CAMERA	Real-time Replay Settings
Save Reboot Note: 1. Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. 2. Most of the parameters will up the dwarm ang pick OK Save	Basic parameters Network Parameters Channels Parameters Alarm Parameters Server storage Sensor Detection Schedule Settings Motion Detection Area Settings Motion Detection Schedule Settings Camera Been Shaded Alarm Trigger Schedule Settings Email Alarm Settings
work after you clock OK. Some of them need to save and reboot first. Attention to the note.	Send Email if there are alarm: Off Priority: 0 User name: Password:

Firstly, install email server in the LAN, such as CMailServer installation; add the email account.

Even though the Motion Detection Area Settings and sensor alarm does not start the alarm linkage Snapshot, the email box of the recipient will receive alarm email. The email will comprise the email subject and text only (no picture).

4.3.3.5 Server-end storage setting

[Server-end storage]: Click "Server-end storage" option, it will display the parameters as follows:

IP CAMERA	Real-time Replay Settings	
Save Reboot	Basic parameters Network Parameters Channels Parameters A	larm Parameters Server storage
Note -		 Server-end timing to record
11016.		\checkmark FTP scheduled record
 Click Save after changing the parameters, to make sure the 		 Server-end timing to snapshot
parameters be saved when device start up next time.		 Server-end snapshot parameters
2. Most of the parameters will		 Server-end storage device
of them need to save and reboot first. Attention to the note.		

[Server-end timing to record]: Click "Server-end timing to record" line, it will unfold the setting interface as follows:



IP CAMERA				
	Real-time Replay	Settings		
Save Reboot	Basic parameters	Network Parame	ters Channels Parameters	Alarm Parameters Server storage
Note:				 Server-end timing to record
1 Click Save after changing the	Start timing record	ing: 🔽		
parameters, to make sure the	Everyday	~	Start Time 00 H 00 M	End Time 23 H 00 M
start up next time.	Close	~	Start Time 00 H 00 M	End Time 00 H 00 M
 Most of the parameters will work after you click OK. Some 	Close	~	Start Time 00 H 00 M	End Time 00 H 00 M
of them need to save and reboot first. Attention to the note	Close	~	Start Time 00 H 00 M	End Time 00 H 00 M
and. Theorem is the lote.	Close	~	Start Time 00 H 00 M	End Time 00 H 00 M
	Close	~	Start Time 00 H 00 M	End Time 00 H 00 M
	Close	~	Start Time 00 H 00 M	End Time 00 H 00 M
				OK
				▼ FTP scheduled record
				 Server-end timing to snapshot
				 Server-end snapshot parameters
				▼ Server-end storage device

Start the front-end timing video, set the time segment for timing video, and then click "OK" button; the device will start recording pictures on the given time.

[FTP scheduled record]: Click "FTP scheduled record" line, it will unfold the setting interface as follows:

IP CAMERA	Real-time Replay Settings	
Save Reboot	Basic parameters Network Parameters Channels Parameters	Alarm Parameters Server storage Server-end timing to record ETP ackeduled accord
 Click Save after changing the parameters, to make sure the parameters be saved when device start up next time. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note. 	Start FTP scheduled record: Image: Close Start Time 00 H 00 M Close Start Time 00 H 00 M	End Time 00 H 00 M End Time 00 H 00 M
		OK Server-end timing to snapshot
		 Server-end snapshot parameters Server-end storage device

With reference to the FTP parameter setting option said above, set the FTP uploaded server, select the FTP timing video, set the time for timing video, and then click "OK" button; afterwards, the FTP will upload the timing video.

[Server-end timing to snapshot]: Click "Server-end timing to snapshot" line, it will unfold the setting interface as follows:



IP CAMERA						
	Real-time	Replay	Settings			
Save	Basic parame	ters Netwo	ork Paramete	rs Channels Parameters	Alarm Parameters	Server storage
Note:					~	Server-end timing to record
					•	FTP scheduled record
parameters, to make sure the					•	Server-end timing to snapshot
start up next time. 2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.	Snapshu Start tii Close Close Close Close Close Close	ot time interval:		800 s[10-3600] FTP upload after snapshot: Start Time 00 H 00 M Start Time 00 H 00 M	End Time 00 H 00 M End Time 00 H 00 M	4 4 4 4 4 4 4 5 5 erver-end snapshot parameters Server end stores device

Select the timing Snapshot, and set the time interval for Snapshot within the given time period. The network video server will make Snapshot and save it in the Server-end storage with the setting time interval. If "Snapshot FTP Upload" is triggered, the Snapshot picture will be uploaded to the local root directory of FTP Server.

[Server-end snapshot parameters]: Click "Server-end snapshot parameters" line, it will unfold the setting interface as follows:

IP CAMERA		
	Real-time Replay Settings	
Save Reboot	Basic parameters Network Parameters Channels Parameters Alarm Param	neters Server storage
Notes		imes Server-end timing to record
Note:		- FTP scheduled record
 Click Save after changing the parameters, to make sure the 		 Server-end timing to snapshot
parameters be saved when device start up next time.		 Server-end snapshot parameters
 Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note. 	Snapshot image quality: 90 [1-100] Snapshot image format: 4CIF(D1) •	
		OK
		 Server-end storage device

Set the quality for JPEG Snapshot image; , the default format for the Snapshot image is D1. The pictures in the Server-end storage and FTP snapshot setting like the method. The snapshot picture don't display bit-rate.

[Server-end storage device]: Examine the information of the front-end SD card, see the following Figure:



IP CAMERA	Real-time	Replay	Settings					
Save Reboot	Basic parame	ters Nets	work Parameters	Chan	nels Parameters	Alarm Parame	ters	Server storage
							🔻 Se	rver-end timing to record
Note:							▼ F1	CP scheduled record
 Click Save after changing the parameters, to make sure the 							▼ Se	rver-end timing to snapshot
parameters be saved when device start up next time							🔻 Se	rver-end snapshot parameters
2. Most of the parameters will work after you click OK. Some of them need to save and reboot first. Attention to the note.							▼ Se	rver-end storage device
	Disk No		Disk	ype	Total capacity	Free capacity	Form	at
	No remo	te storage devic	el					
							Ref	resh

Click "Format", it will pop up a hint; click "OK" button, it will start formatting. Please reboot the system after successfully format. By refreshing the webpage, it can examine the free space.

Note: The file system is EXT3. If using the software



••• explore2fs.exe

and card reader independently, it can download file. Double click "explore2fs.exe", it will display the SD Card File Folder List at the left side of the software and the Snapshot picture and video file at the right side. The video file will be played by RealMp4Player.

5. FQA

5.1 It can not access to the Network Video Server through the Internet Explore

- Possible reason: The network is jammed;
- Solution: Connect the PC to the network to test if the network works normally; firstly it should remove the cable problem, and then the network problem caused by PC virus. Until you can successfully finish the Ping connection between the PC and NVS.
- Possible reason: IP address is occupied by other devices?
- Solution: Disconnect the network video server and the network; connect the network video server and PC independently; re-set the IP address as per the appropriate recommendations.
- Possible reason: IP address is located in the different subnets?
- Solution: Check the IP address of the network video server, the address of subnet mask and the setting of gateway.
- Possible reason: Unknown
- Solution: Press the Reset button at the rear of the network video sensor to restore to the factory defaults.

5.2 Pan / tilt or dome camera is out of control

- Possible reason: the PTZ, baud rate, address and the PTZ protocol, baud rate and address of the PTZ or dome camera is different;
- Solution: Access to the setting interface to change the PTZ protocol, baud rate and address into the using PTZ.



- Possible reason: the signal cable is not connected properly;
- Solution: Re-connect the control cable between the PTZ or dome camera and the network video server.

5.3 It can not play the video normally after the program upgrades

Solution: Close all webpage; seek NetClient.dll, NetViewX.cab, NetViewX.ocx file from the system directory and delete them, and then use the Internet Explore to connect the NVS, and the NVS will show the new display plug-in component automatically.

5.4 How to transfer video on the Internet through the NVS

If trying to transfer data on the Internet through the NVS, it should know the network connection mode firstly. If it is the internet static IP address, it can directly set the IP address of the NVS, subnet mask and gateway into the static address provided by ISP, and then it can Internet Explore normally. Additionally, the network that is used widely, i.e.: ADSL and Residential Broadband, such two connection methods are required to make certification process. The certification can be finished by using some intelligent devices, such as PC or small router. If it is in a LAN, it will have a IP address for the Internet, so the external network will have no way to view the inside of the network; under such circumstances, it needs to make certain setting on the NVS.

Solution

1) If using for the LAN of office or building, and trying to access to the NVS in another city, it can use the device that is connected with the Internet to forward, i.e.: it can use the Port Mapping Method to finish the forward of information package. Some popular port mapping software will be available for use after making a simple setting, for instance: Portmap, portunnel. Select all IP among the IP addresses to be accessed to, and then fill the address of the NVS insider the LAN in the IP address bar at the rear end.

2) If there is no PC and it selects the router as the device for forward, this is also workable. Most of the routers have the port mapping function, which is called also DMZ. Designate DMZ address as the address of the NVS.

3) Set a VPN server as the server for a virtual exclusive network, and then dial up at the remote client terminal; after connecting, it can access to the internal host.

5.5 Why the normal data could not go through the exchanger

- Possible reason:
 - 1. If it is a second-tier switch, does it make the address wrong?
 - 2. If it is a three-tier switch, does it make the port and physical address binding?
 - 3. Does it consider the NVS when setting the firewall rule?
- Solution:

1) Before finding the network failure, please use Ping command under the command line mode to connect the address of the other party. After viewing ping, the information returned is a very important link. If there is no information returned, it means the network is in problem certainly.

2) If binding IP and Mac address, it will need to make some setting inside the exchanger, i.e.: add a new binding; that is to say, bind the IP address of the NVS and Mac address.

3) If no NVS is considered when setting firewall rule for the exchanger, it is necessary to allow the NVS make communications at the port of 3000, 3001, 3002, 3004 and 80. Otherwise all data package will be filtered and fail to reach.



5.6 Why it goes wrong when visiting the NVS through Internet Explore after upgrading

Delete the cache of Internet Explore. You can follow this steps to realize this operation, i.e.: select "Tool menu" — "Internet option", click "Delete file" button on the 2nd item (Temporary Internet file); check the option of "Delete All Off-line Content", and then click "OK". Afterwards, re-access to the NVS.



6.Appendix

Appendix A: Explanation for Port In Use (mapping) of NVS

When transferring video, the NVS will occupy the following ports as the defaults, i.e.:

80----- Web Port

3000----- Data Transfer Start Port

3001----- Data Control Port

When accessing to the NVS through the public internet, it must make port mapping operation on such three ports.

If there are multiple NVS under an IP address output, it must change the corresponding port of sensor as per the demand, such as Web port, Data transfer start port and data control port.

Appendix B Factory Default Parameters

• Factory Default Network Parameters

Parameter	Default Value
IP address	192.168.1.19
Subnet mask	255.255.255.0
Gateway	192.168.1.1
Transfer start port	3000
Data control port	3001
Remote replay port	3002
Web port	80
Multicast address	235.1.1.1
Multicast port	6500
DDNS	Close
Motion detection	Close
Probe alarm	Close
PPPOE	Disconnected
Remote host port	3004
Alarm host port	8000
DNS server port	8080

• User & password

Parameter	Default Value
Factory default admin username	888888
Password	88888
Factory default common user 1 username	1
Password	1
Factory default common user 2 username	2
Password	2

The common user can not make parameter setting after login.

7. Interpretation of terms

1. Dual-stream

The dual-stream uses one-way code stream with high code rate for the local high resolution storage, for instance: QCIF/CIF/2CIF/DCIF/4CIF number, and one-way code stream with low code rate for network transfer, such as QCIF/CIF number; meanwhile it covers the local storage and remote network transfer. The dual-stream can realize two different bandwidth code stream demand, i.e.: the local transfer and the remote transfer. The local transfer uses the high code stream to save high resolution video, whereas the remote transfer uses the low code stream to adapt to the higher image fluency obtained by CDMA/ADSL and other interwork.

2. I frame

I frame is the one to compress and transfer infra-frame coding image of volumes of data by removing the redundant information of image space; it is called also the key frame.

3. B frame

B frame is the one to compress and transfer encoded image of volumes of data by considering the encoded frame before the source image sequence and the time redundancy information between the encoded frames behind the source image sequence; it is called also the dual-way predicated frame.

4. P frame

P frame is the one to compress and transfer encoded image of volumes of data by reducing the time redundancy information of the encoded frame before the image sequence; it is called also the predicated frame.

5. BBP frame

BBP frame is the video frame; it is mainly encoded as per the I BBP BBP BBP... frame structure; there are two B frame before each P frame.

6. Transparent channel

The transparent channel is a technology to send the analyzed IP data message to the serial ports, acting to extend the control distance of serial equipment and use the IP network to control multiple serial equipments. For users, it will only focus on point-to-point transfer, but not the network transfer process; therefore it is called the serial transparent channel.

7. DHCP

DHCP is the abbreviation of Dynamic Host Configuration Protocol; its former was BOOTP. BOOTP was originally used for the network without disc host; the network host uses BOOT ROM to start and connect with the network, but not the disc; whereas BOOTP can set TCP/IP environment for the host. Actually it comprises two parts, i.e.: server terminal and client terminal. All IP network setting data are controlled centrally by DHCP server, and the DHCP server is responsible for dealing with DHCP requirement of client terminal; however, the client terminal will use the IP environmental data configured by the server.

8. PPPOE

pppoe is the abbreviation of point-to-point protocol over Ethernet; it can make the host of the Ethernet connect with a far-end access concentrator through a simple bridging device. Through the pppoe protocol, the far-end access concentrator can realize the control and charging on each accessed user. Comparing with the traditional connection mode, pppoe has the better cost performance, and has been used widely in the network construction of residential community and other application fields. Currently the popular bandwidth connection mode is ADSL, which is the one that uses the pppoe protocol.

9.DDNS

DDNS is the abbreviation of Dynamic Domain Name Server. Based on DDNS, the dynamic IP address of user will be mapped to a fixed domain name resolution service; every time when user connects the network, the client-terminal program will transfer the dynamic IP address of the host to the server program of the host of the service provider through the information transfer way; the service provider program will provide the DNS service and realize dynamic domain name resolution. That is to say, DDNS will capture the IP address that is changed by user, and then make it correspond to the given domain name; if so the other online users will be available to make communication through the domain name.

10.FTP

FTP is the abbreviation of File Transfer Protocol, used for making dual-way transfer on the control file through Internet. Meanwhile, FTP is an application program, and user can connect its own PC with all servers that use FTP protocol all over the world to access to the program and information on the server.

The main function of FTP is to make a user connect with a remote computer (such computer must use FTP server program) to view the files saved in the remote computer, and then copy such file to the local computer, or send the file in the local computer to the remote computer. **11.UPNP**

UPnP (Universal Plug and Play) is the general name of a set of protocols; it can not be deemed as the UPnP= "automatic port mapping. When downloading through Bitcomet, UpnP comprises two aspects, i.e.:

1. For an Intranet computer, the UPnP function of BitComet can let the NAT module of gateway or router make automatic port mapping, and map the port to be monitored by BitComet to the Intranet computer through the gateway or router;

2. The network firewall module of gateway or router will open the port for the other computers on the Internet.

UPNP is the abbreviation of Universal Plug and Play, i.e.: the Universal Plug and Play Protocol. It is actually a structure to realize peer-to-peer network connection for computer and intelligent electrical appliances, whereas the intranet address and the network address is changed based on this protocol. Therefore, as long as our router support UPnP and we use the XP operating system that supports the protocol, we can improve the point-to-point transfer speed accordingly.

Access to the setting interface of router; if your router supports UPnP, you will see UPnP setting option beneath the Forwarding Rules Option card (it will be different if the router is different). For this option, we select "Enable UPnP", and then we re-start the router. Just like this, we finish setting the router.

12.RTSP

RTSP (Real Time Streaming Protocol) is an Application layer protocol among the TCP/IP protocol system; it is an IETF RFC standard submitted by Columbia University, Netscape and Real Networks Corporate. This protocol defines how the one-to-many application program may forward the multimedia data through IP network, The system structure of RTSP is higher than RTP and RTCP, using TCP or RTP to finish data transfer. Comparing with the HTTP and RTSP, the HTTP transfers HTML, but RTP transfers the multimedia data. The HTTP request is sent by the client host, and the server will respond; when using the RTSP, the client host and server may send request, i.e.: RTSP is of dual-way.

RTSP is the multimedia serial protocol to control voice or image, and the Multicast is allowed simultaneously; when transferring, the network communication protocol is out the defined range, therefore it can select TCP or UDP to transfer the serial content at the server terminal. RTSP has the grammar and operation flow similar to HTTP 1.1, but it does not emphasize the time synchronization, so it can tolerate the network delay. However, the Multicast said above, can not only reduce the network flow at the server terminal, but also support Video Conference between multiple parties.

13. VLC

VLC multimedia player (named as VideoLan client terminal initially) is a multimedia player of Video Lan plan; it supports multiple audio and video encoders and file formats, and supports DVD, VCD and other streaming protocols. Meanwhile, it can also be used as the streaming server for unicast or multicast to use for IPv4 or IPv 6 high speed network connection. VLC is integrated with encoder planned by FFmpeg and libdvdcss pool, which makes it available the function to play multimedia file and encrypted DVD.

14. NTP

Network Time Protocol (NTP) is a protocol to make the time of computer synchronize; it can make the computer synchronize the server or clock source (for instance: quartz clock, GPS and so on); it can provide high accuracy time correction (with the difference less than 1ms between LAN and the standard, and less than dozens of millisecond for WAN), and it can choose the encryption confirmation method to prevent evil protocol attack.

15. 3G

3G Digit Content College co-works with the Information Industry Department to declare that, the 3rd General Mobile Communication Technology is the cell mobile communication technology supports high speed data transfer. The 3G service can transfer voice (call) and data information (email, instant message and so on) simultaneously; its typical feature is the one to provide high speed data service.

3G is the abbreviation of the Third Generation, referring to the 3rd-general mobile communication technology. Comparing with the 1st-general analogue mobile phone and the 2nd-general digital mobile phone (such as GSM and CDMA), the 3G mobile phone is the new generation of mobile communication system to integrate the wireless communication and international internet and other multimedia communications.

16. WIFI

Wi-Fi is a technology to connect the personal computer, hand-held equipment (i.e.: PDA, mobile phone) and other terminals in the wireless method.

In fact, Wi-Fi, is the another name of IEEE 802.11b, an industrial term to be published by Wireless Ethernet Compatibility Alliance (WECA), meaning the Wireless Fidelity in Chinese. It is a kind of short-distance wireless transfer technology, supporting the internet-based wireless signal within

hundreds of feet. As the technology develops and the standard promulgates, such as the IEEE802.11a and IEEE802.11g and others, the IEEE 802.11 has been collectively called as the Wi-Fi. In view of the application layer, user is required to be available the user-terminal device covering Wi-Fi firstly if intending to use Wi-Fi.

Thank you to use our NVS. However since the difference of models and other differences caused by the system software upgrade, as well as the appearance and function difference between the real product and the User's Manual, please contact us immediately. We feel sorry for our change which may not be informed of you timely.