

# STANDALONE NVR

## Quick Guide

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**About this Manual:** Before installation and use of this machine, please read this manual carefully. Please make sure to keep this manual for future reference

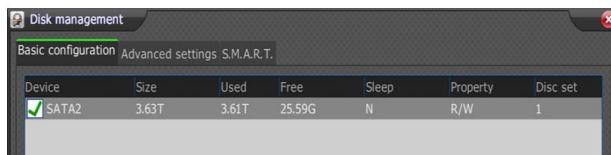
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# 1. Initialization

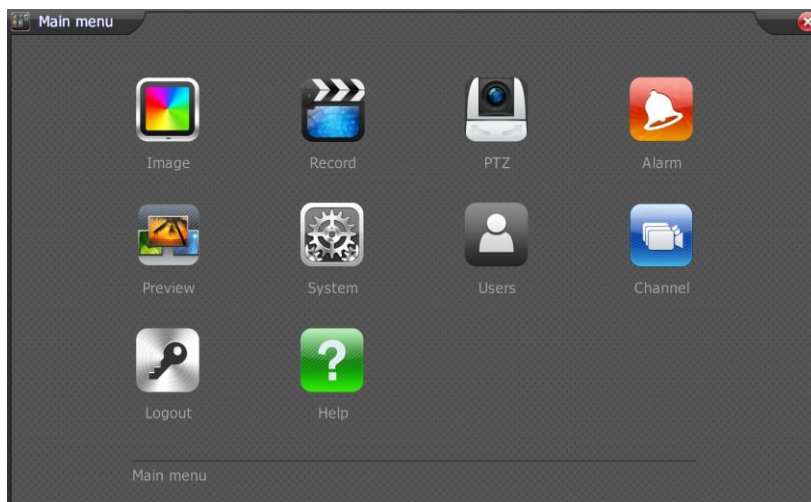
Note: New hard disk must be formatted before you use.



# 2. Main Menu

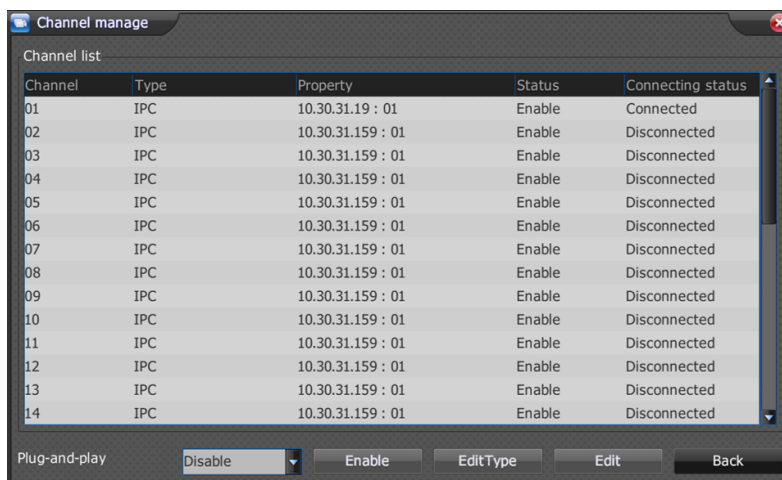
Default ID: Admin

Default Password: 1111



# 3. How to add device

Path: Channel → Channel Manage



### 3.1 Adding manually by ONVIF

**Step1.** Plug-and-play → Disable

**Step2.** Double click targeted channel

**Step3.** Edit

Digital channel manage

Channel Num: 01 State: ☒ Enable

Device type: Private protocol Connect mode: IP

Device address: 10.30.31.19 Port: 3000

Proxy: User: Admin

Device channel: 01 Password: \*\*\*\*\*

Stream: Main stream VideoPwd:

Intelligent add

☐ IP address increment Target channel: 01 — 32

☐ Channel number increment

Batch adding

Search Confirm Cancel

Channel No. → Select targeted channel

Device type → ONVIF

IP address → camera IP address, such as 192.168.1.2

Port No. → camera port number, such as 3000

Account → camera account, such as Admin

Password → camera password, such 1111

Stream type → Major stream or minor stream

### 3.2 Bulk adding device by ONVIF

Server search

IP Addr	Port number	Channel	MAC address	Serial number
<input checked="" type="checkbox"/> 10.30.31.105	82	1		ID
<input checked="" type="checkbox"/> 10.30.31.107	8080	1		ID
<input checked="" type="checkbox"/> 10.30.31.156	80	1		ID
<input checked="" type="checkbox"/> 10.30.31.178	80	1		ID
<input checked="" type="checkbox"/> 10.30.31.195	9988	1		ID
<input checked="" type="checkbox"/> 10.30.31.247	8080	1		ID
<input checked="" type="checkbox"/> 10.30.31.248	8080	1		ID
<input checked="" type="checkbox"/> 10.30.31.249	8080	1		ID
<input checked="" type="checkbox"/> 10.30.31.251	8080	1		ID
<input checked="" type="checkbox"/> 10.30.31.254	8080	1		ID

☒ Select all ☐ Invert select

Device type: ONVIF Connect mode: TCP

Search Add Modify IP

**Step1.** Device Type → ONVIF

**Step2.** Click “Search” to make list of all available channels

**Step3.** Check all channels you want to add

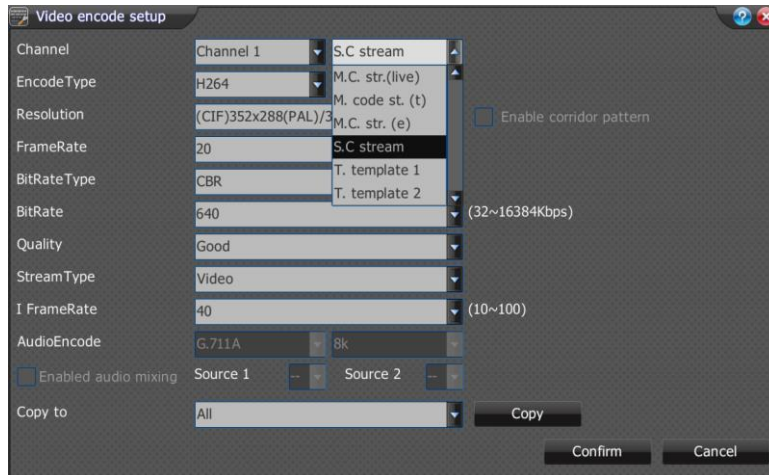
**Step4.** Click “Add”

### 3.3 Adding automatically

Plug-and-play → Auto

The NVR will add cameras automatically

## 4. How to setup video encode



### 4.1 Channel

4.1.1 M.C. str.(live) → Main stream for current video status which cannot be modified.

4.1.2 M. code st.(t) → Main stream for timing recording.

(details see "Record → Video template → advanced → Time template ")

4.1.3 M.C. str.(e) → Main stream for alarm recording

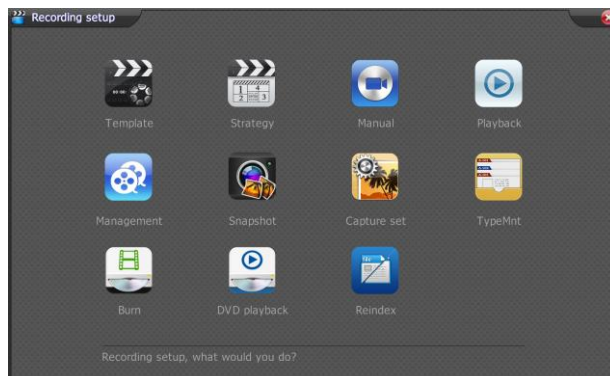
4.1.4 S.C. stream → Second stream

4.1.5 T. template 1 → Main stream for timing recording template 1

4.1.6 T. template 2 → Main stream for timing recording template 2

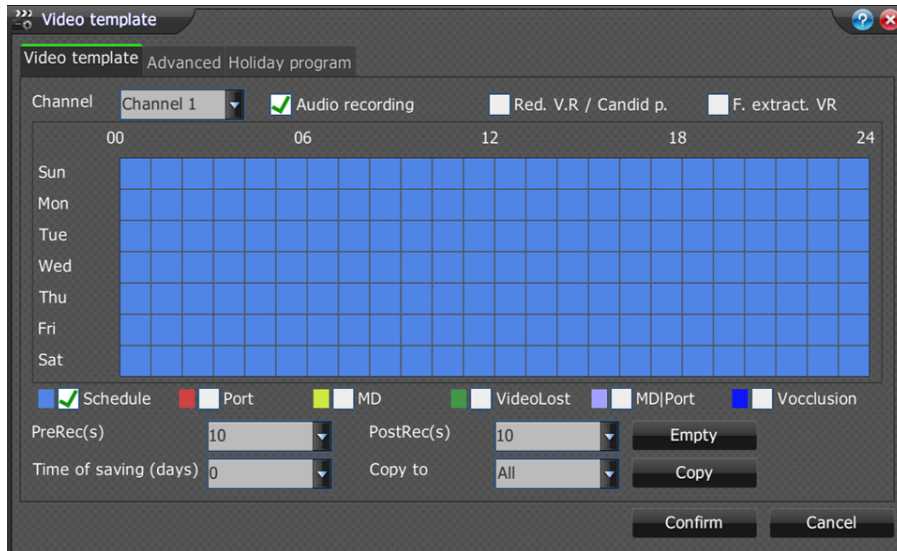
(details see "Record → Video template → advanced → Time template ")

## 5. How to setup recording



### 5.1 Video template

Path: Record → Template



5.1.1 Record audio → collect audio into recording

5.1.2 Redundancy → make another backup recording in redundancy disk (which you have to set in Disk Management)

5.1.3 **Smart Recording (F.extract.VR)** → record less frame to save more space based on I-frame setting (which you can set in Video encode setup. **The more value you set the more space you can save**)

5.1.4 Schedule part → left drag to select and right drag to cancel

5.1.5 Timing recording →

5.1.6 Port recording → for external alarm host

5.1.7 Detecting recording → for motion detection which you setup area in MD

5.1.8 Lost recording → alarm when video signal lost

5.1.9 Detecting/Port → activate detecting and port alarm at the same time

5.1.10 Block Recording → record once screen of camera is blocked

5.1.11 Pre-record → set from 1~60 second

5.1.12 Postpone record → set from 1~600 second

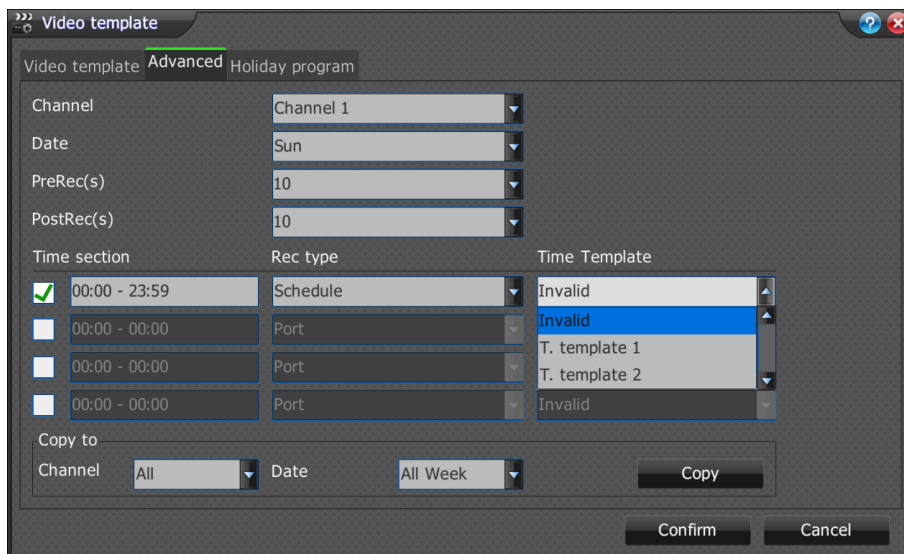
## 5.2 Advanced

You can setup video template for each channel at any day in a week, which can be divided into 4 time section.

When you select “Invalid”, M. code st.(t) (Main stream for timing recording) is enabled.

When you select “**T.template 1**”, main stream for timing recording template 1 is enabled.

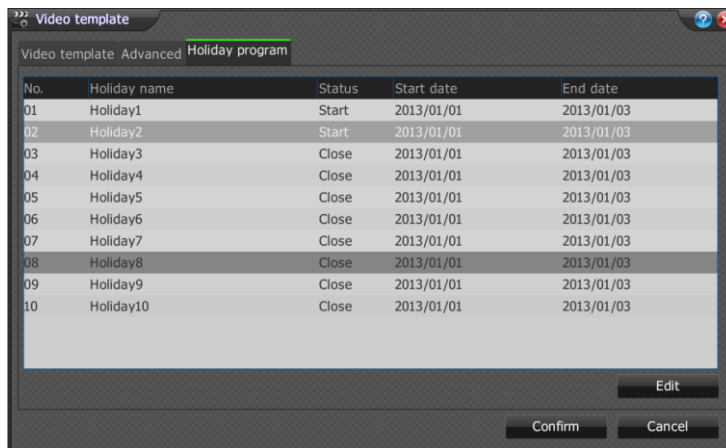
When you select “**T.template 2**”, main stream for timing recording template 2 is enabled.



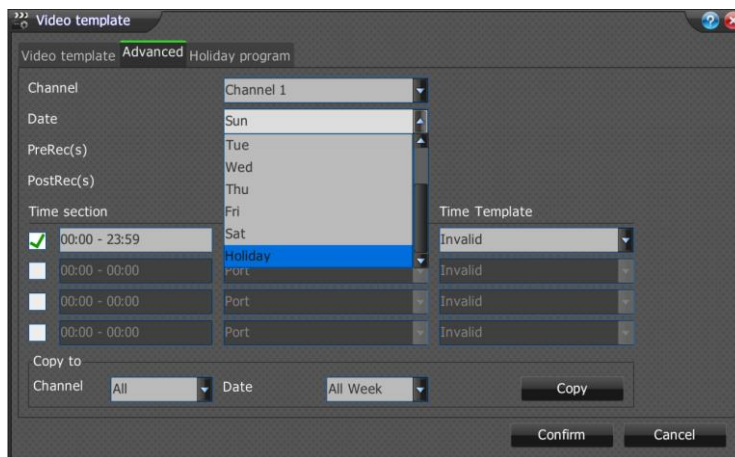
### 5.3 Holiday record

It allows you to enable record or not in holiday as per your setting.

**Step1.** Edit target channel to enable the holiday status.

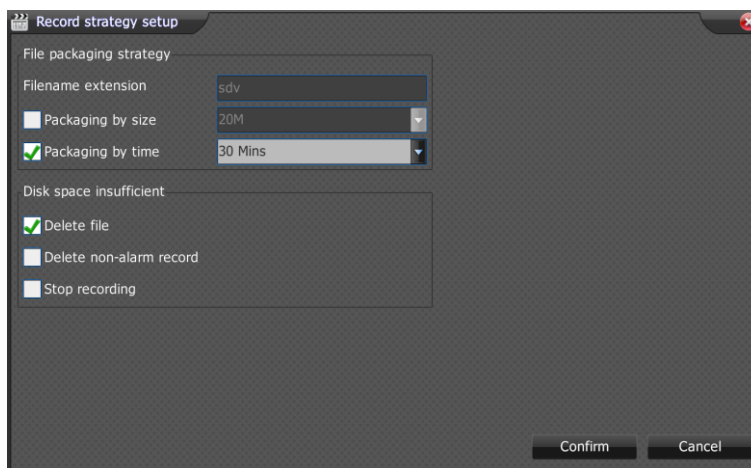


**Step2.** Select "Holiday" mode in Video Template → Advanced page.



### 5.4 Record Strategy setup

Path: Record → Strategy



#### 5.4.1 File packaging strategy

You can choose to package each recording file by size or by time

#### 5.4.2 Deleting strategy

When the disk space is full you can choose one of 3 ways as below

- A. Delete file → Overwrite the earliest recording files
- B. Delete non-alarm record → Overwrite all recording files except alarm video



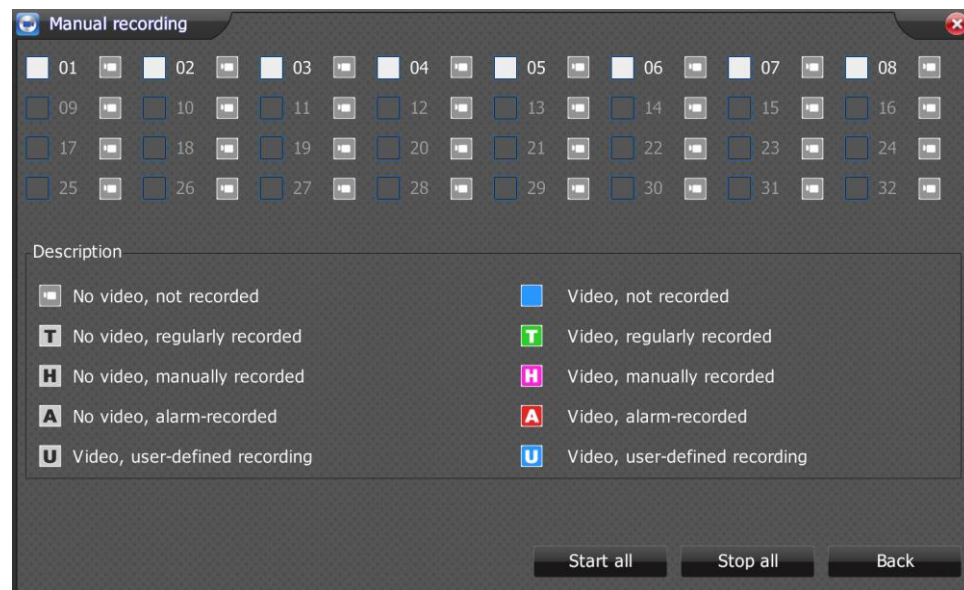
C. Stop recording → Don't overwrite any files and stop recording

### 5.5 Manual recording

Path: Record → Manual

You can check any channels which you want to record manually.

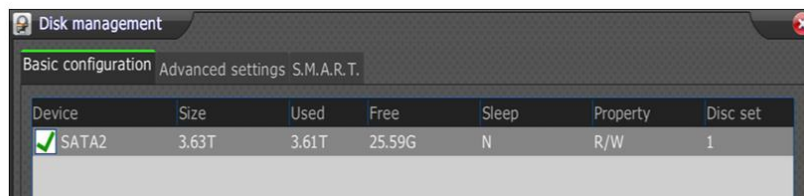
Description: to show status of targeted channels.



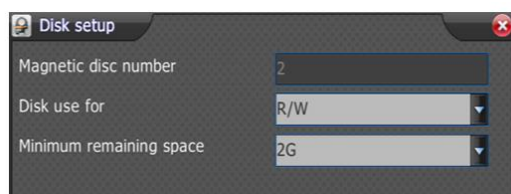
## 6. How to setup Redundancy Recording

Path: System → Disk → Disk management

**Step1.** Check target disk.

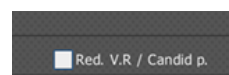


**Step2.** Select disk use for R/W (redundancy recording)



**Step3.** Record → Template

Check Red.V.R / Candid p.(redundancy recording mode)

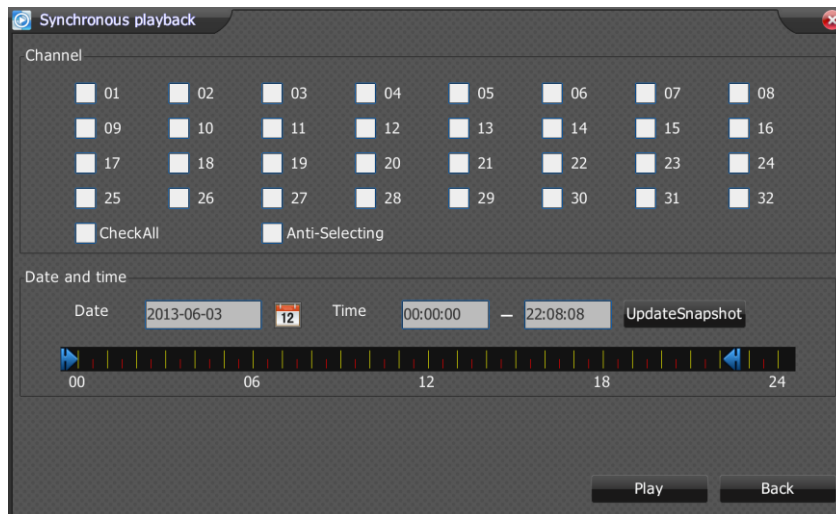




## 7. How to setup Sync playback

**Step1.** Check targeted channels for sync playback

If there are recording files checked channels can share it will show lines in green at timeline below.

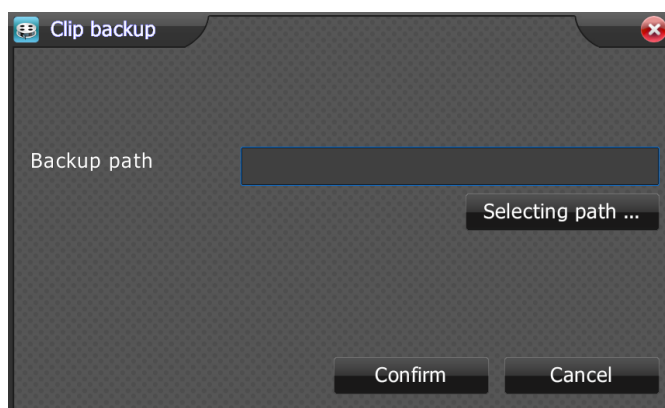


**Step2.** Control playback for checked channel



**Step3.** Use scissor tool to cut a clip of video you want and export it to U-disk.

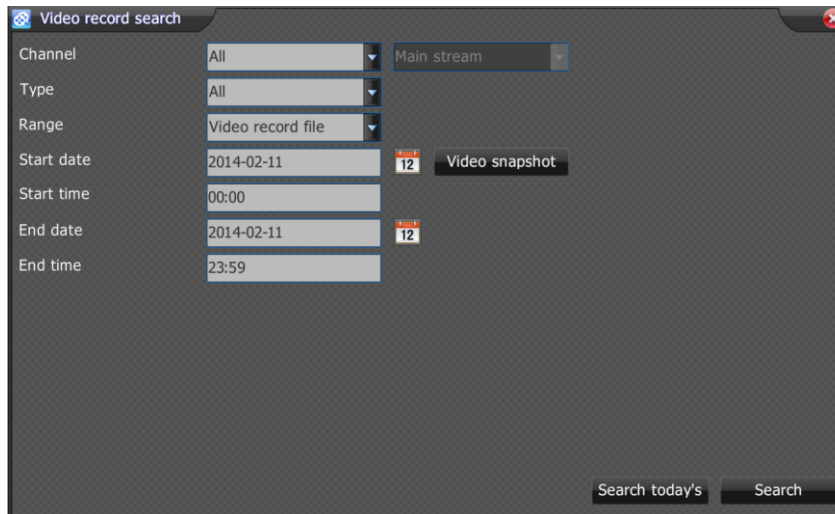
Click the scissor icon first for beginning and second for ending.



## 8. How to export the video recording

### Option 1 Normal Backup

#### Step1. Search Video Record

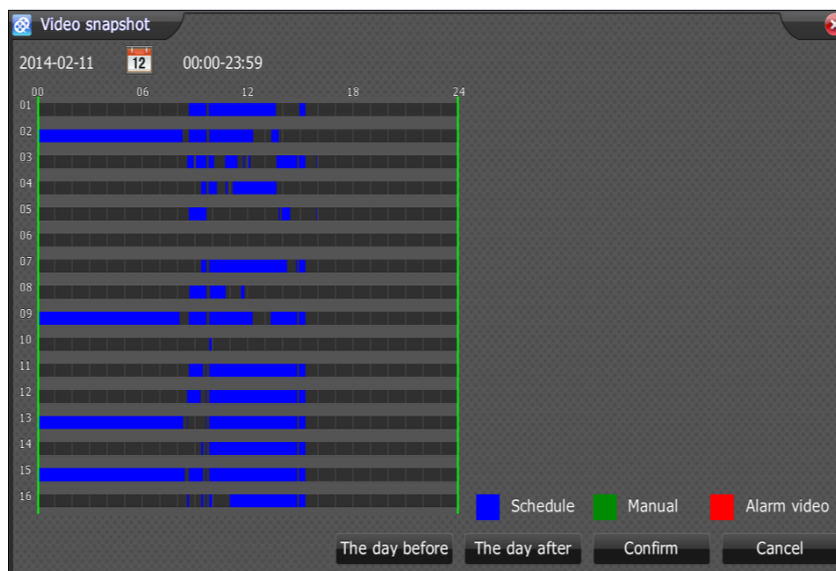


The 'Video record search' dialog box contains the following fields and controls:

- Channel: All (dropdown)
- Type: All (dropdown)
- Range: Video record file (dropdown)
- Start date: 2014-02-11 (calendar icon)
- Start time: 00:00 (time input)
- End date: 2014-02-11 (calendar icon)
- End time: 23:59 (time input)
- Main stream: Main stream (dropdown)
- Video snapshot button
- Search today's button
- Search button

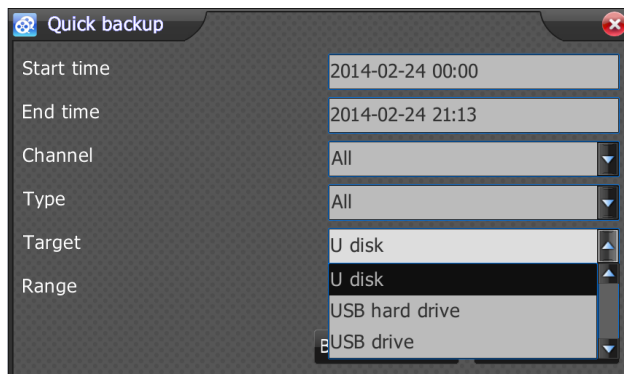
#### Step2. Video snapshot

To see which period the video is available and what kind of video it is in a day.



### Option 2 Quick Backup

This is a quick way to search video files in a period. And you can choose to export the video to U disk, network hard drive or other devices.



The 'Quick backup' dialog box contains the following fields and controls:

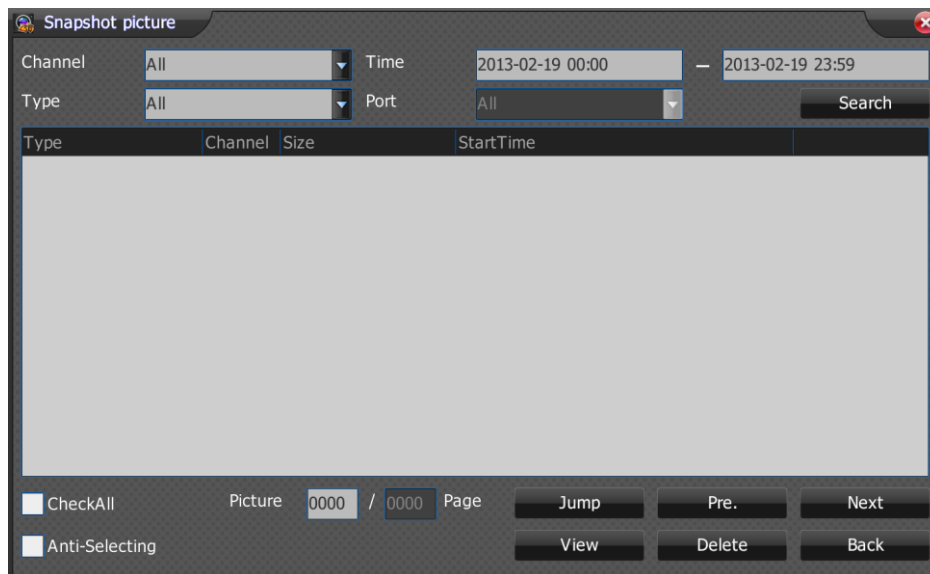
- Start time: 2014-02-24 00:00 (time input)
- End time: 2014-02-24 21:13 (time input)
- Channel: All (dropdown)
- Type: All (dropdown)
- Target: U disk (dropdown)
- Range: U disk (dropdown)
- USB hard drive (dropdown)
- USB drive (dropdown)

## 9. How to setup snapshot

### 9.1 Snapshot picture

Path: Record → Snapshot

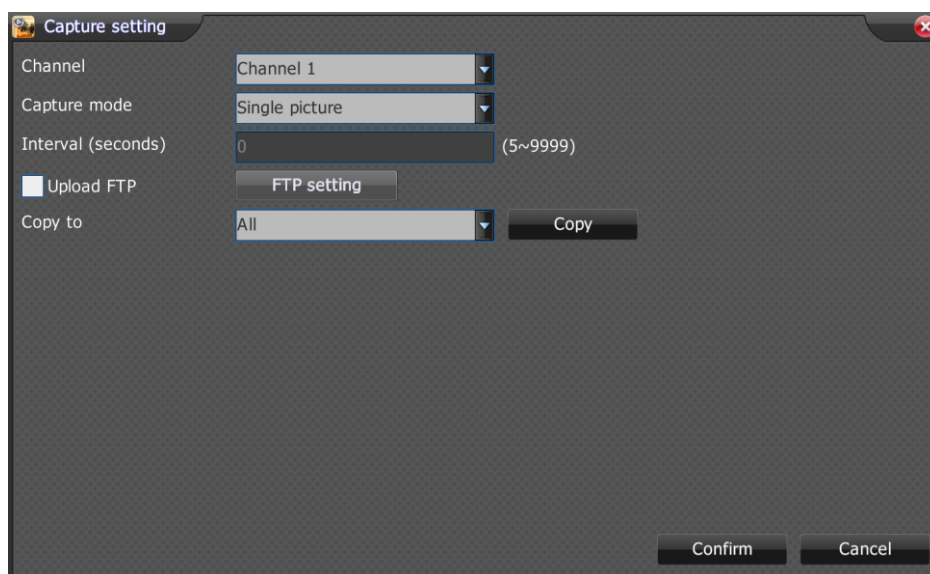
This allow you to browse and search snapshot picture here



### 9.2 Capture Setting

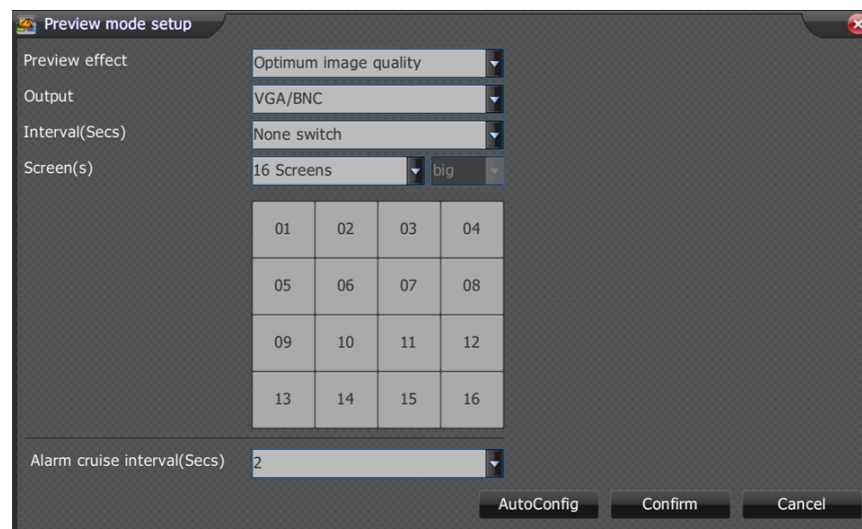
Path: Record → Capture set

The NVR will automatically capture snapshot pictures at a certain interval seconds as your setting ranging from 5 to 9999 seconds, also which allow you to upload the pictures by FTP.



## 10. How to setup preview

Path: Preview → preview mode setup



**Preview effect** → If you select “Maximum performance capacity” as the recommend you will get as the most channels for preview at the same time as you can.

If you select “Optimum image quality” there are limit of channels for preview at the same time.

**Output** → You can choose either HDMI1 or HDMI2 (different source),VGA or BNC.

**Interval** → When you set switch of preview you can setup interval seconds for switch.

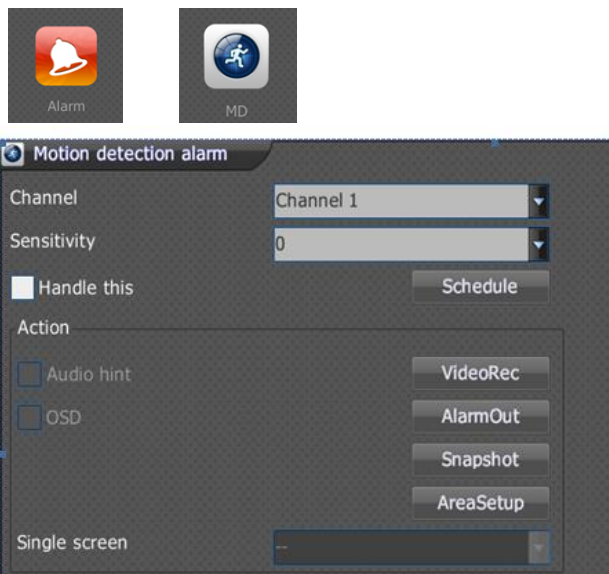
**Screen** → Target a suitable split screen according to channels.

**Alarm cruise interval** → Setup interval seconds for triggered alarm channels.

**Auto configure** → NVR will distribute channels into each screen orderly.

# 11. How to set Motion Detection

Path: Alarm → MD



11.1 Enter into motion detection alarm page.

Handle this → Check it to enable the motion detection

Sensitivity → Set sensitivity of motion detection

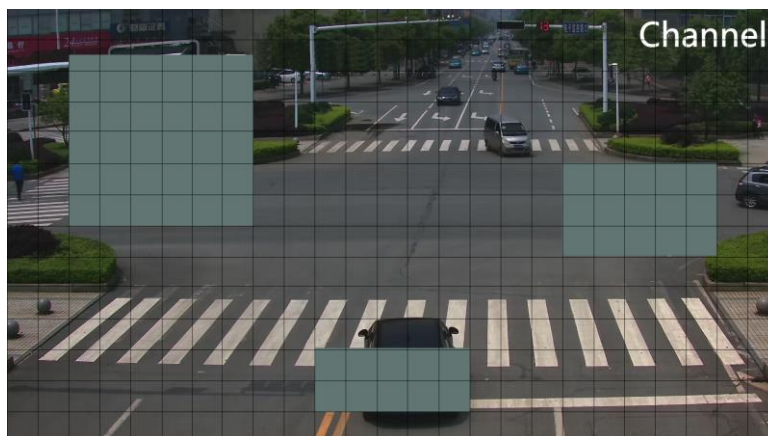
Schedule → Setup schedule for targeted event

Video Rec → To make a linkage between alarm and recording

Alarm Out → To make a linkage between alarm and alarm host

Snapshot → To make a linkage between alarm and capture snapshot pictures

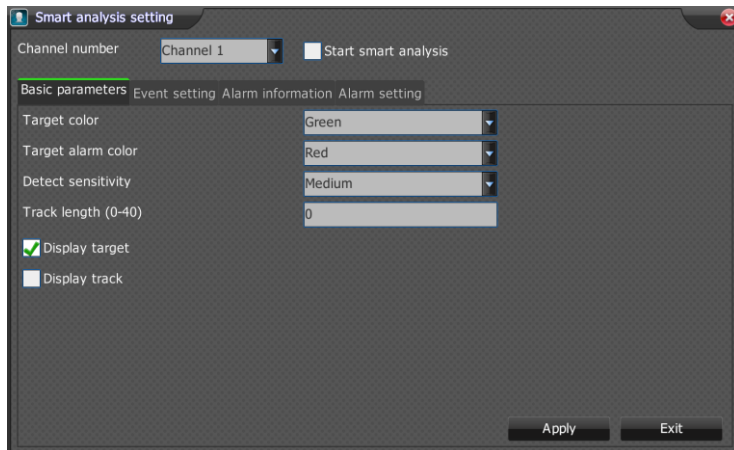
Area Setep



## 12. How to setup IVA(Intelligent Video Analysis)

Path Alarm → UI Analysis

**Step1.** Start smart analysis → Check to enable IVA



**Step2.** Basic Parameters

Target color → Select square color of objections

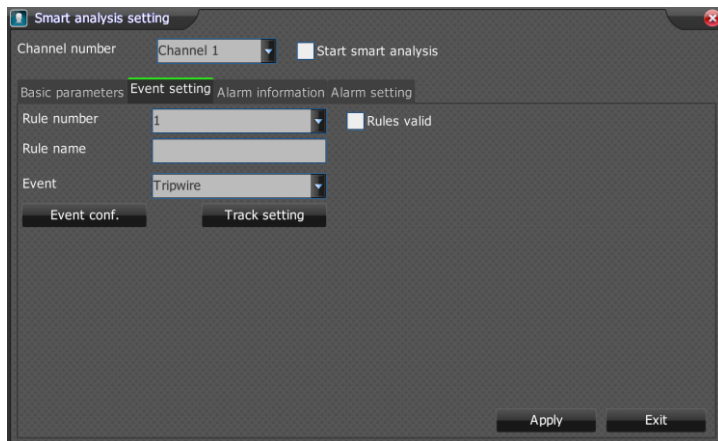
Target alarm color → Select square color of objections when it alarms

Detect sensitivity → Set sensitivity for IVA detection

Track length → Set the tracing lines length of objections

Display target → Check to display the square of objections

Display track → Check to display the tracking lines



**Step3.** Event setting

Rules Valid → Check to enable rules of IVA

Rule number → Set rule number for IVA

Rule name → Set rule name for IVA

Event → Include 4 kind of rules as below

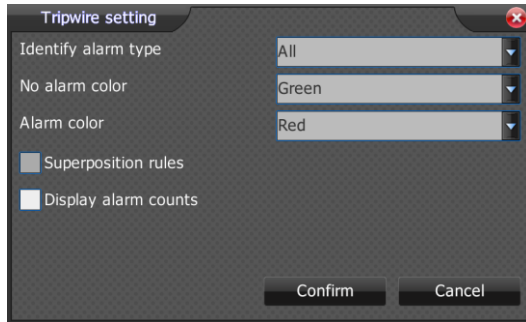
Tripwire: The NVR will alarm automatically when anyone crossover the preset lines

Area protection: The NVR will auto alarm when anyone step into preset areas

Object lost: The NVR will auto alarm when anything would be left or gone in preset areas

Video signal detection: The NVR will auto alarm when the video signal does not work well

Event configure

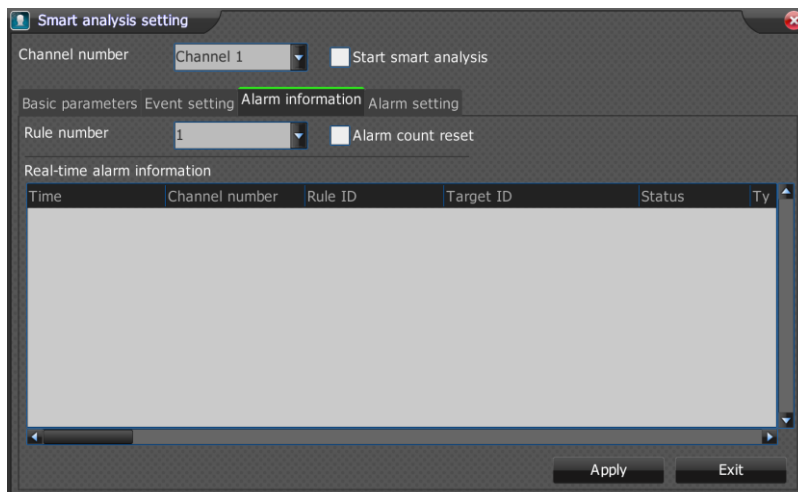


Track setting → Preset to draw lines or areas for alarm

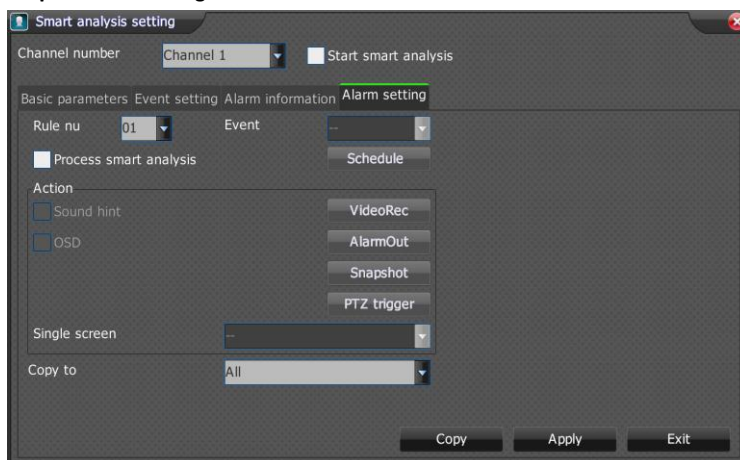


#### Step4. Alarm information

Alarm count reset → Check to clear alarm count number



#### Step5. Alarm setting



Rule no. → To appoint a rule number

Event → Select a targeted event

Process smart analysis → To activate selected event



Schedule → Setup schedule for targeted event

Video Rec → To make a linkage between alarm and recording

Alarm Out → To make a linkage between alarm and alarm host

Snapshot → To make a linkage between alarm and capture snapshot pictures

PTZ trigger → To make a linkage between alarm and PTZ preset, cruise or pattern mode

Single screen → To activate single preset screen when it alarms

Sound hint → Check to enable the NVR buzzing when it alarms

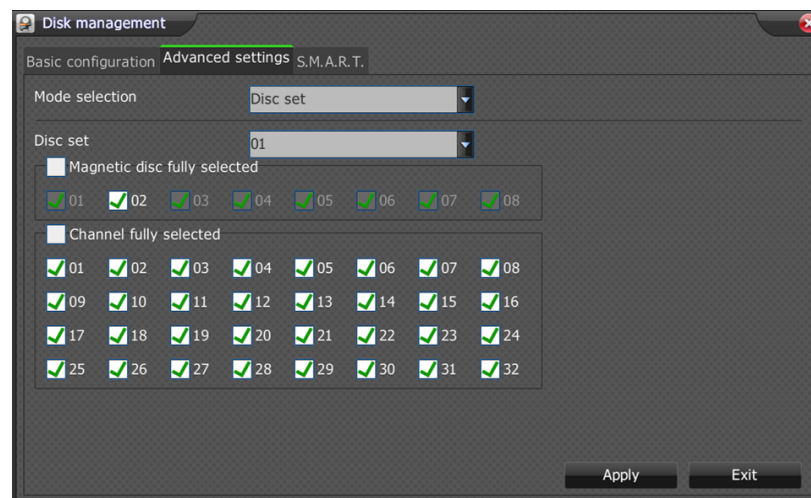
OSD → Check to enable OSD when it alarms

## 13. How to setup disk group and quota mode

### 13.1 Disk group

It allow you to distribute different group for different disks and appoint recording of each channel into targeted disk group.

Path: System → Disk → Advanced settings



Mode selection → Disk set

Disc set → Disk group number

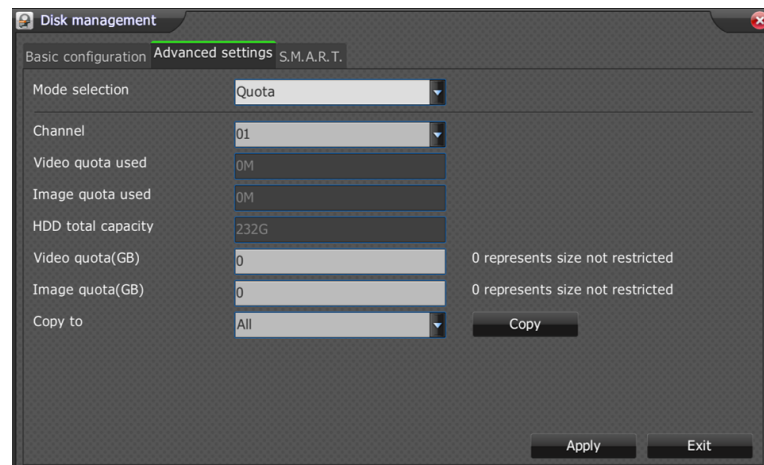
Disk number → Check to sort out into targeted disk group

Channels number → Check to sort out into targeted disk group

### 13.2 Quota mode

It allow you to see all the real disks as one virtual disk by which you can utilize fragment space of each disks

Path: System → Disk → Advanced settings



Mode selection → Quota

Video quota → Distribute how much space for video recording files

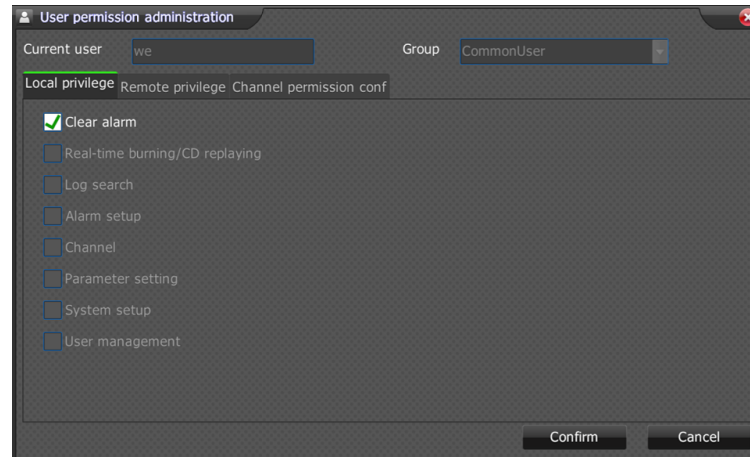
Image quota → Distribute how much space for snapshot picture files

## 14. How to setup authority for different users

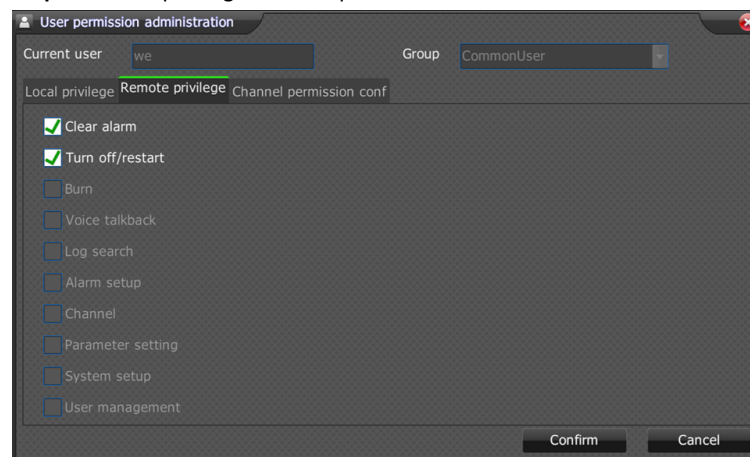
Current User → Current user ID

Group → Granted permission for current user

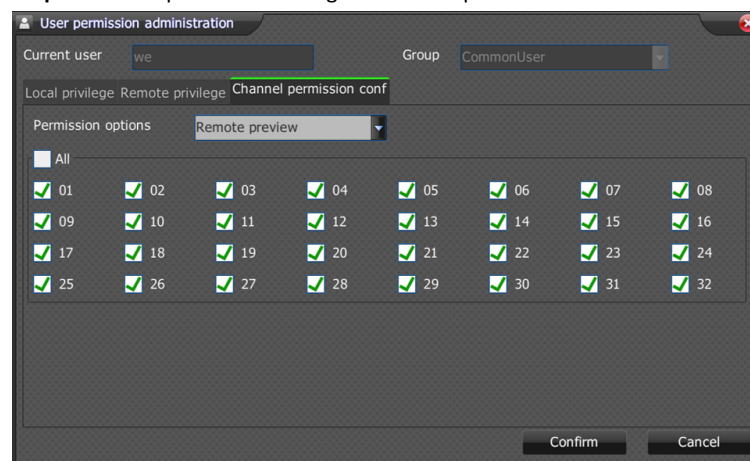
**Step1.** Local privilege → Grant permission for local control



**Step2.** Remote privilege → Grant permission for remote control

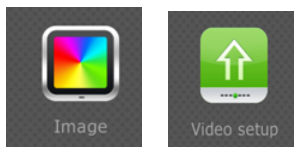


**Step3.** Channel permission configure → Grant permission for checked channels

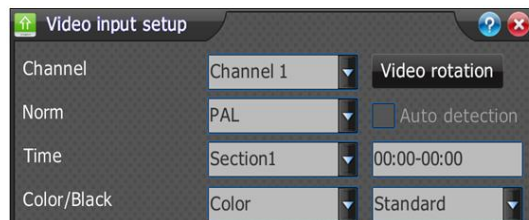


## 15. How to set Color to Black

Path: Image → Video Setup

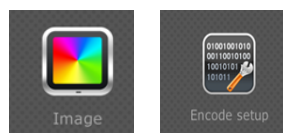


Color/Black → Set period in color or black&white mode.

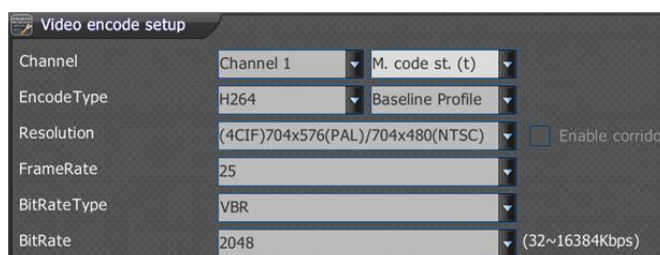


## 16. How to set Bitrate for main or minor stream

Path: Image → Encode Setup



Set bitrate ranging from 32K to 16M.

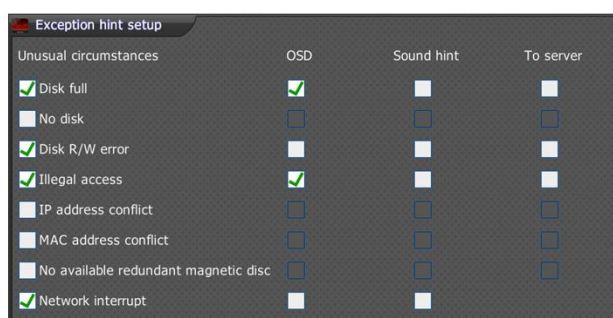


## 17. How to set exception hint?

Path: System → Exception

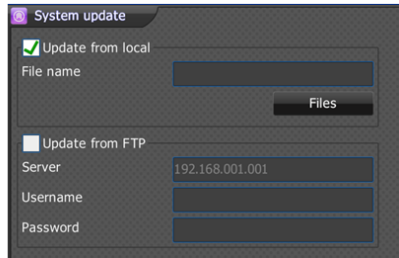
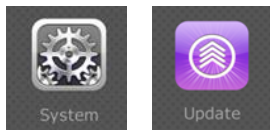


Select how to hint for abnormal situation in exception interface.



## 18. How to upgrade the device

Path: System → Update



### 18.1 Local upgrading

**Step1.** Plug USB storage device with upgrade firmware into NVR.

**Step2.** Check update from local

**Step3.** Click files to select target firmware(.bin or .box).

**Step4.** Click update to confirm.

### 18.2 Remote upgrading

**Step1.** Check update from FTP

**Step2.** Input IP address for FTP server

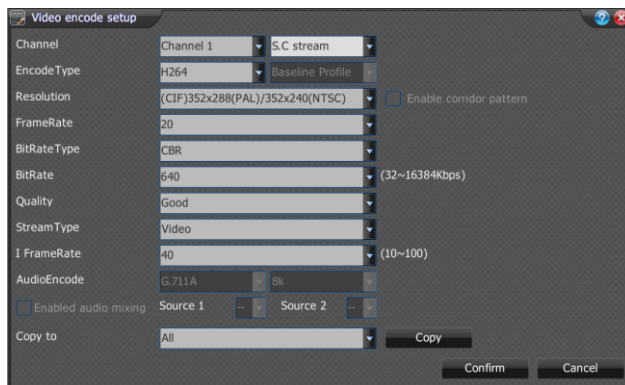
**Step3.** Input correct user name and password.

**Step4.** Click update to confirm.

## 19. How to setup APP software

**Step1.** Download “Danaha” from Apple or Android app store in mobile phone. Then enter Danaha ID in adding device interface.







**Step2.** Set video second stream “S.C stream” as CIF resolution in NVR.













**Step3.** Enter **ID** in PU set in web client interface of NVR. Make sure it is same as what you enter in APP in your mobile.










The screenshot displays the NVR web client interface. On the left is a navigation menu with the following items: Audio Video Set, Camera Set, VCA, OSD, Storage Management, Network Management, User Management, Alarm Management, PTZ Management, Advance Set, Local Set, System Set, System Maintenance, and Access Platform. The 'Advance Set' item is expanded, showing sub-items: SIP Set, Local Set, System Set, System Maintenance, and Access Platform. The 'SIP Set' sub-item is selected, and its configuration page is shown in the main area. The 'SIP Set' page has a title bar with 'PU Set' and 'SIP Set' tabs. Below the tabs are several configuration fields: 'Server IP' (0 . 0 . 0 . 0), 'Server Port' (0), 'Server ID' (empty), 'Device ID' (Danaha app ID, highlighted with a red box), 'User Name' (empty), 'Password' (empty), 'Reg/validity' (0), 'Keep-alive' (0), 'Heartbeat Interval' (0), 'Heart Rate' (0), and 'Need to Register' (checkbox). At the bottom, there are 'Channel No.' (Channel 1) and 'Channel ID' (0) fields.






## Appendix. Main menu navigation








Main Menu	Sub-menu	Contents
 Image	 Display	Resolution settings for HDMI and VGA, and BNC format. Auto Detection Anti-flicker Main port setting Time display Menu property Buzzer and overtime setting Hide or display for indicators of recording Enable boot the wizard Mouse moving speed
	 Video Setup	Video Flip Video input format Schedule of video parameters adjust Settings for brightness, contrast, saturation, color and etc. Color to Black
	 Encode Setup	Video encode mode and pattern Resolution Frame Rate (FPS) Bit rate type Bit Rate Image Quality Stream Type I-Frame Audio Encode Corridor Mode
	 OSD	OSD for channel name and settings for color and position OSD for date and settings for color and position OSD for Week and 12-hour clock OSD for LOGO, content and position Customized OSD for content and position
	 Encryption	Encryption Settings








	 Preview Trim	Preview trim settings
Record	 Template	Recording schedule settings Recording Type Event pre-alarm Event post alarm Holiday recording settings
	  Strategy	Extension name of video files Package mode of video files Strategy of video files when the disk is full
	 Manual	Start or Stop manual recording
	 Playback	Play back the video, including speed up, slow down, step by frame, play for signal file, loop playback, add tag, management tag, tag playback, external files playback, move backward in 30 second, smart search.
	 Management	Search the video files Backup settings Quick backup settings
	 Snapshot	Snapshot pictures search Snapshot pictures Preview
	 Capture Set	Snapshot Mode Snapshot interval times Snapshot upload by FTP or SMTP
	 Reindex	Reindex the video files when the disk is replaced or index file is damaged.




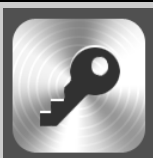



	 Type Management	Set customized the type of video files
	 Burn	Burn the video files into CD or DVD Burn mode, speed and settings for seal and ejection
	 DVD Playback	Play back by DVD
 PTZ	 Decoder	Decoder protocol settings Decoder address settings Serial customized property settings
	 PTZ	Control PTZ Preset setting and calling Cruise path setting Track recording and playing Wiper Control Lamp and auxiliary switch
	 Protocol	Add or delete protocols in the protocol box
 Alarm	 Alarm In	Alarm input trigger port Arming time alarm input When prompted whether to sound the alarm occurs Alarm occurs when an alarm message is displayed on the screen Alarm input linkage video Linkage alarm input capture Alarm input linkage alarm output Enter the preset alarm linkage call Alarm input linkage cruise path calls Alarm input linkage locus call

	 Alarm Out	Signal alarm output channel delay Arming time alarm output channel
	 Motion Detection	Motion detection sensitivity Motion detection area Motion detection time Whether voice prompts generated when motion detection alarm When motion detection alarm generates an alarm message is displayed on the screen Motion Detection Alarm Recording Motion detection alarm linkage capture Motion detection alarm linkage alarm output channel
	 Video Lost	Video loss alarm is armed Whether voice prompts video loss alarm is generated Video loss alarm generated when the alarm message is displayed on the screen Capture video loss alarm linkage Video loss alarm linkage video Video loss alarm linkage alarm output Video loss alarm linkage preset call Video loss alarm linkage cruise route calls Video loss alarm linkage locus call
	 IVA Intelligent Video Analysis	IVA Channel Enable Set IVA of basic parameters Rules enable IVA and parameter settings IVA alarm count is cleared IVA real-time alarm information display IVA arm set IVA of whether voice prompts alarm occurs IVA of whether an alarm generated alarm message on the screen IVA alarm linkage analysis to capture IVA Alarm IVA alarm linkage alarm output analysis <b>Note: Only full function model NVR support IVA</b>
	 Mask	Arming video tampering Whether voice prompts generated when the video tampering

		<p>Video produced tampering alarm message is displayed when the screen</p> <p>Video capture occlusion alarm linkage</p> <p>Video recording occlusion alarm linkage</p> <p>Video Tampering linkage alarm output</p>
	 Alarm Host	<p>Linkage Network alarm host</p> <p>Serial linkage alarm host</p>
	 Manual Alarm	Manual alarm output
	 Clear Alarm	Clear all current alarm linkage operation
 Preview		Set the preview mode, alarm cruise intervals, set the order of the channel preview
 System	 System Info	<p>Device name, number set</p> <p>Automatically restart the device settings</p> <p>Equipment manufacturers related information</p> <p>Device serial number</p> <p>Kernel version, encoded version, web version, UI version display</p> <p>Memory Information Display</p> <p>System Time</p>
	 Network Setup	<p>IP address, MAC address display</p> <p>PPPoE settings</p> <p>Automatically obtain an IP address / IP address manually set</p> <p>Set DNS Manually</p> <p>IP permissions</p> <p>Registration Center</p> <p>DDNS settings</p> <p>FTP settings</p> <p>SMTP settings</p> <p>Other network protocol settings</p>

		<p>Network Detection</p> <p>Network Resources Statistics</p>
	 <p>Serial</p>	<p>Set the serial port parameters</p>
	 <p>Disk Management</p>	<p>System hard List</p> <p>Formatting the hard drive</p> <p>Hard disk partitioning operations</p> <p>Select the hard disk usage, video, backup, read-only, redundant</p> <p>Disk group settings</p> <p>Quota Set</p> <p>Disk S.M.A.R.T. detection</p>
	 <p>System Log</p>	<p><b>Log search</b></p> <p><b>Log export</b></p>
	 <p>Update F/W</p>	<p><b>Update by USB at local</b></p> <p><b>Update by FTP at remote</b></p>
	 <p>Exception</p>	<p>Tip way disk at full emergence of abnormal system</p> <p>Prompted abnormal way diskless system</p> <p>Tip way disk read and write error exception occurs when the system</p> <p>Tip illegally accessing the system appear abnormal</p> <p>Prompt manner IP address conflict occurs when abnormal system</p> <p>Prompt manner MAC address conflict occurs when abnormal system</p> <p>When prompted no available way redundant disk systems</p> <p>Tip off mode network appears abnormal system</p>
	 <p>Configuration</p>	<p>DVR / NVR parameter reset</p> <p>Export Configuration parameters DVR / NVR's</p> <p>Import configuration parameters DVR / NVR's</p>
		<p>Video Input channel name management</p> <p>Alarm input channel name management</p>

	Alias	Alarm output channel name management
	 Time Setting	System time zone, time setting Set NTP timing
 Users		Add User Delete User Edit User Information Edit User Permissions Online users list
 Channels		Configure the digital channels Set to open or not as well as plug and play mode Display digital channel connection status All enabled, disable all digital channels Network access bandwidth remaining display IPC centralized management (parameter import, export parameters, remote upgrade, restart the IPC, etc.)
 Log Out		Cancellation currently logged Refresh interface Reboot Shutdown
 Help		UI instructions