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NVR U2

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NVR U2

Quick Set Up (You can also choose to skip and set up later on the function page)

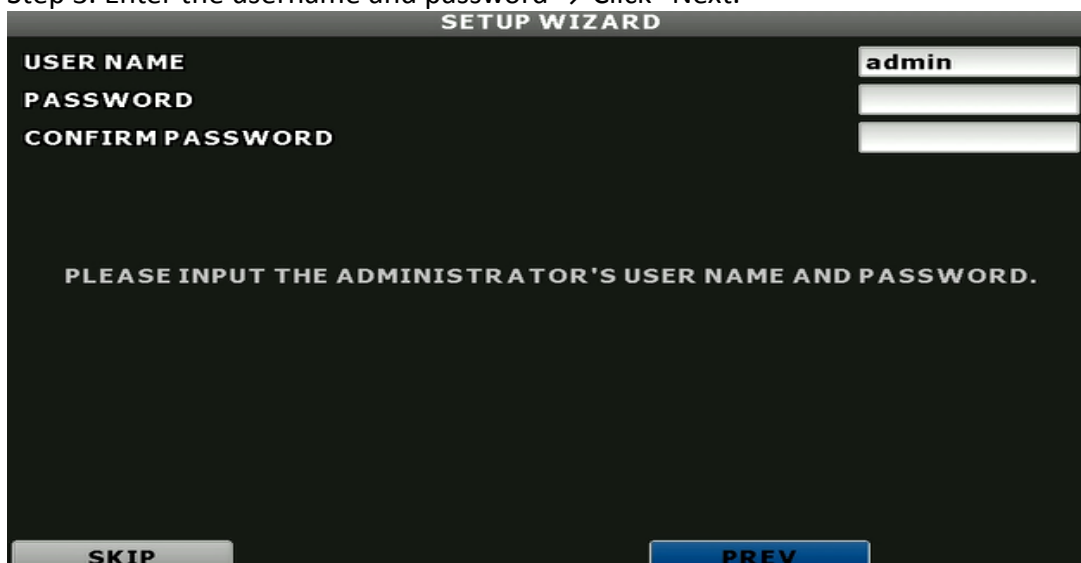
Step 1. Click "Next" to start the setup.



Step 2. Enter the device name → Click "Next."



Step 3. Enter the username and password → Click "Next."

**Note:** It is recommended to change the default username and password to prevent data from being hacked.

Step 4. Set the date format → Click "Next" → Adjust the time server time zone → Click "Next."

SETUP WIZARD

DATE: 2023/JUL/28
 TIME: 13:48:50
 FORMAT: Y/M/D
 GMT: (GMT-05:00) EASTERN TIM

SETUP WIZARD

NTP SERVER: pool.ntp.org
 SYNC PERIOD: DAILY

SKIP

SKIP PREV NEXT

Step 5. If connecting to the router, please select "DHCP" → Click "Finish." (If using EaZy Networking, choose "DHCP"; otherwise, select "Static IP.")

SETUP WIZARD

NETWORK TYPE: DHCP
 IP: STATIC
 GATEWAY: DHCP
 NETMASK: PPPOE

NETMASK: 255.255.255.0
 PRIMARY DNS: 8.8.8.8
 SECONDARY DNS: 168.95.1.1
 PORT: 80

SKIP

PREV DONE

Step 6. After confirming the device information, click "Finish" to complete the setup.

SETUP WIZARD

[DEVICE TITLE]:
 [ADMINISTRATOR]: admin

[NETWORK TYPE]: DHCP
 [IP]: 192.168.1.10
 [GATEWAY]: 000.000.000.000
 [NETMASK]: 255.255.255.0
 [PORT]: 80

PREV FINISH

Interface Overview - Main Screen

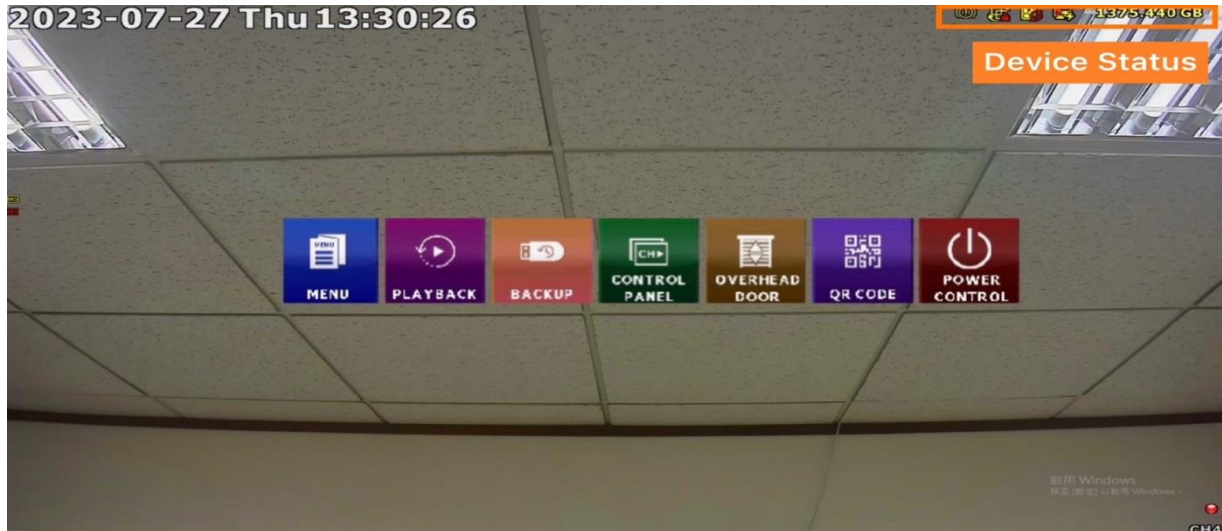
To use the menu, right-click on the screen.



Function Name	Icon	Function Description
MENU		System, Alarm, Recording, System Info, Camera, HDD, Network, and Account Settings
PLAYBACK		Play recorded data.
BACK UP		Backup recorded data.
CONTROL PANEL		Real-time video layout configuration, image zooming, and switching.
OVERHEAD DOOR		Overhead door control.
QR CODE		Display QR Code and scan UUID to add the device to the remote monitoring program AVTECH DVR.
POWER CONTROL		Log out of the account.

Interface Overview - Device Status Icons

2023-07-27 Thu 13:30:26















Function Category	Icon	Function Name
HDD Overwrite Status		HDD overwrite enabled
		HDD overwrite disabled
Screen Lock Status		Screen locked
		Screen unlocked
Alarm Sound Status		Alarm sound off
Network Connection Status		(WAN) Connected to the Internet
		(WAN) Connected to the Local Area Network
		(WAN) No network connection

Interface Overview - Channel Status Icons

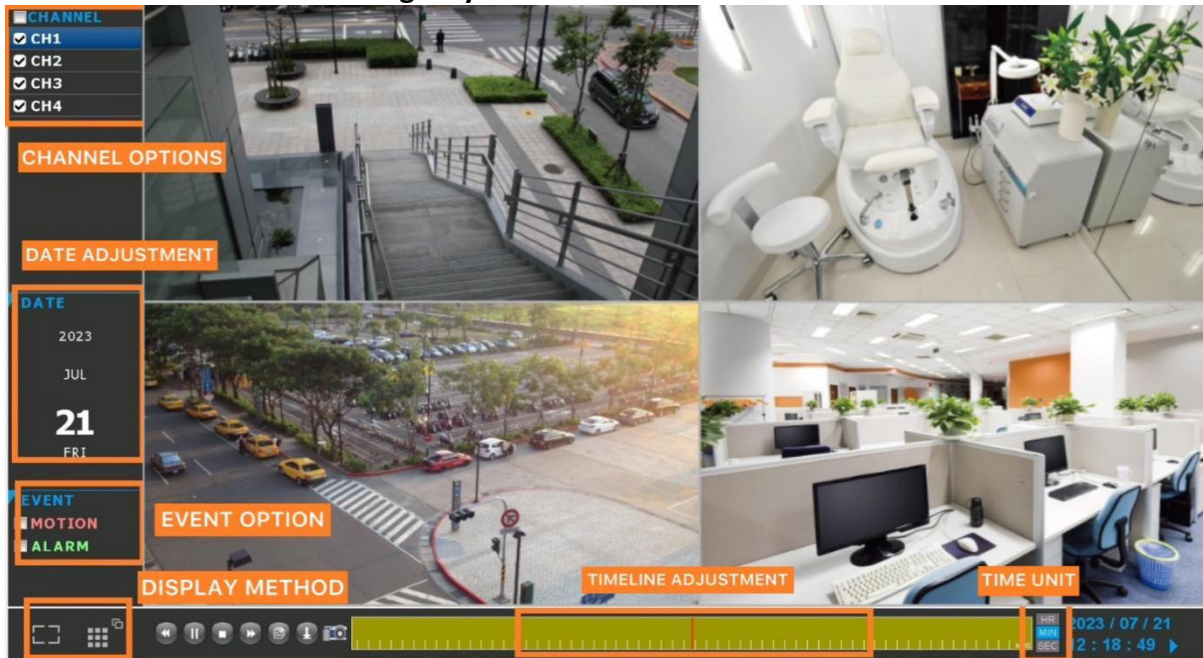
2023-07-27 Thu 13:31:03



Function Category	Icon	Function Name
Camera Status		Camera disconnected
		Camera settings
Sound Status		Sound on
		Sound off
Alarm Status		Alarm triggered
		Alarm triggered off
Recording Status		Recording in progress
Event Detection		Alarm event
		Motion detection event
		PIR event

Video Adjustment		Original size
		Fit to screen size









Interface Overview - Recording Playback



Function Name	Icon	Function Description
Fast Forward		Fast forward video playback.
Rewind		Rewind video playback.
Play/Pause		Play/Pause video.
Stop		Stop video playback.
Event List		Search for recorded events by type (motion detection/alarm). Show All Event Records Click to view the complete event list.
Backup		Backup recorded video files to external USB drives.
Snapshot		Quickly capture and save screen images to external USB drives.

Interface Overview - Menu Function



Function Name	Icon	Function Description
System		System settings, time, display settings, and version updates.
Alert		System, motion detection, alarm input, output settings.
Record		Recording schedule and streaming settings.
System Info		System firmware version and event log.
Camera		Advanced settings related to cameras.
HDD Info		HDD formatting and status checking.
Network		Advanced network settings.
Account Setup		Add, delete, and edit account permissions.

Menu Function - System Settings

1. SYSTEM

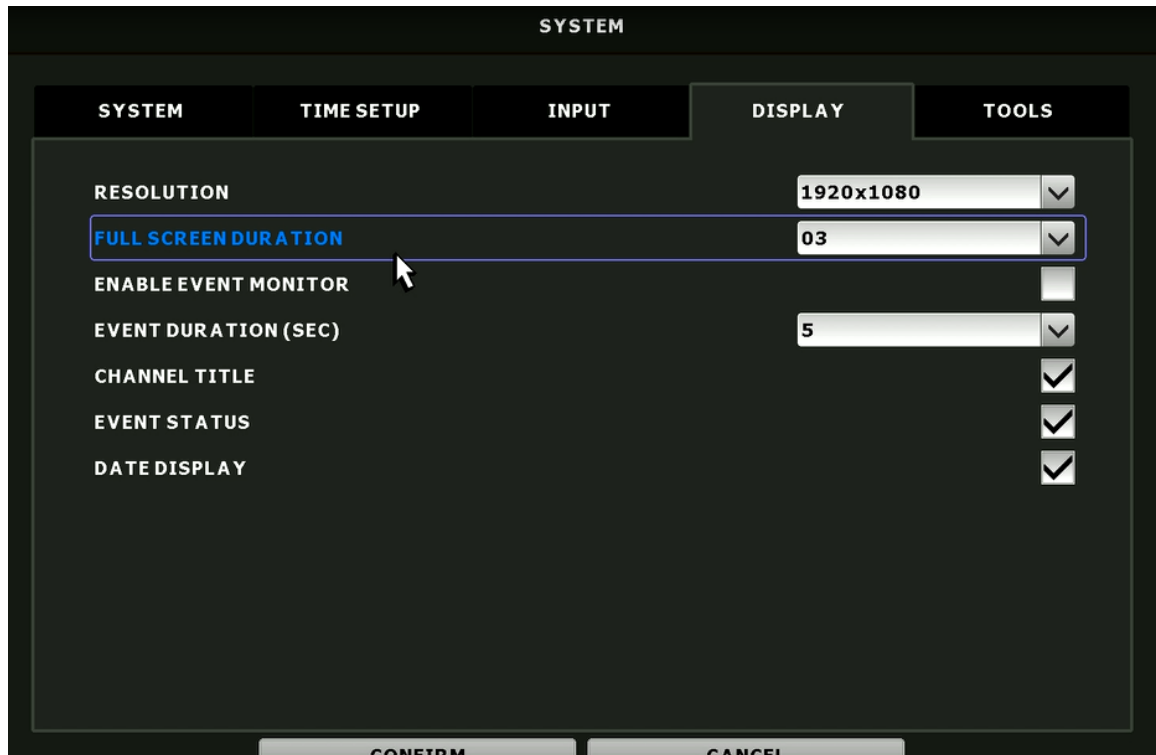
1. Device Title: Change the DVR system's name (default uses channel number as the name).
2. Video Format: Choose NTSC or PAL.
3. Auto Reboot: Enable scheduled restart, set the frequency for automatic restart.
4. Language: Choose the display language.
5. Key Lock: Automatically log out and lock the system after a period of inactivity. Set the auto-lock time in seconds (10-250 seconds, default is 30 seconds) or disable for manual log out.

2. TIME SET UP

1. DATE / TIME:
 - a. If connected to the internet, the system will synchronize the date and time automatically.
 - b. If not connected to the internet, manually adjust the date and time. After adjusting, it is recommended to format the HDD to avoid time data errors.

2. SYNC PERIOD: Confirm the device is connected to the internet → Enable sync period to "active" → Confirm the GMT time zone → Click "SUBMIT."
3. DAYLIGHT SAVING: Set daylight saving time. Enable it to "active" and set the time according to the region.

3. DISPLAY



1. **Resolution** : Set the main screen resolution (related to screen support).
2. **Full-Screen Duration (seconds)** : Set the time for full-screen channel stay → Right-click on the main screen and select "Channel" → Click on "Switch to Single Screen" → Click on "CH▶" → Click on "Start switching."
3. **Channel Title/Event Status/Display Date** : Enable to display corresponding information.

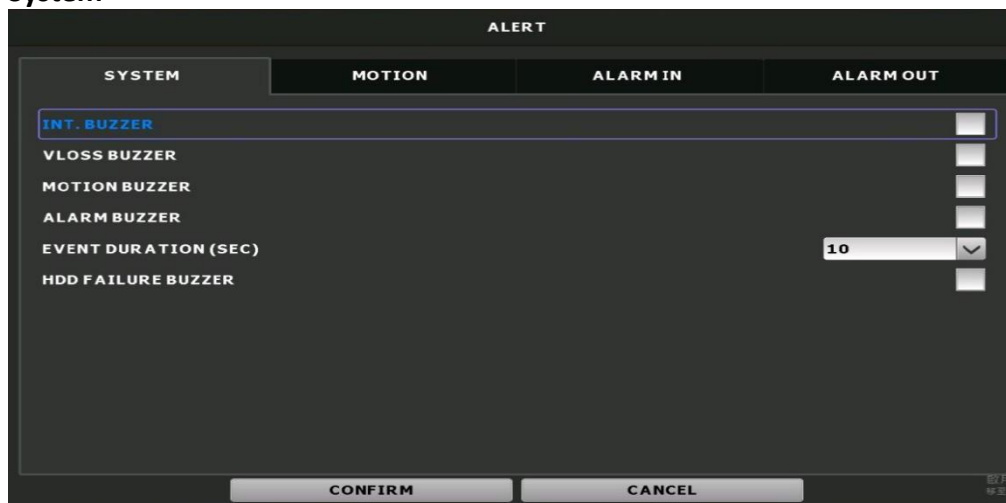
4. TOOLS



1. **Backup Configuration File/ Restore Configuration File** : To backup the configuration file, insert a USB flash drive → Choose "Submit" → The file will be named System.bin. To restore the configuration file, insert the USB flash drive containing System.bin → Select "Submit."
2. **Reset Default** : Reset the system to its factory default settings → After the process is completed, the system will restart.
3. **Backup Log** : Backup event logs to a file (e.g., motion detection, alarm triggered).
4. **Upgrade** : Perform an online or manual system upgrade → After the upgrade is completed, the system will restart (do not power off during the process to avoid damage).

Menu Function - Alert

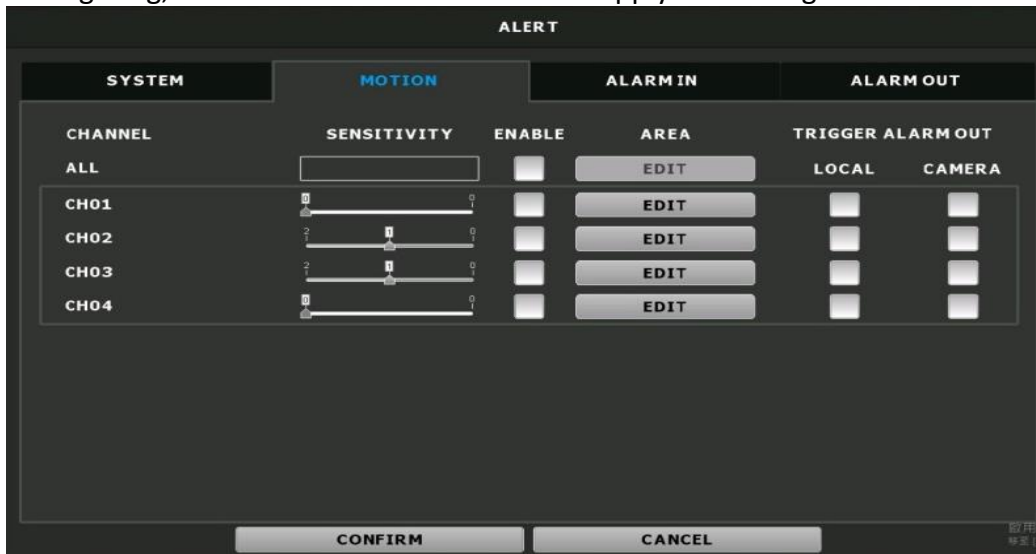
1. System



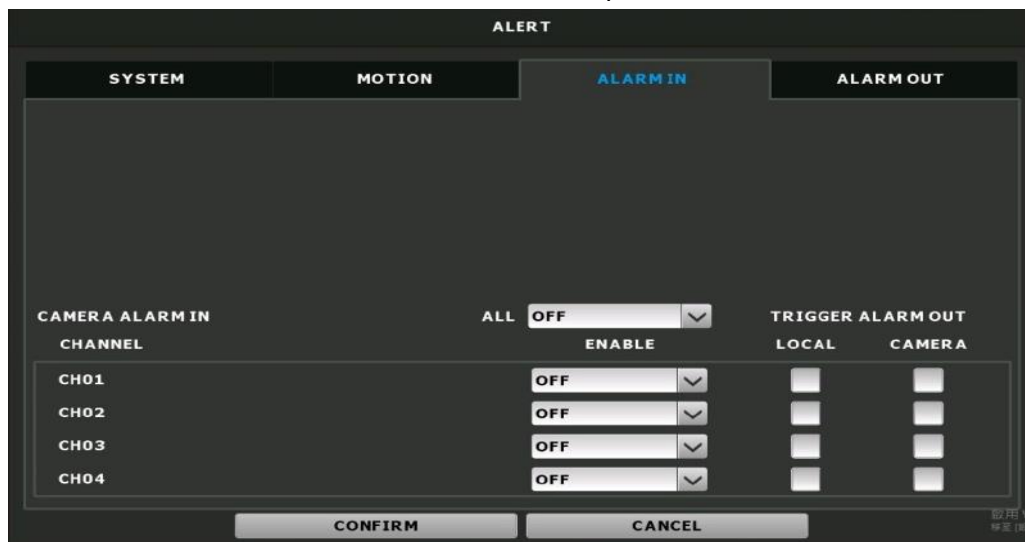
1. **Internal Buzzer** : Enable/disable all alarm sounds, including image loss, motion detection, alarm, and HDD error sounds. (When disabled, even if other alarm sounds are enabled, there will be no alarm sound).
2. **Vloss Buzzer** : Enable to sound an alarm when the image is lost.
3. **Motion Buzzer** : Enable to sound an alarm when motion is detected.
4. **Alarm Buzzer** : Enable to sound an alarm when an alarm event occurs.
5. **Event Duration (seconds)** : Set the duration of a single triggered event.
6. **HDD Failure Buzzer** : Enable to sound an alarm when the HDD health is poor.

2. Motion Detection

Enable "All" applies the same settings to all channels or sets different settings for each channel. After configuring, click "Confirm" at the bottom to apply the settings.



1. **Sensitivity** : Set the sensitivity of motion detection from 1 to 10 (higher values mean higher sensitivity).
2. **Area** : Click "Edit" to enter motion area settings. Use the mouse to click and drag to modify the detection area. → Right-click to save and exit (non-red areas are the detection areas).
3. **Alarm In** : Select "N.C." or "N.O." depending on the connected alarm input device. Choose "Off" if there is no connected alarm input device.



4. **Alarm Out** :
 → To automatically stop the alarm output after a specified time, enable the auto-reset function ("Enable") → Set the alarm output reset duration.



Menu Function – Recording

In each tab, enable "All" applies the same settings to all channels or sets different settings for each channel.

→ Choose the recording mode in "Mode" to apply the corresponding settings to Manual/Event/Timer record in each tab (check "Record" to enable or disable recording for each channel / "Audio" to enable or disable audio recording).



1. Manual Record

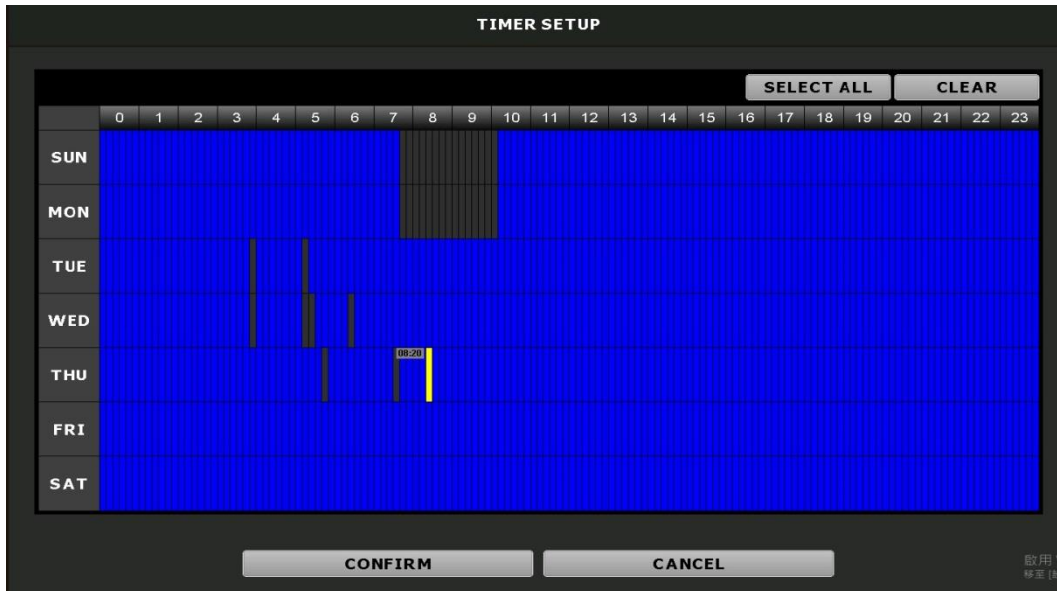
Select the channels to record → Start continuous recording.



6. **Motion Timer / Alarm In Timer** : Select channels → Adjust recording start time (each grid represents 10 minutes, selected time grids will be displayed in blue) → Check "Enable" → Click "Confirm" to save and exit.

3. Scheduled Recording

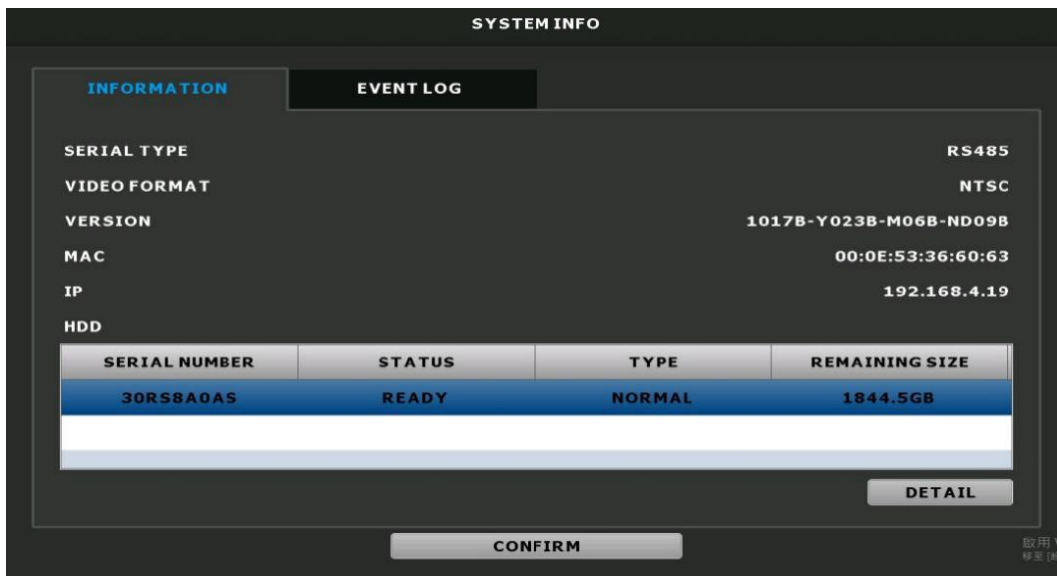
- Click "Scheduled Recording Setting" → Select all channels and time for automatic recording → Schedule continuous recording during specified time periods.



Menu Function - System Info

1. System Info

View system information such as firmware version, MAC address, and HDD status of the DVR system.



2. Event Log

View system-related event logs, such as power on, image loss, login operations, HDD clear, etc.

EVENT	TIME	COMMENT
NET LOGIN	2023/JUL/21 13:23:51	admin
NET LOGIN	2023/JUL/21 13:20:23	admin
KEY UNLOCK	2023/JUL/21 10:17:45	admin
VIDEO_PLUGIN	2023/JUL/21 10:17:45	01
FAIL TO UPDATE IPCAM PARAMETER	2023/JUL/21 10:17:44	04
VIDEO_PLUGIN	2023/JUL/21 10:17:44	04
LAN PORT PLUGGED IN	2023/JUL/21 10:17:43	
VIDEO_PLUGIN	2023/JUL/21 10:17:42	02
VIDEO_PLUGIN	2023/JUL/21 10:17:42	03
EASY NETWORKING	2023/JUL/21 10:17:41	ONLINE
POWER ON	2023/JUL/21 10:17:35	
LAN PORT PLUGGED IN	2023/JUL/21 10:17:35	
INTERNET CONNECTED	2023/JUL/21 10:17:34	
WAN PORT PLUGGED IN	2023/JUL/21 10:17:34	
WAN PORT DISCONNECTED	2023/JUL/20 20:24:25	

Menu Function - Camera Settings (IP Cam)

Enter the corresponding vendor, IP address, port number, user name, and password in the fields below (you can also click "IP Search" to add devices).

01 02 03 04

NAME: CH1

MODE: IPCAM

VENDOR: AVTECH-Lite VIDEO FORMAT: H265

MODEL: USER NAME: admin

STREAM PROTOCOL: RTP-Unicast PASSWORD: ●●●●●●

METHOD: TCP AUDIO:

URI: 10.1.1.15

PORT: 80

PORT FORWARD: 81

CACHE TIME (MSEC):

IP SEARCH VIDEO SETUP

CONFIRM CANCEL

→ Click "Search IP " to automatically start searching for connected network cameras and list them. Select the devices to add and enter the camera's user name and password to automatically assign the camera to the corresponding channel. Press "Confirm" after completing the process.

	ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PO
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	10.1.1.15	255.255.252.0	10.1.1.10	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	10.1.1.13	255.255.255.0	10.1.1.10	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	10.1.1.11	255.255.255.0	10.1.1.10	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	10.1.1.12	255.255.255.0	10.1.1.10	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.4.121	255.255.252.0	192.168.5.254	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.4.7	255.255.252.0	0.0.0.0	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.4.101	255.255.252.0	192.168.5.254	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.8.12	255.255.255.0	192.168.8.1	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	3.250	255.255.0.0	10.1.3.10	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	1.250	255.255.0.0	10.1.1.10	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	2.169	255.0.0.0	10.1.9.254	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.4.86	255.255.252.0	192.168.5.254	8.8.8.8	8
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.4.65	255.255.252.0	192.168.5.254	8.8.8.8	80
<input type="checkbox"/>		<input checked="" type="checkbox"/>	IPCAM	8.4.107	255.255.252.0	192.168.5.254	8.8.8.8	8

NETWORK TYPE: DHCP

IP: 192.168.4.86

PORT: 88

USER NAME: admin

PASSWORD: ●●●●●●

NETMASK: 255.255.252.0

GATEWAY: 192.168.5.254

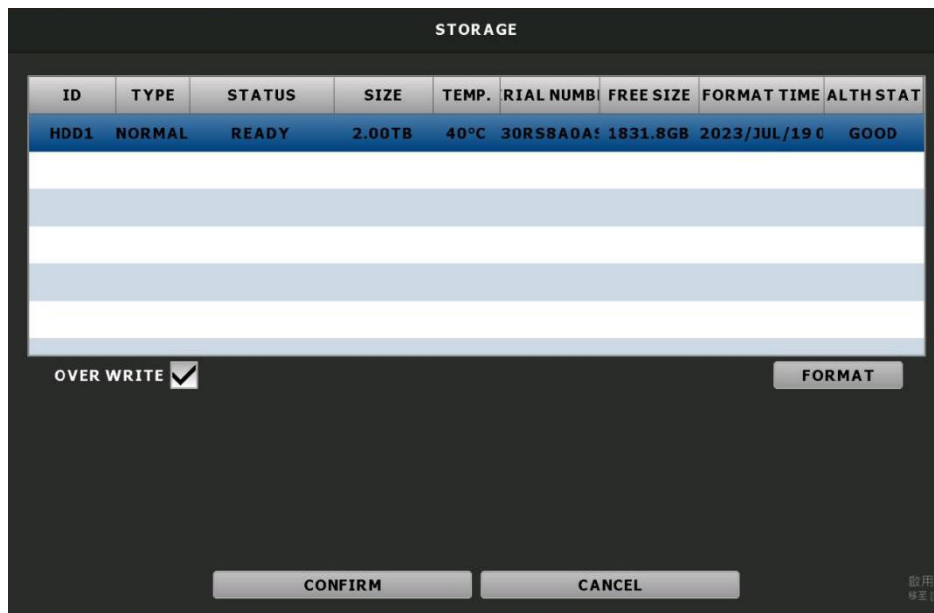
PRIMARY DNS: 8.8.8.8

CONFIRM CANCEL

REFRESH ADD EXI

Menu Function - HDD Information

Check if the installed hard drives are correctly detected and view their current status and information. When installing a new hard drive, the system will format it to ensure proper recording. If there is a need to manually format the hard drive during use (e.g., incorrect time settings), please perform the hard drive format.



1. **HDD Overwrite** : This function is enabled by default, allowing the system to automatically overwrite the oldest recorded data when the hard drive is full. If this function is disabled, recording will stop when the hard drive is full.

U2 NVR (ETU) LINE QUICK GUIDE

Menu Function - Network Settings

1. Wide Area Network (WAN)

Before configuring the network settings, please confirm your home's internet connection method and choose one of three IP configuration options, then enter the relevant information (if you need to modify the port number and DNS information, please do so in the HTTP page as well).

NETWORK		IP	192.168.4.19
NETWORK TYPE	STATIC	NETMASK	255.255.252.0
		GATEWAY	192.168.5.254
HTTP		PORT	80
		PRIMARY DNS	8.8.8.8
		SECONDARY DNS	168.95.1.1

1. **Static IP** : Enable and enter the desired IP address, subnet mask, and gateway.
2. **DHCP (Floating IP)** : Enable and the DVR system will automatically get an IP.
3. **PPPOE (Network Dial-up)** : Enable and enter the dial-up account and password provided by your telecom operator (this setting is not required for routers).

2. Local Area Network (LAN)

Default "Auto" will automatically assign IP addresses to cameras in the local area network with an IP range of 10.1.1.11~10.1.1.253.

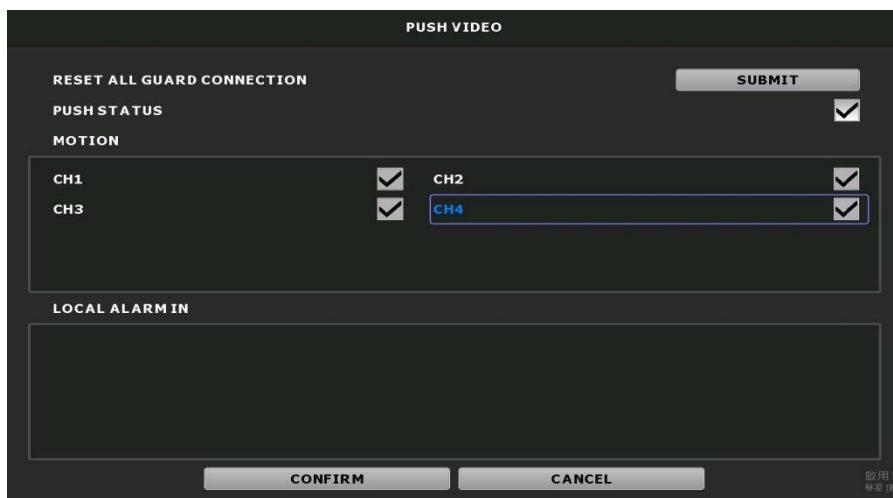
NETWORK		IP	10.1.1.10
NETWORK TYPE	AUTO	NETMASK	255.255.255.0
		DHCP START IP ADDRESS	10.1.1.11
		DHCP END IP ADDRESS	10.1.1.200
ENABLE NAT			
HTTP		PORT	80
		PRIMARY DNS	8.8.8.8
		SECONDARY DNS	168.95.1.1

3. EazY (Cloud Remote Access Service)

Allow users to easily connect the DVR system to the internet without complicated settings. For users who want to use the EaZy Networking cloud service for network settings through a router, operate through this interface.



When the DVR system is connected to the internet, enabling the alarm function in the AVTECH DVR APP will trigger Push Video notifications for events and abnormal system status.

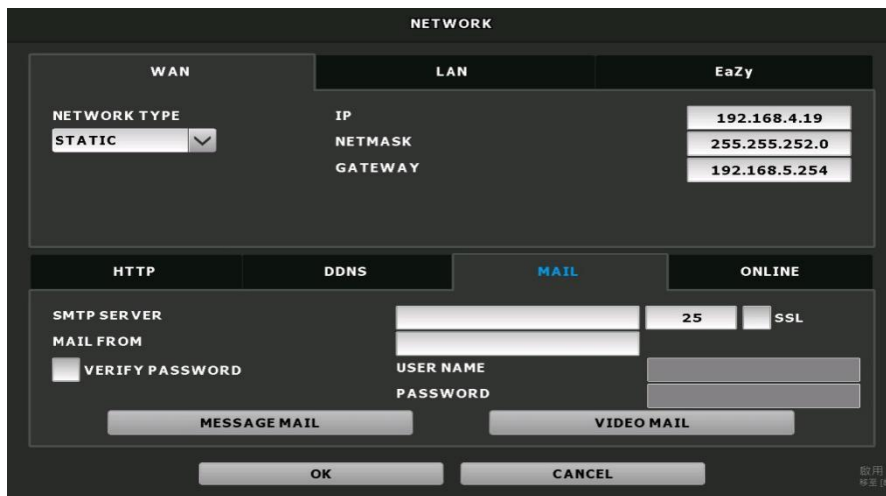


1. PUSH VIDEO :

- This page only "displays" the channels with enabled push notifications. You cannot directly modify the selection. Use the AVTECH DVR mobile app to enable or disable push notifications for specific channels.
- To disable push notifications for abnormal system status, do not check the "Push Status" option.
- To reset the Push Video connection devices, select "Reset All Guard Connection." This will interrupt all devices' Push Video notification mechanism, and you will need to manually re-enable the AVTECH DVR's alarm function.

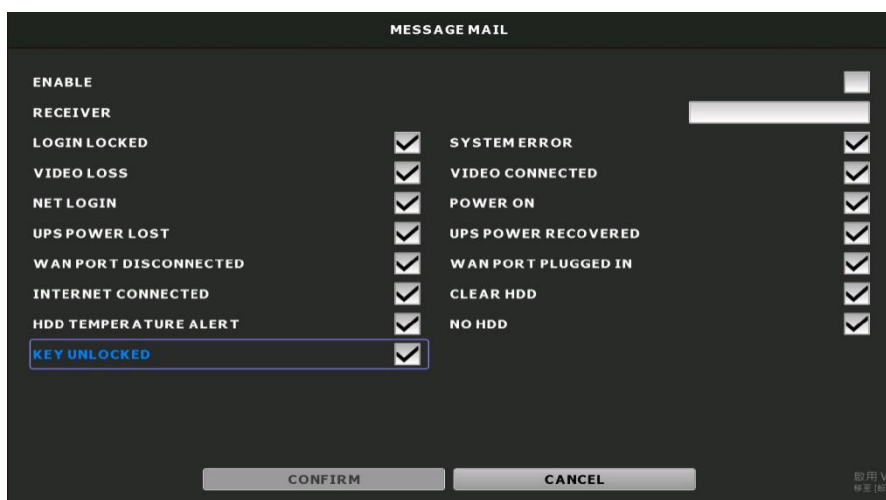
4. Email

You can set up to receive email notifications for abnormal system events and receive video emails for specific events.



1. **Message Email** : When a system abnormality occurs, designated recipients will receive text emails indicating the issue.

→ Check the event types for which you want to receive email notifications
 → Click the receiver field → Enter the email addresses → Check the "enable" option to activate this function → Confirm and save.



2. **Video Email** : When an event occurs, designated receiver will receive event recording files (in AVI format). It is recommended to use a video player that supports decoding H.265 format, such as VLC Media Player, for playback.

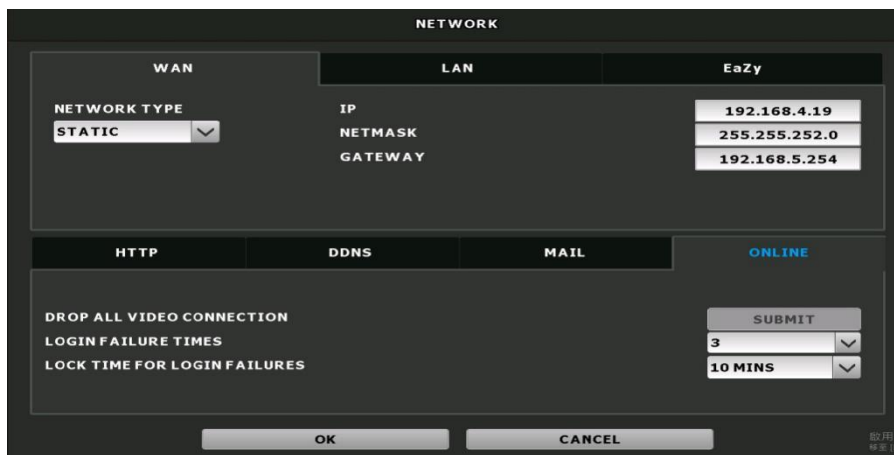
→ Confirm the desired event types to receive recording files for → From the drop-down menu, select the image channels with detection settings → Click on the "Subject" field and enter the title for the email → In the "Receiver" field, input the email addresses of the receiver (multiple

recipients can be added) → Check the "Enable" option to activate this function → Click "Confirm" to confirm the settings.



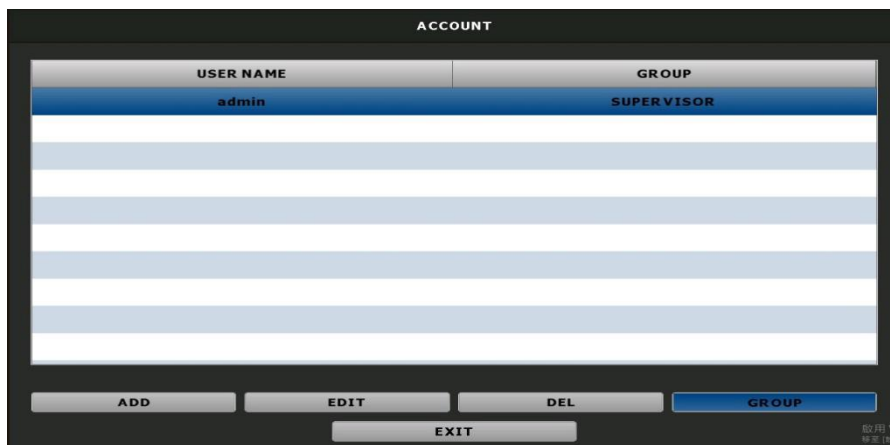
5. Login Settings (Network Login)

Set the number of login attempts allowed with incorrect account credentials and the time duration to lock the IP address after reaching the maximum number of failed attempts.



Menu Function - Account Settings

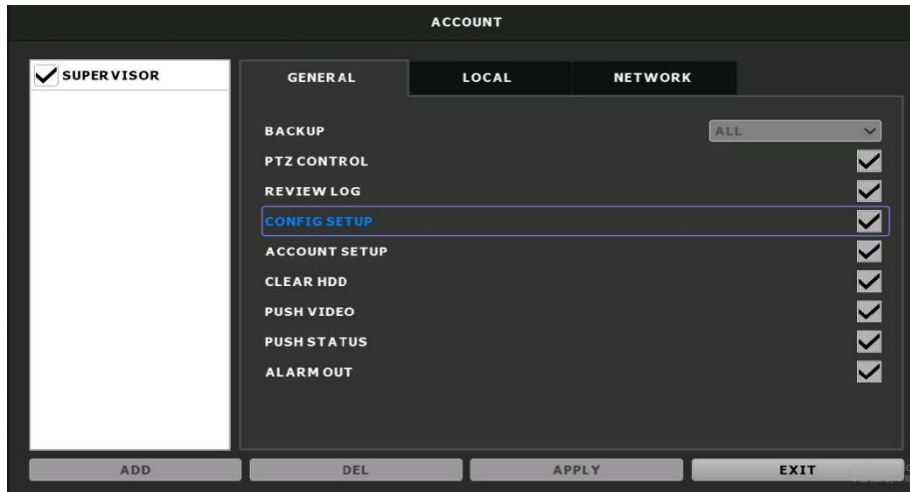
→ To add a new group name, click "Group" → Click "Add."



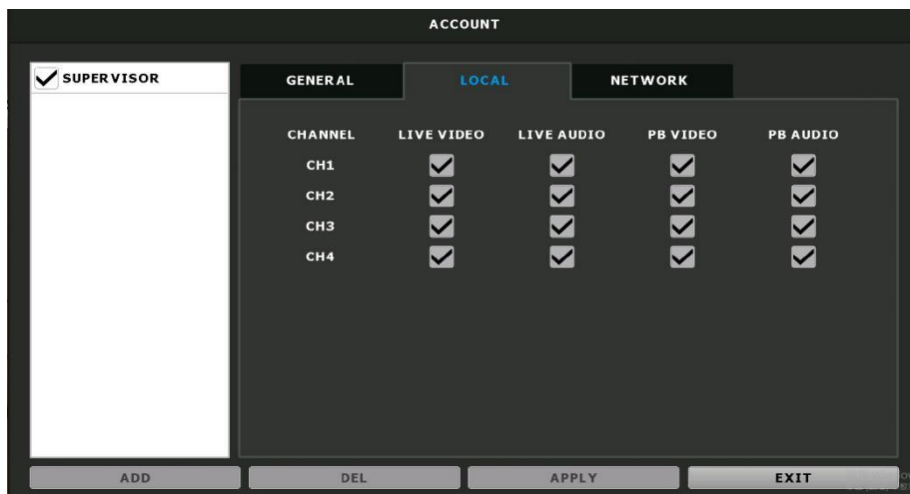
1. Group

→ Set the functional permissions available for the account during login. Check the required functions → Click "Apply."

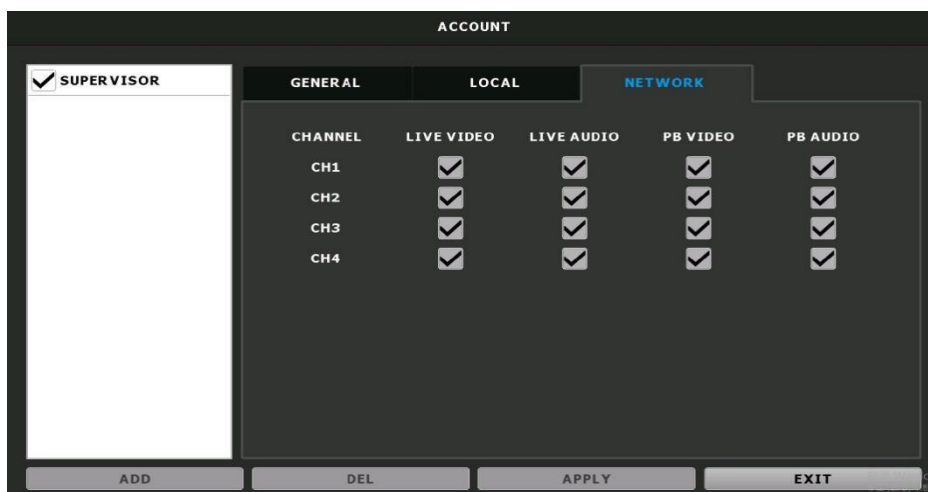
➤ General Settings Interface



➤ Local Settings Interface

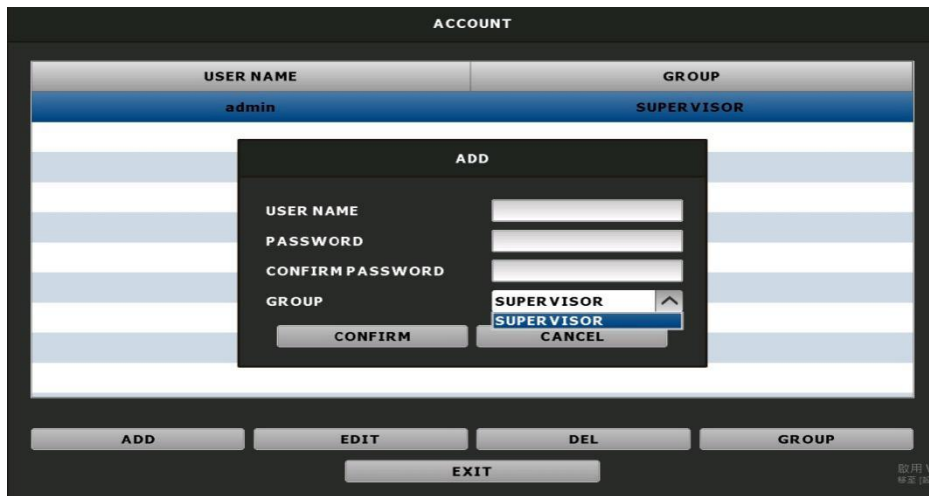


➤ Network Settings Interface



1. Add/Edit/Delete User Accounts

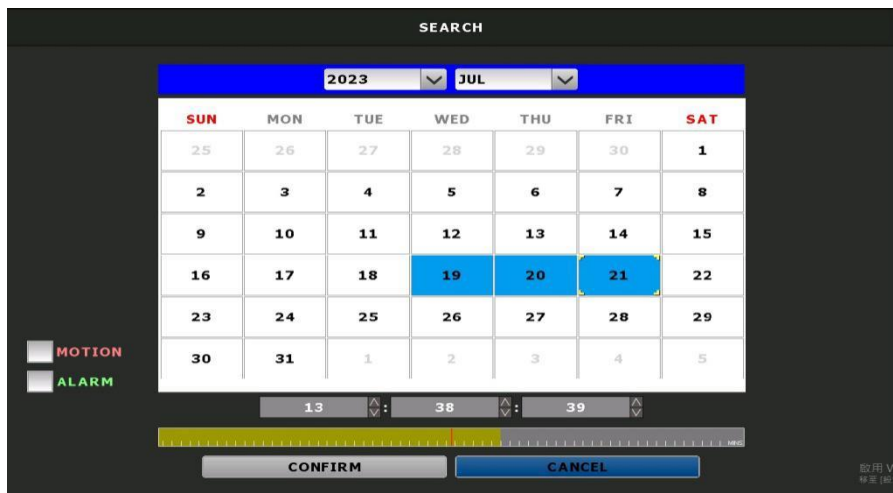
- To add a new account, click "Add" → Enter the user name and password → Assign the account to a permission group → Click "Confirm."



- To modify the account password or permissions, select the user name → Click "Edit" to enter the modification interface.
- To delete an account, select the account name → Click "DEL."

Playback Menu

- Select a date → Drag the timeline below to the recorded time segment → To search for specific events, check "Motion" or "Alarm" → The timeline will display colors representing motion detection (pink) or alarm events (cyan-green) to facilitate quick search → After selection, click "Confirm" → Start playing the recorded video.



Backup Menu

- Insert a compatible USB flash drive → Select the channel for backup → Click "Start Time" and "End Time" to enter the calendar view to search for the desired backup time segment → Click "Calculate" to confirm the required space size → After

confirming that there is enough available space, click "Submit" to start the backup (video files are in AVI format, it is recommended to use a video player that supports H.265 decoding, such as VLC player, to play the video).

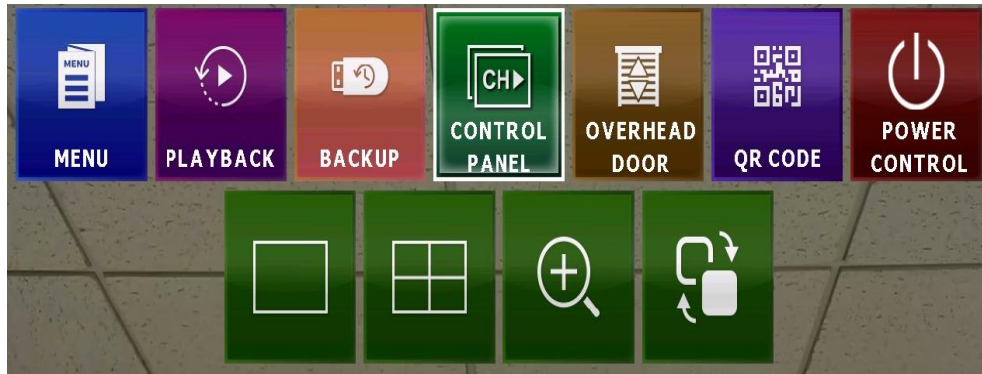
BACKUP DATA	
START TIME	2023/JUL/21 13:44:16
END TIME	2023/JUL/21 13:44:16
CHANNEL	0 SELECTED
OUTPUT FILE FORMAT	AVI
TARGET DEVICE	USB DEVICE
BACKUP DATA WITH AUDIO	<input type="checkbox"/> OFF
BACKUP	<input type="button" value="SUBMIT"/>
REQUIRED SIZE:0MB	<input type="button" value="CALCULATE"/>

AVAILABLE SIZE : 360407.0MB

啟用 W
標記 (8/3)

Channel Menu

Display channel switching buttons



Function Name	Icon	Function Description
Single Screen		Screen display mode switch The displayed split layout depends on the number of channels supported by the connected model.
4-split screen		
8-split screen		
9-split screen		
16-split screen		
Image Zoom		Digital zoom, magnification from 2x to 16x Switch the main screen to the desired channel before selecting this button to zoom in on the view.
Jump		Channel full-screen jump/4-split screen jump display Switch the main screen to single (full) screen or four-split screen before selecting this button to start sequential jump display.

Overhead Door

→ Move the mouse cursor above the main screen → Select the Overhead Door name from the drop-down menu → Press the button to control.



- The system has already entered a set of configurations. To modify, click "Edit."
- To control multiple roller shutters, click "Add" to add roller shutter settings.



1. **Name** : Enter a recognizable name for the roller shutter.
2. **Vendor** : "AVTECH" is a general option without a specific brand (currently the only available option).
3. **ID** : Enter the ID code (1-99) for controlling the roller shutter; this code must match the one set on the roller shutter controller for proper control (if multiple roller shutters need to be set, the ID code must not be duplicated, each roller shutter should have a unique ID code).
4. **Baud Rate** : Choose the baud rate for controlling the roller shutter; the setting value must match the one set on the roller shutter controller for proper control (if multiple roller shutters need to be set, the baud rate must not be duplicated, each roller shutter should have a unique baud rate).

