# **DVR-870PU** Client software user manual



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# **1 Brief Introduction**

### 1.1 System Requirements

- Operating System: window 2000 and above
- CPU: Inter Pentium 4 2.4G and above
- Internal Memory: 512M and above
- Display: Support 1024\*768 and higher resolution
- Video Card: Support direct draw acceleration and start

### 1.2 Agreements:

- In order to simplify the descriptions in this manual, some descriptions are described as follows:
- Client software is described as software
- DVR, DVS are collectively referred to as device
- Click is left mouse button click
- Double-click is left mouse button double-click
- Right mouse single-click is right mouse button click

# 2 Install and Uninstall

- 2.1 Install
  - Double-click "DVRClientSetup.exe" procedure,
  - click "OK" button,



• Click "Next" button,



• Click "Install"

🕖 DVRClient Setup	_ 🗆 🗙
Choose Install Location Choose the folder in which to install DVRClient.	
Setup will install DVRClient in the following folder. To install in a different folder, click B and select another folder. Click Install to start the installation.	rowse
Destination Folder           Ct\Program Files\DVRClient   Browse	
Space required: 8.4MB Space available: 2.7GB	
Nullsoft Install System v2,39	Cancel

• Click "Finish". Successfully install.



#### 2.2 Uninstall

• Click "Start" → "Procedure" → "DVRclient" → "Uninstall" in the

lower left corner of the computer.

• Click "OK" button.

Installe	r Language	×
	Please select a language.	
	Chinese (Simplified)	▼
	ОК	Cancel

• Click "Uninstall" button.

😵 DVRClient Uninstall	
Uninstall DVRClient Remove DVRClient from your computer.	
DVRClient will be uninstalled from the following folder. Click Uninstall to start the uninstallation.	
Uninstalling from: C:\Program Files\DVRClient\	
Nullsoft Install System v2.39	Cancel

• Click "Close" button. Uninstallation is complete.

# **3 Software Running**

3.1 Running and Login

#### 3.1.1 Run the Software

• Double-click the "DVRclient" shortcut to run the software.

#### 3.1.2 Register Super User

· When using the software for the first time, you need to register a

super-user. A dialogue box will be displayed as follow:

📑 Register Super User 🛛 📉 🗙
First Use Software Must Register a Super User!
User Name:
PassWord:
Confirm
Language  OK Cancel

- Input user name, user password and confirm password. The password is at least 6 digits and must match with the confirm password, and then click "OK".
- A dialogue box will pop-up if the registration is successful.

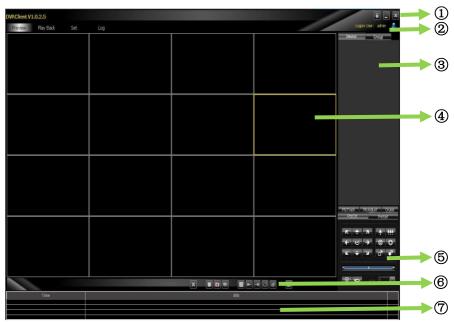


#### 3.1.3 Login

 Choosing the user name and inputting the password and then clicking "OK", you will enter the procedure. Ticking off "Auto logon", the login window will not appear next time.

Vser LogOn			
User Name: admin			
PassWord: Language  Auto LogOn			
PassWord Confirm OK Cancel			

### 3.2 Software Interface Introduction



#### Software Interface Instruction

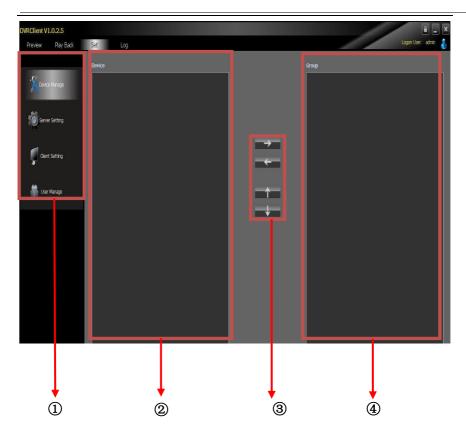
- ③ System Button Bar: You can lock the interface, minimize the window to the task bar and close the procedure.
- > ② Tab Bar: Includes each functional module of the software
  - ♦ Preview: You can preview the device in real time.
  - ♦ Playback: Remote playback and local video playback.
  - Configuration: Device management, remote device configuration and local parameter setting
  - ♦ Log: Local and remote log search.
  - ♦ Map: E-map
- > **3Device Tree:** Display each device and group which is used to

add management.

- Preview Display Window: Preview display window of each device channel in real time.
- SPTZ Control Window: You can control the PTZ and adjust the image.
- GPreview Control Bar: Controls preview stop, client recording, screenshot, switching screen mode, full screen display, rotation training, etc..
- ⑦Alarm Information List: Displays the short line information of the device and other alarm information

# **4 Device Management**

- Before operating by using the software, you need to operate adding and configuration on the device. Click "Configuration" on the tab bar and enter the configuration mode.
- Click "Device Manage" on the left navigation bar and you can enter the device management interface.



#### Interface Instruction:

- (1) Navigation Bar
- 2 Device Tree
- **③** Group Control
- (4) Group Tree
- 4.1 Device Tree Configuration
  - When the software runs at the first time, the list tree is empty by default. Right-clicking any blank area on the list tree, you can add area.

	Add Area
Add Area	Set Area Name
Add Child Area	
Modify Area	Area Name
Add Device	
Modify Device	Main Area
Delete Device	
Delete Area	OK Cancel
Find Device	

- Fill in the name on the area name bar and click "OK", you can add an area to the list tree. As the area added is the first area, there is no superior area in this area, so the superior area name bar is empty.
- When adding the area is complete, right-clicking the nodal point of the area, you can add sub-area and device.
- Right-click the area added and pop-up the area management menu.
- Choose "Add Sub-area", you can add sub-area.
- Choose "Delete Area", the selected area will be deleted.

**Note:** If there are other areas, devices and channels under the delete area, the delete operation will not only delete the selected area but also delete all the areas, devices or channels under this area; if there is any channel which is previewing or recording under this area, a warning message will send out.

#### 4.1.1 Add Device Manually

• Right-click the area added, pop-up the area management menu,

and choose "Add Device".

Add Device				
Device Informa	tion			
Device Name				
Device				
Device Port	6650			
Channel	16			
UserName	UserName			
User				
In Area	test			
OK Cancel				

Option	Instruction
Device Name	The device name added can be user-defined
Device Address The IP or domain address of the device	
Device Port The number of the device port	
Channel Number	Please fill in the channel number of the
Channel Number	device according to the actual situation
User Name	The registered user name of the device
User Password The user name and password of the devi	
Area The area name where the device exists	

#### 4.1.2 Search the Online Device within the LANs

• Right-click in any area/ nodal point of the sub-area, click

"Search Device" on the menu item, search the online device

with the same LANs.

1         H.264 NDVR         192.168.1.108         6650         R8016         16           2         NetDVR         192.168.1.158         6630         R8016         16           3         NetDVR         192.168.1.152         8670         9204         4	Index	Device Name	Device IP	Device Port	Device Model	Max Chn Nu	
2         NetDVR         192.168.1.158         6630         R8016         16           3         NetDVR         192.168.1.152         8670         9204         4	1	H.264 NDVR	192.168.1.108	6650	R8016	16	
		NetDVR	192.168.1.158	6630	R8016	16	
							Add Device

• Choose one device, click "Add Device"

Add Device		
-Device Informa	tion	
Device Name		
Device		
Device Port	6650	
Channel	16	
UserName		
User		
In Area	test	
OK Cancel		

- Modify the device name in the pop-up device information box so that the device name will not appear repeatedly.
- Fill in the user name and password of the device which will login and click "OK".
- Then add other devices continuously.

4.2 Group Tree Configuration

- If there is no any nodal point on the group tree, you need to add the nodal point first.
- Right-click the display group management menu on the blank area of the group bar, click "Add Group".



• Fill in the group name, click "OK" to add group.

-SetGroupName	
GroupName	
ОК	Cancel

· After successfully adding the group, you can add the nodal

DOVACINENT V1.0.2.5 Prever Bry Bad to to to the final state of the fi

point of the channel on the list tree to the selected group.

- Select the nodal point of the channel on the list tree; clicking "Add" on the configurable button bar of the device configuration window will add the selected channel to the selected group of the group tree. The channel name will display in the form of "Device Channel Name". After a channel added successfully, the list tree will select the nodal point of the next channel automatically.
- Select the device on the list tree; clicking "Add" on the configurable button bar of the device configuration window will
- add all the channels of the selected device to the selected group. After add all the channels of device successfully, select

the window and then select the next nodal point of the device of the list tree.

- Use the "Up" and "Down" button on the configurable button bar of the device configuration window to adjust the order of the nodal point of the channel under the group.
- Select the nodal point of the channel on the group tree; clicking "Delete" button on the configurable button bar of the device configuration window will delete the selected channel from the group. After the channel is deleted, the group tree will select the next channel of the group automatically.
- Select the nodal point of the group on the group tree, click "Delete" button on the configurable button bar of the device configuration window to display warning message dialog box. Click "OK", then the nodal points of all the channels of the selected group will be deleted.

**Note:** A group cannot add a same channel repeatedly, but can be added to different groups at the same time.

# **5 Image Preview**

### 5.1 Preview by Non- cruise in Turn

		Device         Group           B € 11         B ∞ 7           B ∞ 7         92041           B ∞ 7         92041           B ∞ 7         92041           B ∞ 7         9204           B ∞ 7         9204           B ∞ 7         92044           B ∞ 7         92044
		PtzTrack PicAdjust Cruse PtzCtrl PreSet
		💡 🗢 🛛 ALX 🔟 M

- Double-click to Start Preview: Clicking a play window on the play panel, the frame of the selected window will become light blue. Double-click a channel on the device list or group; this channel will play on this window.
- Drag to Start Preview: Drag a channel on the device list or group to any play window, this channel will play on this window and it will be under selected status.
- Stop Preview: Right-clicking play window, the menu appears, click "Stop Preview" or click "Stop" button on the preview control bar.

5.2 Preview by Cruise in Turn

- Drag the nodal point of the device or the group directly to the play window to start playing by cruise in turn.
- Whether start cruise in turn and time of cruise in turn are set on the client setting page.
- 5.3 Preview Control
  - Stop: Stop the preview of the current selected window.
  - Recording: Click the recording button and start the client recording of the current selected play window, click again to stop recording.
  - Screenshot: Save the screenshot of the current selected play window.
- 5.4 Sound Control
  - Right-click on the play window, pop-up the play menu; choosing "Turn on Sound", the audio preview of this window will be opened. Right-clicking and choosing "Turn off Sound" will close the preview.

**Note:** The software can only open the audio of one window at the same time. If turning on the sound of the next window, the audio of the last window will be turned off automatically.

### 5.5 Other Functions:

- Double-click to Enlarge: Under the multi-screen mode, double-clicking the play window will enlarge the window; clicking again will return.
- Screen Mode: Can switch multi-screen mode.
- Full Screen: Hide part of the program in order to maximize the panel of the play window.
- Last Page, Next Page: Displays the remaining windows under the current window mode. There are 64 preview windows totally. One page displays each time. The number of the window on each page depends on the screen mode.

# 6 PTZ Control

### 6.1 PTZ Control

 Controls the auxiliary functions including the PTZ rotation direction, speed, aperture, focal length, focus, light and windshield wiper etc.

6.2 Track

- Set and control the PTZ track
- 6.3 Preset Point Setting
  - Set PTZ preset point

#### 6.4 Cruise

- Set the PTZ cruise point and path
- 6.5 Screen Adjustment
  - Set the screen brightness, contrast ratio, chromaticity and saturation

# 7 Recording and Playback

- 7.1 Client Local Recording
  - Client recording includes manual client recording and plan recording
  - Client Manual Recording: Click recording on the preview control bar will start recording.
  - Plan Recording: Set the plan recording time on the client configuration page.
  - Set the path and package size of all the client recording on the client setting page.

DVRClient V1.0.2.5 Preview Play Back Set Log					Logon User admin 🔓
Local Setting	Record Setting Warning Linkage	_	_		
* Device Manage	- Local Record Setting				
Server Setting	Start Driver		C:\		
Clerit Satting	Max File Size 32M 22 Set Record Flanning		Save		Į
🏥 User Manage		🖬 All Day Hechelly	Start Time	End Time	
		Time Section 1	00:00	00:00	
		Time Section 2	00:00	00:00	
		Time Section 3	00:00	00:00	
		Time Section 4	00:00	00:00	
					J

### 7.2 Remote Playback

 Clicking the "Playback" button on the software tab bar, choosing "Remote Playback", you will enter the remote playback interface.

#### 7.2.1 Remote Video File Search

Selecting the device to be searched from the right device tree, and selecting the channel to be searched on the below search panel, then choosing the recording type and start time, clicking "File Search", the file search result will appear. On the right of the search result, you can control page turning and jumping.

		Remote Play Back		
Index Channel	II II IÞ X Start Tine	End Time	Device Name 1 1 12 13 3 44 15 16 67 18 19 10 11 11 12 13 14 15 16 TrrAPBy	File Type All

#### 7.2.2 Remote File Playback

- Select the window which will play playback file. Selecting file in the search result, double-clicking or clicking the "File Playback" on the right, the file will start to playback.
- Choosing the search condition, clicking "Playback by Time", the video can playback by time.



**Note:** Maximum support 4 channels when playback by time. When switching to playback from the start time, all the playback windows will be stopped and it will start playing back again.

#### 7.2.3 Remote File Download

 Selecting file in the search result, clicking the "File Download" on the right, the file will start downloading. The progress bar will appear below.



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#### 7.2.4 Playback Control

- Selecting the window to be controlled, the playback control bar will display the current progress and rate of the current video.
   Drag, pause, stop, screenshot, mute, rate control can be operated on the selected playback file. Clicking "Stop All" will stop all the playback windows.
- 7.3 Local Playback
  - Clicking the "Play Back" button on the software tab bar, choosing "Local Playback", you will enter the local playback interface. Search playback and control are consistent with the remote playback operation. Local playback file cannot download and the file type is not optional.

### 8 Server-side Configuration

- Click "Configuration"-"Server-side Configuration" and enter the server-side configuration interface.
- Select the page to be configured on the right device tree. After modifying the configuration, click [save] on the page will save the parameters.

DVRClient V1.0.2.5									-	8 _ ×
Preview Play Back	Set Log							1		Logon User: admin 🤱
	Serverinto Channelinto Alar	minfo Userinfo	Recordinfo	VideoInfo	Other				_	
Device Manage		Device Info DeviceName DeviceModel Mac Addr								
Gent Setting		- System Info	No Nover	Reso	Deplay					
User Manage		Auto Switch Transparancy	Never Opaque	≚ Stark		PaL SimpChinese	N N			
		Filetwork Info								
		Device Port 0		HTTP Port		D				
		NotMask		DONS AN						
		Galeway	8 8 8	E DONS		3.2				
		PFPoE User		CONS Sen	e 🗔					
		PPPcE Pastoword								
		DONS User		DOMS Page	word					
				MobilePort	0					
							Cancel			

8.1 System Information Configuration

eviceName		NetDVR					
eviceModel		R8016	R8016				
1ac Addr		00:6a:7b:d3	00:6a:7b:d3:41:96				
System Info —	2	ool amaanna alicaa					
iskFull	No	State Display					
ock Time	Never	Resolution	600*800 60HZ	<u>~</u>			
uto Switch	Never	Standard	PAL	~			
ransparency	Opaque	Language	SimpChinese	~			
L	6630	HTTP Port	80				
DHCP Device Port PAddr IetMask	6630 192 · 168 · 1 · 15 255 · 255 · 255 · 0 192 · 168 · 1 · 1	8		· 1			
DHCP Device Port	192 · 168 · 1 · 15 255 · 255 · 255 · 0	8	80 192 - 168 - 1	× 1			
DHCP Device Port Addr IetMask Lateway	192 · 168 · 1 · 15 255 · 255 · 255 · 0	8 DDNS Addr DDNS		× 1			
DHCP Device Port	192 · 168 · 1 · 15 255 · 255 · 255 · 0 192 · 168 · 1 · 1	8 DDNS Addr DDNS Addr DDNS DDNS Service	192 - 168 - 1	. 1			
DHCP Device Port Addr Addr HetMask Sateway PPOE User	192 · 168 · 1 · 15 255 · 255 · 255 · 0 192 · 168 · 1 · 1	8 DDNS Addr DDNS DDNS DDNS Service	192 · 168 · 1	→ 1			

8.2 Channel Information Configuration

Show Na	California		Show Time	🗖 Overlay	Area	J
Record Para Bit Rate	64Kbps	Steam Type	Composite 🛩	Bit Type	CBR 💌	
Quality	Best 🗸	FrameRate	10 fps	Dic 17pc		
Resolutior						
SubStream	Param					) Y
Bit Rate	64Kbps 🖌	Steam Type	Video 🖌	Bit Type	CBR 🖌	
Quality	Best	FrameRate	10 fps	Resolution	<u> </u>	
PTZ Param ·						)
Baudrate	2400	🖌 Data Bit	8	Stop Bit	1 👱	
Check	No	Control	No	Protocol	Pelco-d 👱	
DecoderAdd	r O					
Copy To Oth	ner Channel					)
01	02 🔲 03	04 🔲 0	5 🔲 06 🔲	07 🗖 08	All Yes/No	
09	10 🔲 11	12 11	3 🗖 14 🗖	15 🔲 16	(Am (C3)140	

ServerInfo ChannelInfo Ala	armInfo UserInfo	RecordInfo Vi	deoInfo Other		
	- AlarmIn Info		-		
	AlarmIn ID	01 🚩 Туре	Low	TreatA	larm 🔲
	- PTZ LinkAge				
	LinkAgeID		01		
	EnableTrack				
	EnableCruis	e Cru	isePathNum 0		
	<ul> <li>EnablePrese</li> </ul>	t Pre	setPoint 0		
				-	
	AlarmOut Info — AlarmOut ID	01	Туре	Normal Oper	
	A A A CANAL - ST TA BE D			Thermal oper	
	Email Addr		PassWord		
	SMTP		SMTP Port	0	
	- Trigger AlarmOul	t — Trigger Info	) <del></del>		<u> </u>
	01 02	Email Alar	m 🗖	Sound Alarm	
	03 🗖 04			Delay	5s 🞽
	- Trigger Record C	hannel —			
	01 02	03 🗖 04	05 🗖 06	07 🗖 08	All Yes/No
	09 🗖 10	11 12	13 14	15 16	
	- Copy To Other Cl	nannel			
	01 02	03 04	05 🔲 06	07 🔲 08	All Yes/No
	09 10	11 12	13 14	15 16	
				OK	Cancel
				ОК	Cancel

# 8.3 Alarm Information Configuration

### ServerInfo ChannelInfo AlarmInfo UserInfo RecordInfo VideoInfo Other ~ User ID UserName Password Record PlayBack Ptz Ctrl Log VOIP Record SetParam Log Del Use Cancel

### 8.4 User Management Configuration

### 8.5 Recording Defnce

ServerInfo ChannelInfo	AlarmInfo UserInfo	o RecordInfo	VideoInfo	Other	
0					
	- Record Schedule	Info			
	RecordChannel	01	Day	Mon	1
	Mon	0	6		
		12	18		
	Timin	g Alarm	MD	Combined E	mpty
	- Schedule				
	RecordTime		Timing	MD	Alarm
	14:23	14:23 🚔			
	14:23	14:23 🚔			
	14:23	14:23			
	14:23	14:23 🚔			
	Copy To Other W	/eek			
	Mon	Tues 🔛 🛛	ednes 🔤 Thurs	📕 Fri 📃 Satur	Sun
	Copy To Other C	nannel			
	01 02	🗖 03 🗖	04 🗖 05 🗖	06 🗖 07 🗖 08	All Yes/No
	09 🗖 10	<b>11</b>	12 🗖 13 🚺	14 🗖 15 🗖 16	
					Cancel
					Cancer
				ОК	Cancel

# 8.6 Video Detection Configuration

ServerInfo	ChannelInfo	AlarmInfo	UserInfo	RecordInfo	VideoInfo	Other	
			etection Info			1 2	
		Video	Channel	01	<u> </u>	Area	
		Detec	ion Type	MD	<u>~</u>		
		Сору2	otherChn		<u> </u>		
		C Trigger	AlarmOut —				
		01		03	04		
		- Trigger		Sound Ala	rm 🗖		
		Delay		5s 🛩	Sense	NoDetect	
		- Trigger	Record Char		5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
		01		03 00	4 🔲 05	06 07 08	
		09	10	<b>1</b> 11 <b>1</b> 1	2 🗖 13	<b>1</b> 4 <b>1</b> 5 <b>1</b> 6	All Yes/No
						ОК	Cancel

# 8.7 Other Configuration

ServerInfo ChannelInfo	AlarmInfo UserIn	fo RecordInfo	VideoInfo Oth	er	
	- Manual Record -	-			]
	01	02 03	04 🗖 05	06 07	08
	09	10 11	12 🗖 13	14 15	<b>16</b>
		S	Set All Yes/N	0	
	← Disk Info ──				
		M/M			
	SATA_01	001/001			Dormancy
	SATA_02	0M/0M			Dormanicy
	SATA_03	00 /0M			Dormancy
	SATA_04	000 /004 001 /004			Dormancy
	SATA_05	0M /0M			Dormancy
	SATA_06	00/0M			Dormancy
	SATA_07	0M/ /0M			Dormancy
	SATA_08	007/014			Dormancy
	- System Time				
	2011-05-13	14:23:05 🗸	Refresh	Set	
	C RemoteCtrl				
	Cle	ear Alarm		Restart	
				-	
	Fa	ictorySet		Update	

# **9 Client Configuration**

### 9.1 Local Configuration

Local	Setting	Record Setting Warning Linkage	
		C Loop Play	
		Enable Loop Loop Time(s) 20	
		C Snap Picture Setting	
		Snap JFEG Picture	
		Path Setting	
		Remote Download File Path Ct\DownLoad Browse	
		Save Snap Picture Path C:\PictureFile Browse	
		C Advanced Setting	
		Warning Sound Out	
		~ Log Setting	
		Save Warning Log Time One Month	
		Save Operator Log Time One Month	
		System Time One Month	
		Other Setting	
		Automatic Logon Whether to open the Preview last time	
		Save	

Local configuration can configure cruise in turn, screenshot, storage path, client alarm configuration, log maintenance and auto-logon option.

### 9.2 Recording Configuration

Local Setting	Record Setting Wan	ning Linkage			
	Local Record Setting		End Driver	[C:\	
	Max File Size			Save	
			All Day Records	Start Time	End Time
			Time Section 1	00:00	00:00
			Time Section 2	00:00	00:00
			Time Section 3 Time Section 4	00:00 ×	00:00 ×
					Save

**Note:** The local recording configuration Parameters will come into effect only when the client is restarted after they are saved.

The prerequisite of plan recording is that there must be preview bit stream.

#### 9.2.1 Video Storage Path

• Set start and stop drive, set video save path, set the size of file package. Can limit the maximum size of a single file.

#### 9.2.2 Plan Recording

- Tick off "Plan Recording" to start plan recording.
- Select the channel which will plan recording from the left device tree and set the time bucket of recording on the right and then click save.
- 9.3 Alarm Link
  - Set the options of client alarm link.

# 10 Log

							Logon User: admin			
	StartTime 2011-05-13 20:00:00 U EndTime 2011-05-13 23:59:59 U									
	LogType OperatorLog MainType			Educetog						
	Index	OperatorTime /	Content	OperatorName	Area Name	ServerName	ChannelName			
-										
-										

> **Operation Log:** Search the client operation log.

- > Alarm Log: Search the client alarm log.
- > System Log: Search the client system log.
- Remote Log: Search the remote device log, you need to select the device on the left list tree.

# **Attachment 1: HDD Capacity Calculation**

Install the digital video recorder for the first time, please make sure whether the HDD is installed inside the host.

### 1. The Own Capacity of the HDD

For the capacity of single HDD, the digital video recorder chooses the capacity of above 160G. In order to obtain better stability, we recommend the HDD with 250G ~ 1TG capacity.

#### 2. The selection of the Total Capacity

The calculation formula of HDD capacity is as follow:

Total HDD capacity (M) = channel number  $\times$  required time (hour)  $\times$  HDD space consumption per hour (M/hour).

Similarly, we can get the calculation formula of recording time:

The digital video recorder adopts H.264 compression technology whose own dynamic range is rather large, therefore, the calculation of HDD capacity needs to count the valuation of the file size generated per hour by each channel according to the bit stream.

For example: single-channel recording takes up HDD space 200M/hour. When using 4 channel digital video recorder to record, it

requires continuous recording one month (30 days) and 24 hours one day. The required HDD space is as follow:

4 channels  $\, \times \,$  30 days  $\, \times \,$  24 hours  $\, \times \,$  200M/hour = 576G,

Then it normally needs to install 1 750G HDD or 2 320G HDDs.