Network Video Server / IP Camera

User Manual

V3.0.2

2011-01-13

Preface

Thank you for choosing our product.

Instructions:

- > The manual will show all of our IP camera operations and performances in details
- > IP Camera mentioned in the manual refers to network camera
- > **DVS** as mentioned in the manual refers to network video server
- The manual takes the IP address of 192.168.168.72 as example to describe the setting of network parameters
- Before using DVS/IP Camera, please read this User Manual carefully and follow the instructions for all the steps of installation and application system
- > All contents in bold font should be given a special attention.

Safety notice

This content is designed to ensure that user can use this product correctly, so as to avoid risk or property loss. Please read this operational manual carefully before using this product, and keep the manual properly for future reference.

Precautions are divided into 2 parts: "Warning" and "Notice" as shown below:

Warning: serious injury may be resulted when the warning item is ignored.

Notice: property loss may be resulted when the notice item is ignored.



- 1. Please use the power supply with safety low voltage requirement and conforming to rated 12V DC supply of limited power source.
- 2. If the device do not work properly, please contact the company where the device was bought or to the nearest service center, never dismantle or modify this device in any way (problem resulted from unauthorized modification or repair will not be covered by manufacturer's warranty).
- 3. In order to reduce the risk of fire or electric shock, do not service this product under rain or moisture.
- 4. The installation should be carried out by professionals, and conforming to local regulations.



- 1. Before running camera, please check that the power supply voltage is correct.
- 2. Handle this product carefully. Do not drop or cause shocks on to the product.
- 3. Please do not touch the optical parts of the image sensor; if cleaning is necessary, Please use a clean soft moist cloth with alcohol to wipe off dirt.
- 4. Never expose the product to a extremely hot or extremely cold (normal working temperature: -10°C~70°C) or to a strong electromagnetic radiation.
- 5. Never allow water or other elements to reach into the DVS/IP Camera.
- 6. If a **DVS/IP Camera** needs to be returned, please use the original package or equivalent grade of material to pack.

Contents

PREFA	CE	2
1. PR	ODUCT DESCRIPTION	5
1.1.	MAIN FUNCTIONS AND FEATURES	5
1.2.	APPLICATION	6
2. AP	PEARANCE & INSTALLATION	6
2.1.	Running Environment	6
2.2.	DVS/IP CAMERA APPEARANCE AND INTERFACE DEFINITION	
2.3.	Device's connections	8
3. DV	S/IP CAMERA ACCESS	9
3.1	DVS/IP CAMERALOGIN	9
3. 2.	Access DVS/IP Camera through IE	17
4. DV	S/IP CAMERA PARAMETERS SETTING	24
4.1.	CHANNELS SETTINGS	
4.2.	COLOR SETTING	
4.3.	OSD Setting	
4.4.	NETWORK SETTING	
4.5.	COMM SETTING	
4.6.	PROBE WARNING SETTING	
4.7.	VIDEO MOTION WARNING	
4.8.	VIDEO LOSS WARNING	
4.9.	WARNING OUTPUT SETTING	
4.10.	PPPOE&DDNS SETTINGS	
4.11.	LOCAL SETTING	
4.12.	ALARM MESSAGE	40
4.13.	MOBILE DISK VIDEO RECORDING	41
4.14.	FTP UPLOAD SETTING	
4.15.	Email Upload Setting	43
4.16.	CENTER ACCESS CONFIGURATION	45
4.17.	WIFI SETTING	46
4.18.	UPNP SETTING	48
4.19.	System Setup	49
4.20.	USER RIGHTS SETTING	
APPEN	DIX I OPERATING INSTRUCTION OF DDNS	53
APPEN	DIX II ALARM INPUT, OUTPUT DEVICE CONNECTION	61
APPEN	DIX III DEFAULT PARAMETERS	64
APPEN	DIX IIII ANSWER OF COMMON FAILURES	64

1. Product Description

This DVS/IP Series, has a embedded real-time tasks operation system (RTOS) and embedded processor, compared to PC platform, this product have a highly efficient system operation; its codes are stored in FLASH memory that improves the stability and reliability of the system. This DVS/IP Camera has a advanced H264 compression technology to compress the video signals and transmit the data through network. Remotely, users can access to a real-time video and voice view. In addition, there are other functions e.g. streaming protocols (RTP/RTCP, RTSP), IE browser compatibility, support two-way voice communication, multi language software, etc.

1.1. Main Functions and Features

Main Functions and Features

- ▶ H264 compression, high compression rate;
- Support multi-users online access; support C/S mode; DVS/IP Camera is built in video server that offers convenient access in B/S mode for users;
- > Multilevel management in user rights to guarantee the safety for system;
- Support a RS-485 port; can support a third-party PTZ equipment or other serial equipment; support transparent transmission and our special function of analogue matrix;
- Powerful functions in alarm management and case dealing, including the functions to deal with emergency e.g. video loss, video mobile warning, probe input, probe output, warning linkage, warning automatic connection, warning log, etc.; 1-channel binary trigger alarm input, 1-channel probe alarm output; may access to more warning equipment through serial port, e.g. alarm host, door access control system, etc.

Functions of Compression process

- IP Camera supports 1-channel audio signal, and can compress the high resolution image at 25fps; adopt H264 compression standards; support two modes e.g. fixed quality and fixed stream to conduct stream control; during setting the quality of video image, it also limit the compression stream of fixed-video image simultaneously;
- Support three bit streams, main bit stream, sum bit stream and cell phone bit stream;
- ➢ Support OSD,
- Supports video masks.

Network functions

- ➢ Supports10M/100M Ethernet port;
- Support TCP/IP protocol; real-time video and audio, supports network alarm, Records files on remote location.
- PTZ Controls,
- > Remote update and maintenance via network;
- Support network transparent channel connection via RS-485.

1.2. Application Fields

Applicable to all kinds of environments that need network remote monitoring, e.g.:

- Network Monitoring for ATM, banking counter, supermarket, factory, etc.;
- > Offer remote monitoring service for nursery, kindergarten, school, etc.;
- Smart door access system;
- > Property management in smart building or smart estate
- > Unattended monitoring system at electric plant or station, telecom substation, etc.
- Monitoring management system for outdoor equipment;
- Monitoring system for the traffic situations at bridge, tunnel, crossroad, etc.;
- > Monitoring and supervision for production lines or warehouse;
- ➤ 24-hour Supervision to the traffic on roads;
- Remote monitoring system for forest, water resource, rivers, etc.
- Miscellaneous applications.

2. Appearance & Installation

2.1. Running Environment

DVS/IP Camera working environment is defined as below:

Minimum configuration of hardware:

CPU: Pentium 2.0 GHz Memory: 512MB Display card: TNT2 Sound card: required for voice monitoring, and two way communication. Hard disk: more than 40GB HDD

Recommended configuration of hardware:

CPU: Inter® Core[™]2 Duo 2.1GMhz and Higher. Memory: 2048MB above

Display card: NVIDIA GEFORCE G105M above

Operating System

32/64 bit simplified Chinese/English Windows2000/XP/2003/VISTA/WIN7 operating system.

Software environment

IE6.0 or above versions; DirectX9.0 or above versions; TCP/IP network protocol; Please Read carefully these following Instructions:

- 1. When opening the package, please check carefully the Packing List, see if all items are there.
- 2. Read the Manual Carefully before installation;
- 3. Turn off the Power while installing the IP Camera.
- 4. Check the power voltage to prevent any damage to the equipment;

2. 2. DVS/IP Camera appearance and interface definition

2. 2. 1. Appearance of complete machine:

1) IP Camera appearance



2. 2. 2. **Panel interface definition:**

1) Definition for the interface of infrared waterproof, spherical network camera panel:



Interface description:

- A. RJ45 socket of standard network
- **B.** Audio input, connecting to active device.
- C. Audio output, connecting to active device.
- **D.** Analog video output interface, standard BNC interface.

E. Reset button, it is used to restore factory default parameters of device, including IP address and

user password.

F. RS485 interface

G. Power supply interface, connecting to 12V DC through voltage stabilizer, please use matching

voltage stabilizer power supply.

H. 1 channel alarm input/output

2.3. Device connection

DVS/IP Camera device connection diagram:





Step I: Connect DVS/IP Camera to network by network cable

Step II: Plug the equipped power adaptor to DVS/IP Camera power socket, then connect with external electricity

Step III: Turn on the computer, connect to front-end DVS/IP Camera, and then conduct software setting

Instructions: Also may connect the DVS/IP Camera with computer directly

3. DVS/IP Camera access

3.1. DVS/IP Camera login

3.1.1. Steps of login

• Step 1: add a IP address to computer so as to access DVS/IP Camera, for example:

192.168.1.99, the detailed operation is as follow:

If you are using Windows 2000/XP operating system

3. After entering the operating system, click [Start] → [Setting] → [Control Panel], open "Network

and Dial-up connections" menu, click the "Local Area Connection" icon of the network card connecting to video server, right click and select "Property", select "Internet Protocol (TCP/IP)" in pop up "General" page, click "Property" to pup up the page as shown below:

Internet Protocol (TCP/IP) Properties 🛛 🛛 🔀								
General								
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.								
O Dbtain an IP address automaticall	y .							
O Use the following IP address: ──								
IP address:	192.168.1.99							
S <u>u</u> bnet mask:	255.255.255.0							
Default gateway: 192.168.1.1								
○ 0 <u>b</u> tain DNS server address autom	atically							
 Use the following DNS server add 	resses:							
Preferred DNS server:								
<u>A</u> lternate DNS server:	· · ·							
Ad <u>v</u> anced								
	OK Cancel							

set up network parameters of computer

Select "Use the following IP address", and fill in IP address **192.168.1.99** (or other IP address in the same network segment not conflicting with **192.168.1.100**), the subnet mask is **255.255.255.0**; the default gateway address is **192.168.1.1**. No other setting is required; click the "OK" of this page and the "OK" of the "Local Area Connection Properties". Wait the system to complete the configuration.

If you are using Windows Vista /Window 7 operating system

3. After entering the operating system, click $[Start] \rightarrow [Control Panel]$, open "Network and Sharing Center" \rightarrow select "Management and Network Connection", click the "Local Area Connection" icon of the network card connecting to DVS/IP Camera, right click and select "Property", select "Internet Protocol version 4 (TCP/IPv4)" in pop up "Local Area Connection Property" page, click "Property" to pup up the page as shown below:

Internet Protocol version 4 (TCP/IPv4) Properties							
General							
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
 <u>O</u>btain an IP address automaticall 	y						
• Use the following IP address:							
IP address:	192.168.1.99						
Sybnet mask:	255 . 255 . 255 . 0						
Default gateway:	192.168.1.1						
Obtain DNS server address autom	natically						
O Use the following DNS server add	Iresses:						
Preferred DNS server:							
Alternate DNS server:	· · ·						
Ad <u>v</u> anced							
	OK Cancel						

Setup network parameters of computer

Select "Use the following IP address", and fill in IP address **192.168.1.99** (or other IP address in the same network segment not conflicting with **192.168.1.100**), the subnet mask is **255.255.255.0**; the default gateway address is **192.168.1.1**. No other setting is required; click the "OK" of this page and the "OK" of the "Local Area Connection Properties". Wait the system to complete the configuration.

◆ Step 2: Log in client side, in Windows operating system, click "Start" → "Program" → "Digital Video Management Center" menu, click "NVClient" to pop up user login interface, then type user name, password (an administrator user must be established when NVClient is used for the first time), press "OK" to enter the main interface.



Click $\llbracket \text{Local Settings}
floor$ on menu bar to pop up local setting diagram

× Local Setup Local Log View Setup Ex Stream Matrix Virtual Matrix Common Setup Video Switch On Group Local Picture View On Time Record Service Local Record Disk: User And Password Local User(<u>U</u>): Disk %Free Free Total /:0 😑 🔽 82.54% 41267.28M 49999.14M UserName Power 🗹 🖃 D:V 7.58% 6064.28M 80003.35M Admin yuping 🔽 🖃 E: V 64.79% 51834.36M 80003.35M guest Operator 🔽 🖃 F: V 72.05% 20503.95M 28458.86M To change the password for <Admin>, click Set Password. Set Password(P) 📃 Enable Snapshot. (5-600)Second/Pic Environment Server Manage 30 Enable Prestore Record Server Name IP/DNS Port Device Type 🔽 Enable Auto Reconnect 192.168.1.00 192.168.1.00 8200 NetVideo Server 10 🔽 Enable Sound Alarm s 📃 Enable Auto Logon Client Record Size: 30 💿 MaxTime Minute 100 🔘 MaxSize M Bytes 2048 Add Search Delete Modify Keep Free Space M Bytes ΟK Cancel Apply

Network Video Server/IP Camera User Manual

The method of adding DVS/IP Camera in local LAN is as follow:

Click [Search] button to pop up the setting box as follow

Vame	Address	Port	Туре	Channel Count
letwork Video Server	192.168.1.100	8200	NetVideo Server	4

Step 1: select the device to be added in the search list

Step 2: click [Add] button on the Search dialog box to pop up the setting box as follow

Add Server								
Server Type:	NetVideo Server	×						
Address:	192.168.1.100							
Local Name:								
Remote Name:								
CMD Port:	8200	Stream type	Main stream	*				
Remark:				~				
				~				
Group:	Video Encode	🖌 🖌	oup Set					
Infomation:								
Enable Auto Logo	on							
Channel Num:	0							
User Name:		Password:						
View Video By F	ITSP							
Channel: Cha	annel1 🗸							
RTSP link:								
Ok Cancel								

Step 3: type Local Name defined by user

Tick [Enable auto login server], when you login the server next time, you need not to type user name and password and can login the device automatically.

Step 4: after the setting is finished, return to the main interface of software, double click the added device in the device list, and then double click the channel below the device to preview the video.

Because the client side software can only automatically search the network device in local LAN, when it is required for the user to carry out centralized management to remote device, DVS/IP Camera should be added manually, the steps of adding DVS/IP Camera by manual are as follow:

Add Server			X
Server Type: Address: Local Name: Remote Name: CMD Port: Remark:	NetVideo Server 192.168.1.100 192.168.1.100 8200	Stream type	Main stream 💌
Group: Infomation:	Video Encode	Gr	oup Set
Channel Num: User Name:		Password:	
Channel: Ch.	annel1	Πk	Cancel

Step 1: click the pull down option box of Host Type; select the device type to be added.

Step 2: type remote address (fill in IP address or domain name) of device in Address field.

Step 3: type the Local Name defined by user.

Step 4: set data port number of device in Command Port, the port number of DVS/DVS/IP Camera/37 Series network DVR is 8200 by default, this port number can be defined by user, and fill in according to the data port in network setting.

Tick [Enable auto login server], when you login the server next time, you need not to type user name and password and can login the device automatically.

Step 5: after the setting is finished, return to the main interface of software, double click the added device in the device list, and then double click the channel below the device to preview the video.



3. 2. Access **DVS/IP Camera** through IE

3. 2. 1. IE Plug-in Installation and Login

When accessing to DVS/IP Camera through IE (Internet Explorer), you must install the video plug-in firstly. If you have installed the digital video central management software, then you will not need to install IE video plug-in anymore.

Step I: Turn on IE on the computer;

Step II: Input the "<u>http:// IP address (or URL): web port</u>" in the address column, then press ENTER Port number is 80 (when in default value, no need to input port number) Example: <u>http://192.168.168.72</u>

Internet	Explorer - Security Warning				
The publisher could not be verified. Are you sure you want to install this software?					
Nar	me: jbnvocx.cab				
Publish	Publisher: Unknown Publisher				
	Install Don't Install				
8	This file does not have a valid digital signature that verifies its publisher. You should only install software from publishers you trust. <u>How can I decide what software to install?</u>				

Now the system will prompt you to install ActiveX control as shown above; if above dialog box does not appear, then set the safety setting of IE explorer, the detailed setting is as follow:

- 1) Open IE explorer, click "Tool" on menu bar.
- 2) Select "Internet Option" in pull down list.



3) Select "Internet", then click "Customized level(C)...", select Enable or Prompt in the options of "ActiveX control and plug-in", and set Safety Level to Low.

Security Settings	Security Settings
Settings: ActiveX controls and plug-ins Automatic prompting for ActiveX controls Disable Enable Disable Enable Download signed ActiveX controls Disable Enable Download unsigned ActiveX controls Neistlie Reset custom settings Reset to: Medium Reset OK Cancel	Settings: Download unsigned ActiveX controls Disable Enable Prompt Tinitialize and script ActiveX controls not marked as safe Disable Enable Prompt Run ActiveX controls and plug-ins Administrator approved Disable Enable Prompt Reset custom settings Reset to: Medium Reset OK Cancel

4) Click "OK" to save and exit, refresh to access DVS/IP Camera address.

Step 3: type user name and password (default user name and password are: admin)

WebClient - Microsoft Internet Explorer	
<u>Eile E</u> dit <u>Vi</u> ew F <u>a</u> vorites <u>I</u> ools <u>H</u> elp	an a
🕞 Back 🔹 🐑 🔹 🛃 🏠 🔎 Search 🌟 Favorites 🚱 🔗 -	🎍 🖻 🖓
Address 🗃 http://192.168.168.72/	So Links 🐣
NVS & HD IPCamera	f this is your first time to login, the ActiveX of will be downloaded and installed automa-
Language: English 🗸	y. Please allow IE to carry out this procedu-
User Name: admin temp	it doesn't work, please clear up the Internet orary file , refresh the page and try it again.
Password:	₩
Net Type: LAN	
Login Cancel	
	· · · · · · · · · · · · · · · · · · ·
@ Done	🥶 Internet

Step 4: click Login button to enter video preview interface



3. 2. 2. IE real time browse operation

In real time browse page, you can carry out video image recording, snapshot, talkback, PTZ etc operations.



Interface function description

Click this button to open or close channel picture.



Click this button to carry out snapshot to front end video.

Ŗ

Click this button to enable talkback function with front end DVS/IP Camera.

₽

Click this button to enable talkback function with front end DVS/IP Camera.



Click this button to switch between audio enable and disable.



Click this button to enable rain strip function.

Click this button to enable lighting function.



Control Up, Down, Left and Right of camera PTZ automatically

🕂 доом	
FOCUS	
🕂 IRIS	Control Zoom, Focus, and aperture of camera
PreSet Point:	Set Call Set and call the preset position of PTZ
LIVE	Click this menu to switch to real time preview interface
PLAY BACK	Click this button to switch to record playback interface
SETTING	Click this button to pop up parameters setting diagram
LOGOUT	Click this button to exit login

3. 2. 3. IE record playback operation

In record playback page, you can carry out query, playback and download etc operations to the recorded files.



Interface function description

	•	Ja	inua	ıry,	20:	11	▶
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	26						1
	2	З	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
	Tod	lay:	1/	6/2	011		
BEGIN	12:	00:	00	•	END	11	l:59
A11 C	hanr	ie 🔻	A	11 7	Гуре	:3	-

Name Channel File Size 064721.asf 14438 KB 0 064722.asf 1 13852 KB 064724.asf 2 13793 KB 14579 KB 064725.asf 064906.asf 1758 KB 1

Query result, double click record file to play

After record files for download are selected, click this button to download.

Download Tasks When multiple files are down loaded at the same time, click this button to see the download tasks.



Click this button to browse and play the down loaded record files.

Play

Click this button to play the record file.

Pause Click this button to pause the playing of record file.

Click this button to stop the playing of record file.

4. DVS/IP Camera parameters setting

There are two methods to enter DVS/IP Camera Parameters Setting Interface; the operations are detailed as follow:

Method 1: Use IE to access DVS/IP Camera, after login, click "Setting" on the page to enter DVS/IP Camera Parameters Setting Interface.

Method 2: Use digital management center software (CMS) to log in DVS/IP Camera, after the device is selected, click "Remote Setting" on software menu to enter DVS/IP Camera Parameters Setting Interface.

4.1. Channels Settings

Profile

Please see the figure below as the interface for channels setting. Within the setting options, users may configure DVS/IP Camera for its channel name, audio parameter, etc.

P	arameter Setting 192	2.168.168.72(8200)	×
[▶ Camera Setup	Camera Setup Channel 1	
	Color Setup		
	OSD Setup		
	Network Setup		
	COM Setup		
	Sensor Setup	Encode Mode: Main Stream	
	Video Alarm Setup	🔽 Enable Video	
	Alarm Out Setup	Video Format: H264	
	PPPOE&DDNS Setup		
	Local Setup	Frame Rate: 25	
	Alarm Infomation	Video Size: 704 x 576(D1)	
	MD Record		
	FTP Upload	Stream Mode: Fixed Byte Rate 🔽 Quality: Best 🚬	
	EMail Setup	Fixed Byte Rate 1536 (16 2048)kbps	
	Center Setup	100	
	Wireless Setup	I Frame Interval:) ***	
	UPNP Setup	Enable Audio	
	System Setup	Audio Format 0711A Sample Rate: 2000	
	User Right		
		Save	
l			
		Refresh Ok	

Channels Setting

Functional description of options

[Channel] 2/4 channel DVS, select different channel to configure

[Channel Name] set the channel name of camera

[Encode Mode] support 3 streams: main stream, sub-stream, mobile steam

[Encoding Format] set encoding format, support H.264

[Frame Rate] set the frame rate of encoding, which means how many frames of image DVS/IP Camera can compose in 1 second.

[Video Size] set the size for the image of video encoded by DVS/IP Camera, carry out corresponding setting depending on which encode mode is selected.

[Stream Mode] Constant Bit Rate and Constant Quality options, when Constant Bit Rate is selected, the camera will control the bit rate within the range of set value of constant bit rate; when Constant Quality is selected, encoding will be carried out according to the option of [Encoding Quality]

[Encoding Quality] five encoding qualities are available for option: Best, Good, General, Not Good, Poor

[Constant Bit Rate] DVS/IP Camera will carry out encoding according to the value of Constant Bit Rate

[I frame interval] means the number of P frames or B frames between key frames (I frames) in the frames (I frames, B frames, P frames) encoded by DVS/IP Camera, that is, how many frames have been encoded when a key frame appears

[Bit rate] means the quantity of stream in bps encoded by encoder in 1 second. It can be adjusted continuously from 16k to 16000k.

4.2. Color Setting

General

The color setting interface is shown below; in this setting item, you can configure video brightness, contrast, saturation, sharpness, hue and automatic diaphragm etc options of DVS/IP Camera

mera Setup	Color Setup Channel Channel 1	-
lor Setup		
D Setup	Common Setup	
work Setup	Lightness	104
M Setup	Contrast	108
sor Setup	Saturation	124
o Alarm Setup	Hues	124
n Out Setup	Definition	7
	- Advaned Setun	
	Noise Reduction	3 🔽 Auto
Setup		
Infomation	Rec _	0
ecord	Blue _	0 M Auto
Upload	Greer 🚽	0
Setup	Eveneeure -	10 E Auto
er Setup	Comp	
less Setup		50 E Auto
P Setup	Gain -	2 Enable
em Setup		
Right	Scense Manual Mirror Not Mir	rror 🔄 🗌 Black-White
	IRIS	
	IRIS Base	8 🗖 Auto
		Default Cours
		DefaultSave

Color setting

Functional description of options

[Channel] 2/4 channel DVS, select different channel to configure

[Brightness] adjust the brightness degree of picture

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

Saturation adjust the vividness of picture color

[Hue] adjust the hue of picture

Sharpness adjust the sharpness of each detail shadow and its border

[Noise reduction] adjust digital noise value

[Auto color balance] enable this function to restore other colors more correctly by taking

"White" as base color in the images obtained

[Red, Blue, Green] adjust color values of red, blue, and green

[Exposure] adjust the photographic quantity of image sensor

[Gamma] Gamma correction compensates the color display differences of different output devices, so that the image will appear the same affect on different monitors

[Gain] when Auto Gain is enabled, small signal will be raised, so that noise level will also be increased

[Wide dynamics] it is enabled so that bright area and dark area, foreground and background can be seen clearly at the same time

[Scene] four options available in pull down list: outdoor, indoor, manual and auto [Automatic diaphragm] adjust the diaphragm of lens

4.3. OSD Setting

Profile

OSD is an abbreviation of On Screen Display, used in CRT/LCD displayer to create some special words or graphics on the screen of displayer, helping users to acquire some assistant messages.

OSD Setting includes the setting of OSD/MASK. Among the setting items, all marked with " $\sqrt{}$ " in their " \Box " mean the corresponding overlap options have been switched on; otherwise off; please see the figure below as example:

Parameter Setting 192.	168.168.72(8200)		
Camera Setup	OSD Setup	Channel Channel 1	
Color Setup	000.0		
♦ OSD Setup	USD Setup	mat XXXX/MM/DD bbrmmiss	
Network Setup			
COM Setup	Show Info Position()	XY): 500 520	
Sensor Setup	Sung.		
Video Alarm Setup		Save	
Alarm Out Setup		Covering	
PPPOE&DDNS Setup			
Local Setup			
Alarm Infomation			
MD Record			
FTP Upload			
EMail Setup			
Center Setup			
Wireless Setup			
UPNP Setup			
System Setup			
User Right			
		Refresh	Ok

OSD Setting

Instructions of options

[Channel] 2/4-Channel DVS can select different channels to make configurations

[OSD Setting] Mainly fulfill the functions of words overlapping, include overlapping the dates, overlapping the times, overlapping the descriptions of channel and displaying the

characters. Date and time will be displayed at left upper corner of the screen; description of channel will be displayed at the scope of 0^{\sim} image resolution broad band on X-axial and 0^{\sim} image resolution height on Y-axial.

[Occlusion Setting] Set occlusion at designated area, with the steps as below:

Step I: Select [Channel] (There is only one channel that can not be selected for DVS/IP Camera);

Step II: Use your mouse to click [Occlusion Setting], a setting window will pop-up as below; **Step III:** Use left key of mouse to drag and draw any area you want to occlude;

Step IV: Click [Apply] to set occlusion block on the image under monitoring.

If you want to delete the occlusion settings, just use the left key of mouse to click "Occlusion Area Setting", a setting window will pop-up; then click [Delete], and finally click [Apply], so the occlusion will be deleted.

4.4. Network setting

Profile:

This module is used to basic network setting of DVS/IP Camera e.g. IP address, subnet mask, default gateway, data port, Web port, address of DNS server, as well as the mode to acquire IP address; when the network parameters are modified, DVS/IP Camera will restart automatically.



During setting IP address, please avoid the contradiction between its IP address with that of other equipment in LAN; when the network parameters are modified, DVS/IP Camera will restart automatically.

amera Setup	Network Setup Channel: Channel 1
Ilor Setup SD Setup twork Setup M Setup Insor Setup deo Alarm Setup arm Out Setup POE&DDNS Setup	Network Setup C C Enable Auto Get IPaddress Video standard PAL C Enable the Set IP Address IP Address: 192.168.168.72 Mask: 255.255.255.0 Gateway: 192.168.168.1 MAC: 00.18:A8:43:23:96 C Auto Get DNS Server Talkback Ip: 0.0.0.0
cal Setup arm Infomation D Record P Upload	Image: Server Image: Server Image: DNS Server 202.96.134.133 Server name: Network Video Server
naii Setup ireless Setup PNP Setup rstem Setup	Server Notify Set: Enable Send Notify to NVClient NVClient Address: Port: Time(S): Save
er Right	

Network Setting

Functional description of options

4.4.1 Automatically acquire IP address

When this option is selected, DVS/IP Camera will acquire a dynamic IP address from DHCP server; if DHCP server is not available, then use manually assigned IP address at present.

4.4.2 Use fixed IP address

When this option is selected, you can manually assign a legal IP address in IP address field.

[IP Address] the IP address must be unique, and should not conflict with other host or work station in the same network segment.

Subnet Mask it is used to divide the network segment of subnet.

Gateway when DVS/IP Camera is accessed through different network segment, it is required to set this address.

[DNS] it is used to analyze the IP address of server with dynamic IP address, after DDNS function is enabled, correct DNS address should be set.

Data Port it is the port for the audio and video media of DVS/IP Camera, which ranges from 2000—66535, the default value is 8200.

Web Port it is the server port for WEB access of DVS/IP Camera, the default value is 80; if this setting is changed, input <u>http://camera address: Web port</u> when login again.

Set Talkback IP it is the IP address of client receiving message when talkback request is sent, this function is an expanded function and not available yet.

Server Name Name of the server, convenient for memory; e.g. if the server is placed at No. 888 Jiefang Road, then you may name the server as "No. 888 Jiefang Road" for a clear guide of its location exactly

Reversal Connection of Server DVS/IP Camera actively connects to the object host on which the central management software is installed, and the default service port is **6000**.

Setting When the setting corresponding to the button is done, click the button to finish.

4.5. COM Setting

Profile:

All our DVS/IP Camera products support 12 kinds of common PTZ protocols. If you want to connect to PTZ equipments, you need to set the parameters of RS485 port under this option, such as PTZ protocol, address and baud rate.

Steps of setting:

Step I:	First of all, set protocol, address and baud rate of dome or PTZ correctly;
Step II:	The 485 communication cable of dome or PTZ shall be connected with DVS/IP
	Camera 485 communication port;
Step III:	Select [Channel] (2/4 channels of DVS optional) to set [PTZ Protocol]
	In the drop-down menu, select the protocol you need (match with dome or PTZ);
	the server supports 12 kinds of common protocols; if there is no any protocol
	matching your demands in the drop-down menu, you may upload your own
	protocol; the server supports transparent transmission, and default value is Pelco-d.
Step IV:	Set [PTZ Address] and [PTZ Baud Rate]
	Input the address and baud rate of your PTZ to match with fore-end dome or PTZ.
Step V:	Set [PTZ Speed]
	Here you set the running speed of dome conveniently and randomly (0~60
	optional)

Camera Setup	COM Setup	
Color Setup		
OSD Setup	PTZ Protocal Setting(485)	
Network Setup	PTZ Proto: pelco-d	
COM Setup	Address: 1 Baud Rate: 2400 -	
Sensor Setup	Pre Pos: 1 Curise: 0	
Video Alarm Setup	Track: 0	
Alarm Out Setup	Speed: 60	
PPPOE&DDNS Setup	Data: 8 Crc: None 🗸	
Local Setup	Stream: None Stop Bit: 1 Save	
Alarm Infomation		
MD Record	— Enable TempHum Device — Enable Alarm On Lost Device —	
FTP Upload	🗐 Enable TempHum Limit Alarm 👘 Enable Show Info On Video	
EMail Setup	Device No.: Device Name	
Center Setup	Current Temp	
Wireless Setup		
UPNP Setup		
System Setup	Hum upper: Hum lower: Save	
User Right		

COM Setting

4.6. Probe Warning Setting

After the probe warning switched on, the DVS/IP Camera can take the actions as below when a warning is input to the probe:

- > Conduct the output of preset probe in linkage
- > Snap-shot jpg graphics and upload to the predefined host
- > Automatically call the preset position of the dome that set already
- Send the alarm message to client

Set the probe warning

Camera Setup	Sensor Setup
Color Setup	
OSD Setup	Sensor ID: Probe 1 Type: NO
Network Setup	Sensor Name: Sensor In-1
COM Setup	Alarm Time Set
Sensor Setup	Enable Sun
Video Alarm Setup	Time Zone: 12:00:00 / - 11:59:00 / -
Alarm Out Setup	Time Zone: 12:00:00 / 11:59:00 /
PPPOE&DDNS Setup	
Local Setup	Alarm Duration: 30 Second
Alarm Infomation	Enable Alarm Snapshot
MD Record	Send request for bi-directiond talking if alarm.
FTP Upload	PreSet Channel
EMail Setup	Ch 1: Ch 2: Ch 3: Ch 4:
Center Setup	Preset 1 Preset 1 Preset 1 Preset 1 Preset 2 Preset 2 Preset 2
Wireless Setup	
UPNP Setup	Output Set
System Setup	Alarm Out1 Alarm Out2 Alarm Out3 Alarm Out4
User Right	

Probe Warning Setting

Step I: Connect hardware; connect the alarm input equipment with the alarm

Input port of DVS/IP Camera correctly

- Step II: Open the probe alarm setting interface as picture above
- Step III: According to the type of probe, select **[Probe ID and Type]**, and define the **[Probe ID and Type]** by self
- Step IV: **Set Arming Time of Probe**, select **Start**, and set time segment
- **Step V:** Set **Time of Alarm Elimination** (1~1800 seconds optional)
- Step VI: **[Initiate Auto Snap-shot]** (optional)

Set the trigger of probe, then snap-shot image of any channel and transmit afterwards

Step VII: Tick and select **[Preset Channel]** (optional)

When the probe is triggered, system will automatically move the dome camera to designated **[Preset Position of PTZ]**



Must connect it with external dome camera that supports preset position; furthermore, set the preset position in main interface which can be used

Step VIII: Tick and select **[Linkage Alarm Output]** (Optional)

Users may connect with external alarm equipment e.g. alarm ring, alarm light, alarm signal, etc. In case an emergency triggers the probe, the system may automatically output binary to the external equipment

[Probe Type] When the "Normally Open" alarm probe is connected, please select "Normally Open", When the "Normally Close" alarm probe is connected, please select "Normally Close".

4.7. Video Motion Warning

After the video Motion warning is started, when the image moves in set area set time period, the DVS/IP Camera will conduct warning treatment by set actions e.g. snap-shot jpg pictures in linkage, conduct probe output in linkage, as well as send the alarm to client end, so that the client may proceed to treatment basing on local settings. Video motion warning information includes name of server, IP, alarm type, time, etc. that may be saved into log files for the purpose of convenient inquiry afterwards. In case the client end has no connection with DVS/IP Camera when the warning occurs, users may set it to trigger the client end to login the server automatically and open the image when the warning occurs.

Set video motion warning

Parameter Setting 192.168.168.72(8200) Camera Setup Video Alarm Setup Channel 1 -Channel: Color Setup Alarm Type: Video Motion 🔲 Enable Auto Snapshot OSD Setup Alarm Time Set Network Setup Every • Enable COM Setup 2 Sensor Setup 12:00:00 / ÷ 11:59:00 F ÷ Time Zone Video Alarm Setup 12:00:00 / 🗧 🚦 11:59:00 F 🗧 Time Zone: Alarm Out Setup Alarm area: Linkage Alarm Out: PPPOE&DDNS Setup Local Setup 🔲 Out 1 🔲 Out 2 Alarm Infomation 🔲 Out 3 Out 4 MD Record 30 s Alarm Clear Time FTP Upload Sensitive: EMail Setup - H 20 Center Setup Wireless Setup Save UPNP Setup System Setup User Right Refresh Ok

Network Video Server/IP Camera User Manual

Video motion warning Setting

Steps of setting

- Step I: Select **[Channel]** (multiple channels of DVS/IP Camera are optional)
- Step II: Select **Video Mobile** among **Warning Category**
- Step III: **Start Auto Snap-shot** (Optional)

Auto Snap-shot: after the mobile event occurs, system will automatically send the jpg pictures to all client ends that connected currently

Step IV: Set the alarm time segment within the options in **Set Alarm Time**, then **Tick &** Select

```
Step V: Set video in Motion Alarm Area
```

```
Each channel of image will be divided into 18 arrays 22 columns, totally 396 areas
can be available to set active detection; out of these set areas, the system will not
conduct active detection; red color means "The area with active detection on
image"; when setting, use the mouse to drag and select the area to set.
```

- Step VI: Tick and select **[Linkage Alarm Output]** (Optional)
- Step VII: Set **Time of Alarm Elimination** (1~999 seconds optional)

The time of alarm elimination means the system will automatically eliminate the output when the alarm extends to this moment

Skills of setting:

- 1. In order to avoid the small objects from moving in the image that may cause unnecessary warning, users may set the sensitivity a bit higher;
- 2. In some areas with frequent movement, users may also set the sensitivity a bit higher in order to avoid constant warning;

3. Only those warning of very subtle movements require a low or extreme sensitivity, normally users are recommended to set a rather high sensitivity

4.8. Video Loss Warning

After the video loss warning is started, when the warning occurs, the system may designate some probe to output in linkage, as well as send the warning message to client end; while the client end may conduct treatment basing on local setting. Video loss warning information includes name of server, IP, alarm type, time, etc. that may be saved into log files for the purpose of convenient inquiry afterwards.

Set video loss warning

Parameter Setting 192.168.168.72(8200) Camera Setup Video Alarm Setup Channel 1 -Channel: Color Setup Video Lost 🔲 Enable Auto Snapshot Alarm Type: -OSD Setup Alarm Time Set Network Setup Every • Enable COM Setup 2 Sensor Setup 12:00:00 / 🗧 🔸 11:59:00 F 🗧 Time Zone: Video Alarm Setup 12:00:00 / 🗧 🚦 11:59:00 F 🗧 Time Zone: Alarm Out Setup Linkage Alarm Out: PPPOE&DDNS Setup Local Setup 🔲 Out 1 🔲 Out 2 Alarm Infomation 🔲 Out 3 Out 4 MD Record 30 s Alarm Clear Time FTP Upload EMail Setup 20 Center Setup Wireless Setup Save UPNP Setup System Setup User Right Ok Refresh

Network Video Server/IP Camera User Manual

Video loss warning Setting

Steps of setting:

Step I: Select [Channel], enter [Alarm Type], then select [Video Loss]

Step II: Set the alarm time segment, select arming time and set the arming time segment

Step III: Tick and select [Linkage Alarm Output]

The system offers binary probe output for options; users may connect with external alarm equipment e.g. alarm ring, alarm light, alarm signal, etc. In case an emergency of video loss occurs, the system may automatically output binary to the external equipment

Step IV: Set the time of alarm elimination (1~999 seconds)

Step V: Click [Setting], save the parameters

4.9. Warning Output Setting

The chief function of warning output is to automatically trigger the designated probe output binary when a warning occurs, thus to trigger the warning equipment e.g. alarm, etc. You can also

Parameter Setting 192.	168.168.72(8200)
Camera Setup	Alarm Out Setup
Color Setup	
OSD Setup	Alarm Out Set Output Type: Output Port Name:
Network Setup	Output 1: Sensor Out-1
COM Setup	Output 2: Sensor Out-2
Sensor Setup	Output 3: V Sensor Out-3
Video Alarm Setup	Output 4: Sensor Out-4
Alarm Out Setup	Correct 1
PPPOE&DDNS Setup	Save
Local Setup	Sensor State
Alarm Infomation	Sensor 1 Sensor 2 Sensor 3 Sensor 4
MD Record	
FTP Upload	
EMail Setup	
Center Setup	
Wireless Setup	
UPNP Setup	
System Setup	
User Right	
	Refresh

manually control "On" and "Off" of the warning output relay. The detailed setting is as below.

Warning Output Setting

Probe output warning setting:

 $\llbracket \textbf{Output I} \rrbracket \text{ Select the type according to the connected warning output equipment}$

 $\llbracket \mathbf{Output} \ \mathbf{II}
rbrace$ Select the type according to the connected warning output equipment

Name of Switch May customize the name of switch, or select as default

Setting After change the parameters, click this button to save the parameters setting

4. 10. PPPOE&DDNS Settings

Profile: According to the customer's demands, if the fore-end accesses to network by dial-up, users need to conduct the setting to PPPOE; while if the remote users need to access to DVS/IP Camera via domain name, they can select DDNS supported by DVS/IP Camera to make settings. Currently it can support three kinds of DDNS: <u>www.dyndns.com</u>; www.netnvr.com; (where www.netnvr.com is the private DDNS of our company)

amera Setup	PPPOE&DDNS Setup	o Chapr	el 1	
olor Setup	· · ·	Channel:		
SD Setup	PPPoE && DDNS Set-			
etwork Setup	Auto Dial Up On Serv	er Started(<u>S)</u>		
OM Setup	UserName(<u>U)</u> :			
ensor Setup	Password(P):			
deo Alarm Setup	Current Server IP:	255.255.255.255		
larm Out Setup			Save	
PPOE&DDNS Setup				
D Record				
TP Upload				
Mail Setup				
enter Setup	Enable DDNS			
/ireless Setup	Provider:	NetNVR 🔽		
PNP Setup	Username: 0	Idnsdemo		
ystem Setup	Bassword:			
ser Right				
	Domain:	ldnsdemo.netnvr.com		
	Update Interval:	lmin 🔽		
	DDNS Status:	OK	Save	

DDNS Setting

Configurations of PPPoE

- Step I: Open the options of **PPPoE&DDNS Setting** as above
- **Step II:** In PPPoE, fill in the items of **User Name** and **Password** (acquired from network service provider)

Step III: Click **Setting** to save the parameters setting, then the equipment can access to the Wide Area Network (WAN) by dial-up.

Instructions of DDNS configuration

Currently, ISP mostly offers active IP to us (e.g. access to network by dial-up like ADSL), while mostly DVS/IP Camera and other DVS/IP Cameras need a fixed IP when they access to network remotely, and the fixed IP will cost the users too much, then DDNS offers a brand new solution to users, it may capture the user's changing IP every time, then match the IP with domain, so the user may conduct remote monitoring via the domain. Instructions:

For the detailed configuration of DDNS, please refer to Appendix I

4.11. Local setting

It is used to set local record and snapshot save path, network buffer and image display mode etc parameters.

Parameter Setting 192.	168.168.72(820	00)				×
Camera Setup	Local Setup		Channel: Channel	1 🚽		
Color Setup						
OSD Setup	- Record Disk Set	up				
Network Setup	Disk	%Free Sp	Free Space	Total Space		
COM Setup		82.53%	41266.04M	49999.14M		
Sensor Setup	₩ 0.3	64.76%	51808.34M	80003.35M		
Video Alarm Setup	EX EX	72.05%	20503.95M	28458.86M		
Alarm Out Setup						
PPPOE&DDNS Setup						
Local Setup						
Alarm Infomation				_	Save	
MD Record	⊢Net Buffer Set—					
FTP Upload	Use Defa	ault Buffer Set				
EMail Setup	C Buffer	2 Secor	nd Data.		Use	
Center Setup	Enable Mouse	Control PTZ	Example) (idd			
Wireless Setup				eo o venay mode	1	
UPNP Setup	Image Root Path:	NVFile			Save	
System Setup						
User Right						
				Refresh		Ok

Local Setting

Detailed description of parameters configuration:

[Record Setting] tick the drive letter where records are saved in disk list.

Network Buffer when the network speed of remote access is very slow, Network Buffer can be set to improve the smooth of images.

Use Mouse to Drive PTZ function after this function is enabled, you can directly use mouse to drive PTZ rotation on video picture.

[Image Display by using Overlay Method] when the configuration of computer is too low to display images, then disable this option to attain the goal of displaying images, but the display affect of image will be decreased.

Root Path of Saving Picture Records set the name of root directory for the saving of picture records, the default value is **NVFile**.

4.12. Alarm message

You can view probe alarm message, motion detection alarm message, video loss alarm message and disk abnormal error etc other messages in real time.

Alarm Infomation Channel: Channel 1 Color Setup Alarm Infomation Alarm Type Time Alarm Infomation: Server Alarm Type Time Sensor Setup 192.168.168.72(8200) Probe 1Alarm 2011- Video Alarm Setup Server Alarm Infomation 2011- Sensor Setup Server Alarm Server Alarm Video Alarm Setup Server Alarm Server Server Alarm Infomation Server Alarm Server Server <th>Channel 1 Clear Clear Clear Clear Clear</th> <th></th>	Channel 1 Clear Clear Clear Clear Clear	
olor Setup SD Setup Alarm Infomation: Server Alarm Type Time 192.168.168.72(8200) Probe 1Alarm 2011- Infomation Infomati Infomation Infomation Infomation Infomation Infomation	Clear Time m 2011-01-06 07:13:44	
Sob Setup Alarm Infomation: Vetwork Setup Server Alarm Type Time COM Setup 192.168.168.72(8200) Probe 1Alarm 2011- Sensor Setup 192.168.168.72(8200) Probe 1Alarm 2011- Vetwork Setup 192.168.168.72(8200) 192.168.168.72(8200) 192.168.168.72(8200) Vetwork Setup 192.168.168.72(8200)	Clear	
Network Setup Server Alarm Type Time COM Setup 192.168.168.72(8200) Probe 1Alarm 2011- Sensor Setup - - - Video Alarm Setup - - - Alarm Out Setup - - - PPPOE&DDNS Setup - - - Local Setup - - - Alarm Information - - - MD Record - - - FTP Upload - - - EMail Setup - - - Wireless Setup - - -	Time n 2011-01-06 07:13:44	
COM Setup 192.168.168.72(8200) Probe 1Alarm 2011- Sensor Setup - - - Video Alarm Setup - - - Alarm Out Setup - - - SPPOE8:DDNS Setup - - - Alarm Infomation - - - MD Record - - - ETP Upload - - - Setup - - - Mireless Setup - - -	m 2011-01-06 07:13:44	_
ensor Setup ideo Alarm Setup larm Out Setup PPOE&DDNS Setup cocal Setup larm Information ID Record TP Upload Mail Setup ienter Setup		
ideo Alarm Setup Narm Out Setup VPPOE&DDNS Setup ocal Setup Narm Infomation ID Record ITP Upload i:Mail Setup Ienter Setup		
Alarm Out Setup PPPOE8DDNS Setup Local Setup PPOE8DDNS Alarm Infomation PPOE8DDNS MD Record PPOE8DDNS ETP Upload PPOE8DDNS EMail Setup PPOE8DDNS Wireless Setup PPOE8DDNS		
PPPOE&DNS Setup Image: Constraint of the setup Alarm Infomation Image: Constraint of the setup PTP Upload Image: Constraint of the setup SMail Setup Image: Constraint of the setup Vireless Setup Image: Constraint of the setup		
Local Setup Alarm Infomation MD Record FTP Upload EMail Setup Center Setup Wireless Setup		
Alarm Infomation MD Record FTP Upload EMail Setup Center Setup Wireless Setup		
MD Record FTP Upload F		
FTP Upload EMail Setup Center Setup		
EMail Setup Center Setup Wireless Setup		
Center Setup		
Wireless Setup		
UPNP Setup		
System Setup		>
User Right		

Alarm Message

4. 13. Mobile Disk Video Recording

Camera Setup	MD Record			annel 1	ন	
Color Setup					_	
OSD Setup	uto Record					
Network Setup		Record Mode:	Realtime Red	ord. 💌		
COM Setup	100 T	File SaveMode:	🔿 OnSize	50	M(Byte)	
Sensor Setup			OnTime	2	Minute	
Video Alarm Setup		1 (c 1	
Alarm Out Setup		I.▲ It space is les:	s man pum,men a	iuto delete ola file.	Save	
PPPOE&DDNS Setup	ystem Static					
.ocal Setup		Channel 1,2,3,4Re	cording			
Alarm Infomation	$\overline{}$	Disk total space 18	345M,Free space	%32.30.		
MD Record		[
FTP Upload		E	Segin Record	Stop Record	Pop-up Disk	
EMail Setup					View	
Center Setup						
Wireless Setup						
UPNP Setup						
System Setup						
User Right						

Mobile Disk Video Recording Setting

Specifications of functions

DVS/IP Camera supports plugging SD card for recording. The maximum capacity of SD card supported is 32G.

Steps of setting disk video recording

- Step I: Plug the SD card in the SD card interface of DVS/IP Camera.
- Step II: In the video recording setting, select the mode of video recording

There are three recording modes optional as [Full Real-time Record], [Non Real-time Active Record] and [Warning Record Only].

Options: When the balanced space of disk is only 50M left, the system will automatically delete the old files; otherwise, stop recording.

- **Step III:** Click Save
- **Step IV:** Click Start Recording



Note: this series of product do not support hot plug of SD card, therefore when you use SC card to record, firstly insert the SD card and then give camera channel; when SD

card is removed, it should be unloaded firstly.

Unload the mobile disk:

Step I: Click **Stop Recording**

Step II: Click **[Unload Disk]**

Step III: Remove the SD card.

4.14. FTP Upload Setting

Profile

FTP upload setting means when warning occurs and it needs to upload pictures to some FTP server in the network, the DVS/IP Camera may automatically upload the pictures to the designated FTP server; details as the figure below:

Parameter Setting 192	.168.168.72(82	00)
Camera Setup	FTP Upload	Channel 1
Color Setup		
OSD Setup	Enable FTP	Upload
Network Setup	See	If snapshot image,then auto upload to the ftp server.
COM Setup		102 100 100 20
Sensor Setup	FTP Server:	Port: 21
Video Alarm Setup	UserName:	ftpuser
Alarm Out Setup	Password:	XXXXXXXXX
PPPOE&DDNS Setup	Top Dir:	Server IP Address
Local Setup	Sub Dir:	Channel No. Save
Alarm Infomation		
MD Record		
▶ FTP Upload		
EMail Setup		
Center Setup		
Wireless Setup		
UPNP Setup		
System Setup		
User Right		
		Herresh

FTP Upload Setting

Steps of FTP configuration:

When all options below are set correctly, FTP upload function can be realized successfully.

Step I: Install FTP server (For detailed methods of installation, please consult the corporate network administrator)

Instruction: Recommend to adopt Serv-U series FTP server software

- Step II: Tick and select **Start FTP Function**
- Step III: Fill the IP address and port (default FTP open port 21) into **FTP Server**
- Step IV: Set **[User Name]**, means the legal user name in FTP server

Password is the corresponding password of the legal user name

Step V: Set **[Catalogue]** and **[Sub-catalogue]**

Means the mode to names the folders where image files are saved in FTP server

Step VI: Click **Save** to save parameters

4.15. Email Upload Setting

Profile

E-mail upload setting means when warning occurs and it needs to send the pictures to email box, DVS/IP Camera may automatically send the alarm information and pictures to the designated mailbox by email; details as the figure below:

Camera Setup	EMail Setup	Channe	. Channel			
Color Setup		Chann	81.)			
OSD Setup	🔽 Enable EMai	I Send Alarm				
Network Setup	EMAIL Server	smtp.qq.com				
COM Setup	Username:	135943352@qq.com	Pass word	*****		
Sensor Setup	From:	135943352@qq.com				
Video Alarm Setup	To:	youmsnemail@hotmail.co	om	_		
Alarm Out Setup	Сору:		BCopy:			
PPPOE&DDNS Setup	Attach Pic:				Save	
Local Setup						
Alarm Infomation						
MD Record						
FTP Upload						
EMail Setup						
Center Setup						
Wireless Setup						
UPNP Setup						
System Setup						
User Right						

Email Upload Setting

Steps of Email upload setting

Step I: Tick and select **Start Email Alarm Upload**

Step II: Set [Email Server], means the address of mail server used for the sender's mailbox

Users are suggested to use mail server of [smtp.qq.com] or [smtp.sohu.com]

Step III: Set **[User Name]** and **[Password]**, mean the user name and password corresponding to the sender's mailbox

Step IV: Set **[Sender]**, mean the address of mailbox the sender uses

Set **[Receiver]**, mean the address of mailbox the receiver uses

Users are suggested to use mailbox of [E-mail name@hotmail.com], [E-mail name@qq.com], [E-mail name@foxmail.com], [E-mail name@sohu.com], [E-mail name@yahoo.com] or [E-mail name@gmail.com]

Options

Copy This option means that the email you are writing will also be sent to the emails that you input in the **Copy** field, except for the email that you put in the To field, and the To recipient will know that you are sending this email to him and others that you are inputting in the **Copy** field. (This function is not supported current).

BCopy This option means that the email you are writing will also be sent to the emails that you input in the **BCopy** field, except for the email that you put in the To field, but the To

recipient will not know that you are sending this email to the recipients that you are inputting in the **Copy** field. (This function is not supported current).

[Image Attach] When this option is checked, it will snap shot the images and upload it via email in case of system alarm.

4. 16. Center Access Configuration

Profile

Center access configuration means the setting of essential parameters for fore-end equipment monitoring system to access to central platform; details as the figure below:

Parameter Setting 192.	168.168.72(82	00)		
Camera Setup	Center Setup	Channel 1		
Color Setup				
OSD Setup	🔽 Enable Reg	jister on "Center"		
Network Setup			0000	
COM Setup	Center IP:	192 . 168 . 168 . 250 Port:	8889	
Sensor Setup	Device No.:			
Video Alarm Setup			Save	
Alarm Out Setup				
PPPOE&DDNS Setup				
Local Setup				
Alarm Infomation				
MD Record				
FTP Upload				
EMail Setup				
Center Setup				
Wireless Setup				
UPNP Setup				
System Setup				
User Right				
		F	Refresh	Ok

Center Access Setting

Steps of Center access configuration

Step I: Construct a platform server (it is necessary to install another set of independent platform software of our company, and you need to contact our technical support)

Step II: Tick and select [Enable Register on "Center"]

Step III: Set $\llbracket Center IP
rbracket$, means the address of platform server

Set **[Port]**, means the designated port of platform server, and the port is 8889.

- **Step IV:** Set **[Device NO.]**, means the serial number of platform server (for our product, it does not need to input the serial number)
- Step V: Click [save], save the parameters

4.17. WIFI Setting

Profile

Here you can set the parameters of 3G network card, WIFI and cell port.

4. 17. 1. 3G parameters setting

In **NVClient** client side, open "**Remote Setting**" to pop up "**Parameters Setting**" dialog box, select "**Wireless Setting**" option, select "**Enable**" in "**3G Parameters**" field at the right side, select 3G card type (only EVDO of domestic telecommunication is supported at present).

Parameter Setting 192.168.168.72(8200)	×
Camera Setup Wireless Setup Channel 1	٦
Color Setup	_
OSD Setup TD-SCDMA Param	
Network Setup Enable : Yes 💌 3G Card: EVD0	
COM Setup Status: DOWN IP Add: 0.0.0.0	
Sensor Setup	
Video Alarm Setup	
Alarm Out Setup Wifi Enable: Disable 💌	
PPPOE&DDNS Setup Net Address: 192.168.5.202 GateWay: 192.168.5.1	
Local Setup NetMask: 255.255.255.0 DNS: 202.96.134.133	
Alarm Infomation ESSID: Work Mode Managed	
MD Record	
FTP Upload	
EMail Setup WepKey:	
Center Setup Wep-64: Input 5 ASCII characters, or Input 10 HEX characters. (HEX is 0~9, A~F, or a~ft	
Wireless Setup Wep-128: Input 13 ASCII characters, or Input 26 HEX characters. (HEX is 0~9, A~F, or a~1)	
UPNP Setup WPA: The wepKey consists of 8-63 ASCII chars.	
System Setup Set	
User Right Mobile Setup	
Port 15961 Set	
Refresh Ok	

3G parameters setting

After setting, close DVS/IP Camera and insert 3G network card, then start the server, it will take about 1 minute to dial up for the first time. It can be used after the dialing is successful; if 3G dialing is successful, then 3G states will display "UP", IP address will display the IP address

acquired after dial success.

4. 17. 2. WiFi parameters setting

In **NVClient** client side, open "Remote Setting" to pop up "Parameters Setting" dialog box, select "WIFI Setting" option, enable WIFI function in "WIFI Network Parameters" field at the right side, and set correct network parameters, SSID, encrypt mode, work mode and encrypt content (please input according to the prompt of document).

Note: before setting WIFI parameters, please ensure that you have installed WIFI network card on your camera.

Parameter Setting 192.168.168.7	2(8200)
Camera Setup Wireless	Setup Channel 1
Color Setup	
OSD Setup	MA Param
Network Setup Enable :	No 3G Card: EVD0
COM Setup Status:	DOWN IP Add: 0.0.0.0
Sensor Setup	
Video Alarm Setup	am
Alarm Out Setup Wifi Enab	ole: Enable
PPPOE&DDNS Setup Net Addre	ess: 192.168.5.202 GateWay: 192.168.5.1
Local Setup NetMa	ask: 255.255.255.0 DNS: 202.96.134.133
Alarm Infomation	SSID. BND Work Mode Managed
MD Record Security	
FTP Upload	ry. ₩EF-64 V Char Format: HEX V
EMail Setup Wept	(ey: 1231324343
Center Setup Wep-64:	Input 5 ASCII characters, or Input 10 HEX characters. (HEX is 0~9, A~F, or
Wireless Setup Wep-128 Or a~1	Input 13 ASCII characters, or Input 26 HEX characters. (HEX is 0~9, A~F,
UPNP Setup WPA: Th	e wepKey consists of 8-63 ASCII chars.
System Setup	Set
User Right Mobile Se	stup
Port	15961 Set
	Refresh

WiFi parameters setting

After setting, you can find out the IP address of wireless network card by using the client side of Digital Video Management Center.

4. 17. 3. Mobile access setting

Set mobile access port, the default value is 15961. For the purpose of mobile access, it is required to install mobile monitoring software of attached CD on mobile.

Parameter Setting 192	2.168.168.72(8200)	×
Camera Setup	Wireless Setup Channel 1	
Color Setup		
OSD Setup	TD-SCDMA Param	
Network Setup	Enable : No 🔽 3G Card: EVD0 🔽	
COM Setup	Status: DOWN IP Add: 0.0.0.0	
Sensor Setup		
Video Alarm Setup	WIFI Param	
Alarm Out Setup	Wifi Enable	
PPPOE&DDNS Setup	Net Address: 192.168.5.202 GateWay: 192.168.5.1	
Local Setup	NetMask: 255.255.255.0 DNS: 202.96.134.133	
Alarm Infomation	ESSID: BND Work Mode Managed	
MD Record		
FTP Upload	Security: WEP-64 Char Format: HEX	
EMail Setup	WepKey: 1231324343	
Center Setup	Wep-64: Input 5 ASCII characters, or Input 10 HEX characters. (HEX is 0~9, A~F, or a~f)	
Wireless Setup	Wep-128: Input 13 ASCII characters, or Input 26 HEX characters. (HEX is 0~9, A~F,	
UPNP Setup	WPA: The wepKey consists of 8-63 ASCII chars.	
System Setup	Set	
User Right	Mobile Setup	
	Port 15961 Set	
	Refresh	

Mobile setting

4.18. UPNP setting

General

After UPNP function is enabled, and then by combining DDNS, you can let your DVS/IP Camera to realize plug and play.

"UPNP setting" mainly includes **[Enable UPNP]**, **[Work Mode]**, **[Network Card Type]**, **[Local Port Setting]** and **[Remote Port Setting]** etc setting.

As shown in below:

Camera Setup	UPNP Setup	
Color Setup		
OSD Setup		
Network Setup	Enable UPNP 🔽	
COM Setup	Mode Auto port map	
Sensor Setup	Net adapter type Wired adapter	
/ideo Alarm Setup	192 100 100 1	
Alarm Out Setup	Router IP 132, 100, 100, 1	
PPPOE&DDNS Setup	Local data port 8200 Remote data port 8200 OK	
.ocal Setup	Local web port 80 Remote web port 80 OK	
Alarm Infomation		
MD Record	Local mobile port 15961 Remote mobile port 15961 OK	
FTP Upload		
EMail Setup	Deafult Save	
Center Setup		
Wireless Setup		
JPNP Setup		
System Setup		
Jser Right		

UPNP Setting

[Enable UPNP] UPNP is not enabled in factory default of camera, tick **[Enable UPNP]** to enable UPNP function;

[Work Mode] there are 2 options of work mode: Auto Port Mapping and Manual Port Mapping; when Auto Port Mapping is set, DVS/IP Camera will assign mapping port automatically; when Manual Port Mapping is set, it is required to manually set "**Remote Data Port**", "**Remote Web Port**" and "**Remote Mobile Port**";

[Net Adapter Type] select to use "wired adapter" or "wireless adapter" to realize UPNP function;

[Local Port Setting] It is the local access port of DVS/IP Camera, it is required to set local port in network parameters;

Remote Port Setting It is the port through which DVS/IP Camera is accessed remotely; After remote port mapping is set, when you can use remote port to access DVS/IP Camera, the router will carry out data transition between remote port and local port.

4. 19. System Setup

Profile

"System Setup" chiefly include the common settings for all parts e.g. [System Clock], [System Parameters Saving], [System Update], [System Version],

[System Restart], [System Restore Settings], etc.

Please see the figure as below:

Parameter Setting 192	.168.168.72(8200)	×
Camera Setup	System Setup Channel 1	
Color Setup		_
OSD Setup	Server Time Set	
Network Setup	1/ 6/2011 + 7:21:09 AM + Set	
COM Setup		
Sensor Setup	Update FLASH Save all the changed parameters to the Flash. All your settings are	
Video Alarm Setup	workable after restart the IP server.	
Alarm Out Setup	Save	
PPPOE&DDNS Setup	Server Upgrade	
Local Setup	Browse	
Alarm Infomation		
MD Record	Upgrade	
FTP Upload		
EMail Setup	Server Version: 1.0.0.127C Made: 2010-10-07 20:48:17	
Center Setup	ULX Version : 1.10.12.17 ReStart ReStore	
Wireless Setup		
UPNP Setup		
System Setup		
User Right		
	Refresh	

System Setting

- **Server Time Setup** The system offers the function of calibration to the time of client end for remote DVS/IP Camera; When it confirms the time of client end is correct, click "**Set**", then video server will work by the time of client end.
- **Update FLASH** Click "Save" to save the revised parameters into the "flash" in the server; Otherwise, the system will still use the previous parameters after restart.
- **Server Upgrade** When DVS/IP Camera needs upgrade, click this button to upgrade as the steps below:

Step I: Click **Browse** button

Step II: Select the upgrade files (details as the figure below) **Step III:** Click **Upgrade**



- Before upgrade, please contact technician of our Technical Department, and the upgrade shall be conducted under our technician's instructions
- > The network must not break off during the process of upgrade
- > Power supply of DVS/IP Camera shall be stable during the process of upgrade
- > The DVS/IP Camera will automatically restart when the upgrade finishes; please do not make any operation before the system successfully run up again.

Camera Setup	System Setup	
Color Setup		
OSD Setup	Server Time Set	
Network Setup	1/ 6/2011 ÷ 7:39:06 AM ÷ Set	
COM Setup		
Sensor Setup	Update FLASH Save all the changed parameters to the Flash All your settings are	
Video Alarm Setup	workable after restart the IP server.	
Alarm Out Setup	Save	
PPPOE&D Please c	change the import file.	
Local Setur Look in:	► V1.00.00.128 ► E C* EB	
MD Record D5_60 MD Record D5_60 FTP Uploa EMail Setu Center Set UPNP Setu System Set User Right	C_1CH_9910_D1_V1.00.00.128.rom C_4CH_2866_CIF_V1.00.00.128.rom C_IPCAM_IP2986_720P_V1.00.00.128.rom D_4CH_2866_D1_V1.00.00.128.rom D_4CH_2866_D1_V1.00.00.128.rom D_IPCAM_SF_1080P_V1.00.00.126.rom ReStore ROM Files (*.ROM)	

Server upgrade

[Restore **]** Recover all parameters to be ex-work values except the network parameter and user rights parameter.

[Restart Server] Click [Restart Server] button, then the server will shut off and restart.

4. 20. User Rights Setting

Parameter Setting 192	2.168.168.72(8200)
Camera Setup	
Color Setup	
OSD Setup	User Right Set:
Network Setup	User Index: User1 💌
COM Setup	User Name: admin UserPass:
Sensor Setup	Enable User
Video Alarm Setup	User Right:
Alarm Out Setup	I PTZ Control I Server Config I Update,Restart
PPPOE&DDNS Setup	User Priview:
Local Setup	I Channel1 I Channel2 I Channel3 I Channel4
Alarm Infomation	User Login ssss:
MD Record	IP Limit 0.0.0.0
EMail Setup	MAC Limit: 00:00:00:00:00
Center Setup	0050.054.54.47
Wireless Setup	The Windows MAC Address: 00:E0:40:FA:54:A7 Save
UPNP Setup	
System Setup	
User Right	
	Refresh

User Rights Setting

Profile: The server can support maximally 5 users; and each user may own private rights under setting

Steps of setting:

- **Step I:** Click **[User Index]**, select the User in the drop-down menu (User from 1 to 5, optional)
- Step II: Set **[User Name]** and **[UserPass]**
- Step III: Tick and select **[Enable User]**
- Step IV: Set user Rights

『PTZ Control, Set Parameters, Upgrade, Format』 optional Tick and select **『Channels The User Can Preview**』

Appendix I Operating instruction of DDNS

I. Steps of setting netnvr DDNS

Δ

Note: it is not required to additionally apply netnyr DDNS, you only need to input DDNS user name and domain name that you want to apply in DDNS setting interface.

Step 1: modify the IP address of device, the IP address is required to be the network segment used in normal times, that is, the IP for the internal network of the router.

D-Link Bulkling Networks for People	AirPlus G 802.11g/2.4GHz Wireless Router						
	Home	Advanced	Tools	Status	Help		
DI-524	Device Informa	ation					
an and and and	Firmware Version: V2.04Patch05 , Mon, Feb 26 2007						
	LAN						
	MAC Address 00-1C-F0-83-D3-1A						
Device Info	IP Address 192.168.168.1						
	Subnet Mask 255.255.255.0						
Log		DHCP Server Di	sabled				
	WAN						

Parameter Setting 192.168.168.72(8200) × Camera Setup Channel 1 Network Setup Ŧ Color Setup Network Setup OSD Setup C Enable Auto Get IPaddress Video standard PAL -Network Setup Enable the Set IP Address COM Setup 192.168.168.72 Media Port: 8200 IP Address: Sensor Setup 80 255.255.255.0 Web Port Mask: Video Alarm Setup 192.168.168.1 MAC: 00:18:A8:43:23:96 Gateway: Alarm Out Setup PPPOE&DDNS Setup C Auto Get DNS Server Talkback lp: 0.0.0.0 Local Setup Enable the Set DNS Server Alarm Infomation 202.96.134.133 **DNS Server** MD Record FTP Upload Network Video Server Save Server name: EMail Setup Server Notify Set: Center Setup Enable Send Notify to NVClient Wireless Setup Port NVClient Address: Time(S): UPNP Setup 6000 3 Save System Setup User Right Refresh Ok

Network Video Server/IP Camera User Manual

Step 2: log in client side software --> Remote Setting --> PPPOE&DDNS Setup --> Enable DDNS --> select netnvr DDNS network provider

Step 3: input user name and domain name that you want to apply in DDNS setting interface, click "Save" to save.

amera Setup	PPPOE&DDNS Setup	Channel	Channel 1	~	
olor Setup		Channei:			
5D Setup	- PPPoE && DDNS Set-				
etwork Setup	Auto Dial Up On Se	erver Started <u>(S)</u>			
OM Setup	UserName(<u>U)</u> :				
nsor Setup	Password(P):				
deo Alarm Setup	Current Server IP:	255.255.255.255			
arm Out Setup				Save	
POE&DDNS Setup					
O Record					
'P Upload					
1ail Setup					
enter Setup					
ireless Setup	Provider:	NetNVR	*		
NP Setup	Username:	ddnsdemo	=		
stem Setup	Prosword:		-		
er Right	Password.		_		
	Domain:	ddnsdemo.netnvr.com			
	Update Interval:	1min	~		
	DDNS Status:	OK		Save	

Step 4: set UPNP or set port mapping on the router. In the IE, input IP of router into the router, normally find the mapping options of router port, commonly as "Virtual Server", "NAT Setting" or "Port Transferring", etc.; in the IP address column, input the IP of DVS/IP Camera current or to be mapped; add 80 port and 8200 port respectively; details as the figure below (D-Link):

D-Link Building Networks for People			802.1	4 //~ P 1g/2.4GH	lus (Router
DI-524	Home	Advan	ced 📃	Tools	Status	Help
DI-324	Virtual Server Virtual Server is u	sed to allow li	nternet users	s access to LAN	services.	
		💿 Enabled	d 🔘 Disabl	led		
Virtual Server	Name	DVS				
	Private IP	192.168.16	8.72			
Application	Protocol Type	TCP 💌				
	Private Port	80				
Filter	Public Port	80				P P
	Schedule	🔘 Always				I
Firewall		O From	Time 00	🕶 : 00 💌 то С	0 💌 00 💌	I
			day Sun	Y To Sun Y		I
DDNS						<u>0</u>
					Apply (Cancel Help
DMZ					Apply 1	cancer netp
	Virtual Server	ist				
Performance	Name	CTD	Private IP	Protocol	Schedule	D 187
	Virtual Server	FTP	0.0.0.0	TCP 21 / 2'	Always	

(Setting Virtual Server, Web Port: 80, add DVS IP address: 192.168.168.72)

D-Link Building Networks for People			802.11	g/2.4GHz	lus C	Bouter
DL-524	Home	Advan	ced 🗾	Tools	Status	Help
DI-324	Virtual Server Virtual Server is u	sed to allow li	nternet users	access to LAN s	ervices.	
		💿 Enabled	d 🔿 Disable	ed		
Virtual Server	Name	DVS				
	Private IP	192.168.16	8.72			
Application	Protocol Type	тср 😽				
	Private Port	8200				
Filter	Public Port	8200				
	Schedule	🔘 Always				
Firewall		🔘 From	Time 00	🜱 : 00 🜱 To 00	00 💌	
DDNS			day Sun	Y To Sun Y		3 0
DMZ	Vietual Saniar I	int			Apply C	ancel Help
Performance	Name	.151	Private IP	Protocol	Schedule	
	Virtual Server	FTP	0.0.0.0	TCP 21 / 21	Always	211

(Setting Virtual Server, Data Port: 8200, add DVS IP address: 192.168.168.72)

Virtual Server List Name Private IP Protocol Schedule Performance 📝 间 Virtual Server FTP 0.0.0.0TCP 21 / 21 Always 2 🧻 Virtual Server HTTP 0.0.0.0 TCP 80/80 Always 2 间 Virtual Server HTTPS 0.0.0.0 TCP 443/443 Always 📝 📋 Virtual Server DNS UDP 53/53 0.0.0.0 Always 2 📋 Virtual Server SMTP 0.0.0.0 TCP 25/25 Always 📝 📋 Virtual Server POP3 0.0.0.0 TCP 110 / 110 Always 📝 📋 Virtual Server Telnet 0.0.0.0TCP 23/23 Always 📝 📋 IPSec 0.0.0.0UDP 500 / 500 Always TCP 17237 📝 📋 PPTP 0.0.0.0Always 1723 DCS-900,DCS-1000 2 🧻 0.0.0.0 TCP 80/80 Always DCS-2000,DCS-5300 0.0.0.0 TCP 800 / 800 Always 📝 📋 UDP 5002-DCS-3120 2 📋 0.0.0.0 5003/5002-Always 5003 TCP 82007 192.168.168.72 📝 📋 🗹 DVS Always 8200 192.168.168.72 📝 📋 🗹 DVS TCP 80/80 Always

Network Video Server/IP Camera User Manual

Virtual Server List

Step 5: try to use the domain name applied just now to access DVS/IP Camera; if you can access normally, then your application is successful.

II. Steps of setting DynDNS DDNS

Step 1: log in the official website of DynDNS http://www.dyndns.comStep 2: register DynDNS account and apply an available domain name.

			DNS & Domains	Email Services	Performance & Security
		What are you looking for?		Search	
Why DynDNS.com?	Services & Pricing	Support			
My Account	Create an account or	log in to continue			
Create Account					
Login			[Alroady Pogisto	rad2
Lost Password?				Alleady Registe	
My Cart <u>0 items</u>				Username Password	
				Forgot your pass	Log in
WE'RE HIRING			L		
Powered by 🜔 Dyn				CE CE	RUSTe RTIFIED PRIVACY
	Username:				
	Password:				
	Confirm password:				
	Email:				
	Confirm Email:				
	Security Image:	0 7 2 9	3533		

by Dynamic Network Services Inc.			What are yo		? Sear
Why DynDNS.com?	Services & Pricing S	upport			Have an account?
Dynect SMB	- an affordable Anycast DNS option f	for smart businesses	s positioning themselves	s to be the next big t	thing on the web.
ly Account	Add New Hostname				<u>↑ Host Servi</u>
1y Services lynamic DNS Pro	You don't currently have a Dynam	ic DNS Pro service in	n your account.		
My Services Dynamic DNS Pro Internet Guide SLA Premier Support Zone Level Services Domain registration and transfer, DNS hosting, MailHop	You don't currently have a <u>Dynam</u> To get the full benefits of Dynamic your shopping cart (a) (or try it wi	ic DNS Pro service in c DNS, including pre ith \$1.99 monthly su	n your account. mium subscriber domai bscription).	ns and other feature	es, <u>add Dynamic DNS Pro to</u>
My Services Dynamic DNS Pro Internet Guide SLA Premier Support Zone Level Services Domain registration and transfer, DNS hosting, MailHop services Host Services Dynamic DNS hosts, WebHop URL Forwarding	You don't currently have a <u>Dynami</u> To get the full benefits of Dynamia your shopping cart (a) (or try it with Hostname: Wildcard: only for DynDNS Pro users	ic DNS, including pre c DNS, including pre ith \$1.99 monthly su demo create "*.hos (for example www.host.dy	n your account. mium subscriber domai <u>bscription</u>). . <u>dyndns.info</u> t.dyndns-yourdomain.co to use same settings fo dns-yourdomain.com)	ns and other feature	es, <u>add Dynamic DNS Pro to</u>
My Services Dynamic DNS Pro Internet Guide SLA Premier Support Zone Level Services Oomain registration and Oomain registration and Oomain registration and Oomain registration and Oomain registration and Oomain registration Mail Hop Puttound Mail Hop Outbound SLS. Certificates Sensey Services	You don't currently have a <u>Dynamic</u> To get the full benefits of Dynamic your shopping cart (2) (or try it with Hostname: WildCard: only for DynDNS Pro users Service Type:	demo demo create "*.hos (for example www.host.dy Host with IP a Offline Hostna	n your account. mium subscriber domai bscription). dyndns.info t.dyndns-yourdomain.co to use same settings for ndns-yourdomain.com) uddress rect (URL forwarding so ame	ns and other feature	es, <u>add Dynamic DNS Pro to</u>
My Services Dynamic DNS Pro Internet Guide SLA Premier Support Zone Level Services Oomain registration and Oramair registration and Oramair registration and Oramic DNS hosting, MailHop Intervices Host Services Dynamic DNS hosts, WebHop IKE, Forwarding Dynect SMB MailHop Outbound SSL Certificates Lenew Services Lenew Services Auto Renew Settings Sync Expirations	You don't currently have a Dynamic To get the full benefits of Dynamic your shopping cart (2) (or try it with Hostname: Wildcard: only for DynDNS Pro users Service Type: IP Address:	demo c DNS, including pre ith \$1.99 monthly su demo c create "**.hos (for example www.host.dy Host with IP a OWebHop Red Offline Hostna	n your account. mium subscriber domai bscription). dyndns.info t.dyndns-yourdomain.co t.dyndns-yourdomain.com) address rect (URL forwarding so ame	ns and other feature	es, <u>add Dynamic DNS Pro to</u>

Step 3: modify the IP address of device, the IP address is required to be the network segment used in normal times, that is, the IP for the internal network of the router.

D-Link Building Networks for People	802.11g/2.4GHz Wireless Router					
	Home	Advanced	Tools	Status	Help	
DI-524	Device Informa	ation				
Firmware Version: V2.04Patch05 , Mon, Feb 26 2007						
	MAC Address 00-1C-F0-83-D3-1A					
Device Info	IP Address 192.168.168.1					
	Subnet Mask 255.255.255.0					
Log		DHCP Server D	isabled			
	WAN					

Camera Setup	Network Setup Channel: Channel 1
Color Setup OSD Setup Network Setup COM Setup Video Alarm Setup Video Alarm Setup Alarm Out Setup PPPOCE&DDNS Setup	Network Setup C Enable Auto Get IP address Video standard PAL PAddress: IP Address: ISS. 168. 168. 72 Media Port: B00 B00
Alarm Infomation MD Record FTP Upload EMail Setup	Server name: Network Video Server
Center Setup Wireless Setup UPNP Setup System Setup User Right	Server Notify Set: Enable Send Notify to NVClient NVClient Address: Port Time(S): 5000 3 Save

Step 4: log in client side software --> Remote Setting --> PPPOE&DDNS Setting --> Enable DDNS --> select DynDNS DDNS network provider

Step 5: input user name, password and domain name that you have applied in DDNS setting interface, click "Setting" to save.

lamera Setup	PPPOF&DDNS Setup		Channel 1		
Color Setup		Channel:	Channel I		
)SD Setup	PPPoE && DDNS Set-				
letwork Setup	📃 Auto Dial Up On Se	rver Started <u>(S)</u>			
OM Setup	UserName(<u>U)</u> :				
iensor Setup	Password(P):				
'ideo Alarm Setup	Current Server IP:	255.255.255.255			
larm Out Setup		-		Save	
PPOE&DDNS Setup					
1D Record					
TP Upload					
Mail Setup					
Center Setup	Enable DDNS				
Vireless Setup	Provider:	DynDNS	*		
JPNP Setup	Username:	demo			
iystem Setup	Password				
Jser Right	Demain:				
	Domain:	demo.dyndns.info			
	Update Interval:	30min	~		
	DDNS Status:	Not OK		Save	

Step 6: set UPNP or set port mapping on the router, please refer to Step 4 of "**Steps of setting netnvr DDNS**" for the method of port mapping.

Step 7: try to use the domain name applied just now to access DVS/IP Camera; if you can access normally, then your application is successful.

Appendix II Alarm input, output device connection

1. Alarm input connection:



Note: after alarm input device is connected well, it is required to select correct alarm type in the alarm input configuration menu of DVS/IP Camera and set well the time interval of arrangement!

2. Alarm output connection:





Note: after alarm output device is connected well, it is firstly required to set well linkage alarm input of alarm input, or manually control alarm output switch in alarm output configuration menu!

Appendix III Default parameters

1. Network parameter

1) Network Video Server and IP Camera default parameters

Parameters	Default
IP address	192.168.1.100
Subnet address	255.255.255.0
Gateway	192.168.1.1
Data port	8200
Web port	80
Mobile port	15961
UPNP	Off

2. Username and password

Parameter	Default
Username	admin
Password	admin

Appendix IIII Answer of common failures

Ask: how to connect quickly and preview images for newly bought machine? Answer: please read *<DVS/IP Camera Quick User Guide>* before you use the device.

Ask: why the IP of device can't be found when the search tool of DVS/IP Camera is opened?

Answer: reason 1: DVS/IP Camera is not switched on, or power adapter conforming to standard is not available;

Solution: use standard power adaptor of DVS/IP Camera to supply power to device, examine the power indicator (PWR) of device to see if it is lit, and examine the device running lamp (RUN) to see if it is flashing normally.

Reason 2: network cable is damaged or too long;

Solution: fabricate network cable again, the length of single network cable should not exceed 80 meters, use super 5 category or 6 category shielded network cable with better quality as possible; after network cable is connected, please examine the network connection indicator to see if it is lit.

Reason 3: the firewall of computer has prevented the search tool;

Solution: before the search tool is opened, please firstly try to close the firewall of computer

temporarily, and open the firewall of computer after the device is connected normally.

Reason 4: the network address of device has been modified, so that the IP address of device and gateway address are not in the same network segment, or the DVS/IP Camera and your PC are not in the same VLAN.

Solution 5: press the RST reset key of device for about 5 seconds under power on state, release you hand after the network indicator lamp is off, the device will be restored to factory default parameters. The factory default IP address is: **192.168.1.100**; if DVS/IP Camera and your PC are not in the same VLAN, please contact network administrator to assign access rights.

Ask: why the picture sense fuzzy or color cast after image connection?

Reason 1: dirty lens, lens not focused well or lens used not conforming to DVS/IP Camera;

Solution: use professional lens cloth to carefully clean lens, readjust the focus of lens; please use mega-pixel lens for mega-pixel DVS/IP Camera.

Reason 2: brightness, contrast, sharpness and hue parameters haven't been adjusted well;

Solution: trim the brightness, contrast, sharpness and hue parameters of DVS/IP Camera again according to detailed installation environment.

Ask: why DVS/IP Camera can't be accessed through Internet?

Reason 1: there is no access environment of Internet, or there is no access right.

Solution: please install well the access environment of Internet before hand, for example: put ADSL network into operation, or fixed IP address of Internet; if you have no right of network access, please contact the network administrator to assign relative access right.

Reason 2: network parameters, port mapping and DDNS haven't been set well;

Solution: correctly set the network parameters of DVS/IP Camera, including IP address, subnet mask, gateway address, DNS and network access port etc, so as to ensure that the network address of your device can connect to Internet normally; normally configure port mapping (if your router supports UPNP function, then enable the UPNP of DVS/IP Camera to prevent you from the trouble of setting port mapping), apply and configure correct DDNS domain name.

Ask: why the video picture feels not smooth or having delay when DVS/IP Camera is accessed through Internet?

Reason 1: the band width of network for upload or download is not enough;

Solution: optimize or improve the upload band width for the network access of DVS/IP Camera and improve the download band width of the access end network; reduce the encoding rate and frame rate of DVS/IP Camera.