Embedded NVR (Apply to 4CH/9CH/16CH)

User Manual

Ver 2.0.1

Note

Below is correct use method of products, prevent dangerous and prevent property incur loss contents; please follow the rules when you use the NVR.

Operating Requirements

- ☆ Transport, use and store the product in suitable temperature and humidity, please don't place the product in humid environment.
- ♦ Do not place this product in direct sunlight or near heat generating equipment.
- ♦ Do not install in humid, dusty or fuliginous environment.
- \diamond Do not place this product in any uneven surface to avoid falling off and damage.
- ♦ Install in well-ventilated environment, don't jam the vent hole of device.
- ♦ Keep horizontal installation.
- \diamond Do not place this product near any liquid.
- \diamond Do not place any objects on this product.
- ♦ Please use in reference input or output range.
- \diamond Don't disassemble this product at will.

Statement

- Thank you for choosing our products, if you have any questions or need, please contact the custom department at any time.
- ✤ Products, updated in real time, the contents of manual will be updated from time to time without prior notice. If it is inconsistent with the products, please be on the products basis.
- \diamond Products will be updated from time to time without prior notice.
- ♦ The manual is reference for several models; please operate according to actual product.
- \diamond If there is doubt or dispute in manual, please refer to the final interpretation of the company.
- ♦ If not operate according to the manual, any loss will be undertaken by user.

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Chapter1 Introduction

1.1 Overview

This series of products are functional maturation embedded digital and network video surveillance system, integrated video and audio coder and decoder, embedded system, storage, network and intellectual technology and etc. Support preview, record, backup and transmit copy through network at the same time, control multi-window and multi-task at the same time and playback. The product, developed on Linux system, can enhance highest stability and safety. It has 1 to 8 tubs to satisfy single device's storage requirements and provides HDMI and VGA video output. Use manager client to realize distributed management.

1.2 Product Positioning

This series embedded NVR can widely be used in education, medical treatment, financial, energy and tobacco industry and etc. Education sector mainly faced to key university, key middle school, high-end elementary school, high-end kindergarten and country and city point hospital and research institute, apply to safety schoolyard and electronic examination and etc. Medial treatment mainly apply to safety hospital, remote consultation, intensive care, operation teach project, and etc. Financial mainly faced to government owned bank, other business banks, stock, insure, fund and investment corporation, apply to financial institution business hall, safe-deposit box, vault, ATM machine and passage and etc. Energy and tobacco industry mainly apply to factory, production line, storeroom, dynamic environment, project constructed, dilatation and networked upgrade.

1.3 Main Feature

Add front-end device

Support 720P mega pixel HD IP camera, 960P HD IP camera 1080P HD IP camera. Support search and add all above front-end device.

> Video Preview

High definition 1920*1080, 1440*900, 1366*768, 1280*1024, 1024*768 preview, support HD1080P (1920*1080) //HD960P (1280*960)/HD720P (1280*720) real time preview, support HDMI, VGA output;

Support set up video parameters;

Preview video overlay multiple prompt information, such as channel name, IPC system time, record status, motion detect status and alarm status and etc;

Front-end IP camera PAL video streaming input;

Front-end IP camera audio streaming input;

Support audio and video synchronize composite streaming record, single video streaming record;

Customize set up resolution, code rate and frame rate;

Multiple motion detection;

Overlay channel name ;

Single screen or multiple screens cruise preview;

Record

Support manual, schedule record, alarm record, motion record, motion or alarm, motion and alarm record

types;

Storage

Through sequential storage, HDD write-through and auto sleep to extend HDD service life;

Automatically avoid HDD bad track;

Record data encryption;

HDD high speed format;

Playback

NVR supports 4-channel 1080P real time playback, 32X fast forward and fast backward;

Calendar automatically displays record data status;

Full screen play mode;

Go to next frame play mode;

Audio playback;

Channel name sequential display;

Backup Management

Support USB storage device and etc;

Support multiple file formats backup;

Backstage backup mode to ensure user zero wait;

Backup file can be played in local, file manager supports play peripheral backup file and local hard drive's snapshot picture;

Peripheral backup file can be played in general player.

Alarm Management

Support maximum 16-channel alarm input, 3-channel alarm output;

Integrated network alarm host management;

Independence time quantum defense everyday;

Multiple linkage output: audio warning, alarm on monitor, email linkage, upload to center, trigger alarm output and PTZ linkage;

Alarm video linkage can output to arbitrarily matrix output port;

On key defense on/off;

Exception handling alarm, including HDD full, HDD fault, network broken, IP address conflict, illegal access, video signal exception;

> PTZ Control

PTZ control, support multiple PTZ protocols, display control window according to protocol;

Support use mouse to adjust focus and zoom control;

Support PTZ or speed dome set and call preset, cruise, track;

Network Control

10M/100M/1000M self-adaptation network interface;

Support HTTP/P2P/RTSP/RTP/RTCP/SADP/SMTP protocol, support email customize alarm information;

Support TCP/UDP protocol, PPPOE dial-up protocol, dynamic get IP address (DHCP);

Support P2P cloud ;

Dynamic network protocol stack loading, seamless access platform;

Realize network real time preview through network, remote download record file, remote playback record file, remote real time preview through IE;

Realize network remote control PTZ, remote configure device parameters, get device run status and log information, remote reboot and remote update;

User Management

Support 9 users three-level management; advanced user management mode, can set every channel's permission;

Support user binding with IP address;

Log

Support export local and remote operation log;

Device Management

Self recovery function: when main control and coder and decoder in error working status, auto reboot device and record error code into device log;

Support device configuration parameters export and import, ensure configure multiple devices quickly; Support auto reboot;

Chapter2 Device Architecture

2.1 Front Panel

2.1.1 4CH/9CH Product Front Panel

4CH/9CH Product Front Panel



4CH/9CH Product Front Panel Function Introduction Table

Key	Identification	Function
Power on/off	0	power on/off
HDD shortcut key	1 0	HDD indicator, flicker when record file, press it to enter playback interface
Alarm indication key	•	Alarm indicator, lamp on when alarm happens, press it to see alarm

		history record
Network shortcut key	8	ACT indicator, flicker when have
		flow, press it to enter network
		configuration interface
Main menu button	Ē	Press it to enter main menu
Return button	Ð	Press it to enter upper menu
Wireless remote control window		Through wireless remote controller,
		remote control NVR
Up/Down/Left/Right	4 × 4 4	Corresponding with
		up/down/left/right

2.1.2 16CH Product Front Panel

16CH Product Front Panel



Key Identification Function Power on/off power on/off 0 HDD shortcut key HDD indicator, flicker when record file, press it to enter playback interface Alarm indication key Alarm indicator, lamp on when 0 alarm happens, press it to see alarm history record ACT indicator, flicker when have Network shortcut key 8 flow, press it to enter network configuration interface Main menu button Press it to enter main menu Return button Press it to enter upper menu ∍

16CH Product Front Panel Function Introduction Table

Wireless remote control window		Through wireless remote controller, remote control NVR
Up/Down/Left/Right	4 6 4 4	Corresponding with up/down/left/right
USB Interface	**	External connection USB storage device, mouse and etc;
Flying shuttle external key	O	left/right key when real time surveillance, fast forward(turn right), fast backward(turn left)in playback interface
Flying shuttle internal key		up/down/left/right

2.2 Rear Panel

2.2.1 4CH/9CH Rear Panel

4CH/9CH Product Rear Panel



4CH/9CH Product Rear Panel Function Introduction Table

Order	Interface	Function
	Audio Input	Audio input interface, receive audio from microphone, pickup
IN	(only 4/9CH a fully functional	and other analog audio signal
	version support)	
	Audio Output	Audio output interface, output analog audio signal to
OUT	(only 4/9CH a fully functional	loudspeaker box and etc
	version support)	
NET	Network	10/100M self-adaptation network interface
	HDMI	High definition audio, video output interface, transmit
HDMI	(only 4/9CH a fully functional	uncompressed high definition audio and video data to HDMI
	version support)	display device
USB/MOUSE	USB	Use for external USB storage device, mouse and etc
NCA	NGA / /	VGA video output interface, output analog video signal,
VGA	VGA output	preview analog video
	RS232 serial	User for serial debugging
RS232	(only 4/9CH a fully functional	
	version support)	

DC 12V	Power Supply	Power interface, DC 12V 4A
POWER	Power on/off	Power on/off
	I/O port	Alarm input, alarm output, RS485 interface and etc
I/0	(only 9CH a fully functional	
	version support)	

2.2.2 16CH Product Rear Panel

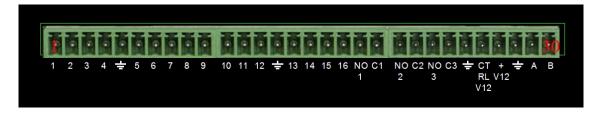
16CH Product Rear Panel



16CH Product Rear Panel Function Introduction Table

Order	Interface	Interface Function
POWER	Power on/off and power input	Power on/off, AC220V
IN	Audio Input	Audio input interface, receive audio from microphone, pickup and other analog audio signal
OUT	Audio Output	Audio output interface, output analog audio signal to loudspeaker box and etc
NET	Network	10/100M self-adaptation network interface
HDMI	HDMI	High definition audio, video output interface, transmit uncompressed high definition audio and video data to HDMI display device
eSATA	eSATA	SATA external interface, allow connect SATA interface device
VGA	VGA output	VGA video output interface, output analog video signal, preview analog video
RS232	RS232 serial	User for serial debugging
I/O	I/O	Alarm input, output, RS485 connection interface and etc

2.2.3 9CH/16CH Product I/O port



9CH/16CH Product Real Panel I/O Port Function Introduction Table

Order	Interface	Function	
1	IO alarm input 1		
2	IO alarm input 2		
3	IO alarm input 3		
4	IO alarm input 4		
5	GND		
6	IO alarm input 5		
7	IO alarm input 6		
8	IO alarm input 7	Receive external alarm source, can set normally open and	
9	IO alarm input 8	normally close input.	
10	IO alarm input 9	Use external power supply to power up input device,	
11	IO alarm input 10	alarm input device need to connect with GND.	
12	IO alarm input 11		
13	IO alarm input 12		
14	GND		
15	IO alarm input 13		
16	IO alarm input 14		
17	IO alarm input 15		
18	IO alarm input 16		
10	Normally open alarm		
19	output 1		
20	Alarm output common		
20	port 1		
21	Normally open alarm		
21	output 2	NO: normally open alarm output port.	
22	Alarm output common	C: alarm output common port.	
22	port 2		
23	Normally open alarm		
23	output 3		
24	Alarm output common		
24	port 3		
25	GND		
		Control switching value alarm relay output, control alarm	
26	Controllable 12V power	device according to device whether has 12V voltage or	
20	supply output	not. At the same time serve as power input of alarm	
		detector.	
27	+12V power output	Power up camera, alarm device, external device power	
	interface	supply must be less then 1A.	
28	GND		
29	RS485_A	Control bus A of 485, use for connect external speed dome	
	1.0.100_11	PTZ and etc.	
30	RS485_B	Control bus B of 485 device, use for connect external	
50	<u></u>	speed dome PTZ and etc.	

Chapter3 Installation Description

3.1 Check Device and Accessories

When you receive our product, please refer to "container list" that comes with packing box to check device and accessories.

3.2 Hard Drive Installation

Factory without provide HDD, first installation must install hard drive first, suggesting using company recommended hard drive model and not recommend using PC dedicated hard drive.

4CH maximum supports 1 HDD, 9CH supports 2 HDD, 16CH supports 8*80G or upper capacity HDD and an external eSATA HDD, installation quantity as needed, user can choose hard drive quantity according to hard drive capacity, record time and video quality.

3.2.1 4CH/9CH Product Hard Drive Installation

- 1. Take apart host rear panel and side panel's fixed screws;
- 2. Reversal host, insert hard drive in correct position;
- 3. Fixed hard drive in rear panel by four screws;
- 4. Connect up hard drive line and power supply line;
- 5. Close chassis cover;
- 6. Fixed host rear panel and side panel's screws.

3.2.2 16CH Product Hard Drive Installation

1. Take apart fixed screws in host upper cover and open chassis upper cover;

2. Disassemble hard drive bracket and host rear panel's fixed screws, take out hard drive bracket from host;

- 3. Hard drive bracket has up and down level, first install lower level then install upper level;
- 4. Fixed hard drive in hard drive bracket;
- 5. Fixed hard drive bracket;
- 6. Plug hard drive data line and take its opposite end to SATA socket;
- 7. Plug power supply line for every hard drive;
- 8. Close chassis cover, fixed chassis screws;

Note: If want to replace hard drive, please power off NVR then open chassis to replace hard drive.

Chapter 4 System Access Capability

4CH / 9CH / 16CH product support maximum system access to a 720P HD calculations, transfer rate of each road 2 megabits per second; Or 1080P HD half way, each road transfer rate of 3 MBPS. Details as follow:

Product Model	System Access Capability
4CH	Maximum access 4-channel 720P device, 2Mbps per channel
8CH	Maximum support 8-channel 720P device, 2Mbps per channel
16CH	Maximum support 16-channel 720P device, 2Mbps per channel

Chapter5 Menu Introduction

5.1 Right Click Menu Introduction

As shown below:



Chapter6 Power on/off

6.1 Right Click Menu-Start (Power off, Reboot, login and

logout)

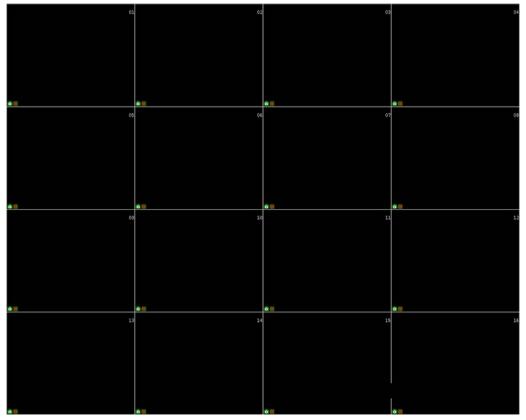


1) Power on: Plug in power supply in correct method, press power on/off key, device will automatically boot.

- 2) Power off: Click "power off" button, device will automatically power off.
- 3) Reboot: Click "reboot" button, device will automatically reboot.
- 4) Logout: Click "logout" button, logout current login user.

Chapter7 Preview

Login successfully after booting, preview interface will shown as below:



NVR defaults multi-screen display after booting, display screens depend on product. Preview screen will overlay date and time, channel status and etc.

O: Preview snapshot; **E**: Record status;

NVR fully functional model, the current end IPC have audio input, mouse click on the corresponding focus preview window, NVR can preview the output.

Chapter8 IP channel setting

Right click menu and choose "IP channel setting" to enter IP channel setting page, in this page, you can configure IPC access information, as shown below:

Ip Channel Setting	►	Manual
		Auto
		Manually SetTime

8.1 Manual

	Channel
Channel Setting	Channel Setting
Channel Satting Channel Param	Channel Setting Channel Setting Search Search <tr< th=""></tr<>
	Apply Return

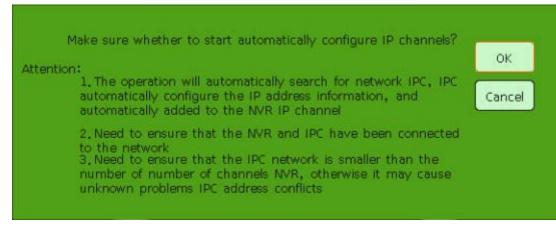
- 1) Search: click "Search" to automatically search IPC devices which support private protocol in LAN, in search list, select check box in front of device, click "Save" to finish adding device.
- 2) Stop: click "Stop" to stop searching IPC devices.
- 3) All: Click "Full" will add device in IP channel after searching; if NVR has added device.
- 4) Default: Click "Search", choose the IPC which you want with mouse, then click "default" and the IPC will return to the factory default Settings.

Note: If the IPC has been added to the channel need to delete, search option again after "ok" to restore the factory Settings of the IPC.

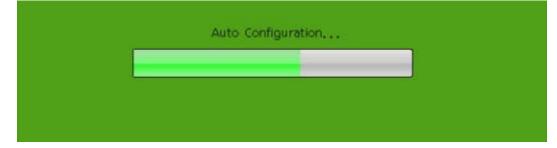
- 5) Modify network parameters: Click "Search", select IP address in search list then network parameters of device will be shown in right, click "Modify" after finish modifying network parameters of device.
- 6) Enable Channel: Choose the channel you want to enable, check "Enable".
- 7) IP: Manually input IP address of device.
- 8) Control Port: Manually input port of device (default is 8091).
- 9) Video Port: Manually input video port (default is 554).
- 10) Network type: TCP and UDP for choose, It is recommended to use TCP.
- 11) User Name: Manually input password of device(default is admin).
- 12) Password: Manually input username of device(default is 123456).

8.2 Auto

Click "Auto" then pop-up prompts, as shown below:



Click "OK" to add the IPC automatic, "Cancel" will not. As shown below:



After the automatic configuration, can automatic playing, as well as with the hard disk and formatted according to the video plan after the video

8.3 Manually SetTime

Manually set the time of the IPC and NVR synchronization.

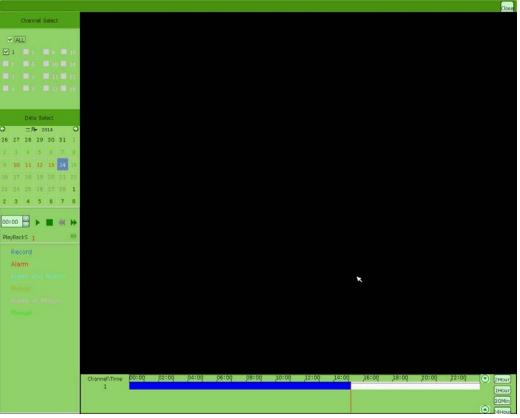
Chapter9 Main Menu

In right click menu, click "MainMenu" then main menu page will be shown as below:



9.1 PlayBack

In main menu, select "Playback" to enter playback interface. Right-click menu also can quickly enter the playback interface. Select channel then record file can be searched automatically, as shown below:



1) Play / Pause: Search video file, click Play to start playback , the status changes to pause, click the pause current playback screen.

- 2) Stop: Stop playback.
- 3) Slow: Reduce playback speed (1/2, 1/4, 1/8, 1/16 and 1/32). (no take effect at present)
- 4) Fast: Speed up playback speed (2, 4, 8, 16 and 32).

5) Frame play: In normal playback speed, each click of a broadcast frame, screen playback. Double click retrieval location or clicks "Play" then select channel will playback video. Double click the channel you want can full-screen playback.

9.2 Backup

Click "Backup" in main menu:

		Beckup	
CommonBackup			
	From:	2014,02,14 15:09:49	
	Tot	2014,02,14 15:09:49	
	File Type:	MPG	
- 09 - 09 - 10	Backup To:	/usb/sdb1	Browse
= 11 = 12	Process:	0%	
13 14 15		·	
16			
		R	
			Stop Uniode Start Return

In this page, plug in USB then click "Browse" to detect if USB is distinguished. If it is distinguished correctly, list will display corresponding device information. Select channel, start time and end time, MP4,H264,AVI 3 kinds of file formats to choose. Click "Start" then system will automatically backup record file and display process.

Explanation: 1.Record backup time can not over 10h.

9.3Preview

Select "Preview" in main menu, you'll see:

		Preview Setting	
Image Setting	Image Setting		
Patrol Setting	01 02 03 04	C Enable Title:	
	05 06 07 08 09 10	Brightness :128 Contrast :128	
	11 12 13 14 15 16	Saturation :	
			R
			Default Copy To Apply Return

9.3.1 Image Setting

In "Image Setting", you can configure whether to show the title and title Settings of each channel, and whether the OSD display of IPC and image brightness, contrast, saturation, ect.

9.3.2 Patrol Setting

	Preview Setting	
Image Setting	Patrol Setting	
Patrol Setting		
	PatrolintervalSec 10 - second	
	Sub Screen Mode	
	Patrol Enable	
	R	
	Apply Retur	rm

In this page, you can set up the patrol interval time, sub screen mode and whether enable patrol.

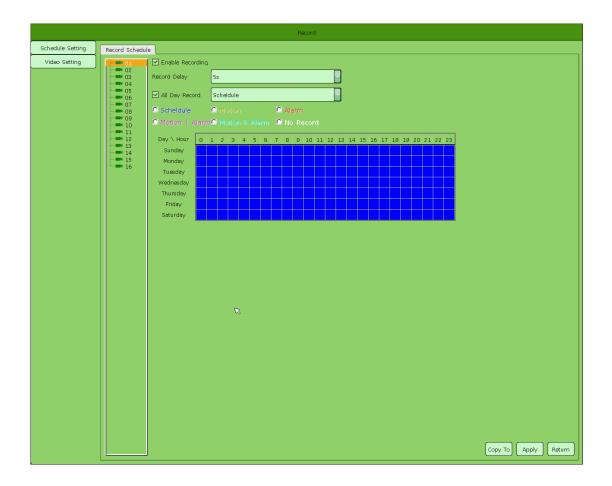
9.4 Storage

Select "Storage" in main menu. In storage page, you can look up capacity and free space of current HDD, format HDD. As shown below:

				Storage	
BaseSetting	DiskInfo				
	Device	Total(KB)	Used(KB)	Available(KB)	Coverd
	Г 1	953574	902229	51345	2
				7	2

9.5 Record

In main menu, select "Record":



9.5.1 Schedule Setting

In "Record Schedule", you can modify schedule record parameters of every channel:

- 1) Enable Recording: Configure to enable recording or not, default is enable.
- 2) Record Delay: Configure record delay time.
- 3) Record Type: Scheldule, Motion, Alarm, Montion&Alarm, Motion|Alarm for support, default is scheldule.
- 4) Record schedule Time: Configure record time.

9.5.2 Video Setting

			Record
Schedule Setting	Video Setting		
Video Setting	01	Encoding Type:	Main
		Stream Type:	Video streaming
	06	Resolution :	720P
	09	Bitrate Type:	CBR CBR
	11 12 13	Bitrate Value:	2048Kbps
	13 14 14 15 16	Frame Rate:	kbps 25 FPS
			2
			Copy To Apply Return

In "Video Setting", you can configure the channel parameters as below:

1) Encoding Type: Main Stream, sub stream for choose.

2) Stream Type: Video, Video and Audio.

3) Resolution: Main stream resolution type according to the different types of IPC optional different resolution.

4) Bitrate Type: CBR and VBR for support.

5) Bitrate Value: You can choose different bitrate value, including custom Settings.

6) Frame Rate: select different value in combobox.

9.6 Channel

In main menu, select "Channel":

	Channel
Channel Setting	Channel Setting
Channel Param	Channel Setting H IP IP IP <
	Apply Return

9.6.1 Channel Setting

"Channel Setting" has the same function with the Chapter 8.1 Manual configure IP channel through right click menu, not repeat. For more information, see section Chapter 8.1.

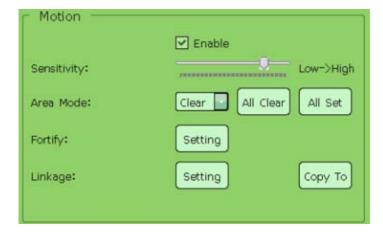
9.6.2 Channel Param

In "Channel Param", you can modify configure parameters of every channel, as shown below:

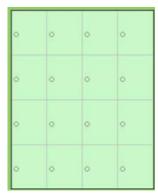
			Channel					
Channel Setting	Motion/Video Lost/Shield Alarm							
Channel Setting Channel Param	Motion/Video Lost/Shield Alerm 	Sensitivity:	Setting Cop	Set 0 ry To 0 eld Alarm -	s	o		
							Apply	Return

9.6.2.1 Motion

In "Motion", you can modify motion parameters of every channel.



- 1) Enable: Enable motion detection;
- 2) Sensitivity: Adjust sensitivity;
- 3) Area Mode: Set up motion detection area, default is 4*4 is enable, as shown below:



4) Fortify: set up defense time, as shown below:

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SUNDAY																							
MONDAY																							
TUESDAY																							
WEDNESDAY																		R	3				
THURSDAY																							
FRIDAY																							
SATURDAY																							
	7					1					Fort	ify											

5) Linkage: Select linkage mode, as shown below:

	Intering	Alarm On Mr	mitor
L (rigger	Alarm Output		
CAMERA	ALL		
1	2	🔲 З	4
5	6	7	8
9	10	🔲 11	12
13	14	15	16
		ок	ancel
	Email Li Trigger CAMERA 1 5 9	CAMERA ALL 1 2 5 6 9 10	CAMERA ALL 1 2 3 5 6 7 9 10 11 13 14 15

Explanation: Linkage not to take effect

9.6.2.2 Video Lost

In "Video Lost", you can modify video lost parameters of every channel.

- Video Lost	🗹 Enable
Fortify:	Setting
Linkage:	Setting
	Сору То

1) Enable: Enable video lost;

2) Fortify: Set up defense time;

3) Linkage: Select Linkage mode.

Explanation: Linkage not to take effect

9.6.2.3 Shield Alarm

In "Shield Alarm", you can modify shield alarm parameters of every channel.

- Shield Alarm	
	✓ Enable
Fortify:	Setting
Linkage:	Setting
	Сору То

1) Enable: Enable Video Tampering;

2) Fortify: Set up defense time;

3) Linkage: Select linkage mode.

Explanation: Linkage not to take effect

9.7 Setting

In main menu, click "Setting", as shown below:

		SystemSetting
Common Setting	Base Setting	
NetWork Setting	ScreenResolution	1280*1024
User Setting		
User Online	Display	SetUp
Alarm Setting	Langauage Mode	English
Exception		
DST Setting	AutoLogoutMin	0 min
		Automatically for all IPC school
		×
		Apply Return

9.7.1 Common Setting

In "Common Setting", you can configure the display parameters as below:

1) Screen Resolution: Select resolution as needed. (Just support for Automatic identification of the resolution of the display)

2) Display: Can display brightness, contrast, saturation, hue, and sharpness settings.

3) Language: Support several languages (such as simple Chinese, traditional Chinese, English and etc).

4) Sub Screen mode: There is 1 Screen, 4 Screen, 9 Screen and 16 Screen (according to NVR and pattern).

5) Auto Logout: If not operate NVR in setting time, user will automatically logout. (no take effect at present).

Explanation: Check Enable automatic correction for all IPC, the IPC will be timed automatic time synchronization.

9.7.2 Network Setting

In "Network Setting", you can configure the parameters as below:

			SystemSetting
Common Setting	Base Setting P2P Setting	Email Setting	
NetWork Setting			
User Setting	IP	192, 168, 1, 188	
User Online	Subnet Mask	255,255,255.0	
Alarm Setting	Default GateWay	192, 168, 1, 1	
Exception	First DNS	192, 168, 1, 1	
DST Setting			
	Second DNS	0.0.0.0	
	MAC	00:fe:37:19:03:67	
	Remote Port	40001	
	HTTP Port	80	
	Multicast	0.0.0.0	
		Platform	
			×
			Apply Return

- 1) DHCP: After enable the DHCP function, set static IP address is not available, according to the DHCP server automatically access to a valid IP address.
- 2) IP Address: Input corresponding digital number to modify IP address.
- 3) Subnet Mask: Input corresponding IP subnet mask.
- 4) Default gateway: Input corresponding gateway address.
- 5) Primary DNS Address: Enter the local network operators configure DNS service address.
- 6) Secondary DNS Address: Enter the local network operators configure DNS service alternate address .
- 7) MAC: Display physical address of current network interface.
- 8) Remote Port: Input corresponding device port(default is 5050).
- 9) HTTP Port: Input corresponding port(default is 80).
- 10) Multicast Address: Input corresponding multicast address.

Explanation: When the network parameters change will pop-up prompts whether or not to manually or automatically IP channel.

9.7.2.1 Platform

In "Management Platform" page, you can set up whether access UC2 video surveillance client and platform server, as shown below:

Manageme	ntPlatForm	
PlatFormSetup		🗹 Enable
	IP	192, 168, 1, 2
	Port	10001
UC Setup		🗹 Enable
	IP	0. 0. 0. 0
	Port	556
Phone Server	Setur	✓ Enable
	IP	0, 0, 0, 0
	Port	5554
		OK Cancel

- 1) Platform server access: Click "Enable" to enable it and input server address, port (default is 10001).
- 2) UC2 client access: Click "Enable" to enable it, and input the IP address and port (default is 556).
- 3) Phone Serverr access: Click "Enable" to enable it and input IP address, port (default is 5554).

9.7.3 P2P Setting

In "P2P Setting", you can enable P2P to access cloud server, as shown below:

			SystemSetting	
Common Setting	Base Setting P2P Setting	Email Setting		
NetWork Setting	Enable P2P			
User Setting	Server Name	www.seetong.com		
User Online	Domain	175689, seetong, com		
Alarm Setting			J	
Exception				
DST Setting				
			R	
				Apply Return

- 1) Enable P2P: Enable P2P, default is enable.
- 2) Server Name: Configure the access P2P server, default is <u>www.seetong.com</u>
- 3) Domain: Don't need to configure, access the P2P server normal and after registration will automatically display.

9.7.4 Email Setting

In "Email setting", you can set up alarm linkage email.

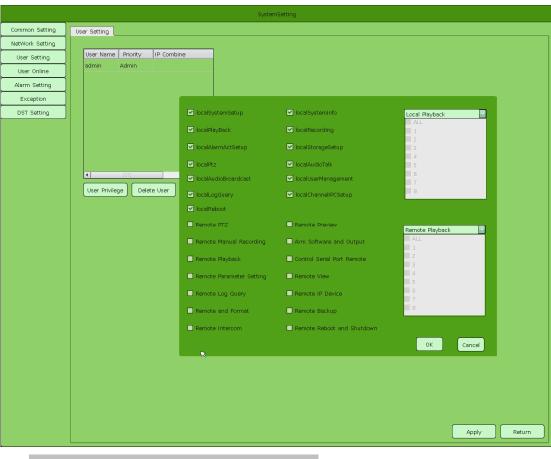
			SystemSetting
Common Setting	Base Setting P2P Setting	Email Setting	
NetWork Setting	Email Address		
User Setting	Password		
User Online			
Alarm Setting	PWD Confirm		SSL Attachment
Exception	Sending interval		
DST Setting	SMTP Sever		
	SMTP Port	0	
		Contact	
	R		
			Apply Return

- 1) Email Address: Configure the email address, for example <u>nvr@163.com</u>
- 2) Password: Configure email password.
- 3) PWD confirm: Configure email password; If your email needs to secure encrypted authentication is required to check the SSL, check the "attachment" pictures send email attachment.
- 4) Sending interval: Configure email password;
- 5) SMTP Sever: Configure email server address, for example smtp.163.com.
- 6) SMTP Port: Configure email server port, for example 25.

Explanation: The email service not to take effect.

9.7.5 User Setting

In "User Setting" interface, you can add, modify and delete user, allocate privilege to specific user, as shown below:



Explanation: User Privilege not to take effect.

9.7.6 User Online

In "User Online", you can see current NVR user's connection circumstance.

Common Setting	User Online			
NetWork Setting	User Name	Login Type	Login Time	IP
User Setting	admin	Local	2014-02-14	127, 0, 0, 1
User Online	admin	P2P	2014-02-14	
Alarm Setting	admin	P2P	2014-02-14	0, 0, 0, 0
Exception	admin	P2P	2014-02-14	0, 0, 0, 0
DST Setting		P2P		0.0.0.0
			R	

9.7.7 Alarm Setting

In "Alarm Setting" interface, you can set up alarm input and alarm output, as shown below:

		SystemSetting	
Common Setting	Alarm Input/Alarm Output		
NetWork Setting	Alarm Input	1 *	
User Setting	Alarm Name		
User Online			
Alarm Setting	Alarm Status	Normally Open	
Exception	Arm Schedule	Setting	
DST Setting			
	Linkage	Setting	
		Сору То	
	Alarm Output	1	
	Delay	lm R	
	Arm Schedule	Setting	
	Ami schedule		
		Сору То	
		Apply	Return

9.7.7.1 Alarm Input

In "Alarm Input" page, you can set up the alarm input parameters as below:

Alarm Input	1
Alarm Name	
Alarm Status	Normally Open
Alarm Handle	
Arm Schedule	Setting
Linkage	Setting
	Сору То

- 1) Alarm Input: Select the alarm input;
- 2) Alarm Name: Set up the alarm name;
- 3) Alarm Status: Normally Open, Normally Close for choose.
- 4) Enable alarm handle;
- 5) Alarm Schedule: Set up defense time;
- 6) Linkage: Select linkage mode, as shown below:

TRIGGERMO	DE Audio	Warning	Alarm On Mo	nitor	
	🗌 Email		Up to Center		
	🗌 Trigge	r Alarm Output			
TRIGGERCAM	1ERA				
R	1	2	🗌 з	4	
	5	6	7 🗖	8	
	9	10	🔲 11	🗌 12	
	🗌 13	🗌 14	15	🗌 16	
PTZLINKED		Channel	Channel1		
	None	-	1		
		(ок с	ancel	

Explanation: Not to take effect

9.7.7.2 Alarm Output

In "Alarm Output" page, you can set up alarm output parameters as below:

Alarm Output	1	-
Delay	lm	
Arm Schedule	Setting	
	Сору То	

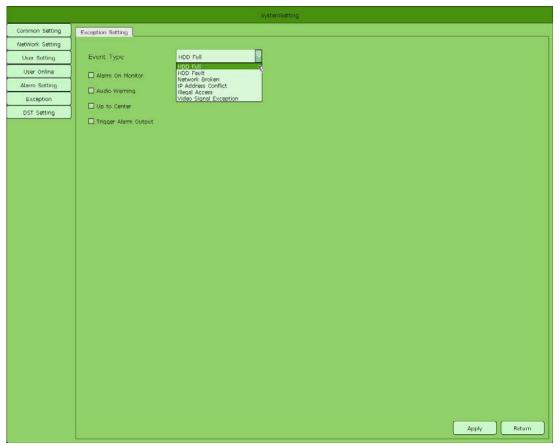
1) Alarm Output: Select alarm output.

- 2) Delay: Set up alarm output delay time;
- 3) Alarm Schedule: Set up defense time.

Explanation: Not to take effect

9.7.8 Exception

In "Exception" page, you can set up according to exception type, as shown below:



- 1) Event type: HDD full, HDD fault, Network broken, IP address conflict, Illegal access, Video signal exception for choose.
- 2) Different alarm for choose.

Explanation: Not to take effect

9.7.9 DST Setting

In "DST Setting", you can enable and set up parameters of daylight saving time.

	SystemSetting
Common Setting	DST Setting
NetWork Setting	
User Setting	C Enable Daylight Saving Time
User Online	From January Ith Week Sun. 0
Alarm Setting	
Exception	To January Ith Week Sun. D
DST Setting	DST Blas 30minutes
	×
	Apply Return
	Apply Return

9.8 File

In main menu, click "File" then you come to the file manager page. In this page, file lists column will display backup file stored in USB and local snapshot picture. As shown below:



9.9 Maintain

In main menu, select "Maintain" to enter the system maintain page, as shown below:

		SystemMaintenar	ice	
System Info	System Info			
Code Stream	Master Version	1, 0, 0		
Alarm	Hardware Version			
EventLog				
System Upgrade	Compile Time	2014, 02, 11, 15+27		
Config Operation	Starting Time	2014,02,14 14:40		
Auto Reboot	Run Time	0 deye, 8 hours, 33 mins, 5 secs		
	Device Name	NVR		
	Device ID	0		
	RS485	PTZ Control		
	Device Serial No	01047541590510		
	Channel Number	16		
	Alarm Input Number		R	
	Alarm Output Number	4		
	HDD Number			
	RSystem Value	PAL		
	Stream Type	16*720P		
	Current Time	2014.02.14 15:22:13		
	Setting Time	2014.02.14 15:22:08		
	Time Zone	TIMEZONE_EAST_08		
			Apply Return	J

9.9.1 System Info

In "System Info", you can see and modify basic information of device, as shown below:

Master Version	1,010
Hardware Version	edus (
Compile Time	100010211005.07
Starting Time	2010.02.14-14-09
Run Time	0 days 0 hours of minited cool
Device Name	NVR
Device ID	D
RS485	PTZ Control
Device Serial No	0000641000690600
Channel Number	16
Alarm Input Number	
Alarm Output Number	
HDD Number	
RSystem Value	PAL
Stream Type	16*720P
Current Time	2014.02.14 15:22:13
Setting Time	2014.02.14 15:22:08
Time Zone	TIMEZONE_EAST_08

- 1) Device Name: Support user-define NVR name.
- 2) Device ID: Configure device ID of the NVR.
- 3) RS485: Configure RS485 interface external keyboard or yuntai control function.
- 4) Device Serial No: Display the unique serial number of NVR.
- 5) Chanel Number: According to different types of NVR corresponding to the number of the channel.
- 6) Alarm Input Number: Display the alarm input number, just NVR support can enable.
- 7) Alarm Output Number: Display the alarm output number, just NVR support can enable.
- 8) HDD number: Display the number of the HDD access successfully.
- 9) Rsystem Value: Configure the IPC support video formats.
- 10) Stream Type: Configure the resolution of NVR and the biggest ability to access the IPC; one stream type one time.
- 11) Current Time: Display the current system time.
- 12) Setting Time: Configure system time of NVR.
- 13) Time Zone: Configure NVR's time zone, default is TIMEZONE_EAST_08.

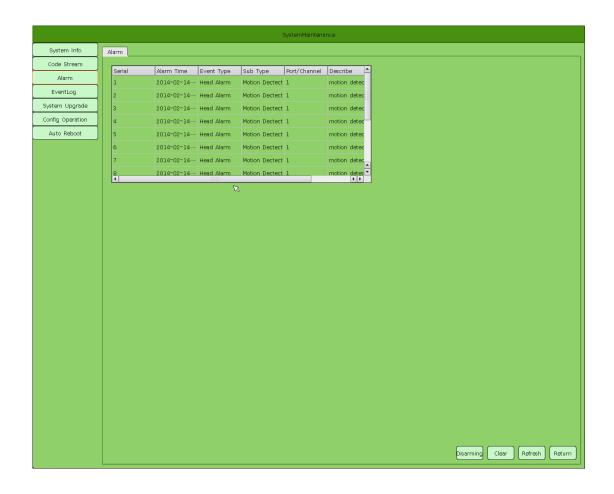
9.9.2 Code Stream Information

In "Code Stream Information", you can look up stream information of every channel. Not support dynamic refresh.

					SystemMaintena
System Info	Code Stream	m Information			
ode Stream				la con	
Alarm	СН 1	Main Stream 2039(kb/s)	Sub Stream 572(kb/s)	Main Stream 896(MB/H)	Sub Stream 251(MB/H)
		1980(kb/s)			319(MB/H)
m Upgrade	2		727(kb/s)	870(MB/H)	
fig Operation	3	2053(kb/s)	565(kb/s)	902(MB/H)	248(MB/H)
	4	1913(kb/s)	585(kb/s)	840(MB/H)	257(MB/H)
Auto Reboot	5	1584(kb/s)	393(kb/s)	696(MB/H)	172(MB/H)
	6	O(kb/s)	O(kb/s)	0(MB/H)	0(MB/H)
	7	1723(kb/s)	414(kb/s)	757(MB/H)	182(MB/H)
	8	1647(kb/s)	416(kb/s)	723(MB/H)	183(MB/H)
	9	1616(kb/s)	407(kb/s)	710(MB/H)	179(MB/H)
	10	O(kb/s)	O(kb/s)	О(МВ/Н)	0(MB/H)
	11	O(kb/s)	O(kb/s)	0(MB/H)	0(MB/H)
	12	O(kb/s)	O(kb/s)	0(МВ/Н)	0(MB/H)
	13	O(kb/s)	O(kb/s)	о(мв/н)	0(МВ/Н)
	14	O(kb/s)	O(kb/s)	0(MB/H)	0(МВ/Н)
	15	0(kb/s)	O(kb/s)	0(МВ/Н)	О(МВ/Н)
					0(MB/H)

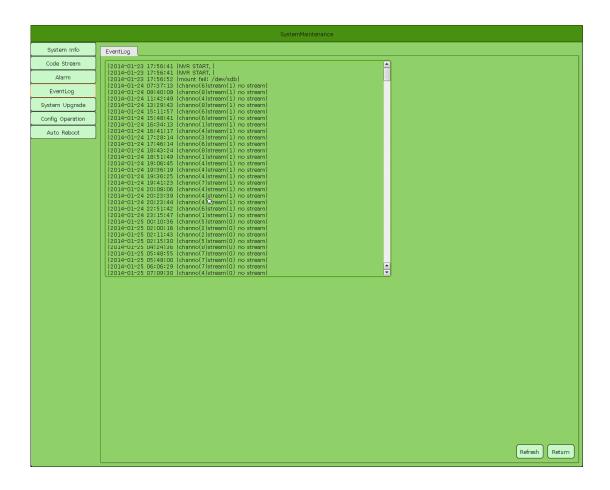
9.9.3 Alarm

In "Alarm" page, all alarm information will be displayed in "Alarm" list. After set up alarm , you can look up the alarm information by double click the icon "¢", As shown below:



9.9.4 Event Log

In "Event log" interface, you can view event log after NVR start, not support query history at currently. As shown below:



9.9.5 System Upgrade

In "System Upgrade", insert the USB storage device, browse the corresponding NVR upgrade file, click on "Update" to update NVR.



9.9.6 Config Operation

In "Config Operation" page, the configuration you can operate as shown below:

	SystemMaintenance
System Info	Import Configuration/Export Configuration/Default
Code Stream	
Alarm	Default
EventLog	Import Configuration
System Upgrade	Export Configuration
Config Operation	
Auto Reboot	
	Return

- 1) Default: Click "Default" to restore NVR to factory default.
- 2) Import Configuration: Import external storage device's configuration file.
- 3) Export Configuration: Export current configuration to NVR's external storage device.

9.9.7 Auto Reboot

In "Auto reboot", choose maintenance mode then NVR will reboot according to specific mode, as shown below:

		Syste	emMaintenance	
System Info	Auto Reboot			
Code Stream	Maintenance Mode	Disable		
Alarm	Reboot time			
EventLog				
System Upgrade	System Reboot Next Time	1970,01,01 08:00		
Config Operation	Weekly Plan			
Auto Reboot	📕 Sunday			Wednesday
	Thursday			
	- Introday			
				Apply Return

Chapter10 PTZ

In right click menu, click "PTZ" then PTZ panel will be displayed, as shown below:

Channel: 1	0
	əm 🕂
AUTO	:us (+)
For	
	. +
Speed	5
Add Preset 1	0
InquiryPreset	
Advanced Orbit	
Re	turn

1) Set up "Preset": move camera to needed position through PTZ control then select a preset number in "Preset" combobox, click "Setting" button.

Call "Preset": select preset number in "Preset" combobox then click "Call".

Delete "Preset": select a preset number in "Preset" combobox, click "Delete" button.

2) Set "Advanced": when you set up the function in "advanced" drop-down list corresponding to the corresponding feature, which is required for PTZ cooperate to perform.

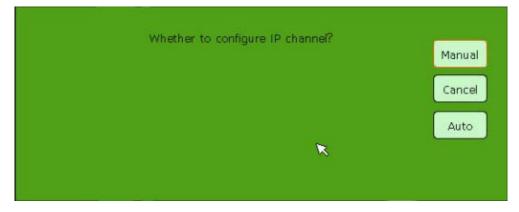
Chapter11 Record

Manual record has the highest prior level, execute "manual record" then corresponding channel will start common record, as shown below:

ManualRe	cord															
Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Close																
Manual																
RecordSche	dule 🗹 ALL 🗹				V					V						
															ок	Cancel

Chapter12 Boot Wizard

In the right-click menu to perform "boot wizard", according to the wizard prompt respectively carry out the resolution, such as language, network, channel configuration.



Chapter13 Capture

In preview channel, click "O" button can snapshot channel's picture. Captured picture is stored in hard drive, and support to see from the "File".



Chapter 14 Window Ratio/Partition

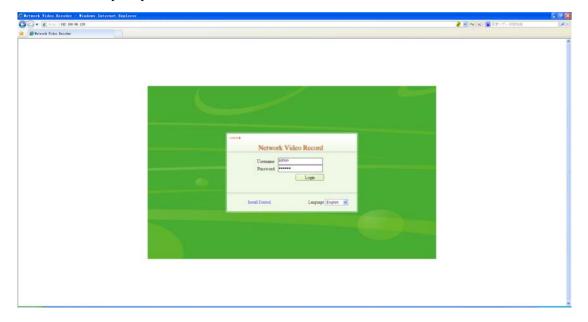
Right click menu, you can set up 4screen/9screen/16screen according to model of NVR.

Screen4	•	
Screen9	•	Seriesl
Screen16		Series2

Chapter 15 Remote Connection

15.1 IE connection

In the address bar enter the IP address of the NVR and HTTP port(http port 80, then do not need to add), for example <u>http://192.168.1.188:81</u>. The user name, password is the same as the local login NVR. If you can not install IE controls, open IE- tools -Inernet Options - Security - Custom – "Download unsigned controls" and "safe for scripting of ActiveX controls Initialize and marked" select "prompt", or download control installation.



15.2 P2P connection

NVR configuration and post P2P network connection is enabled. In the preview screen and the "main menu Settings, system Settings, network configuration, the P2P can see after the success of the P2P connection equipment in the domain name, enter the domain name in the address bar to access NVR. The user name, password is the same as the local login NVR. If you can not install IE controls, open IE- tools -Inernet Options - Security - Custom – "Download unsigned controls" and "safe for scripting of ActiveX controls Initialize and marked" select "prompt", or download control installation.

C Briverk Video Koroder - Vinders Internet Explorer C V 22-2 Inter// Sector anting on C Briverk Files Enclor			 (*) ×) × 10 × 10 × 10 × 10 × 10 × 10 × 10
	\odot	۲	
۲	\odot	\odot	۲
\odot	\odot	\odot	۲
\odot	\odot	\odot	۲

Explanation: P2P login access through IE, if not modified the default user name and password, then log in directly without having to enter a user name and password.

15.3 UC connection

Open UC2 Software, In the "Configuration Management - Device Management ", click on "Start search" will automatically search for LAN equipment, Select Add or manually add NVR / DVR type devices.

		Contraction of the local division of the loc	1000								
Wideo Wiew	Record Query	Alara queries	Config	Recognition 1	TV Wall	Rap					
uter Config Record Con	ofer Results Confer Maint										
		0.00000N									
9	Device Management										
etat.	Group Config										
wind.	Group Name		Add	Remove Hodily							
179290											
179451	Config Information										
100055	Device Source	(F Local Device	C POP De	14.0							
B 104005			Device	<u> </u>							
Carrel 1	Group Name	Defail	Device Nane		Protocol Type	109 .					
· Oaveit	Devile Type	(pc	· Stean	Sub Stream	Wit Mid	a150 .					
Carrel 3	Devis P	3M			FIZPort						
Canel 4	Devis P		Vides Port	1004	FIZPHT.	0091					
	Logit Nation		Password		PTZ Address						
Charvel 5				C.4.		04					
Davel-6		Note: # is not allowed		Samore Hodly							
Care 7		NUMBER OF THE PARTY OF THE PART		same roaty							
- Oavel-8											
🖶 Danei 9											
🐥 Oavei 10											
🐥 Charvei-13											
👾 Oavei 12											
- Correl 13											
- Canel 14											
Oamei 14 Oamei 15											
Carrel 15											
Carrel 15 Carrel 15	Device Management										
Channel 15 Channel 15 Channel 16 112917		192 . 198 . 66 . 12	5 Subwet His	A 25 . 25 . 25 . 0	Galancia, Address	192 - 100 - 00 - 1					
Convel 15 Convel 15 112917 Convel 1					-						
Channel 15 Channel 16 112917 Channel 1 Channel 2 Channel 2 Channel 3	3P Address DND2	192 - 168 - 88 - 1		* 255 : 255 : 255 : 0 0 : 0 : 0 : 0	-	112 - 116 - 16 - 1 Modly Cenera Default Config					
Convel-15 Convel-16 12917 Convel-16 Oconvel-2 Convel-2 Convel-3 Convel-4	3P Address DND2				-				∏ best	CH 9	ng mench betch
Channel 15 Channel 16 Il 12917 Channel 1 Channel 2 Channel 2 Channel 3	9 Address DND1 Device number 7	192 - 168 - 68 - 1	DNES2	0 . 0 . 0 . 0	Auto pan	Modify Careera Default Corifig	1 course	law 1	(* past	Г. И . Я	up march 🔹 Baild
Oarnel 15 Oarnel 15 Oarnel 16 112917 Oarnel 1 Oarnel 2 Oarnel 3 Oarnel 4 Oarnel 5 Oarnel 6	P Adhess DRG Device number 7 (P Adhess	192 - 168 - 68 - 1 0 -	DAS2	0 , 0 , 0 , 0	Auto pain	Modify Careera Default Config	Senal NO.	1967.	ſ" Post	Г.И. 9	ng march
Oarnel 15 Oarnel 16 Oarnel 16 Oarnel 1 Oarnel 2 Oarnel 2 Oarnel 2 Oarnel 2 Oarnel 3 Oarnel 4 Oarnel 6 Oarnel 6 Oarnel 6	P Address DADL Device number 7 P Address Davies 70.2	192 - 368 + 68 + 1 0. 5 Skivet Mask 255-255-255-0	DHS2 Getenny Abbe	0 , 0 , 0 , 0 e 0401 192 166.00.1	Auto gain	Phodfly Carrens Default Config Derive Type NVR-20154_1 0.0_20	0243065904480807	00.06.43.59.02.59	ſ" Post	Г. м. р.	ng narch . Baid
Ournel 15 Ournel 15 Ournel 16 Ournel 1 Ournel 2 Ournel 2 Ournel 2 Ournel 3 Ournel 5 Ournel 5 Ournel 6 Ournel 6 Ournel 6 Ournel 6	P A53+es DH51 Device number 7 P A53+es 112,156,73-2 112,156,74	192 - 368 + 68 + 1 0. 255 255 255 0 255 255 0 255 255 0	DH52 Getenny Abbe 192.168.72.1 192.168.66.1	0 , 0 , 0 , 0 , 0	Auto gain	Modily Camera Default Config Device Type NVP-76154_1-0.0_20 NVP-76154_1-1.2_20	0243065964480ED7 024306186450644	00-dii 43:59-02:59 00-dii 43:18:02:69	F Post	Г. И. 9.	ng march – Baid
Connel 15 Connel 15 Connel 16 Connel 1 Connel 2 Connel 2 Connel 2 Connel 2 Connel 5 Connel 5 Connel 6 Connel 6 Connel 6 Connel 6 Connel 6 Connel 6	P Address DADL Device number 7 P Address Davies 70.2	192 - 368 + 68 + 1 0. 5 Skivet Mask 255-255-255-0	DHS2 Getenny Abbe	0 , 0 , 0 , 0 e 0401 192 166.00.1	Auto gain	Phodfly Carrens Default Config Derive Type NVR-20154_1 0.0_20	024306590A4808D7 024306180A500EAA	00.06.43.59.02.59	ſ" inst	ги э	ng march
Convel 15 Convel 15 Convel 15 Convel 16 Convel 2 Convel 2 Convel 2 Convel 2 Convel 4 Convel 5 Convel 5 Convel 5 Convel 5 Convel 5 Convel 6 Convel 6	37 A584es DNS1 Device number 7 7 A584es 112, 156, 75, 2 112, 156, 66, 211 112, 156, 66, 211 112, 156, 66, 211	192 - 168 - 89 - 1 9. 5.dret Mak 295-295-0 295-295-0 192-51-295-0 192-51-295-0 192-51-295-0	DH52 Gateway A83+ 192.168.75.1 192.168.66.1 192.168.66.1	CAG1 TR2 340.00.1 TR2 340.00.1 TR2 340.00.1 TR2 340.00.1	Auto gain 0.0.0.0 0.0.0.0 0.0.0.0	Podly Canera Defailt Conty Device Type NVP-20154_1.1.0.0_20. NVP-20154_1.1.2_20 DVP-20154_0_0.0.0.0	024304590A480ED7 024306190A500EAA 024305070A480E40 0280E70C08400E8	00-ds-40.19+02-19 00-ds-40.19-02-66 00-d5-40-19-02-66	⊂ Post	F.4 9	ng march – Baild
Conveits	P Address DNS1 Device number 7 PAddress 1142, 566, 752, 2 1142, 566, 752, 2 1142, 566, 752, 2 1142, 566, 753, 2 1142, 566, 753, 2 1142, 566, 720, 2 1142, 566, 520, 2 1142, 566, 520, 2	192 -368 -88 -1 9 -	DH52 Gateway A63+ 192.168.73.1 192.168.66.1 192.168.66.1 192.168.66.1	● , 0 , 0 , 0 , 0 . ● . 2961 192364.86.1 192365.86.1 192365.86.1 192365.86.1	Auto gain 0.00 0	Podfy Ceneral Default Config Device Type Wei 2015e, 1.0.2, 20. Wei 2015e, 1.1.2, 20. Default Star, 1.0.2, 20. Wei 2015e, 1.1.2, 20.	024304590A480ED7 024306190A500EAA 024305070A460E4C 0280E70C08400EE8	00.dl.40.59-02.59 00.dl.40.18-02.66 001#140.702.68 001#7.62.68	r" inst	FA 9	ng march
Conveils	P Address PR61 Device number 70 P Address 1142:565.66.350 1142:565.66.350 1142:565.66.350 1142:566.64.350	192 348 68 1 5.0 55.255.255.0 255.255.0 255.255.0 255.255.255.0 255.255.0 255.255.0 255.255.0 255.255.255.0 255.255.0 255.255.0 255.255.0 255.255.256.0 255.255.0 255.255.0 255.255.0	DRS2 Gateway Addre 192,168,75,1 192,168,66,1 192,168,66,1 192,168,66,1 192,168,66,1		Auto gain 0.0.0	Pedfy Carera Dafailt Config Device Type New 2015a, 1.0.0, 20. New 2015a, 1.1.2, 20. New 2020a, 1.1.2, 201. New 2020a, 1.1.2, 201. New 2020a, 1.1.2, 201.	024304790A4808D7 0243061904500EAA 024306700A480845 0227998800014029 00000000000000000000000000000000000	00.ds.43.794.02.579 00.dt.43.18.02.68 00.dt.43.18.02.68 00.e79.07.80.03.22 00.679.07.90.03.22 00.200.a0.dt.21.147 00.020.a0.507.49	 ſ" Þæt	Г.И. 9	ng march . Baid
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For more details, refer to instructions UC2 help.

15.4 Phone connection

15.4.1 TSee normal connection

Custom normal connect device name, device address NVR IP address or domain name, NVR phone ports are access ports, the user name, password is the same as the local login NVR.

	ੇ 1.9к/s Edit	Save		L	;়ি (ive Vie)B W	
Device Name	NVR						
Device IP	192.168.66.1	28					L
Device Port	5554					I	1
UserName	admin						
Password	•••••						
Device Channels	4CHs	~	•	ŀ		•	-
			†	+	\bigcirc	(÷)	€
			¥	+		Ξ	Q
				+ ⊕+			

For more details refer TSee instructions manual.

15.4.2 Sectong cloud connection

Through Sectong can press according to the user and device access cloud, As shown in the figure below:

🗢 🚥 Login		🗢 🤷 Device List	Logout	
User Login	Device Login	G Search device	+	
Device ID: 175689 More		10/1 NVR-175689-16	6]	
	Login	175689-channel-1 175689-channel-1	>	
		 175689-channel-2 175689-channel-2 	>	::689-channel-1):P2P conni
		175689-channel-3 175689-channel-3	>	
		175689-channel-4 175689-channel-4	>	
		175689-channel-5 175689-channel-5	>	
		175689-channel-6		💿 🕪 🖞 🙆 🖿 🌻

For more details refer Seetong instructions manual.