Embedded NVR User Manual V2. 0

2014.1

1. PRECAUTIONS

Please observe the following precautions, in order to avoid damage or loss of data caused by improper operation.

NVR should work on proper temperature and humidity.

Do not install NVR in humid, dusty or smoky environment.

Require a solid mounting surface for installation.

Do not block any ventilation openings. Install under the manufacturer's instructions.

Do not spill liquid of any kind on device.

Do not put any other equipment on device.

Do not dismantle the device.

Select specified HDD by manufacture.

2. NOTE

This user manual is for reference only, subject to available products.

This user manual may contain inaccurate data or printing error.

Updates to the manual or products themselves will occur without further notification.

All pictures not from the same machine, showing illustrative purposes only.

Contact the customer service department when you have any question or want newest software and file.

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3. PRODUCT INTRODUCTION

3.1. SUMMARY

Our Embedded Digital Video Recorder is an excellent digital surveillance product which adopts H.264 video compression, hard disk recording, TCP/IP transmission, and a Linux based OS in addition to some of the more advanced technologies in the information technology industry. This enables a more stable, reliable and high picture quality.

These products support synchronized video and audio recording, playback, and monitoring. This series also supports network based system control, as well as excellent network streaming capabilities.

3.2. FEATURES

LIVE VIEW

CVBS interface, TV, VGA/HDMI synchronous output.

DECODING PROCESSING FUNCTIONS

H.264 video compression, G.711 audio decording compression, Supports up to 1080P resolution decoding .

RECORDING

Recording modes include manual, time, alarm, motion detection, etc.; Support SATA HDD and local disk S.M.A.R.T. technology, Support USB backup and internet backup.

PLAYBACK

Playback search by various conditions, local and network playback; support multiple channel simultaneous playback, support fast, slow, rewind and frame mode; support exact time playback.

CMERA CONTROL AND ALRM

Remote camera control, Multi-channel alarm input interface for connecting various types alarm equipment; Motion detection alarm, video loss alarm, masking alarm; Multi-channel alarm output, alarm linkage and on-site lighting control.

COMMUNICATION INTERFACE

USB 2.0 high speed interface connecting various backup devices; Standard Ethernet interface, work under various networks.

NETWORK PROTOCAL

Support TCP / IP, UDP, RTP / RTSP, DHCP, PPPoE, DDNS, NTP etc.; support network real-time live view, recording, playback, control; built-in WEB Server, IE browser for direct access.

OPERATION MODE

Support the front panel, remote controls, mouse and so on many kinds of operating mode; With simple, intuitive graphical; With simple, intuitive graphical interface.

4. INSTALLATION

4.1. CHECK NVR AND ACCESSORIES

Please carefully check the contents as packing list. If any of the items are missing, please contact with your dealer.

4.2. HDD INSTALLATION

Preparation

Prepare a Cross Screwdriver.

Note: HDD quantity by each model's specifications shall be final, HDD capacity up to 64 TB.

Steps

Remove the metal top cover by removing two screws from the sides of the cover.

Place the hard disks on a flat table and fasten it by screws.

Connect the power and data cables to the HDD.

Reinstall the metal top cover and fasten it by screws.

Caution

Only use HDD specified by the manufacturer.

HDD will be formatted automatically during startup, it may cause data loss.

Recording duration is decided by HDD capability and NVR parameters (recording setup, encoding setup). Please see the form in chapter 9.3.

4.3. CD/DVD-RW INSTALLATION

Preparation

Prepare a Cross Screwdriver.

Steps

Remove the metal top cover by removing two screws from the sides of the cover.

Remove the hard disk bracket.

Open the cover on front panel, remove the baffle inside.

Connect the power and data cables to the CD/DVD-RW.

Reinstall the metal top cover and fasten it by screws.

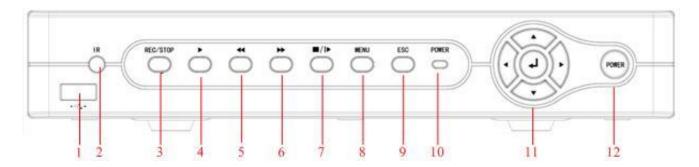
Caution

Install the CD/DVD-RW only for some specific model support CD/DVD-RW, it will use HDD install space and interface.

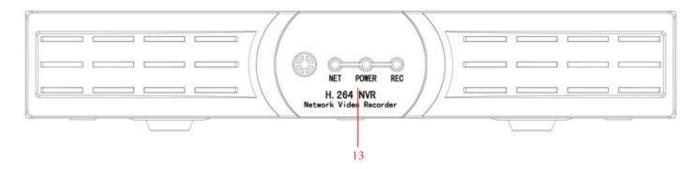
4.4 PANEL INTRODUCTION

4CH POE-NVR

Buttons on Front Panel



31 Appearance



34 Appearance

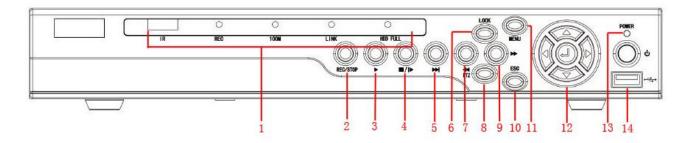
NO.	TYPE	FUNCTION
1	USB	Mouse or storage device connected
2	IR receiver	Remote control receiver
3	REC/STOP	Recording control buttons
4	►	Play
5	44	Fast backward playback
6	••	Fast playback
7	∎/▶	Playback/play by frame
8	MENU	Main menu
9	ESC	Return to the previous menu, or cancel operation;
		Return to live view window from playback state
10	POWER	Power status indicator
		Direction key to choose up and down
		Activate a drop-down menu to choose options
		Control addition/subtraction number
	¢↓	Change check box setting
11	-	Control character input
		Move channel
		Control up and down when PTZ setting
	$\leftarrow \rightarrow$	Direction key
	Enter	1. Confirm operation; 2. Open main menu in live view window
12	POWER	Power On/Off system

13	Status indicator	Rec, Net, Alarm, HDD status indicator
----	---------------------	---------------------------------------

NVR Series

8Ch NVR

Buttons on Front Panel



8CH NVR Front Panel and button introduction

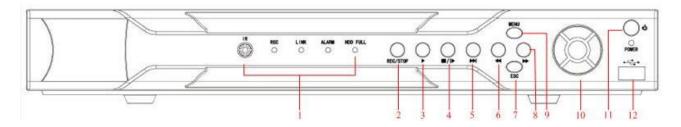
NO.	TYPE	Function
	IR receiver	Remote control receiver
1	Status indicator	Rec、Net、Alarm、Hdd Status indicator
2	REC/STOP	Recording control buttons
3		Playback/play
4		Playback/play by frame
5		Slowly playback
6	LOCK	Lock System
7	44	Fast backward playback
8	PTZ	PTZ Controler

9	••	Fast forward playback
10	ESC	Exit key
11	MENU	Main menu
	Direction keys	direction key include: up 【▲】、down 【▼】、left 【◀】、right 【▶】 four buttons.
	Enter	Confirm operation
13	POWER	Power On/Off system
14	USB	Mouse or storage device connected

8CH NVR Front Panel and button introduction

16CH、32CH NVR

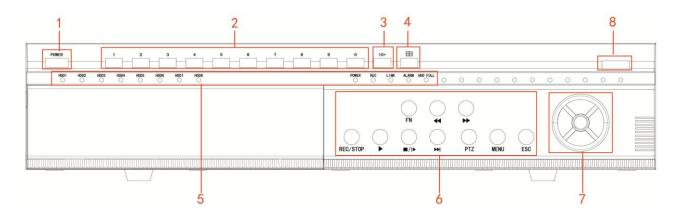
Buttons on Front Panel



16CH、32CH NVR Front Panel and button introduction

NO.	TYPE	FUNCTION	
	IR receiver	Remote control receiver	
1	Status indicator	Rec, Net, Alarm, Hdd Status indicator	
2	REC/STOP	Recording control buttons	
3	►	Playback/play	

4		Playback/play by frame
5		Slowly playback
6	44	Fast backward playback
7	ESC	Exit key
8		Fast forward playback
9	MENU	Main menu
	Control button	direction key include: up ()、 down ()、 left ()、 right () four buttons.
	Enter	Confirm operation
11	POWER	Power On/Off system
12	USB	Mouse or storage device connected



32CH NVR Front Panel and button introduction

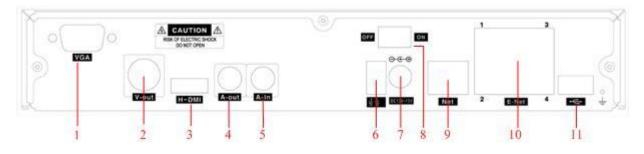
NO.	TYPE	NAME	FUNCTION
1	POWER	POWER	Power On/Off system

2	CHANNEL	1–16	Select channel
3	Log off	Lock	Log off the user logged in
4	Multi-Video	Ш	Multiple Video switch
		HDD1-8	Lit means hard disk is recording
		POWER	Power indicator
5	Status lamp	REC	Record indicator
0	Status lamp	LINK	Network indicator
		ALARM	Alarm indicator
		HDD FULL	Hard disk full indicator
		REC/STOP	Enable/disable manual record
	Function key	++ >>	Playback fast forward/fast backward
		FN	Display/hide playback toolbar
			Playback/play
6		■/ ►	Playback pause/play frame by frame
		ESC	Exit key
	-		Slow play at playback
		MENU	System main menu
		PTZ	Initiate PTZ control interface

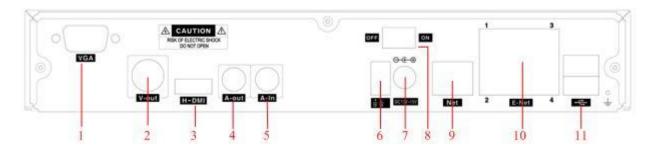
7	Control keys	Direction keys	direction key include: up (▲)、down (▼)、left (◀)、 right (▶) four buttons.
8	Remote control	IR	Receive the signal sent by remote control

4.5 REAR PANEL

4CH POE-NVR



31 Appearance

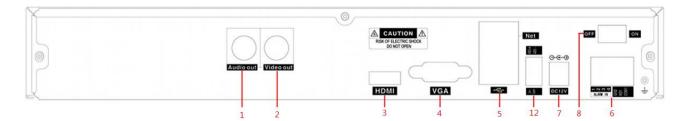


34 Appearance

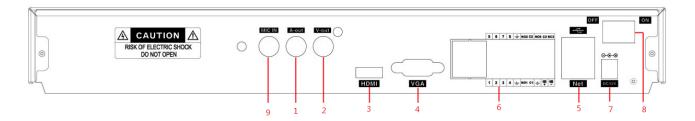
NO.	TYPE	FUNCTION
1	VGA	VGA interface
2	VIDEO OUT	Video output connecting TV or monitor, standard BNC connector
3	HDMI	High definition interface
4	A-Out	Audio output
5	A-In	Audio input

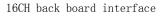
6	RS485	RS 485 for connecting PTZ
7	POWER	DC 13V-15V POWER IN
8	ON/OFF	Power switch
9	NET	RJ-45 Network interface
10	POE SWITCH	4CH POE POWER RJ-45
11	USB	Used to connect mouse or back up

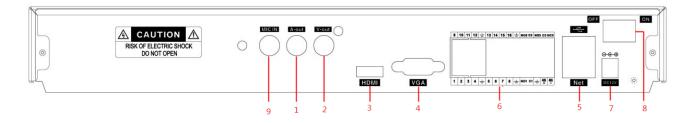
NVR Series



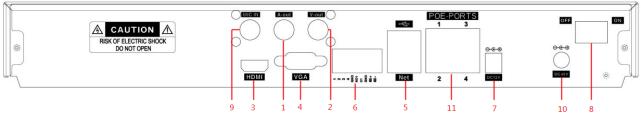
8CH back board interface







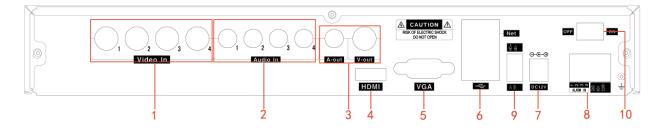
32CH back board interface



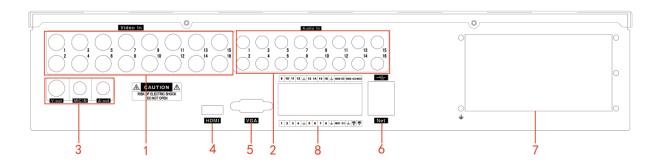
8CH (POE) back board interface

NO.	TYPE	FUNCTION
1	AUDIO OUT	Audio output
2	VIDEO OUT	Video output connecting TV or monitor, standard BNC connector
3	HDMI	High definition interface
4	VGA	VGA interface
5	LAN/ USB	Network interface/ Used to connect mouse or back up
6	ALARM IN/OUT	Alarm on-off input/ Alarm relay output
7	DC+12V IN	DC 12V/3.42A
8	ON/OFF	Power switch
10	POE POWER	DC 48V POWER IN
11	POE SWITCH	4CH POE POWER RJ-45
12	RS485	RS 485 for connecting PTZ

HVR Series



4CH back board interface

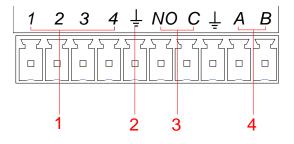


16CH back board interface

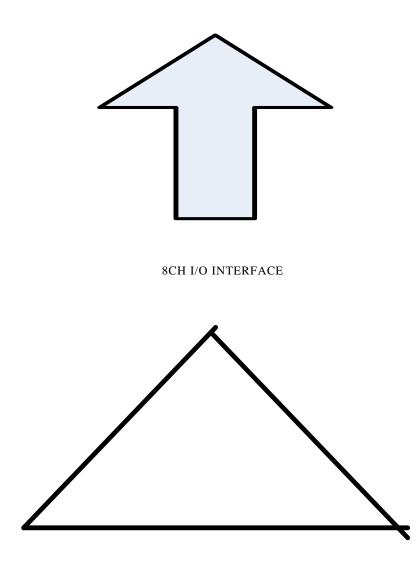
NO	ТҮРЕ	FUNCTION
1	Video In	For connecting analog video signal input (BNC)
2	Audio in	For connecting audio signal
3	V-out	One video output for connecting TV or monitor (BNC)
4	HDMI	High definition interface
5	VGA	VGA interface
6	LAN, USB	Network interface/ Used to connect mouse or back up
7	POWER	POWER IN
8	ALARM IN/OUT	Alarm on-off input/ Alarm relay output
9	RS485	RS 485 for connecting PTZ
10	ON/OFF	Power switch

4.6 ALARM

NVR series



4CH I/O INTERFACE



16CH I/O INTERFACE

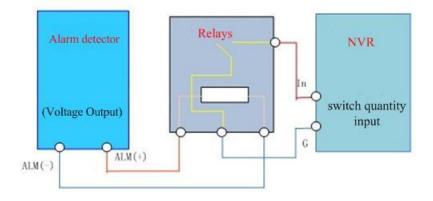
Rare Panel:

Index	Name	Description
1	Alarm input	Connection for external Alarm Peripherals(PIR Sensor, Alarm Panel).
2	GND	Grounding.
3	Alarm output	Connection for external devices (Pezos, buzzer, siren).
4	RS-485	Communication terminal for Pan/Tilt/Zoom cameras.

NVR I/O DESCRIPTION

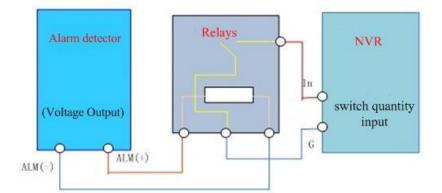
Alarm Input Connection

The alarm input is the switch quantity input. If the alarm input signal is not switch quantity signal but voltage signal, refer to the following connection.



Alarm Output Connection

When the alarm output connect with DC and AC load, please refer to the connection



POE-NVR Kits not support alarm input and output.

4.7 POE CONNECTION

Step 1: Supply the NVR with the 12V DC power.

Step 2: Connect the POE module with 48V directly power.

Note: 48V voltage is not safe, please pay attention to the use of electricity.

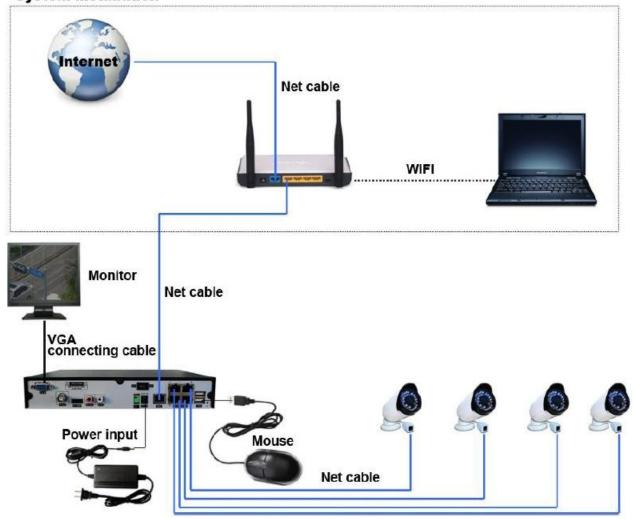
Step 3: The side of the network cable is connected to the POE network interface and the other side is connected to

the network camera. The distance of POE power is not more than 100 m theoretically.

POE power connection

Step 1: Connect the power input, please use the DC13V-15V power cord with the device.

Step 2: Connect the network cable between NVR POE interface and IP camera network interface (The IP camera support POE function). The POE network cable less than 100m.



System installation

5 PERATION GUIDE

5.1 POWER ON/OFFO

5.1.1 POWER ON

NVR installed correctly, switch on with power light is on, NVR will boot up automatically. Different model have different boot up status, please refer to the Front-panel Introduction.

NVR will detect the hardware when power on, the process will last 30 seconds more or less. After the detection, NVR make a "Buzzing" sound and enter into a multi-screen live view, user can operate now.

5.1.2 POWER OFF

Hold down on-off key to turn off device.

```
[Main Menu] \rightarrow [Power off] \rightarrow [Power off].
```



DIAGRAM 5-1 TURN OFF DEVICE

 \triangle Note: turn off device and switch off power when changing HDD.

5.1.3 OUTAGE RECOVERY

Reboot after an outage or forceful shutdown, NVR will save the record before outage and return to normal operation mode.

5.2 MOUSE

In addition to front panel keys and remote control menu, the user can use mouse for menu functions. Insert mouse with USB interface into machine panel.

Click Left Button

If the user does not log in, password box will pop up first; click the left mouse button to enter the main menu when real-time monitoring.

Left click mouse the Options icon enter the menu.

Exact Instructions on control

Change the state of check box and dynamic detection block.

Click the combo box drop-down list will pop up.

Under 3D PTZ control mode, click the mouse and drag to lower right can achieve 3D PTZ control .drag from lower right to up left, make 3D PTZ control narrow, details refer to 4.1.2 PTZ.

Double Click Left Button

Select and confirm or open, for example, double-click playback video.

Under multi-screen double click one channel can make the picture full screen; double-click again to return to the previous multi-screen.

Click Right Button

Pop-up context menu under monitor screen Exit without saving under menu interface.

Turning Wheel

Increase or decrease value when fill digital box Switch combo box options.

Flip up and down for list box.

Achieve PTZ 3D zoom function.

Mouse Move

Select controls in current coordinates to move.

Mouse Drag

Select motion detection area.

Set up regional coverage area.

Select 3D PTZ zoom function.

5.3 INPUT METHOD

In the input box, choose numbers, symbols, case in English input. Click left mouse button to select value; ←means backspace, _ means a space.

Letter Input Interface

ABCDEFG	abcdefg
HIJKLMN	hijklmn
OPQRSTL	opqrstu
$U V W X Y Z \leftarrow$	u v w x y z ←

DIAGRAM 5-2 LETTER INPUT INTERFACE

Number Input Interface



DIAGRAM 5-3 NUMBER INPUT INTERFACE

Special Symbols Input Interface

1	/	2	:	3	
4	?	5		6	
7	@	8	#	9	%
0	&				←]

DIAGRAM 5-4.SPECIAL SYMBOLS INPUT INTERFACE

Chinese Input Interface



DIAGRAM 5-5.CHINESE INPUT INTERFACES.

5.4 REMOTE CONTROL

NVR remote control schematic diagram is as follows (the default is not equipped with remote control, need to customize)

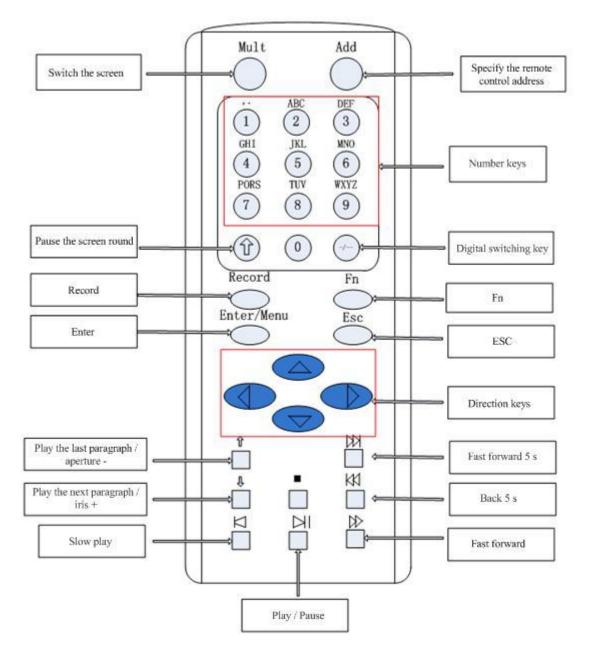


Diagram 5-6

Name	Icon	Function
Switch the screen	Mult	Switch the screen

Specify the remote control address	Add	Specify the remote control address
		1.Enter number (Digital input state)
Number keys	0~9	2.Enter text (Text input state)
		3.Switch screen (single-screen state)
Pause the screen round		Pause the screen round (screen round state)
Digital switching key	_/	Enter the number above 10: press 10 at first, then press this key and the unit digit key
Record	Record	1. Bring up the video control menu in real-time monitoring state;
		2. Enter the preset point setting in PTZ control menu
		1. Bring up the function menu in single-scr een monitoring state (PTZ control, image color)
	Fn	2. Set the screen region as dynamic detection with arrow keys
Fn		3. Backspace function: delete a character before the caret in i nput state (it's for input method switching if there's no shift key on the front panel), press 1.5s to clear all the characters
		4. Switch the full-screen in playback state
		1. Enter operation;
Enter	Menu/Menu	2. Skip to <ok> option;</ok>
		3. Bring up the main menu in

		real-time monitoring state	
ESC	Esc	Exit to the previous menu	
Direction keys		 PTZ direction control; Change numbers in digital inpubox; Change selection states in selection box; Forward space and backspace in text input box; Move the slider in slider control box; Select the last and next channel in playback window; Switch the screen in real-time view state 	
		 PTZ direction control; Switch the currently active control; Switch channels in real-time monitoring state 	
Play the last paragraph / aperture -	Ŷ	 play the last paragraph video; PTZ control: aperture- 	
Play the next paragraph / iris +	Û	 Play the next paragraph video; PTZ control: aperture+ 	
Fast forward 5 s	K	video playback fast forward 5s	
Back 5 s	K	video playback back 5s	
Slow play		Control the speed of video playback show play	
Fast forward		Control the speed of video playback fast forward	
	25		

Stop		Stop the video
		1.Play when the video playback
Play / Pause	\bowtie	2.Play when the video paused
		Bring up the video query menu in real-time monitoring state

The procedure s of controlling multiple NVR by remote control :

The NVR ID default is 8. It's no need to reset it when control one single NVR by the remote control. If you need to control multiple NVR

Do the following:

First activate the remote control: choose controlled NVR, starts successfully, aim the remote control to control the hard disk video recorder, press the "Add" button, input device ID) between (1-999), then press ENTER to determine can control the corresponding number of hard disk video recorder.

5.5 ICON

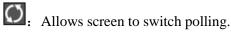
5.5.1 STATUS ICONS

• Record

? : Video loss

5. Motion detection

• Channel lock



5.5.2 OPERATION ICON



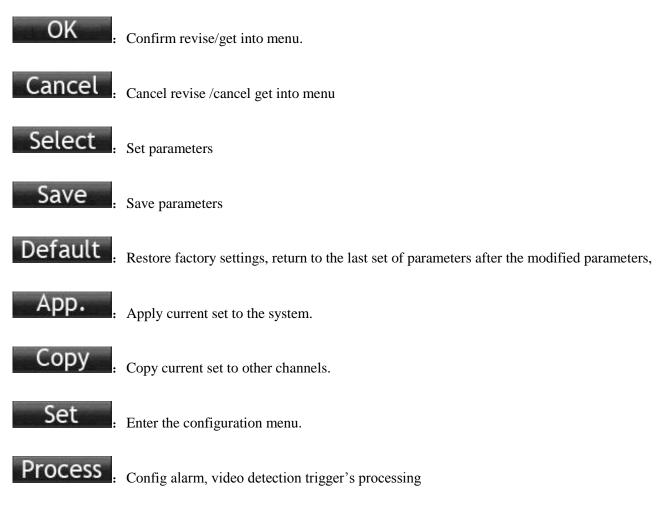
: Not Selected



Selected



Down Menu



5.6 LIVE VIEW

5.6.1 LIVE VIEW

Power on NVR and entry into live view mode. Click the right mouse button after booting into the real-time browser interface, action menu pop-up.



Diagram 5-7

5.6.2 SYSTEM LOGIN

Lift click or right click choose 【Main Menu】 can login in the system. Input the username and password (Default User Name: admin, Default Password:)

System Login					
	admin	V			
Password					
ОК	Cancel				

Diagram 5-8

5.7 CHANNEL MODE

Hybrid NVR have 2 mode, hybrid mode support analog camera and IP camera, NVR mode just support IP camera.

```
Enter [ SYSTEM ] - [ Channel Mode ], choose the mode you need.
```

ō	BASICAL	
System Time DST	2014 - 04 - 08 20 : 16 : 27	
Date Format	YYYY MM DD	
Date Separator		
Time Format	24-HOUR	
Time Zone	GMT+08:00	
Language	ENGLISH	
DVR No.	8	2
Video Standard	PAL v	
Auto Logout	10 min.	
Channel Mode	Set	
	Default OK Cancel Aj	op.

	Chanr	nel Mode
1 Loc	al Net	Decoder Ability
1 🔽 0	4	4xD1 / 4x720P / 4x1080P
		OK Cancel

Diagram 5-10

Enter [Main menu] - [VIDEO] - [Net Channel],

(Protocol Type **)** Choose IPC or the protocol your

[Remote IP **]** Put in the IP address of the IP camera

Diagram 5-9

Choose the channel mode, save and reboot the NVR.

5.8 IP CAMERA MANAGE

5.8.1 ADD IP CAMERA

2.	VIDEO	
Basic Enco	ding Snapshot	Net Channel
Channels	1 - NET	OPEN Search
Protocol Type	IPC	
Remote IP	192.168.1.57	
Port	80	
UserName	admin	
Password	•••••	
Remote Detect	Detect	
Remote Channel	1	
Co	py Default O	K Cancel App.

[User Name] Put in the user name of the IP camera

[Password **]** Put in the password of the IP camera

[Remote Detect] After put in the setting of IP camera, click [Detect], NVR will connect it.

	Search Device								
16	IP		Port	Protocol	Device	Туре			
1	192.168.	40.102	80	IPC	NVT				
2	192.168.	40.103	80	IPC	NVT				
3	192.168.	40.104	80	IPC	NVT		=		
4	192.168.	40.105	80	IPC	NVT				
5	192.168.	40.106	80	IPC	NVT				
6	192.168.	40.108	80	IPC	NVT				
7	192.168.	40.109	80	IPC	NVT				
8	192.168.	40.110	80	IPC	NVT				
9	192.168.	40.112	80	IPC	NVT				
10	192.168.	40.113	80	IPC	NVT				
4.4	400 400	1411		100	NN CT				
		Modify Addr	ess IPC			 Searce 	h		

Search

choose [OPEN]

camera support

[Channels] Choose the channel

[Port] Put in the port of the IP camera

Click **(**Search **)** to open **(**Search Device **)** window, use the protocol you choose to search the device list.IP camera need in same local network.

Double click the device will add it, and return to the 【Net Channel】.Put in this IP camera's

username and password, click [Save].

5.8.2 NETWORK STATE

NET Channel									
Chn NO.	Network State	Resolution	Frames	Bitrate(Kbps)					
1	OK	1920 imes 1080	25	3105					
2	ОК	1920 imes 1080	25	3352					
3	ОК	1920 imes 1080	25	6913					
4	ОК	1920 imes 1080	25	7074					

After add IP camera and connected succeed, the camera can be view and control.Right click in live view window choose 【NET Channel】, you can check the network state.

5.9 PTZ

When you connect IP PTZ camera, right click in its live view channel, choose **(**P/T/Z**)** can control the PTZ function.

When connect analog PTZ camera , Main Menu - PTZ setting PTZ protocol, address, baud rate and others, then choose its channel and control the PTZ function.

	P	P/T/Z			
	😑 Zoo	om 🕣	No	1	
	😑 Foc	us 🕣		Preset	
	😑 Iri:	s 🕣		Tour	
Speed 5	💡 🗇	C 🛊		attern	

Click 🔹 to enter PTZ setup window.



5. 9. 1 PTZ CONTROL

From PTZ control menu, set direction step length, zoom, focus, iris, advanced features, auxiliary features, camera settings.

Step size : Controls PTZ direction and speed, e.g. step size 8 is moved faster than step size 1. (Range 1-8, 8 is max value)

Click and Click com, focus and IRIS to modify zoom, focus and brightness.

Eight direction rotations: up, down, right, left, upleft, upright, lower left, lower right.(Front panel just 4 direction)

 \triangle Note: If not support the function will display gray.

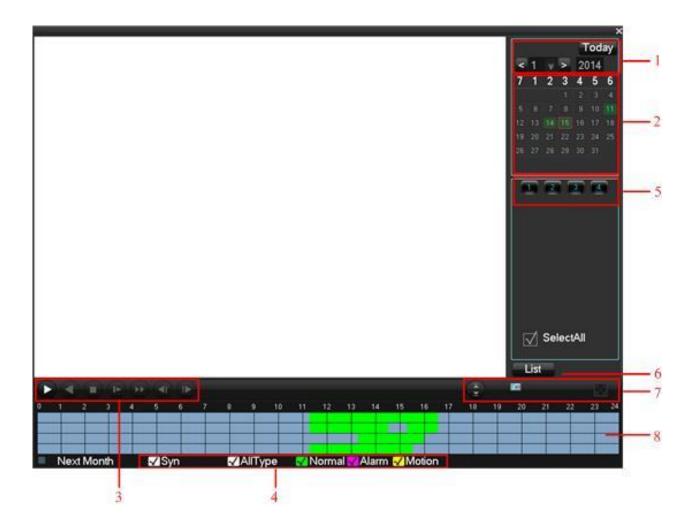
5.9.2 QUICK LOCATION

Quick location: <SIT>in the middle of the direction arrows, make sure the protocol support this function, only mouse control. Click any point, PTZ will turn to it and move it to the centre of screen

Mouse drag on quick location page, support $4 \sim 16$ times variation, drag from top left to bottom right to zoom in box , drag from bottom right to top left for zoom out box .

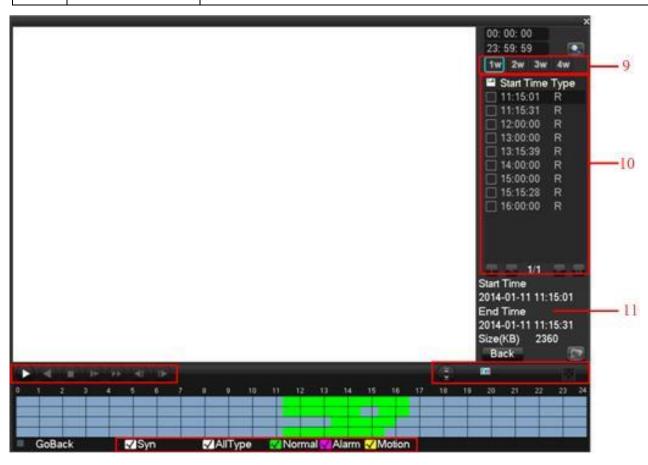
5.10 PLAYBACK

In real-time monitoring screen, click the right mouse button, click 【Search】, or enter video playback via main menu interface, as shown in 错误! 未找到引用源。.



Index	Туре	Description
1	Year/Month	Choose the year and month you want search
2	Calendar	Click the calendar icon to show the record list (only the dates with green background take records.) and then click a specific date to call the record. The list will be upgraded automatically.
3	Play	Playback control: stop/play, pause, fast, slow, previous/next frame in pause.
4	Recoding Mode	Choose searched recording mode, including whole, outside alarm, motive detection, whole alarm recording.
5	Channel	Choose searched channel
6	File	Click this button to switch to the video file list page
7	Play Control	Full screen, Loop Playback
8	Time Bars	Show the 24 hours time bars of the day, green means have video, black

		means no video. Use mouse to choose the time you want playback, use mouse roller can control the time bar.
9	Channel	Choose the channel to search the video files
10	Video Files	Video records shows in searching list choose file and press enter or double click mouse to view record.File type: R—normal record, A—alarm record; M—motion detection record.
11	Backup	Choose the files you want backup " $$ ", click $$, backup the file to the USB disk.



5.11 RECORD

In live view screen, click on 【Manual Record】, or press the 【video】 key on remote control into manual recording interface, as shown in 错误! 未找到引用源。.

									_
Record Mode	All	1	2	3	4	5	6	7	8
Schedule		\square	Ø	Ø	Ø	Ø	Ø	Ø	Ø
Manual									
Stop									

[Manual] The highest priority, no matter what the current status of each channel, the corresponding channels will make common recording when press "Manual" button;

[Schedule] Record according to recording type in recoding set. (Common motion Detection and alarm);

[Stop **]** Stop all channel recording.

To change record status of one channel, firstly check the recording status of the channel is selected non-selected indicates that the channel is not recording; selected indicates the channel in recording mode). Then use mouse to click, or use $\{ \blacktriangleleft \}$ or $\{ \triangleright \}$ arrow keys move the active box to the channel, then use $\{ \blacktriangle \}$ or $\{ \lor \}$ arrow keys or corresponding number key to switch the channel recording status.

5.12 ALARM

5.12.1 ALARM OUTPUT

Alarm Type	All	1						
Schedule								
Manual								
Stop								
Status		OFF						
ОК		Cancel						

In live view screen, click on 【Alarm output】 or enter the 【Main Menu】 - 【ALARM】 -【Alarm Out】.

【Auto】 alarm output is determined by the alarm output menu, while in auto mode.

[Manual] alarm output is on and the status is active.

【Close】 alarm output is off and the status is inactive.

[Status] current status of alarm output

5.12.2 ALARM MESSAGE

Click **[**Show Message**]**, when alarm the interface show message.

Alarm Status						
Alarm In Video Lost (Mask (Motion (Net Channel (Network [IP Conflict (12345678 1234 1234 1234 1234					

5.13 DISPLAY

Adjust the specified screen (single screen) image color hue, brightness, contrast, saturation, gain and white-level parameters set two time periods according to the local environment difference between day and night for each adjustment period set, the device will automatically switch to the best video quality.

Color Setting									
Period	\checkmark	00:00	0 - 24 : 00			00:00-24	: 00		
Hue				50				50	
Brightness				75				50	
Contrast				75				50	
Saturation				59				50	
	D	əfault	ОК	Can	cel	Арр.			
	De	efault	OK	Can	cel	Арр.			

【Period】 Two periods can be set according to ambient light during the day and night, device will automatically switch configuration time. Need to select the Enable box.

[Hue] Adjust according to image color cast

(Brightness **)**Visual image brightness, according to the environment, reduces or increases the

brightness of the image brightness to make the image relatively clear.

[Contrast] Adjust image of black and white in proportion, the greater ratio, the brighter image.

[Saturation] Image color purity, the greater value, the more colorful images.

▲ Note: Different mode different function

5.14 MY E-VIDEO

Enter [Main Menu] - [NETWORK] - [Net Apply] - [DDNS], DDNS type select MY E-Video.

Enable , then use mobile APP"SmartHD P2P" scan the QR Code.

DDNS						
DDNS Type	MY E-Video	🚽 🗹 Enable				
Domain Name	11ae79.dvripc.net					
User Name	11ae79					
Password	•••••					
Server IP	www.dvripc.net					
Port	80					
	OK Cancel	Арр.				

6 OPERATION

6.1 MAIN MENU INTRODUCTION

The main menu as shown, there are search, video, record, network, P/T/Z, alarm, system and shutdown.



[Search] Search recoding by type, channel, time and playback.

[Video] Basic, encoding, snapshot and net channel.

[Network] Basic, advanced, net apply.

[P/T/Z**]** PTZ function setup.

[Alarm] Detect, alarm input, alarm output.

[System] Basic, display, storage, abnormity, status, maintain, account and RS232.

[Shutdown] Menu logout, shutdown, restart system.

6.2 VIDEO

Basic, encoding, snapshot and net channel.

6.2.1 BASIC

4		VIDEO	
Basic	Encoding	Snapshot	Net Channel
Channel Channel Channel Time Dis Time Syn Video Co	Name Display play nchronization √	1 - NET Cam 01 Set Set	nitor Set Area
	Сору	Default OK	Cancel App.

[Channel] The channel selection

[Channel Name] : Set and modify channel name

【Channel Display】 Set the channel title in the image on the display position

[Time Display]Set the time in the image on the display position

[Time Synchronization] Set net channel time synchronization with NVR time

[Video Cover] 4 zones preview and display protect, privacy zone can adjust area.

6.2.2 ENCODING

7		VIDEO			
		0.020			
Basic	Encoding	Snap	oshot	Net Channe	
Channel		1 - NET			
Compres	sion	H.264		Minor Strea	im1⊤
Resolutio	n	1080P		640 * 360	
Frame R	ate(FPS)	25		15	
Bit Rate 0	Control	CBR		CBR	
Quality		Best		Best	
Bit Rate(h	<b s)<="" th=""><th>Customi: 🔻</th><th>8192</th><th>Customi: 🔻</th><th>512</th>	Customi: 🔻	8192	Customi: 🔻	512
	Refresh	Default	ОК	Cancel	Арр.

[Channel] The channel selection

[Compression] H.264

【Resolution】 main stream options are D1/CIF, frame rate scope is different depending on channel and resolution. Vice stream support D1/CIF. Main st ream parameters are selectable

[FPS] PAL: 1fps-25fps; NTSC: 1fps-30fps

【Bit Rate Control】 Constant Bit rate or Variable Bit rates. Bit rate can be settled in Constant Bit rate. There are 6 levels of image quality in Variable Bit rate, 6 is the best but it is fixed in Constant Bit rate.

[Audio] Enable or disable the recording of video and audio per channel.

6.2.3 SNAPSHOT

Z	VIDEO	
Basic Encoding	Snapshot	Net Channel
Channel		
Channel	1 - NET	
Mode	Trigger	
Image Size	1080P	
Image Quality	Normal	
Snapshot Frequency	2 SPL	
Сору	Default OK	Cancel App.

[Channel] The channel selection

(Snapshot Mode **)** Trigger capture, capture picture when alarming.

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[Picture Size] D1, CIF capture

[Picture Quality] 6levels

[Snapshot Rate] set highest capture rate for single channel,1s/pc 2s/pc 3s/pc 4s/pc 5s/pc 6s/pc 7s/pc 8s/pc

6.2.4 NET CHANNEL

Basic Encoding Snapshot Net Channel Channels 1 - NET OPEN Search Protocol Type IPC OPEN Search Protocol Type IPC IPC IPC Remote IP 192.168.40.119 IPC IPC Port 80 IPC IPC UserName admin IPC IPC Remote Detect Detect IPC IPC Copy Default OK Cancel App. Search Device	2	VIDEO					
Channels 1 - NET OPEN Search Protocol Type IPC Remote IP 192.163.40.119 Port 80 UserName admin Password eeeee Remote Detect Detect Remote Channel 1 Copy Default OK Cancel App. Search Device							
Protocol Type IPC Remote IP 192.163.40.119 Port 80 UserName admin Password eeeee Remote Detect Detect Remote Channel 1 Copy Default OK Cancel App. Search Device	Basic Enco	oding Snapshot Net Channel					
Protocol Type IPC Remote IP 192.168.40.119 Port 80 UserName admin Password eeeee Remote Detect Detect Remote Channel 1 Copy Default OK Cancel App. Search Device							
Remote IP 192.168.40.119 Port 80 UserName admin Password eeeee Remote Detect Detect Remote Channel 1 Copy Default OK Cancel App. Search Device Search Device Search Device	Channels	1 - NET 🗸 🗹 OPEN Search					
Port 80 UserName admin Password eeeee Remote Detect Detect Remote Channel 1 Copy Default OK Cancel App.	Protocol Type	IPC 🔹					
UserName admin Password Remote Detect Remote Channel Copy Default OK Cancel App. Search Device	Remote IP	192.168.40.119					
Password Penote Detect Remote Channel 1 Copy Default OK Cancel App. Search Device	Port	80					
Remote Detect Remote Channel 1 Copy Default OK Cancel App. Search Device	UserName	admin					
Remote Channel 1 Copy Default OK Cancel App. Search Device	Password	•••••					
Copy Default OK Cancel App. Search Device	Remote Detect	Detect					
Search Device	Remote Channel	1 🔹					
Search Device							
Search Device							
	Co	ppy Default OK Cancel App.					
		Search Device					
16 IP Port Protocol Device Type							
	16 IP	Port Protocol Device Type					

	16	IP		Pon	Protocol	Device	туре	
	1	192.168.	.40.102	80	IPC	NVT		
	2	192.168.	.40.103	80	IPC	NVT		
	3	192.168.	.40.104	80	IPC	NVT		=
	4	192.168.	.40.105	80	IPC	NVT		
	5	192.168.	.40.106	80	IPC	NVT		
	6	192.168.	.40.108	80	IPC	NVT		
		192.168.	.40.109	80	IPC	NVT		
	8	192.168.	.40.110	80	IPC	NVT		
	9	192.168.	.40.112	80	IPC	NVT		
	10	192.168.	.40.113	80	IPC	NVT		
	4.4	400 400	10.441	~~	100	KIN CT		
Γ			Modify Addres	s IPC			Searc	h

Select **(OPEN)**

[Channel] Select local channel number [Protocol] Select the protocol according to the type of IP camera [Device IP] input the IPC IP address; **[**Port **]** input the IPC port; [User name] input the IPC user name; [Password] input the IPC password; [Equipment Testing] input the above parameters, click the Detect button, the device will connect the IPC and return the connection status. Search function: Click the Detect button to enter the search function interface. Select the appropriate protocol type, it will begin search and return the result as shown. IPC and the device must be in the same LAN. Double-click the search result, it will add the device automatically and return to the network channel configuration interface. Input the IP Camera user

6.3 RECORD

6.3.1 BASIC

	RECORD	
Basic Record Plan		
Record Mode Record Expiration Time Record Packed Time	Setting 0 60	Day Minute
HDD Full	Loop Coverage	
Channel Record Redundancy	1	
PreRecord	4	Second
Сору	Default OK C	ancel App.

【Record Expiation Time】 0-365 Day
【Record Packed Time】 5-120 Minute

[Record Mode] Schedule, manual, stop

name, password, and click Save and exit.

- [HDD Full] Stop or loop coverage
- [Channel] The channel selection

【Record Redundancy】 On/ Off

[Prerecord] 0-30 Second

6.3.2 RECORD PLAN

*		REC	ORD		
Basic	Record P	lan			
Channel	1 - NET	-			
		6 1:	2 18	24	
Sun					et
Mon					Set
Tue					Set
Wed					Set
Thu				s	Set
Fri				s	Set
Sat				s	iet
	Regula	ar 📕 MD	Alarm		
	Сору	Defau	lt OK	Cancel	Арр.
			'lan		
Record Typ	e		Regular	MD	Alarm
	e 0:00-24:(MD	Alarm
Period 1 0		00		MD	Alarm
Period 1 0 Period 2 0	0:00-24:0	00		MD	Alarm
Period 1 0 Period 2 0 Period 3 0	0 : 00 - 24 : (0 : 00 - 24 : (00 00 00		• MD	Alarm
Period 1 0 Period 2 0 Period 3 0 Period 4 0	0 : 00 - 24 : 0 0 : 00 - 24 : 0 0 : 00 - 24 : 0			• MD	Alarm
Period 1 0 Period 2 0 Period 3 0 Period 4 0 Period 5 0	0 : 00 - 24 : 0 0 : 00 - 24 : 0 0 : 00 - 24 : 0 0 : 00 - 24 : 0	00 00 00 00			Alarm
Period 1 0 Period 2 0 Period 3 0 Period 4 0 Period 5 0 Period 6 0	0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0	00 00 00 00			Alarm
Period 1 0 Period 2 0 Period 3 0 Period 4 0 Period 5 0	0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0	00 00 00 00 00			Alarm
Period 1 0 Period 2 0 Period 3 0 Period 4 0 Period 5 0 Period 6 0	0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 1 0:00-24:0	00 00 00 00 00	Regular		Alarm
Period 1 0 Period 2 0 Period 3 0 Period 4 0 Period 5 0 Period 6 0 Period 6 0	0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 0:00-24:0 1 0:00-24:0	00 00 00 00 00 00 Tue	Regular		Alarm

【Channel】: To select channel. Green, yellow and red refer to the normal, MD and alarm recording type. Modify it in 【Edit】.

[Copy **]** copy one channel's configuration to other

【Edit】edit plan interface 错误! 未找到引用源。:

【Time 】 recording time, 6 recording time zone can be set every day

[Normal] for normal record

[Moving Detection] For Moving detection

[Alarm] For alarm record

6.4 NETWORK

6.4.1 BASIC

Ţ		NE	T١	NOF	٩K						
Base	Advanced		٢	Jet /	٩	oly					
Network	Card Type	LAN									
DHCP											
IP Addre	ss	192		168		1		88			
Subnet N	lask	255	. :	255		255		0			
Gateway		192		168		1		1			
First DNS	Server	8		8		8		8			
Alternate	DNS Server	8		8		4		4			
Physical	Address	e0:61	l:b2	2:11:	ae	:79					
		De	efau	ult		Ok	(Cá	ancel	Ap	p.

[Network Card Type] LAN

【DHCP **】** Enable the NVR to obtain an IP address automatically . If this is enabled, the NVR will reboot and search for a DHCP server, and then assign a dynamic IP address. The dynamic IP address will be displayed in the menu. Enter a static IP address if there is no DHCP service available . If you are using the advanced feature 39 PPPoE, then the IP/mask/gateway and DHCP are unable to be changed.

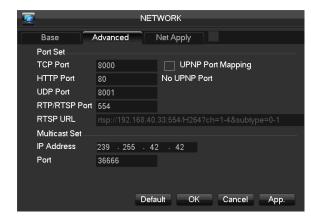
[IP Address] use(\checkmark) or input numbers to modify IP, and then set [subnet mask] and [Gateway] for this IP.

[First DNS Server] DNS server IP

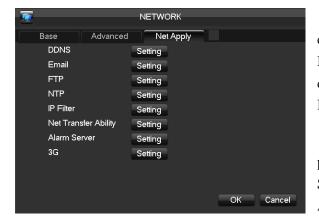
【Alternate DNS Server】 DNS alternate IP

[Physical Address] physical address of current net port

6.4.2 ADVANCED



6.4.3 NET APPLY



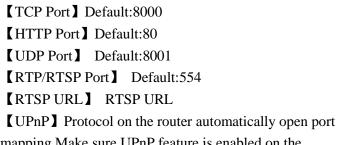
support 3 Receive Addresses and SSL Encryption Mailbox.

【FTP 】: Tick "FTP" and click "Set"

Set FTP server IP address, port and destination folder. System will create folders by IP, time and channel if there is no remote folder specified.

FTP username and password

Set a maximum file size, channel, time, type and etc.



mapping.Make sure UPnP feature is enabled on the router.

[Multicast Set] Tick "Multicast" and set a grpup in "set", IP should be limited as follow picture, port no limit.

【DDNS】 Select DDNS type supports various DDNS currently and enable the function; input the update server IP, port, DNS, username and password. Once setup, you can then login via the Web client by using this DNS in Internet Explorer.

【Email】 Set the sender mailbox SMTP server IP address, port, username, password and sender's mailbox, mail SSL Encryption.Email title support Chinese, English and Arabic numeral s input, Max input 32 characters. Max Set FTP file length. Upload the whole record if the file length is smaller than setting; leave out the exceed part if the file length is exceed the setting; 0 refers to uploading the entire record in any condition.

Set up to two time periods and choose from 3 different record types for channels.

[NTP] on/off NTP. Network Time Protocol – allows the DV R to sync with SNTP time server automatically.

Host IP: input IP of NTP server

Port: This SNTP support TCP only, the unique port is 123.

Update cycle: time interval between 1 min and 65535 min.

【IP Filter 】 NVR authority management, if you enable the white list, only the NVR in IP list is allowed to connect. This system supports a max of 64 IPs.

[Network Transfer Ability]

Max Connect : range: 0-10, 0 indicates that no connections are allowed.

Network Connection NUM: 0-32 should be proper. Need Check first then browse real time video on the network, the number of connections depending on network bandwidth, the greater the number, the greater the network load, the impact of video playback smooth. The automatic setting adjusts these settings based on available network resources.

Speedy online download: 0-8 should be proper.

Network Transmission QOS: Fluency priority or Picture Quality priority or self-adaption according to the setting, the network automatically adjusts the stream.

Speedy online download : if enabled, speed is 1.5-2 times to normal speed.

[Alarm Center] reserved interface

【3G】Configure 3G

6.5 P/T/Z

ò		P/T/Z	
Channel		1 - NET	V
Protocol		Net Protocol	V
Address		1	
Baudrate		9600	V
Data Bits		8	T
Stop Bits		1	T
Parity		None	V
DVR control			
Speed		3	sec.
	Сору	Default OK	Cancel App. 41

Set PTZ channel, protocol, address, baud rate, data bits, stop bits, parity.

If the IP camera can control PTZ function, you don't need change any setting in NVR setting interface.

6.6 ALARM

6.6.1 ALARM INPUT

		ALARM			
Detect	Alarm Input	Alarm Out			
Alarm Inp Enable	out Channel No.	1			
Туре		√ Normal Open			
Process		Setting			
Linkage S	Set	Setting			
Preferences Sta	art Copy	Default	ОК	Cancel	Арр.

Enter the 【Main Menu】 - 【ALARM】 - 【Detect】
【Alarm Input Channel No.】 Select the alarm input channel
【Enable】 The specified alarm in
【Type】 Select the alarm circuit type.
【Process】 Enter alarm process interface

[Linkage Set] enter alarm linkage interface

Motion Detect-Process	Plan
00 03 06 09 12 15 18 21 24 Sun Set Mon Set Tue Set Wed Set	Period 1 00:00-24:00 Period 2 00:00-24:00 Period 3 00:00-24:00 Period 4 00:00-24:00 Period 5 00:00-24:00 Period 6 00:00-24:00
Thu Set Set Set	Select All √ Sun Mon Tue Wed Thu Fri Sat
OK Cancel App.	OK Cancel App.

[Alarm Config Local Alarm Process] Set the alarm Configure for everyday arm time..

	Motion Detect-Linkage Settin	ng
Alarm Out Linkage Record Snapshot PTZ Linkage Tour Send Email Show Message Buzzer	✓ Setting ✓ Setting ✓ Setting ✓ Setting ✓ Setting ✓ Setting ✓ Setting	sec.
	Default OK	Cancel App.

【Linkage】 on/off 【Alarm Out】, 【Linkage Record】, 【Snapshot】, [PTZ Linkage], [Tour], [Send Email], [Show Message], [Buzzer].

6.6.2 DETECT

MOTION DETECT

Detect video motion and alarm



[Preview] Motion preview

[Linkage Set] Enter motion linkage interface.

VIDEO LOST

Detect video lost and alarm

[Preview] With alarm input

[Linkage Set] With alarm input

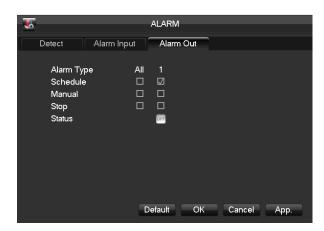
VIDEO BLIND

Detect video blind and alarm

[Preview] With alarm input

[Linkage Set] With alarm input

6.6.3 ALARM OUTPUT



[Channel] Select the motion detect channel

【Alarm type】 Select the motion detect type: motion detect, video lost, video blind.

[Sensitivity] 6 grades

[Set Areas] 22*18=396 zones mask

【Alarm Type】 Alarm port number.

【Auto】 Alarm output is determined by the alarm output menu, while in auto mode.

[Manual] Alarm output is on and the status is active.

[Close] Alarm output is off and the status is inactive.

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[Status] Current status of alarm output

6.7 SYSTEM

Get into system configuration:

6.7.1 BASCAL

		BASICAL		
-\$		BROIDRE		
	System Time DST	2014 - 04 - 08	20:16:27	
C)ate Format	YYYY MM DD		
C	ate Separator			
т	Time Format	24-HOUR		
т	īme Zone	GMT+08:00		
L	anguage	ENGLISH		
C	VR No.	8		
V	/ideo Standard	PAL		
A	Auto Logout	10	min.	
c	Channel Mode	Set		
		Default	OK Cance	I App.

【Time Format 】 24 hr or 12 hr display mode.

[Time Zone] Users according to their own time zone.

[Language] Language selections vary by different model

[NVR No.] Number more than one NVR, click "Ad" button on r emote control and input a number to select the corresponding NVR to operate.

[Video Standard] Standard: PAL/NTSC (match camera model).

【Auto Logout】 This ranges from 0-60 minutes. 0 means no setting. NVR will automatically let user quit after standby time's vacancy.

[Channel Mode] Local, Net, Decoder ability

[System Time **]** Set the current time

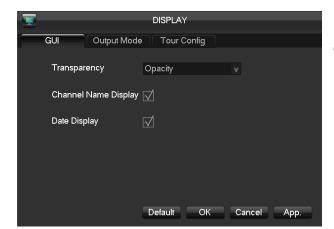
(DST **)** Daylight saving time, click "DST" to enable the function, and enter the local DST starting and end time.

【Date Format】 To modify the date display format.

[Date Separator **]** To select the separator for date.

6.7.2 DISPLAY

GUI



【Transparency】 total 4 grades:
Translucent,Translucent,Sub Translucent,Opacity
【Channel Name Display】 Channel Neme Display
【Date Display】 Date Display

OUTPUT MODE

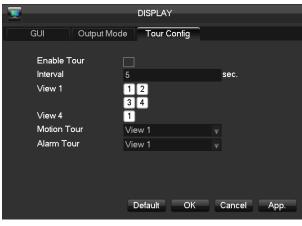
	DISPLAY			DISPLAY	
GUI Output Mod	e Tour Config		GUI Output Mod	le Tour Config	
Output Port	CVBS	v	Output Port	VGA	
Hue		50	Hue	—	50
Brightness		68	Brightness		50
Contrast		45	Contrast		50
Saturation		50	Saturation		50
Тор		0	Resolution	1024×768 @60HZ	
Bottom		0			
Left		0			
Right		0			
	Default OK	Cancel App.		Default OK	Cancel App.

[Output Port] CVBS or VGA.Choose CVBS, set monitor hue, brightness, contrast, saturation, and move the dosplay top, bottom, left, right of monitor. Choose VGA, set monitor hue, brightness, contrast, saturation.

[Resolution] 1280×720@60Hz 1024×768@60Hz、1280×1024@60Hz、1920*1080@60Hz 4 kinds, default is 1024×768@60Hz

[Output Range] FULL-RANGE, LIMITED-RANGE

TOUR CONFIG



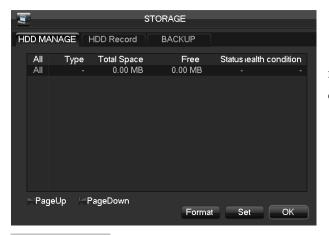
Setting tour mode and interval between rotation, the time is within 5-120s, the mode include single screen, four-, eight-, nine-, sixteen-screen.

[Motion Tour Type]: to set the motion detection tour mode

[Alarm Tour Type]: to set the alarm tour mode

6.7.3 STORAGE

HDD MANAGE



Show the HDD type, total space, fress space and status.

[Format] it is possible to format an individual HDD.

【Set】 to set HDD as read-write, read only or redundancy mode. In read only mode, video data cannot be covered.

HDD RECORD



Record menu, as 错误! 未找到引用源。, shows start-stop time.

BACKUP

Connect an External USB device with the USB port to backup in the "Record Backup" menu



[Detect]: Identify external USB device and display the device information.

[Backup **]**: tick the external device and click **[**Backup **]** to enter the backup menu

o enter the backup menu

[Delete] delete all data in USB backup device

Select the record start-stop time and click [Add] to add in list; duplicate it by inputting the start-stop time again; click [Delete] to clear the files list.

Tick the record you want and click [Start] to backup and display time remaining.

6.7.4 ABNORMITY



[No Disk] alarm when HDD is not present or can not be detected.

[Process Mode] includes: [Alarm Output], [Display On Screen], [Buzzing] and [Send Email].

【Disk No Space】 alarm when hard disk capacity is lower than setting.

【Process Mode】 is same as 【No Disk】's 【Process Mode】

[Network Failure] alarm when network is not connected.

[Process Mode] includes [Alarm Output], [Display On Screen] and [Send Email] and recording linkage, snapshot linkage.

【IP Conflict】 alarm when IP address conflict.

[Process Mode] is same as [No Disk] 's [Process Mode]

(Disk Error **)** alarm when there is error in reading and writing hard disk.

[Process Mode] is same as [No Disk]'s [Process Mode]

[Net Channel Disconnect] alarm when net channel disconnect.

[Process Mode] is same as [No Disk] 's [Process Mode]

6.7.5 STATUE

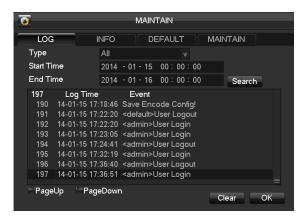
[On-line Users] check the current online user's status.

(BPS) shows video's size, data rate of each channel by wave form.

6.7.6 MAINTAIN

LOG

Display system log information.



Select the type and time press the Find, the system will display the log in tabular form, you can also click the backup button to export the log backup to your computer.

Log type: system operation; configuration; data management; alarm event; recording; user management; log delete; document operation. Select the type and time to filter the log list.

Click "delete" to delete all logs.

INFO

	MAIN	TAIN	
LOG	INFO DE	EFAULT	MAINTAIN
Equipment Name	AAAA	Serial No.	000000000000000000000000000000000000000
Product Type		Build Date	2014-01-09
System	3.1.0.0	Web	2.6.7.15
Video In	0	Audio In	0
Alarm In	4	Alarm Out	1
Upgrade			
If you need to upg			
disk,then press the			
Start			
	Defaul	t OK	Cancel App.

DEFAULT

[default] restore (items are selectable)

【Info】 Equipment name, serial No., product type, build date, system, web and so on.

【Upgrade】: Connect a USB flash device which contains the upgrade firmware and click "Upgrade".

 $\sum_{Note:}$ upgrade may cause the startup failure. Please operate under professional direction.

MAINTAIN

【Auto Maintain System】 set auto maintenance items.

6.7.7 ACCOUNT



Group and user names can be from 1-6 characters in length. Valid characters include letter, numbers, and limited symbols: underline, subtraction sign, dot, you may not use a space as a leading or ending character.

There is no limit to the number of groups or users. By default there are two different group levels: admin and user.

User management determined upon two levels: the group and the user level.

Group and user names cannot be duplicated, and each user can only belong to one group.

			A	ACCOUNT				
3 1 2 3	User admin user default		Group admin user user		Status Login Net Normal Default Us	er		
	User Group	Modify U Modify G		Modify Pa	assword		ОК	

 $\mbox{Add}\ \mbox{users}\mbox{]}\ \mbox{add}\ \mbox{group}\ \mbox{member}\ \mbox{information}\ \mbox{and}\ \mbox{set}\ \mbox{authorities}.$

Default users are: "admin", "user" and hidden "default", the password of first two username is 123456. "admin" has advanced authorities; "user" only has surveillance and playback authority.

Hidden default: operate in password-less login mode, cannot delete, NVR login in this name automatically if "no user login", user can revise limits of power then

operate some without login.

Enter [Add users] input username, password and select group and reusable options. Reusable allows the account to be used by multiple logins.

Users can only belong to one group. User rights cannot exceed group rights.

[Modify users] modify existing group member information and authority.

[Add group] add group and set group authorities

Set a group and authorize 60 items including control panel, shut down, live view, playback, record, record backup, PTZ control, account, system information, alarm in /out setting, system config, search log, log delete, upgrade, operation authority, etc.

[Modify group] modify existing group information.

[Modify Password] change password

Select a username input the old password and new password twice.

Click [Save] to confirm

Password can be in 1-6 numbers, letters or symbol; blank in beginning and end is invalid.

The account with management authority could change others' password.

6.7.8 RS232

	RS232	
Function	Console	V
Baudrate	115200	V
Data Bits	8	v
Stop Bits	1	V
Parity	None	T
	Default OK	Cancel App.

【Function】 adjust protocol General port: upgrade and adjust by port and software; Keyboard: keyboard connected by port; Transparent port: transparent transmission of data; Protocol Port: port information overlay need to set this Agreement; Bypassed port: connect with PC to bypass parameters; Net keyboard: keyboard connected by net port;

PTZ matrix: control PTZ matrix

Note: Certain models are without an RS-232 port, please see Specifications.

【Baud Rate】 set baud rate.

【Data Bit】 default: 8

[Stop Bit] default: 1

[Confirm] default is N/A

7 WEB & CLIENT

7.1 WEB OPERATION

7.1.1 NETWORK CONNECTION

Check network connection by LCD on front panel, "Prefers connection error, P Series: Check B-Lamp on front panel, light indicates connection.

Set IP, subnet mask and gateway for computer and NVR. Please assign the same segment IP address without router, need to set the appropriate subnet mask and gateway with router.

The detail of NVR network configuration please see [Configuration] \rightarrow [Network Setting]

Ensure the IP is correct and check whether the NVR is on the network by using the Windows command "ping".

7.1.2 ACTIVE X CONTROL SETUP & LOGIN / LOG OUT

User can remote acces to NVR by Internet Explorer, assuming you have a correct network configuration.

The following interface will popup when you access the IP address in Internet Explorer.

🏉 VSS Web -	Windows Internet Expl	orer					
G -	e http://10.12.1.171/	,		•	🗟 😽 🗙 🔽 Bing		• ۹
🖕 Favorites	🚖 🔁 Suggested S	Sites 👻 🙋 Web Slice Gallery	/ •				
🏉 VSS Web					🏠 🕶 🗟 👻 🚍 🖶		Tools 🔻 🔞 🕶
🥑 To help pr	otect your security, Inte	rnet Explorer stopped this site	e from installing an ActiveX d	ontrol on your comput	Install This Add-on for All Us What's the Risk? Information Bar Help	ers on This Computer	×
				Username: Password:			
🖲 Done				😜 Ir	ternet Protected Mode: Off	<i>4</i> <u>∩</u> ▼	🔍 100% 🔻 💡
1	6 📋 [0				- 📜 🔶	9:26 PM 1/3/2012

Install ActiveX: Right click and choose install. If installation is blocked by Windows, please add the IP as a trusted site or lower your Internet Explorer security settings to allow this.

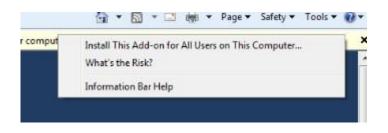


DIAGRAM 0-1 INSTALL CONTROL

The following interface will popup when you input your username, password and click "Login".Interface like Diagram 5-3 Web Interface when user login successfully.Click "Exit" to quit.

After the NVR connect to the network, you can login through IE browser.

If it show like the bellow picture after enter right username and password, please check the IE setting.

College and the			
C S	User Name: admin Password: Login Type: TCP		
 Messa	ge from webpage		
	ActiveX Control is not	registered!	
		ОК	

Open IE explorer, click "Tool" - "Internet Option" - "Security" - "Customized level (C) …", select Enable or Prompt in the options of "ActiveX control and plug-in", and set Safety Level to Low.

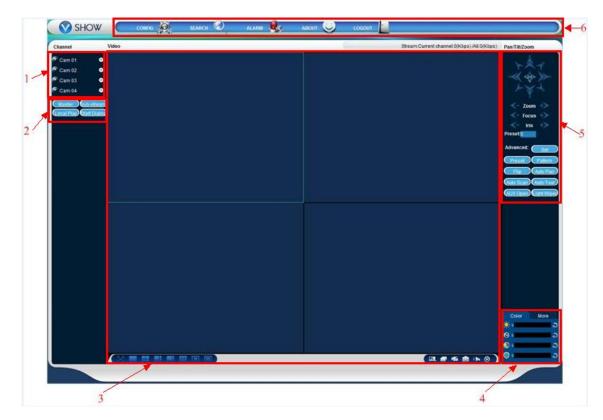


Click install, after install it will work normal.

If use IE8.0 or IE9.0, Please choose compatible mode.

Help		Compatibility View Settings	×
Delete browsing history InPrivate Browsing Tracking Protection ActiveX Filtering Diagnose connection problems Reopen last browsing session	Ctrl+Shift+Del Ctrl+Shift+P	You can add and remove websites to be displayed in Compatibility View. Add this website: 192.168.40.33	Add
Add site to Start menu View downloads	Ctrl+J	Websites you've added to Compatibility View: 192.168.55.100	emove
Pop-up Blocker SmartScreen Filter Manage add-ons	Click this setting	This	must be se
Compatibility View Compatibility View settings Subscribe to this feed			
Feed discovery Windows Update	•	Include updated website lists from Microsoft Display intranet sites in Compatibility View Display intranet sites in Compatibility View	
F12 developer tools		Display all websites in Compatibility View	Close
Internet options			

7.1.3 WEB OPERATION INTERFACE



Index	Name	Description
1	Channel	Channel selection
2	Function key	Local playback: playback local record

		Open all: play live views in surveillance window
3	Surveillance window	Change window layout
4	Image color & other saturation	Image color: modify brightness, contrast and Other: set capture path, record download path and reboot
5	PTZ control	PTZ control menu
6	Menu	System config, record search, alarm setting, exit, etc.

7.1.4 LIVE VIEW

Into the WEB interface, select the focus window in live window, the focus window has a light blue border. From the left channel column select channel, as shown in below.



Click on 2 area in upper right corner can choose open / close the channel of the main stream or secondary stream,

U05	
	Stream Current channel 6609(Kbps) /All 6609(Kbps

shows the current NVR's IP and rate information.

Lower left corner shows the current video channel name.

Upper right corner shows the current video time information.

Click "Clower left corner of the display window) to switch between single screen

and multi-screen.

Lower right corner of the display window is function keys, refer to area zoom, Multi-screen switch ,local record, ,capture and mute/unmute audio.

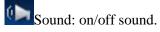


Area zoom: Video images can be enlarged;

Multi-screen switch: switch from single screen to multi-screen and vice versa;

Local record: save and record video to a local HDD while in a live view. Set recording path in configuration;

Capture: capture of the present channel, set the path in "other";



Off video: off the focus window video.

7.2 CLIENT SOFTWARE OPERATION

Please check 《IMS200 User Manual》

8 SMART MOBILE

8.1 IPHONE

8.1.1 INTRODUCTION

This manual mainly describes that how to install and use client monitoring software called IMSeye on the Iphone.

The main functions and features of the client software named MSeye of the Iphone are shown below:

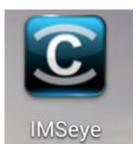
preview live videos;

Recording, snap and push alarm;

PTZ Control.

8.1.2 INTRODUCTION

Run iPhone's App Store program, switch to searching page, click IMSeye in the address bar., then the program install pack will be found and please install that. After installation, the program icon will show as follow:



8.1.3 INTERFACE AND FUNCTION

Click IMSeye icon. After running program, the original interface will be as follows:



8.1.4 SETUP

The first use this APP need add device information. Click play button will enter device list interface, you can add or modify device info.

	Device Detail	Device name: the name is display in your Device list, you
DeviceNa me:	Device 01	can enter anything
Connecti on:	The IP address P2P	Device Address: NVR WAN IP address of DDNS domain
Address:		name
User Name:		Port: TCP port
Password :		Username: your device username
		Password: your device password
0	Cancel	Channels: channels of your device. Manually enter or auto

8.1.5 CHANNEL

Select the appropriate channel number, the program will open the corresponding channel and automatically play the video.

NVR parameters setting reference for cell phone:

Resolution: CIF or QCIF;

frame rate: 5 -10 frame ;

stream type: limited ;

Stream: 64-256Kb/S

Note: The above parameters can be adjusted according to the cell phone 's capability and the network status, if both of them are good, the effect will be better. If net status is not very good, please reduce the frame rate appropriately to keep fluency.

8.2 ANDROID

8.2.1 INTRODUCTION

This user guide is mainly applicable to installation and use of monitor software in Android system mobile phone. Main functions and features of Cell Phone (Android) monitor program:

 \Box Real time video browse function,

- \Box PTZ controlling function (only for PTZ);
- □ Video footagepictures screen shots, push alarm.

Requirement:

Support Android system above 1.5 version, cell phone contains HTC G1, HTC Magic, HTC Hero, HTC G5 etc.

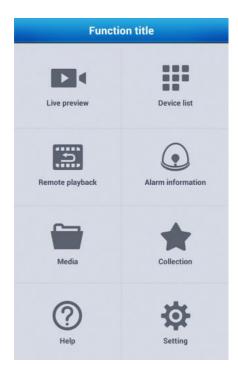
8.2.2 INTRODUCTION

Copy IMSeye.apk install pack to Android cell phone across the data line.

Find IMSeye.apk in the list , press program install.The icon will show as follows after installation:



8.2.2 INTERFACE AND FUNCTION



Click IMSeye + program icon, running the program after the initial interface below: Live Preview:enter the live view interface Device List: add, modify or delete device information Saved Photos: check the photo of snapshot Local Video: check the video in the mobile

8.2.4 SETUP

The first use this APP need add device information. Click play button will enter device list interface, you can add or modify device info.

Device Detail	Device name: the name is display in your Device list,
DeviceNa me: Device 01	you can enter anything
Connecti The IP address P2P on:	Device Address: NVR WAN IP address of DDNS
Address:	domain name
TCP Port:	Port: TCP port
Name: Password	Username: your device username
Ok	60
Cancel	

Password: your device password

Channels: channels of your device. Manually enter or auto

8.2.5 CHANNEL

Select the appropriate channel number, the program will open the corresponding channel and automatically play the video.

NVR parameters setting reference for cell phone:

Resolution: CIF or QCIF;

frame rate: 5 -10 frame ;

stream type: limited ;

Stream: 64-256Kb/S

Note: The above parameters can be adjusted according to the cell phone 's capability and the network status, if both of them are good, the effect will be better. If net status is not very good, please reduce the frame rate appropriately to keep fluency.

9 APPENDIX

9.1 EXTENDED FUCTION

9.1.1 DDNS

MY E-VIDEO

MY E-VIDEO is our DDNS server, when you use MY E-VIDEO, you can remote access NVR

through the internet anytime anywhere, not need to do port forwarding on router.

DDNS								
DDNS Type	MY E-Video	_ √ Enable						
Domain Name	11ae79.dvripc.net							
User Name	11ae79							
Password	•••••							
Server IP								
Port	80							
	OK Cancel	Арр.						

1:DDNS type choose MY E-VIDEO DDNS, enable.

2:The default demain name is the last 6 number of MAC address. When you set the NVR language use Chinese, the domain name is xxxxx.dvripc.cn, when you set the NVR language use English, the domain namer is xxxxx.dvripc.net.

User don't need set the EASTEYE info, just choose enable, and reboot the NVR.

3: Use mobile SmartHD P2P APP to scan QR code.

PORD MAPPING

Port mapping is a kind of NAT address translation, is a process of the public network address translation into private address, provide the corresponding services. When a user access to the port of this IP address, the server will automatically map the request to the corresponding machine inside the LAN.

For example: IP address 192.168.1.88, TCP port 8000, HTTP port 80.

Log in Router, enter into the configuration menu of Router, and set the menu. Then get to port, set the IP distributed by the Embedded NVR, and set the rule of port mapping, add HTTP and TCP port into mapping list.

Default access ports of Embedded NVR include HTTP port 80 and TCP port 8000, if the ports are occupied by the other devices, please modify the default port of the Embedded NVR into other vacant ports.

TEST AND VERIFY DDNS

 Click Operation in the Menu of computer, input "cmd", click "OK" to open a window. As the Diagram: Run Command Line Program shows.

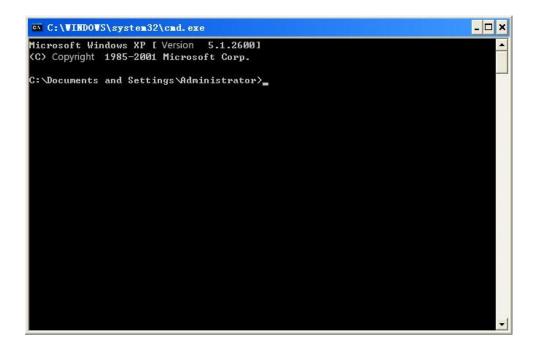


DIAGRAM: RUN COMMAND LINE PROGRAM

2. Input "ping+ Domain name" then presses Enter, as the Diagram : DNS shows.

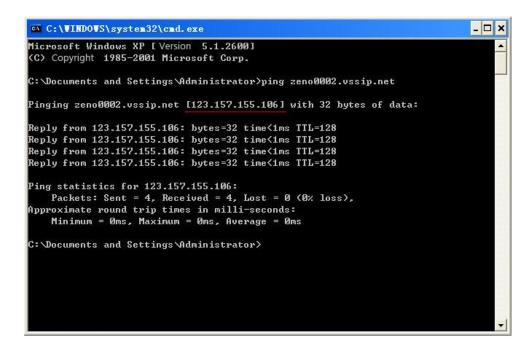


DIAGRAM : DNS

The computer will analyses the domain name configurated in NVR, and return to the current IP, as the picture shows underlined in red. When the IP correspond to the embedded NVR's IP in Public internet, it means the DDNS is setting right. If they are not, please check the network connection of embedded NVR and DDNS information.

3. Input "telnet + Domain name + port" then presses Enter, if there is a black screen, only a cursor in a flash, means the port is mapping success. If not success, please change the 80 to other number, 80 maybe blocked by some network operators.

9.1.2 PTZ

PRESET

[Preset] : Input the wanted preset number which has been recorded. Then click the preset button to call the function.



CRUISING

Cruising **]** : Input the patrol number and click "Cruising" to on the function. The camera will work under the created Cruising path. Right click to hide the menu.

Click the direction key in menu to stop the Cruising.



9.2 COMMON FAULTS

NVR startup failure or continuously reboot

Possible reasons:

- 1. The system has been damaged from a bad NVR update.
- 2. There is a problem with the NVR main board error, please contact supplier.
- 3. There is an HDD error. Replace faulty HDD.

NVR cannot control PTZ

Possible reasons:

- 1. RS-485 cable connection error, A, B ports are inversely connected;
- 2. PTZ decoder, protocol, baud rate, address are incorrect;
- 3. Parallel connect a 120Ω resistance to resolve signal reflex caused by too many PTZs on the line.
- 4. The RS-485 port on NVR is defective

Blurred screen in preview mode

Possible reasons:

Please make sure your cameras match your video format selected in the General menu. E.g. camera is NTSC standard but the NVR is PAL standard, the preview would be blurred.

Blurred screen in playback mode or failure to playback records

Possible reasons:

- 1. Procedure error, reboot the NVR
- 2. HDD error, test or change out the HDD
- 3. NVR hardware failure, contact your local supplier

Can not connect NVR through network

Possible reasons:

- 1. check the physical network connection is correct.
- 2. check the NVR network configuration parameters.
- 3. check whether IP conflicts exist in network.
- 4. check not above 3 reasons, please reset the NVR

Download recording can not be played

Possible reasons:

- 1. Player installation error.
- 2. The USB or HDD device has an error.

Forget password

Please contact technical, he will give a super password, you can use this password login and change password.

If input wrong password 5 times, the NVR will shown"Account has been locked", please use this 2 ways to clear it:

NVR will automatically unlock after half an hour. 1.

2. Cut down the power and restart. (Not suggest do this operation when the NVR use HDD, because it will have a detrimental of HDD.

9.3 REFERENCE OF HDD CAPACITY CALCULATION

The first time install NVR, please check if the HDD has installed.

The capacity of the HDD

There is no limitation of capacity of single HDD to NVR, please choose the HDD according to the Vedios' saving time.

The choose of the Capacity

Computational formula of HDD Capacity:

Whole HDD Capacity = number of the channels \times time in need (hour) \times spent of HDD Capacity per hour (MB/hour)

Similarly we can have the formula of recording time:

TotalHDDCapacity (MB)

Recording time $(hour) = \frac{1}{CapacityOc cupation perHour (MB/hr) \times Amount of Channel}$

Note: 1GB=1000MB, not 1GiB=1024MiB, so HDD capacity shown in Base Configuration under HDD Management less than real marked.

File size per hour (CBR).

Bit Rate	File	Bit Rate	File	Bit Rate	File
96k	42M	320k	140M	896k	393M
128k	56M	384k	168M	1.00M	450M
160k	70M	448k	196M	1.25M	562M
192k	84M	512k	225M	1.50M	675M
224k	98M	640k	281M	1.75M	787M
256k	112M	768k	337M	2.00M	900M

RECORD FILE SIZE

File size is more unpredictable when VBR style, please refer to the real size of recording file.