

BR-MDVR04S(2D) Mobile DVR

User Manual



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Preface

Thank you very much for choosing our product. For normal use of this product, please read this manual carefully before use.

The copyright of this manual is owned by BRvision. No part of this book may be photocopied, reprinted or translated without the written permission of the Company.

This manual is a product brochure not a product warranty. We do not guarantee the contents of this manual.

BRvision adheres to sustainable development and reserve the right to make changes to this manual, such as printing errors, typographical errors, inconsistent with the latest materials, software upgrades and product improvements. Product specifications and parameters are subject to change without notice. Keep this manual for future reference.

Safety Notice

Before using this product, please read the following carefully. When using this product, please strictly follow the instructions below. Please keep this manual properly for future reference.

- Please strictly follow the instructions in the manual.
- Please do not place the machine in a place easily exposed to water.
- Please use a soft dry cloth to clean the machine.
- Please do not block the ventilation and heat dissipation channels of the machine.
- Keep this machine away from heat sources and high temperature environments.
- Please handle the machine carefully and pay attention to safety.
- Please take care to avoid injury from falling from a high place.
- For machine maintenance and service, please contact our professional staff.
- If you forget the password, you can scan the QR code provided on the device login interface and send the scanned serial number to us, we will help you retrieve the password.

1. Features

1.1 Video codec technology

- The video coding standard is H.265.
- Support 4-channel 1080P (AHD) camera.
- Compatible with N/P system (N/P system can be switched in the login interface), only 4 channels can be connected to N/P camera at the same time, and cannot be mixed.
- Preview and video can be performed at the same time.
- Support 1-channel audio synchronous output (customers can choose to input any 1-channel audio).

1.2 Power & On/Off

- The power supply supports DC9-36V, and it needs to be connected to ACC, power cord, and ground wire to turn on. In addition, the electronic lock needs to be locked to turn on.
- It can be set to turn on and off regularly to facilitate video management.
- Auto ignition switch control switch machine, with delayed shutdown function.
- The backup battery lasts for about 1 month (used to supply power to the RTC when the power is off), and it will be charged automatically when it is powered on.

1.3 Video recording and Backup

- Support automatic recording and timing recording.
- Recording backup can be done via U disk.

1.4 GPS function

- Support GPS time correction function to ensure that all vehicles are synchronized without error.
- Can switch the global time zone.

1.5 Storage device

- Support 2.5 inch hard disk, maximum 4TB
- Support 128GB SD card storage, the theoretical value can support 2T SD card, the hard disk and the SD card are connected at the same time, and the hard disk is preferred for storage.

1.6 Video output

- Support VGA video output and CVBS display output.

1.7 Alarm mode

- Support IO alarm, fatigue driving alarm, over-speed alarm, hard disk loss alarm.

1.8 Upgrade method

- Support U disk upgrade.

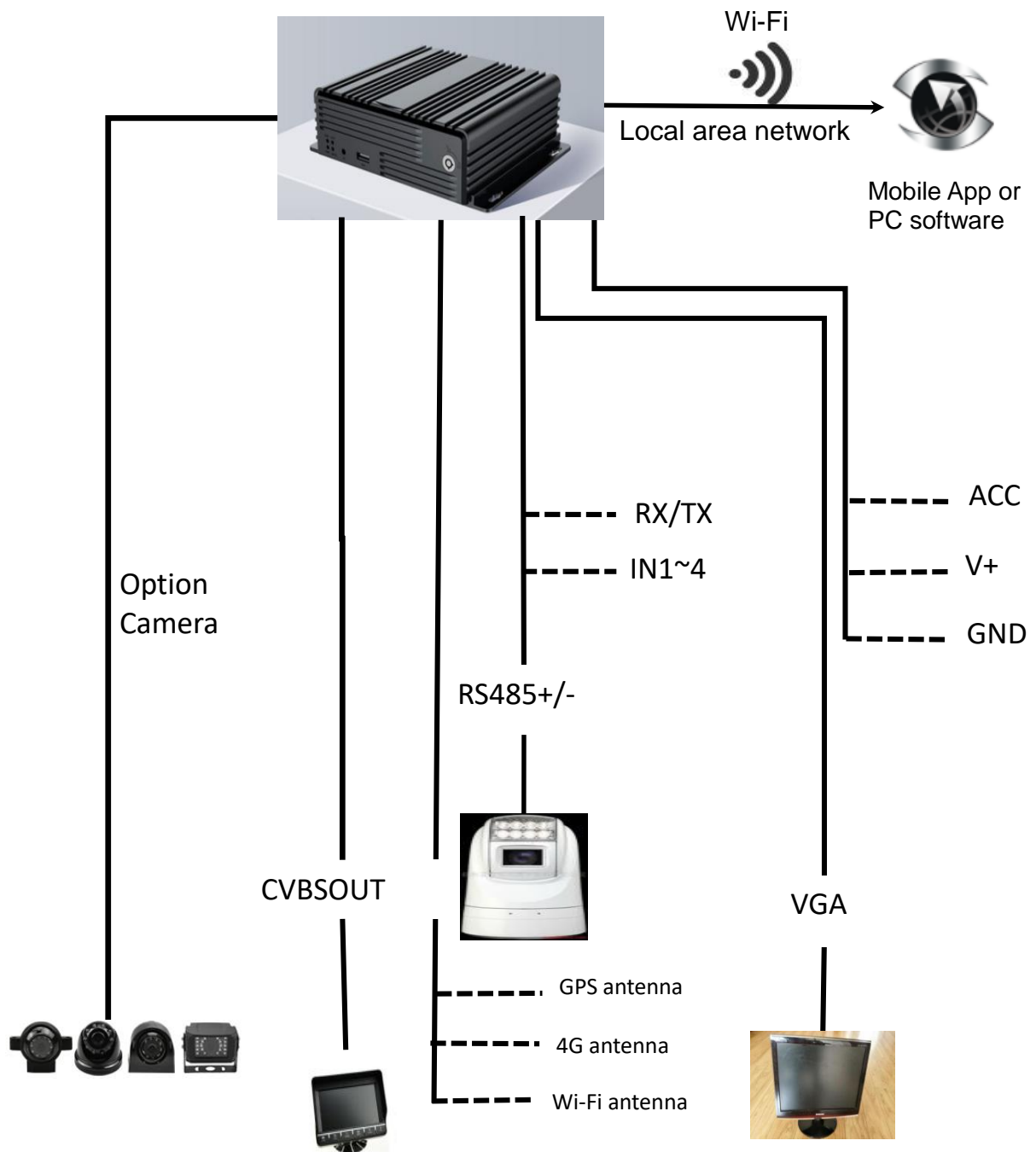
1.9 Operation mode

- Support mouse and remote control operation.

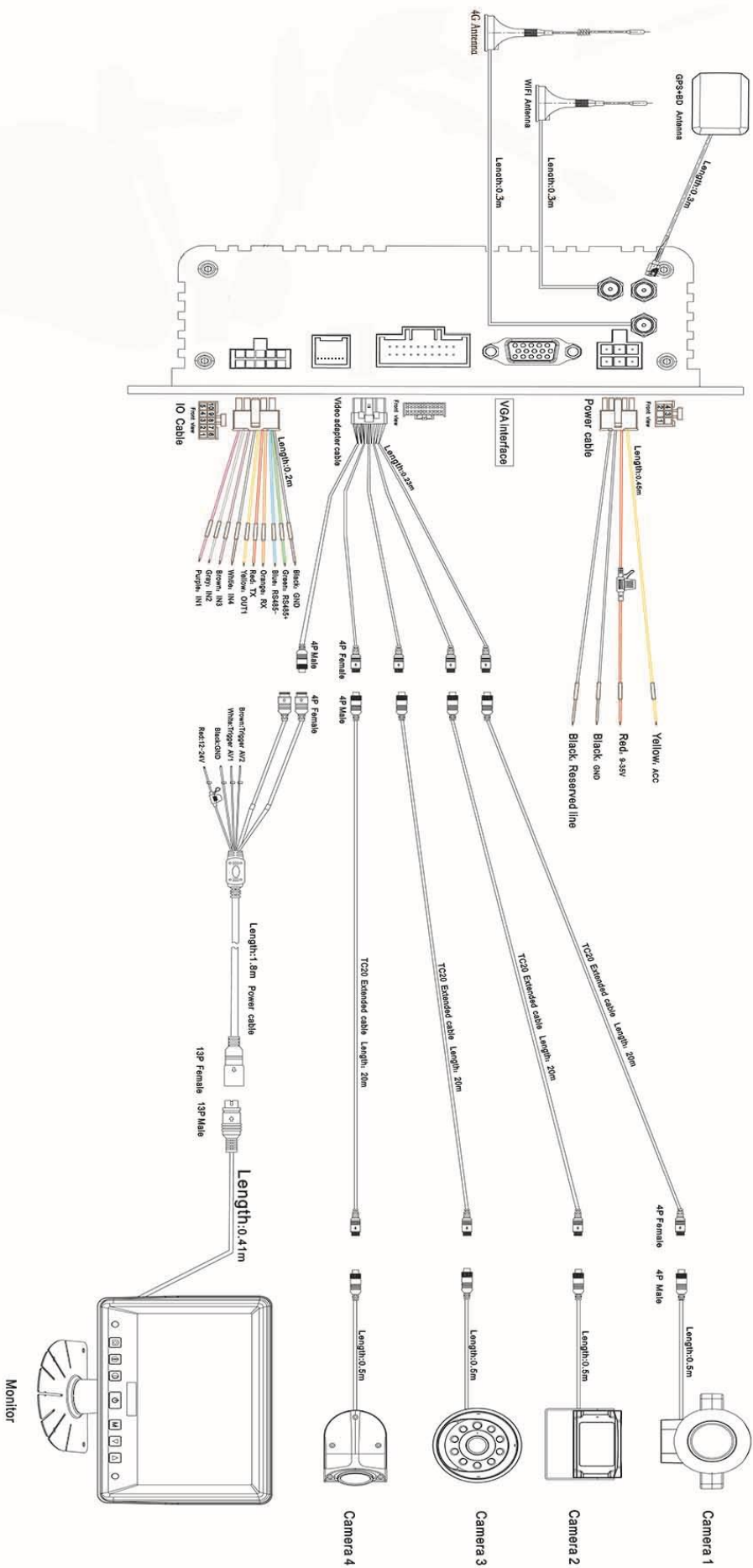
1.10 Network connection

- Support Wi-Fi, 4G connection.

2. Physical cable definition



MDVR1024SA Wiring Diagram



2. Login Setting

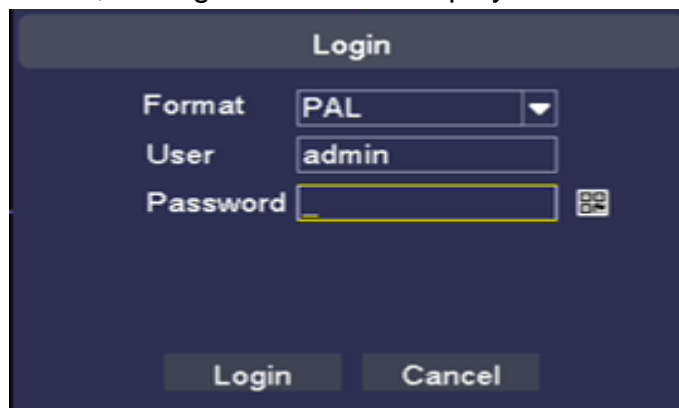
3. After the power is turned on for the first time, the password setting interface appears

The image shows a 'Set Password' dialog box with a dark blue background. It contains three input fields: 'User' with 'admin' entered, 'New Password' (empty), and 'Confirm' (empty). An 'OK' button is at the bottom right.

4.

5.

6. After entering the password, the login interface is displayed


The image shows a 'Login' dialog box with a dark blue background. It contains three input fields: 'Format' with a dropdown menu showing 'PAL', 'User' with 'admin' entered, and 'Password' (empty). There are 'Login' and 'Cancel' buttons at the bottom.

7.

8.

9. 3.Right click function

10.

The image shows a right-click context menu with a dark blue background. It contains several options: 'Single' with a checkbox icon, 'Multi' with a grid icon, 'Playback' with a play button icon, 'Screen Adjustment' with a circle icon, 'IPC Channel Config' with 'IPC' text to its left, and 'Exit' with a door icon.

11. After entering the system, right-click the function. It includes functions such as single channel display setting, multi-channel display setting, playback setting, screen Adjustment setting, IPC Channel Config and Exit

2. Single

Select the corresponding channel for full screen display;

2. Multi

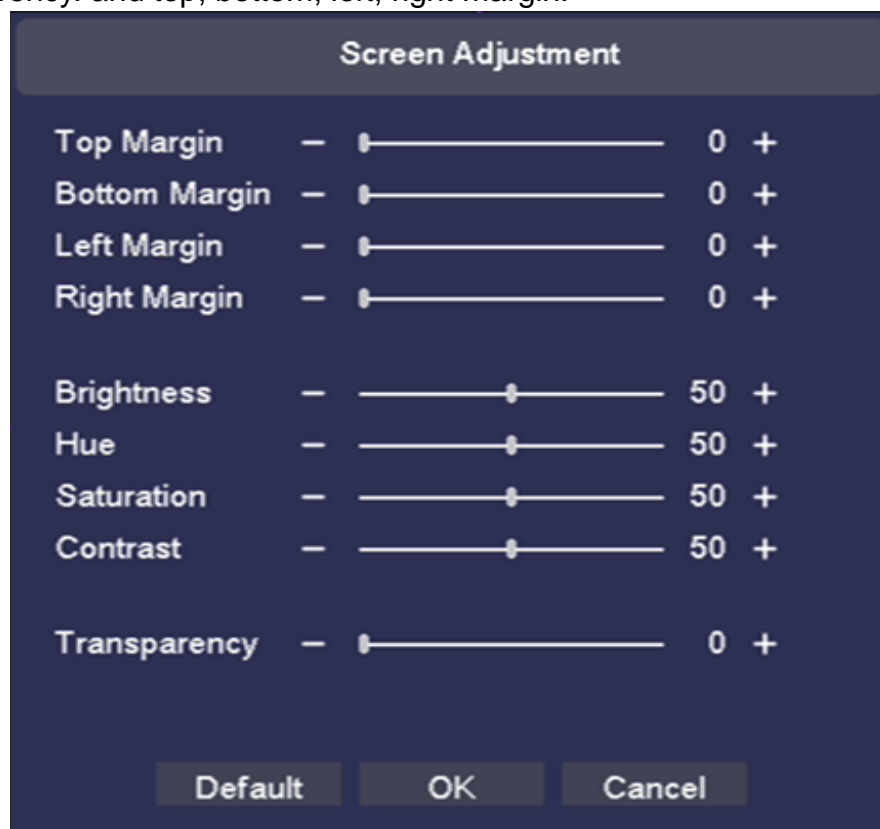
Select the corresponding multi channels segmentation mode;channel 1-4, channel 5-6 channel 1-6, three modes are optional;

2. Playback

For details, please see 4.1.2 Video Playback and Backup

2. Screen Adjustment

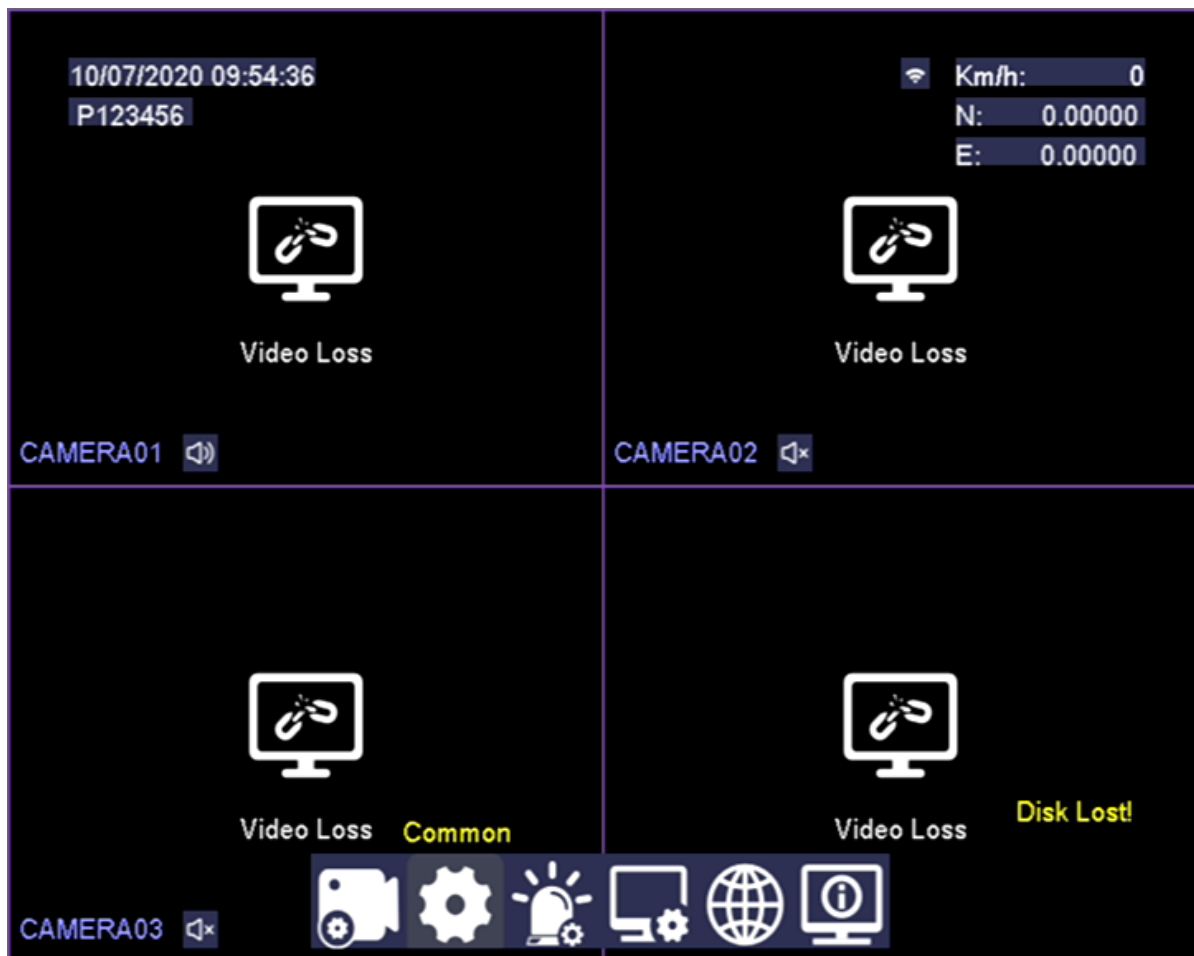
This GUI interface adjust screen parameters& alignment, for example brightness, hue, saturation, contrast, transparency. and top, bottom, left, right margin.



2. Exit

Optional Exit, cancel menu.

4.Main Menu

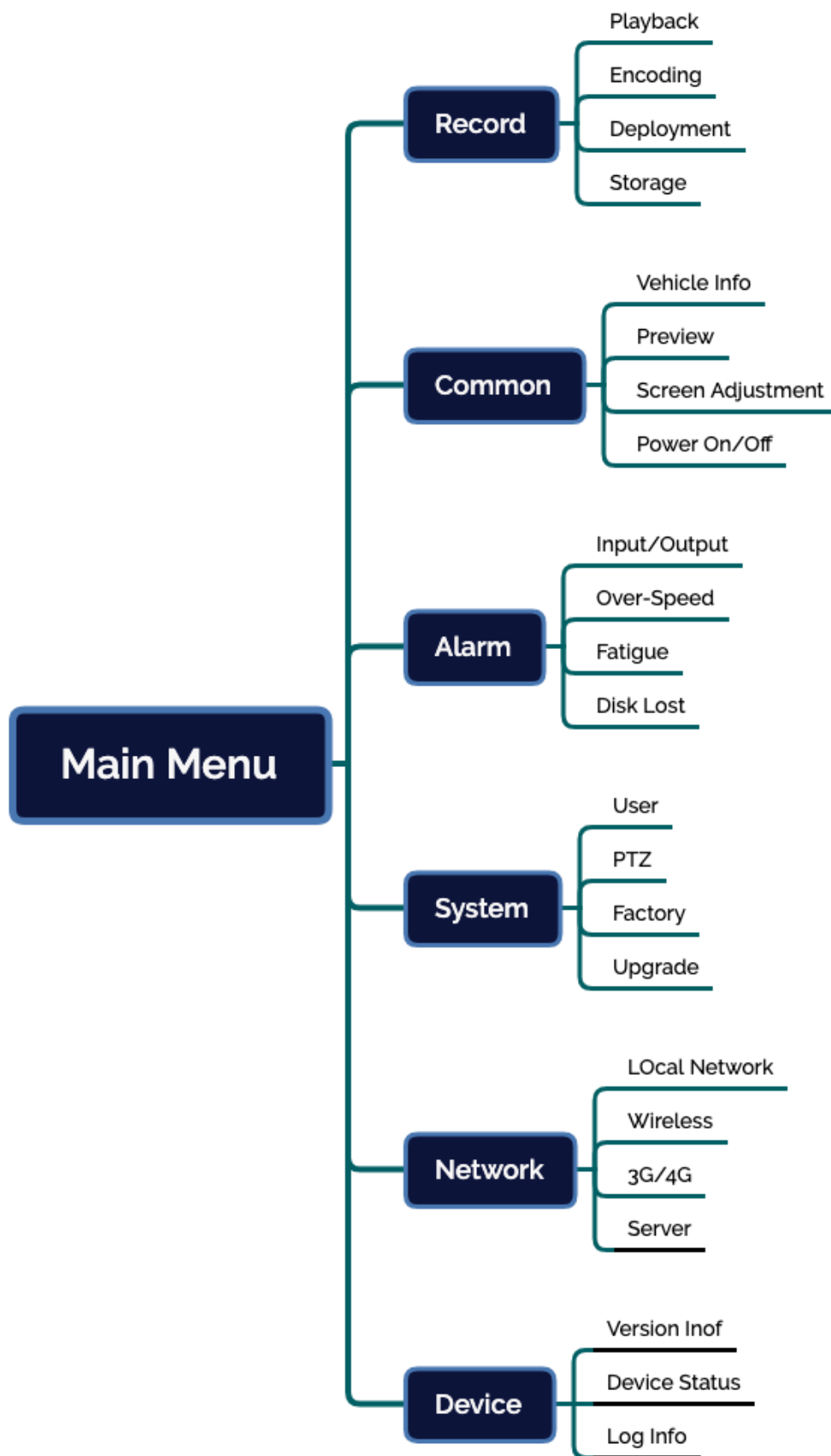


Move the mouse to the bottom of the interface to enter the main menu



The main menu include Record setting,common setting,Alarm setting,system setting,network setting,device information and other functions.

Menu structure



3.1 Recording Configuration

In the video configuration under the main menu, you can back up video files, deploy and play back video, and configure storage devices.

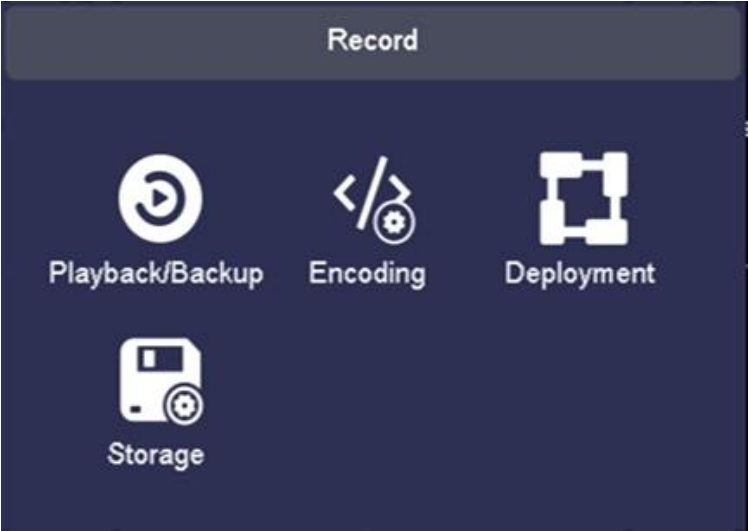


Figure 3-1

3.1.1 Storage Settings

Move the mouse to the bottom of the interface to enter the main menu, select Record Configuration--->Storage Settings, and enter the hard disk management interface. The user can format the storage device used and query the status of the storage device as needed. For the operation steps, refer to Figure 3- 2.

Note: Formatting the disk will cause all data on the disk to be lost. Please make a backup of important files on the disk before formatting. The hard disk and SD card can only be accessed after the device is powered off.

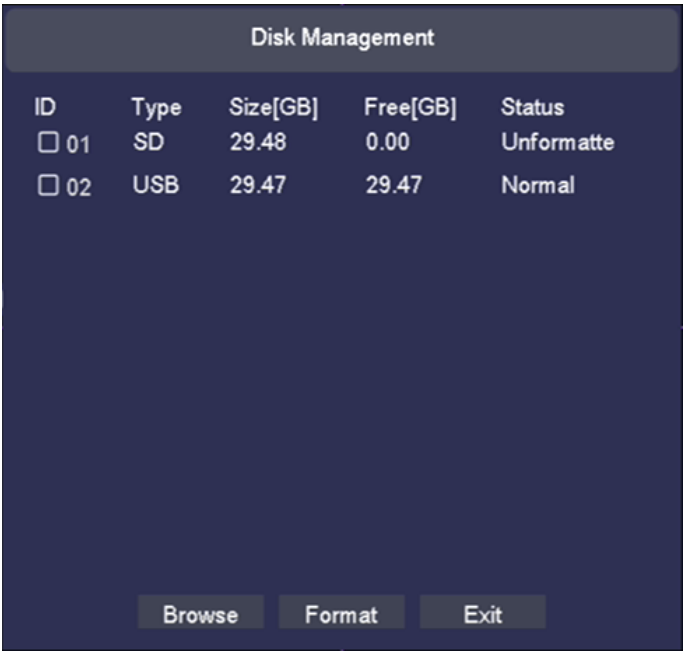
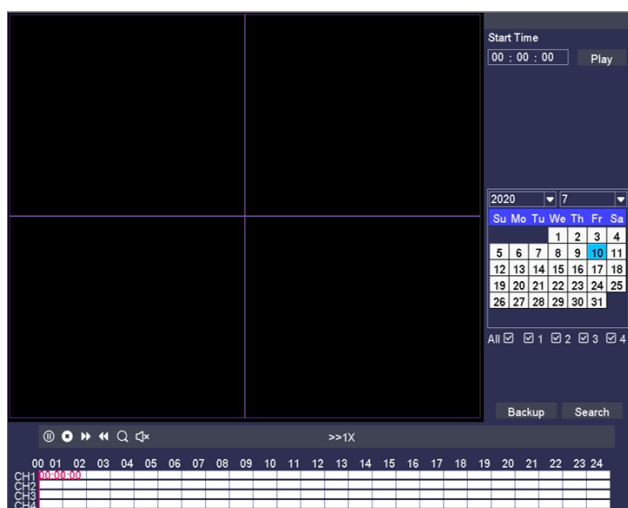


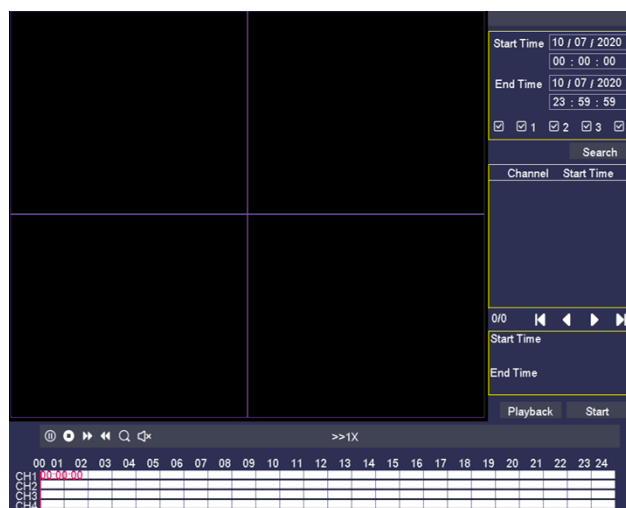
Figure 3-2

3.1.2 Video Playback and Backup

Move the mouse to the bottom of the interface to enter the main menu, select video configuration ---> video playback to enter the video playback interface. The interface is divided into three parts, the largest is the playback screen; the bottom of the interface is the playback control part, which can adjust the playback progress, start/pause playback, zoom in the playback screen, fast forward, rewind, and turn on and off the sound; the right side of the interface can be Select the date and time of the playback video, there is a backup option at the bottom right, click to enter the video backup page, the backup needs to use a card reader, after inserting the card reader, the user needs to use the remote control to perform video backup, the operation steps can refer to below Figure 3-3 a, b.



a



b

Figure 3-3

- To switch from fast forward to fast reverse, you need to pause and then start playing the video file before you can switch, otherwise it cannot be switched.
- The progress bar below shows that the color is blue, it means there is video, and the white area is no video.
- If the hard disk is not connected, a pop-up window will prompt "No Data".
- If you find that the position of the progress bar is out of order when playing back the video, please check whether the time zone setting is correct (please refer to 3.12 time setting for time zone setting).

3.1.3 Video deployment

Move the mouse to the bottom of the interface to enter the main menu, select video configuration ---> video deployment, and enter the video deployment page. Users can set different recording methods for each channel. See figure 3-4 below

Deployment

Channel: 1

Post-alarm Rec/s: 30 Pre-alarm Rec/s: 30

Record Mode: ☐ Configure ☒ Video P ☐ Close

Week: Mon.

	Time Period 1	Time Period 2	Time Period 3	Normal	Alarm
Time Period 1	00 : 00 - 23 : 59	00 : 00 - 23 : 59	00 : 00 - 23 : 59	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Time Period 2	00 : 00 - 23 : 59	00 : 00 - 23 : 59	00 : 00 - 23 : 59	<input type="checkbox"/>	<input type="checkbox"/>
Time Period 3	00 : 00 - 23 : 59	00 : 00 - 23 : 59	00 : 00 - 23 : 59	<input type="checkbox"/>	<input type="checkbox"/>

Default Apply Exit

Figure 3-4

- Click“Channel”to choose the different or the all channels.
- Tick“Post-alarm Rec/s”,can set up the time period of video.
- Tick“Manual”,It enters to the recording mode automatically when power on ,and there is a tape icon shown next to the Channel name.
- Tick“Close”, to stop recording, and the tape icon will diappear in the meantime.
- When choosing the “Configuration”, It can time the video rcording and choose the types of the recording: Normal/Alarm.

3.2 Power on/off setting.

Moving the mouse to the bottom of the interface can enter into the main menu. Click the **Power on/off** can go into the power on/off setting.

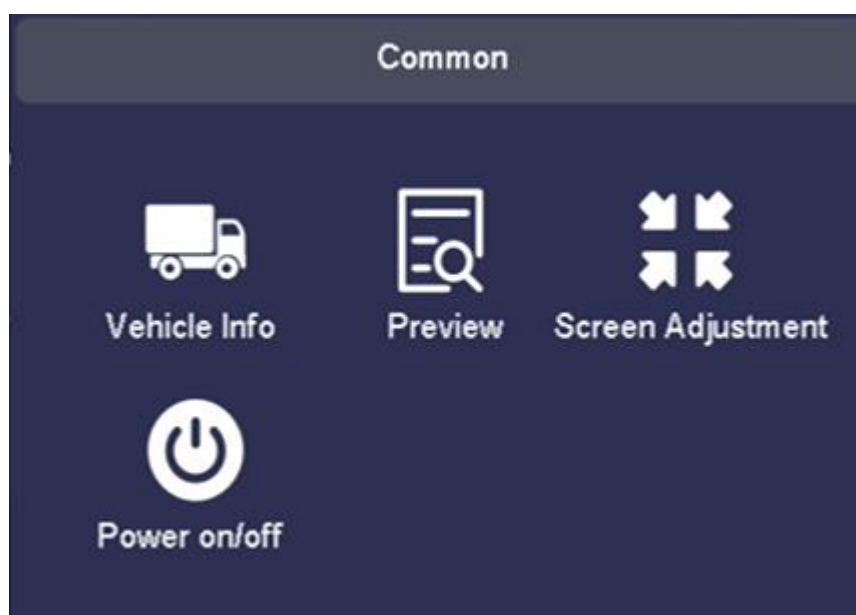


Figure 3-5

3.2.1 Power off Delayed

It can be set the time to power off the device by ticking the“Power Off Delayed”. The device can run for a while though its flameout,(The run of time is determined by the delay time set by the user), time up and the device will power off automatically, Please refer to below Picture3-6.

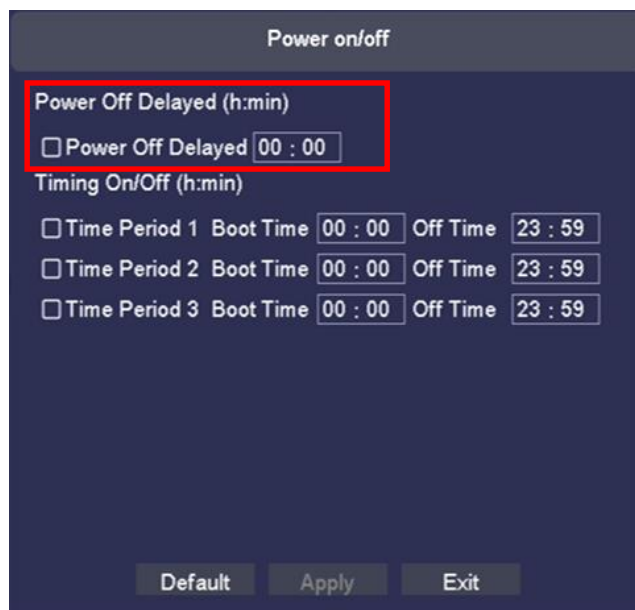


Figure 3-6

3.2.2 Timing Power on/off

The time of power on/off the device can be set by ticking the“Time Period 1-3”, Please refer to below Picture3-7.

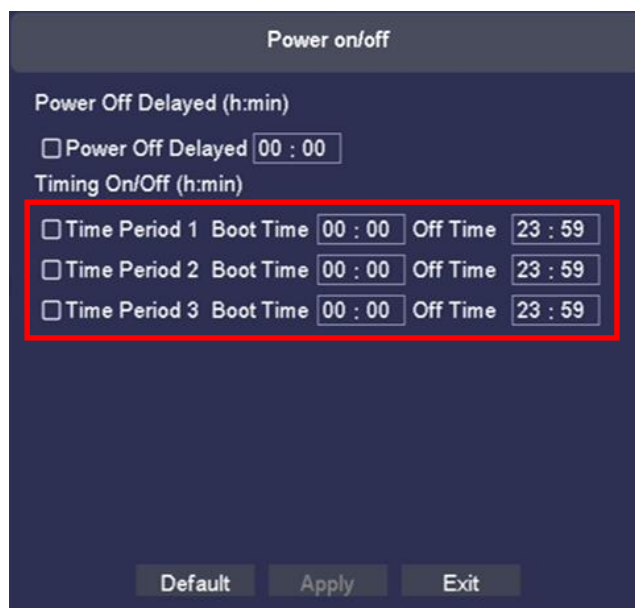


Figure 3-7

- When Boot time<current time<Off time, the device will only power off automatically at that day.
- When Current time <Off time<Boot time, the device will power off and then power on at that day.

3.3 Vehicle information settings

Move the mouse to the bottom of the interface to enter the main menu, select Common Settings--->Vehicle Info, enter the vehicle information setting page, as shown in Figure 3-8.

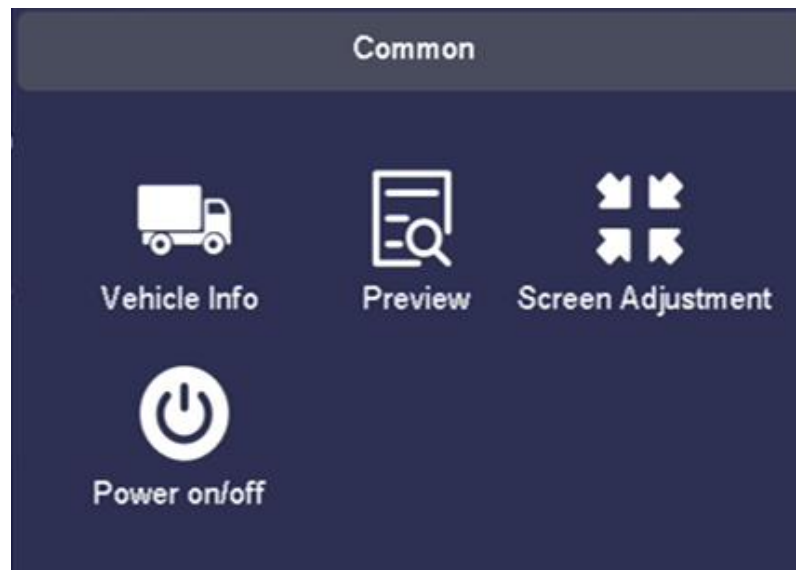


Figure 3-8

3.3.1 Basic vehicle information

The user can use the mouse to click and input the model (Driver Name), license plate number (Driver No.) and device number (Device No.) of his vehicle at the position shown in Figure 3-9 on the device, and click OK to save.

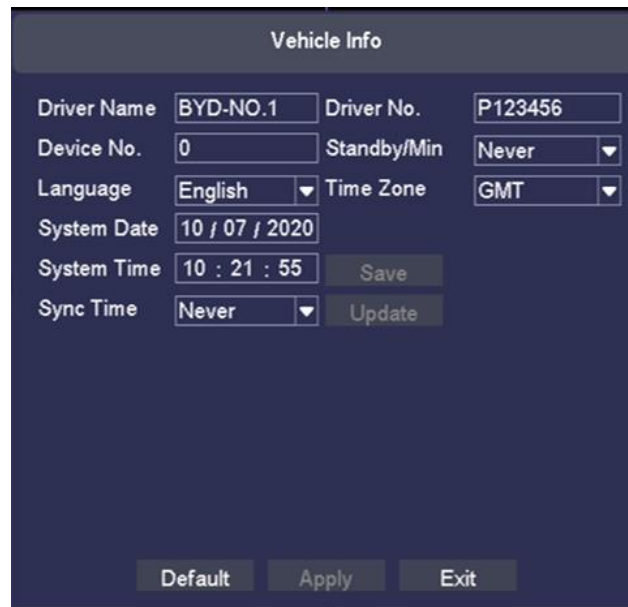
A screenshot of a "Vehicle Info" settings screen. It contains several input fields and dropdown menus. The fields are: "Driver Name" with the value "BYD-NO.1", "Driver No." with "P123456", "Device No." with "0", "Standby/Min" with a dropdown set to "Never", "Language" with a dropdown set to "English", "Time Zone" with a dropdown set to "GMT", "System Date" with "10 / 07 / 2020", "System Time" with "10 : 21 : 55", and "Sync Time" with a dropdown set to "Never". There are "Save" and "Update" buttons next to the time fields. At the bottom, there are three buttons: "Default", "Apply", and "Exit".

Figure 3-9

- To enter capital letters, click Shift on the keyboard to switch to capital letters. To return, click Shift, click Backspace to delete the entered characters, and click ESC to exit the keyboard window. After setting the password, click Enter to save and exit.

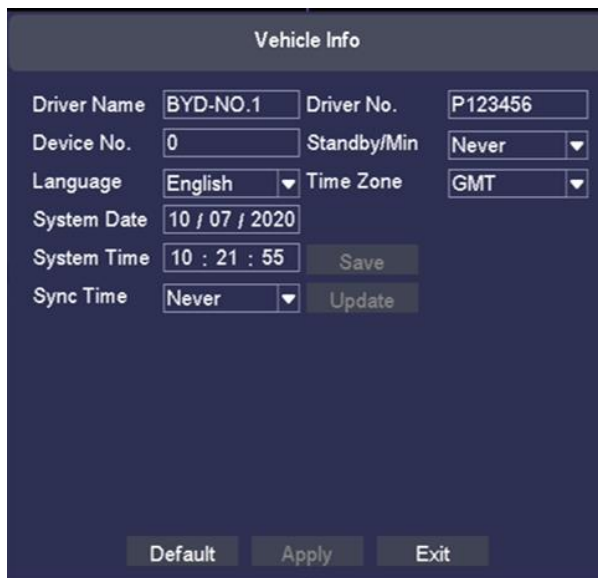
- The vehicle name range is 1~31 characters.

- The license plate number can only display up to 7 characters.

The device number ranges from 0 to 65535.

3.3.2 Standby time

The user can select the standby time of the device on the device as shown in Figure 3-10 (Standby/Min) , When the user does not operate the device for a long time, the device automatically enters the standby state, and needs to log in again to exit the standby state.



The screenshot shows a 'Vehicle Info' settings screen with the following fields and values:

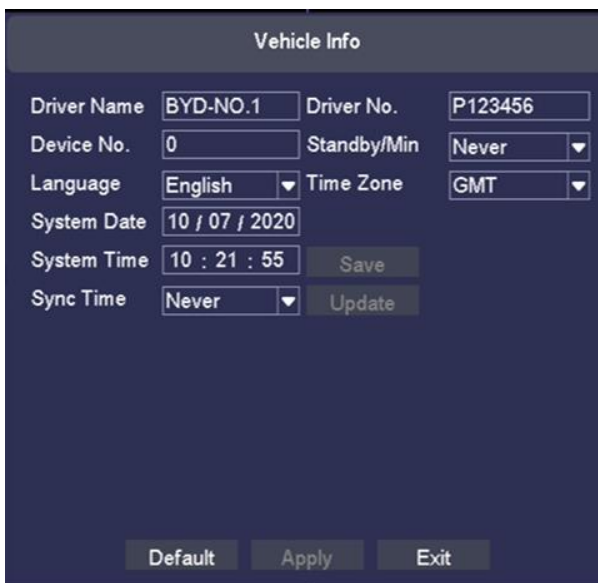
Field	Value
Driver Name	BYD-NO.1
Driver No.	P123456
Device No.	0
Standby/Min	Never
Language	English
Time Zone	GMT
System Date	10 / 07 / 2020
System Time	10 : 21 : 55
Sync Time	Never

Buttons at the bottom: Default, Apply, Exit. A 'Save' button is next to the System Time field, and an 'Update' button is next to the Sync Time field.

Figure 3-10

3.3.3 System date and time

The user can set the date (System Date) and time (System Time) of the device at the location shown in Figure 3-11.



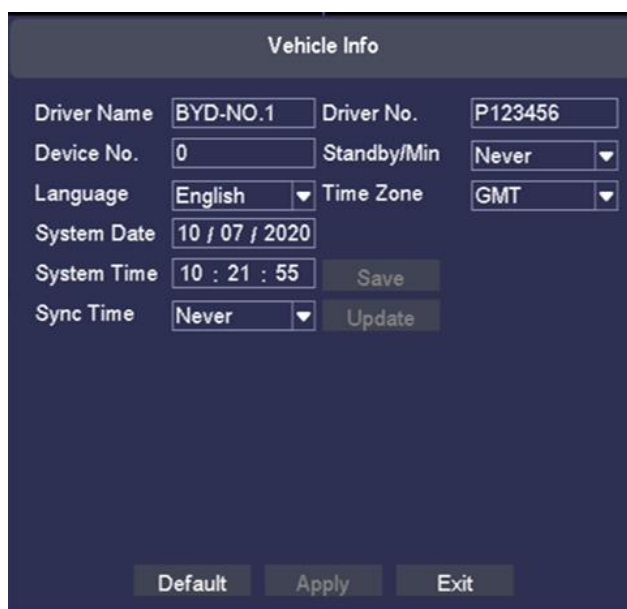
This screenshot is identical to Figure 3-10, showing the 'Vehicle Info' settings screen with the same values and layout.

Figure 3-11

- After setting the date and time and clicking Save, it will prompt "Some video files will be lost after changing the time". Users can back up all video files before modifying the time, so there is no need to worry about the loss of video files.
- The year can be set up to 2039, the hour range is 0 to 23, the minute setting range is 0 to 59, and the second setting range is 0 to 59

3.3.4 Sync Time and time zone

The user can select the Sync Time method and the time zone (Time Zone) used by the user's current location in the location identified in the figure below.



The screenshot shows a 'Vehicle Info' settings screen. It contains several input fields and dropdown menus. The 'Sync Time' dropdown is set to 'Never', and the 'Time Zone' dropdown is set to 'GMT'. There are 'Save' and 'Update' buttons next to the 'System Time' and 'Sync Time' fields respectively. At the bottom, there are 'Default', 'Apply', and 'Exit' buttons.

Vehicle Info	
Driver Name	BYD-NO.1
Driver No.	P123456
Device No.	0
Standby/Min	Never
Language	English
Time Zone	GMT
System Date	10 / 07 / 2020
System Time	10 : 21 : 55
Sync Time	Never
<div>Default Apply Exit</div>	

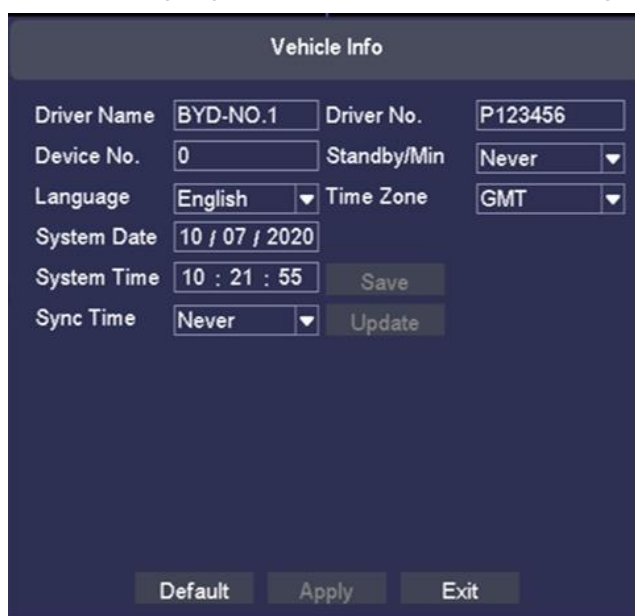
Figure 3-12

- Time synchronization methods include GPS synchronization and NTP synchronization.

After selecting the synchronization method, click "Update" and then click Apply to save.

3.3.5 System language

The user can modify the language of the system on the vehicle information page, after modifying and saving, the device will prompt "Please wait...", then it restarts automatically. After restarting, the system language changes to the modified language, and the system language cannot be restored by clicking the default value option.



This screenshot is identical to Figure 3-12, showing the 'Vehicle Info' settings screen. The 'Language' dropdown menu is highlighted, showing 'English' as the selected option. The 'Sync Time' dropdown is still set to 'Never', and the 'Time Zone' dropdown is set to 'GMT'. The 'Save' and 'Update' buttons are visible next to the 'System Time' and 'Sync Time' fields respectively. At the bottom, there are 'Default', 'Apply', and 'Exit' buttons.

Vehicle Info	
Driver Name	BYD-NO.1
Driver No.	P123456
Device No.	0
Standby/Min	Never
Language	English
Time Zone	GMT
System Date	10 / 07 / 2020
System Time	10 : 21 : 55
Sync Time	Never
<div>Default Apply Exit</div>	

Figure 3-13

3.4 Network connection

Move the mouse to the bottom of the interface to enter the main menu, select the network setting option, and enter the network setting page. The user can select the network connection method and configure and set the server accordingly.

3.4.1 3G/4G connection

After entering the network setting interface, select the "**3G/4G network**" option to enter the 3G/4G network configuration page.



Figure 3-14

- Fill in the access point according to the inserted card type (Access Point) : mobile (cmiot) , Unicom (wonet) , Telecom (ctlte/ctnet)
- If you want to change the card of different operator, you must first enter the settings to disable the 3G/4G network after changing the it.clicking Apply to save the settings, then re-entering the 3G/4G network settings page and seting the access point, finally clicking Apply to save the settings OK.
- select the default TD_LTE type.

3.4.2 Wi-Fi connection

After entering the network and setting interface, select the "**Wireless**" option to enter the wireless network configuration page.

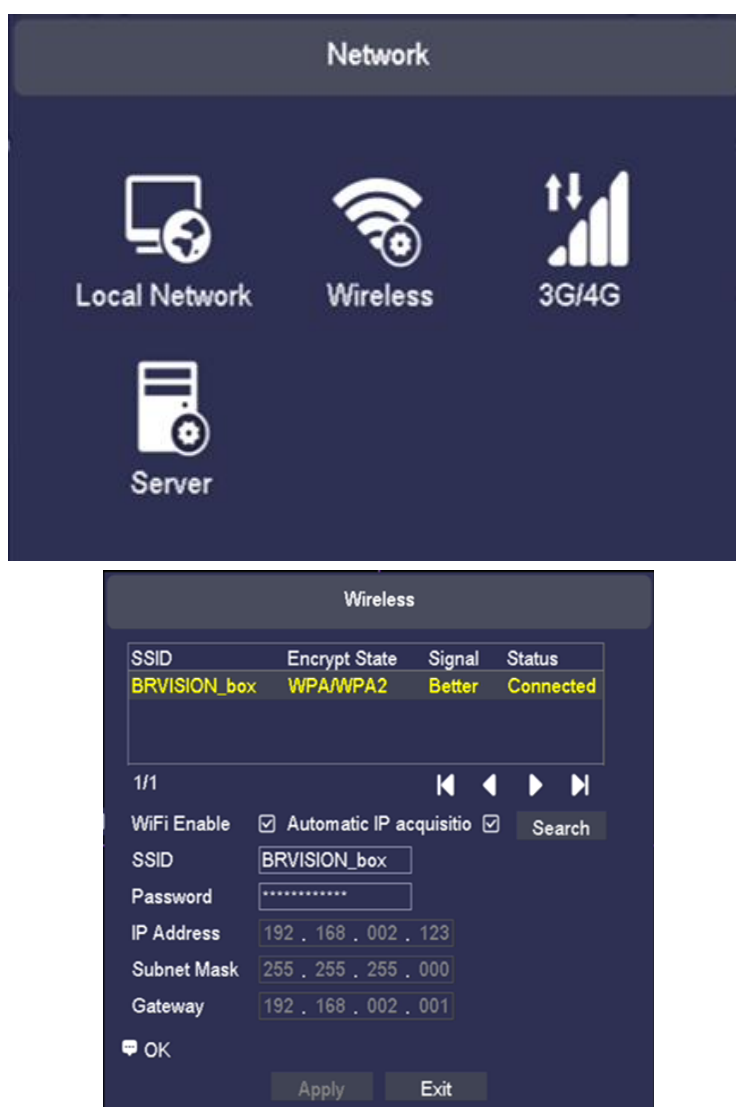


Figure 3-15

- After entering the window, check the box next to Start Wi-Fi and the box next to Obtain an IP address automatically, and then click the search button. There will be a prompt "Please wait" in the lower left corner of the dialog box. When it prompts "Success", the searched Wi-Fi will be displayed in a list in the big box at the top. If the Wi-Fi is not searched, please click Search again (Make sure that the Wi-Fi with Internet access is turned on, it may be slow to search for Wi-Fi, if you can't search, please search several times). After searching, you can see the currently searched Wi-Fi SSID, encryption status, signal, and status in the big box, select the Wi-Fi you want to connect to (if the page is not found, please press the button to switch the page, The current page number is displayed in the lower left corner of the box, and the functions of the 4 buttons in the lower right corner are to switch to the home page, previous page, next page, and last page)
- After clicking to select Wi-Fi, the box on the right side of the SSID below will display the name of the selected Wi-Fi, enter the password of the currently selected Wi-Fi, click "Apply", the device will start to connect to Wi-Fi, connect If successful, the Wi-Fi status selected in the big box will become connected, and OK will be displayed in the lower left corner (it will take a few seconds to prompt). If the password is entered incorrectly or there is a

problem with the network, the lower left corner will prompt that the network cannot be connected (required Wait a few seconds before prompting), close the current window, and enter "Device Status" (see 3.7.1 Device Status for entry method), you can view the current network IP address, subnet mask, default gateway, network access mode and network status , Return to the preview page, after the connection is successful, an icon will be displayed in the box next to the latitude and longitude.

3.4.3 Server settings

After entering the network settings interface, select the "**Server**" option to enter the server configuration page.

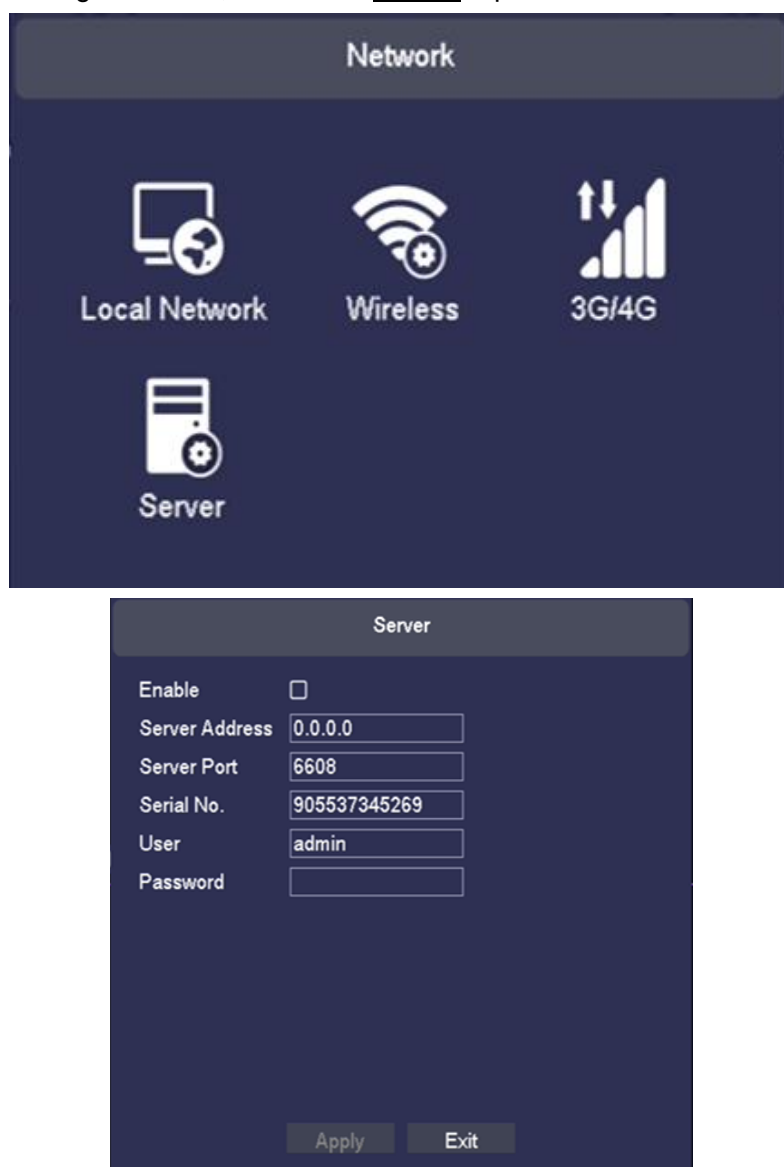


Figure 3-16

- Before using the server settings, you must first connect to the wireless network or turn on the 3G/4G network.
- After checking "Enable", set the server address, server port, and serial number.
- Open the server APP on the computer side, after logging in, find the corresponding serial number (if you cannot find the serial number, please add the serial number, the new method: open the computer platform, after logging in, 1. Click Information Management -> Operation Manage -> Device Management -> Add, in the pop-up window, set the device number (ie, the device serial number), company/person, device type, channel

parameter device, and then click Save; 2. Click Information Management -> Operation Management- >Vehicle information->Add, in the pop-up window, set the license plate number, company/person, use status, license plate color (selected according to the actual license plate color), vehicle type (selected according to the actual vehicle type), equipment information (click the box Select the device number (serial number) in the pop-up window, then click Save, close the platform and log in again to see the newly added serial number) Click in to see if the DVR image can be connected.

3.5 Preview settings

Move the mouse to the bottom of the interface, click "Settings" -> "Preview" in the menu list below to enter the preview settings interface.



Figure 3-17

3.5.1 Character Overlay

After entering the preview interface, select Yes or No in the Character Overlay pull-down menu to turn on or turn off the character overlay function, select the characters that need to be superimposed in the following options, return to the preview interface to see if the setting is taking effects or not.

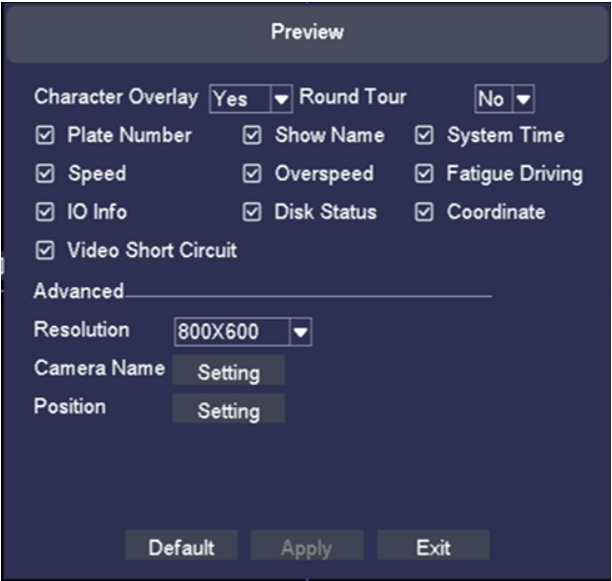


Figure 3-18

3.5.2 Round Tour

After entering the preview interface, there is the round tour option in the upper right corner of the interface, and the user can choose to start using the round tour function or not.

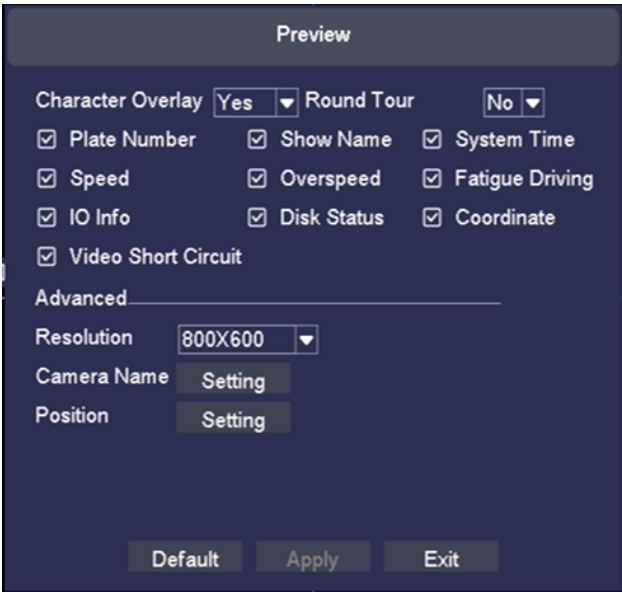


Figure 3-19

- "Yes" for round tour, click "Apply" to set and save, the interface switches to a single-channel screen, each channel starts round tour, and the screen switching time is about 5~7S
- During the round tour, the user can double-click the left mouse button to return to the four-screen interface. This operation will not exit the round tour state. When the round tour reaches the next channel, it will automatically switch back to the single-channel screen.

3.5.3 Resolution

The preview interface displays on the interface can be changed in the more options below the preview interface (Resolution).

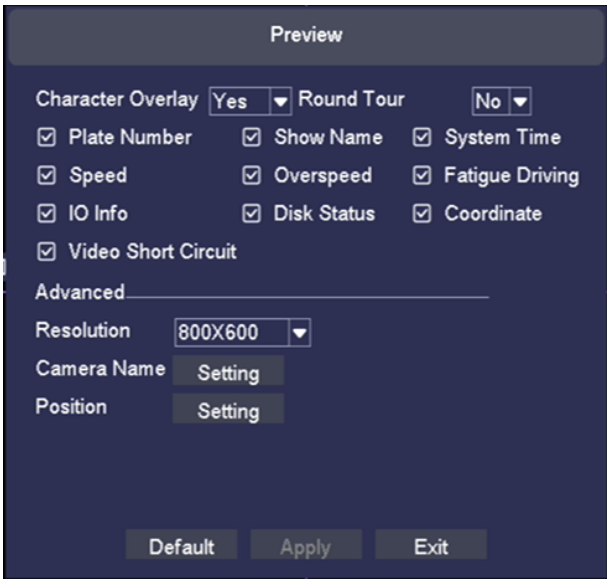


Figure 3-20

- Select the different resolutions and click "Apply", it will prompt "Please wait...", the device will automatically restart, and the resolution displayed on the interface will change after restarting.
- Click the default value, the resolution will be restored to the default configuration.

3.5.4 Camera Name

You can change the camera name of each channel in the more options at the bottom of the preview interface.

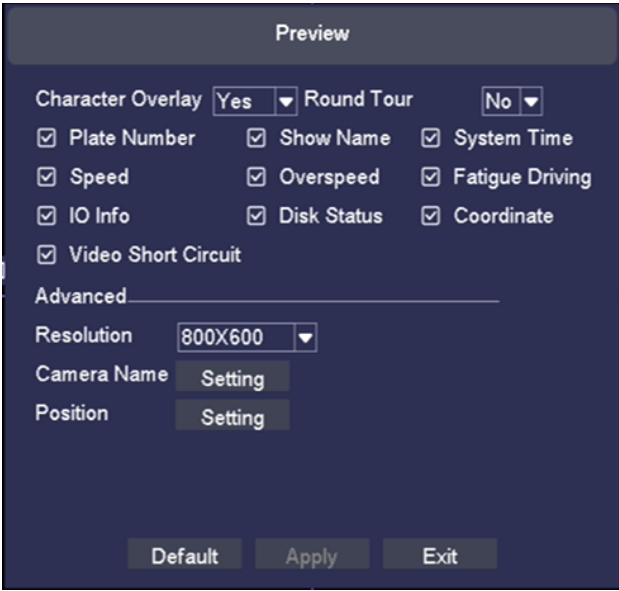


Figure 3-21

- To restore the default value of the camera name, it need to enter the camera name page and click the default setting, the previously setting can be restored to the default setting. Clicking the default value on the preview setting page cannot restore the default value of the camera name.

3.5.5 Position

The Position option in the more options at the bottom of the preview interface can change the position of the overlay characters displayed on each channel

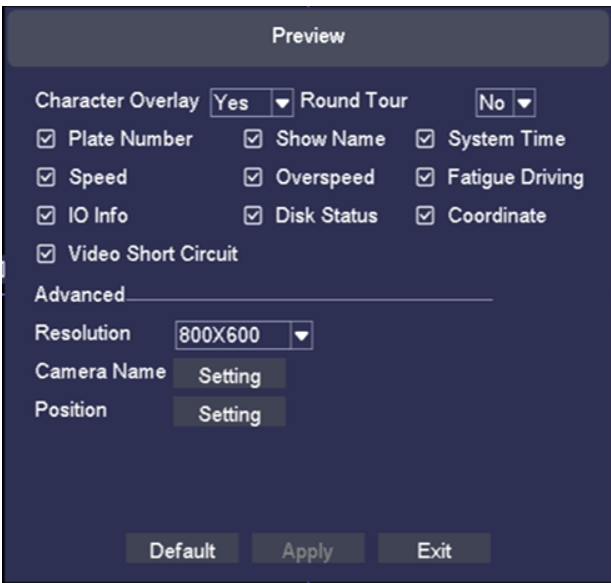


Figure 3-22

- Click the "Setting" button next to the position to enter the position setting interface.
- Click the mouse to move the position of the overlay characters arbitrarily, right-click to exit, click "Apply" to save and set, after recording a video, enter the video playback (for the video playback method, see 3.1.2 Video playback and backup) and check whether the position of the superimposed characters in the video is consistent with the setting.

3.6 Alarm system

Move the mouse to the bottom of the interface, click the "Alarm Settings" option in the menu list below,pup up the alarm setting submenu page.

3.6.1 Over speed alarm

Move the mouse to the **Over-speed** option on the alarm setting submenu page,Left-click to enter the page of over-speed driving Settings.The user can set whether to enable the over-speed alarm, whether to enable the buzzer and alarm output, and also set the early warning speed, alarm speed and alarm duration.

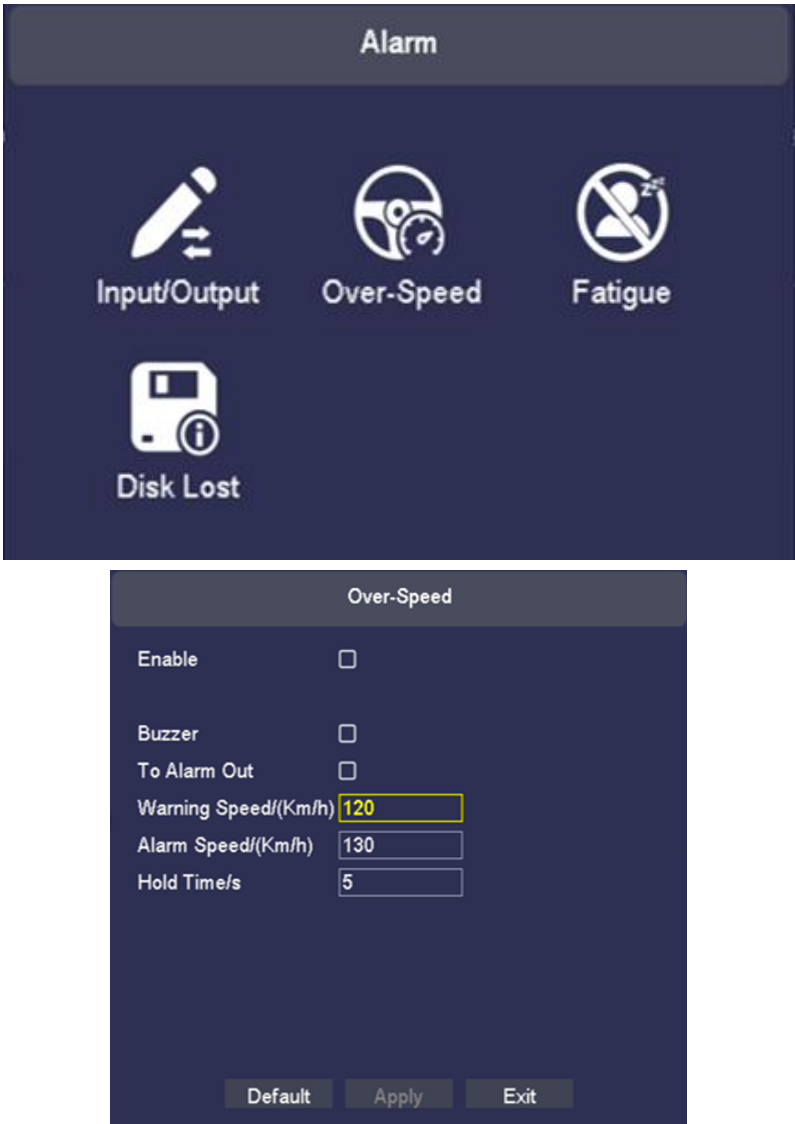


Figure 3-23

- When the vehicle speed exceeds the set warning speed, an alarm will be issued,If the buzzer and alarm output are turned on, there will be corresponding alarm prompt. The duration is the set holding time.

3.6.2 Fatigue driving

Move the mouse to the **Fatigue** driving on the alarm setting submenu page, Left-click to enter the page of fatigue driving Settings. The user can set whether to enable the fatigue driving alarm, whether to enable the buzzer and alarm output, and also set the early warning time, alarm time and alarm duration.

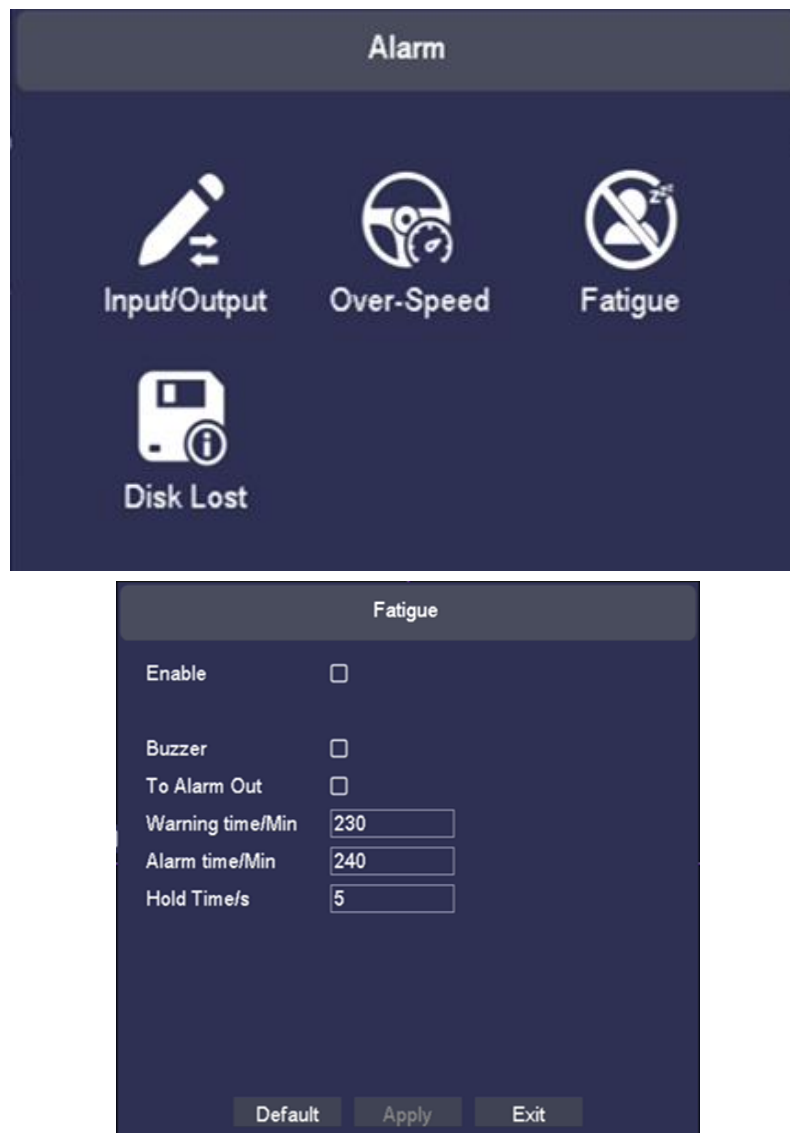


Figure 3-24

- When the driving time exceeds the set warning time, an alarm will be issued, If the buzzer and alarm output are turned on, there will be corresponding alarm prompt. The duration is the set holding time.

3.6.3 Input / Output

Move the mouse to the **Input/Output** option on the alarm setting submenu page, Left-click to enter the page of input/output Settings. The user can set whether to enable the input/output alarm, you can set the normally open/normally closed type, logic reverse, buzzer, alarm output, full-screen display, hold time/second, event name, report type, and whether to enable the capture pictures function (The captured pictures can be viewed on the computer CMSV6 platform)

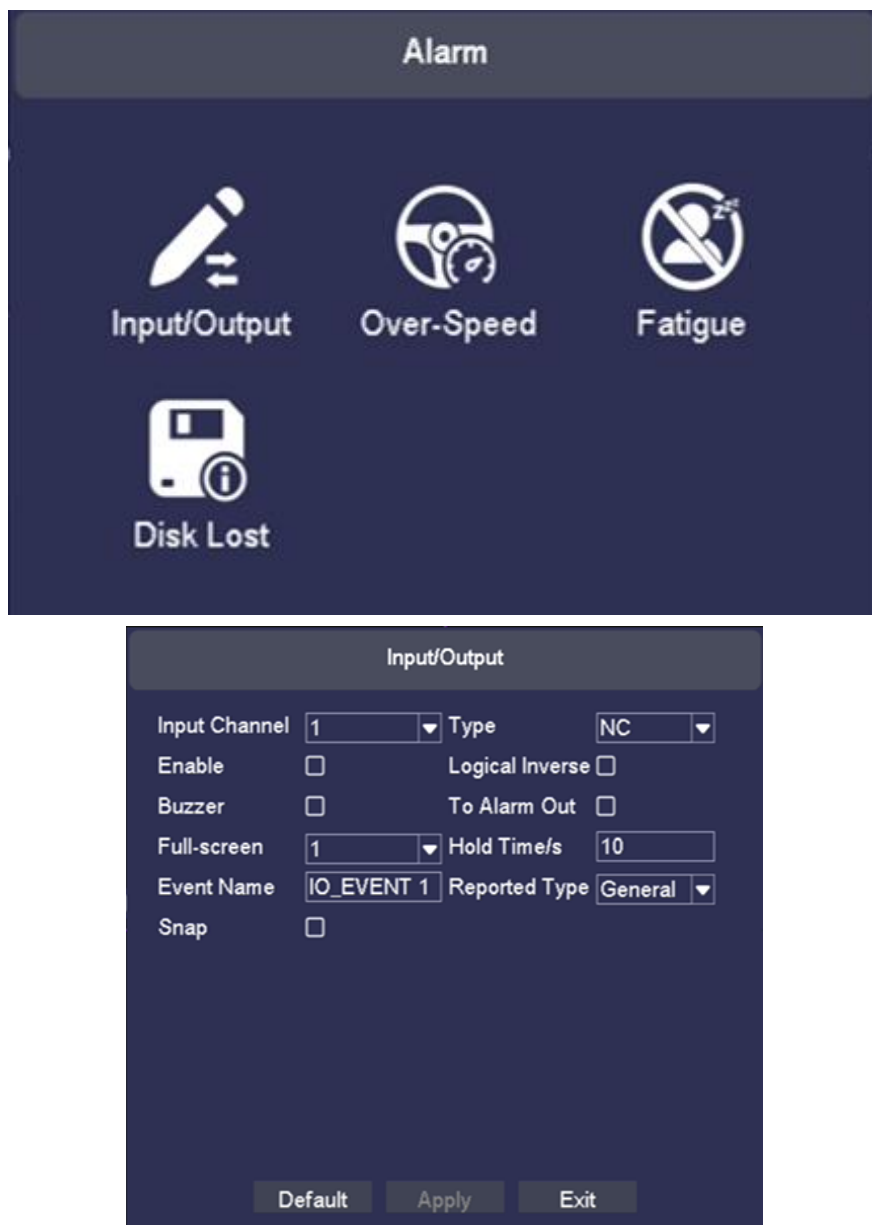


Figure 3-25

- When the channel for full-screen display is set, and a channel has input, the set channel will be displayed in full screen. When "None" is selected, the channel will not change when the alarm is triggered, and it will remain in the current channel, click "Apply" after setting.
- Type setting is normal open, the alarm will be issued after triggering; Setting is normal closed, the device will be keep alarm, the alarm will stop until it continues for a period of time after the trigger (the time is the set holding time).
- Setting the duration time of alarming, click "Apply" after setting and save(1 to 2s error), time range 2s-300s.
- It need to configure the wireless network / 3G / 4G network in the network settings(Refer to the details in 3.4.1

3G/4G Network settings and 3.4.2 wireless network settings) and server settings in network settings (Refer to the details in 3.4.3 server settings) before using capture pictures function,log in to the server and find the corresponding serial number to connect to the DVR image,click “Information management”->“Statistical report”->“Picture”,Select the corresponding time and vehicle, search for it, and view the pictures captured when the alarm was issued.

3.6.4 Disk Lost

Move the mouse to the **Disk Lost** option on the alarm setting sub menu page, and left click to enter the hard disk loss setting page. The user can choose whether to enable the hard disk loss alarm, whether to enable the alarm output and buzzer.

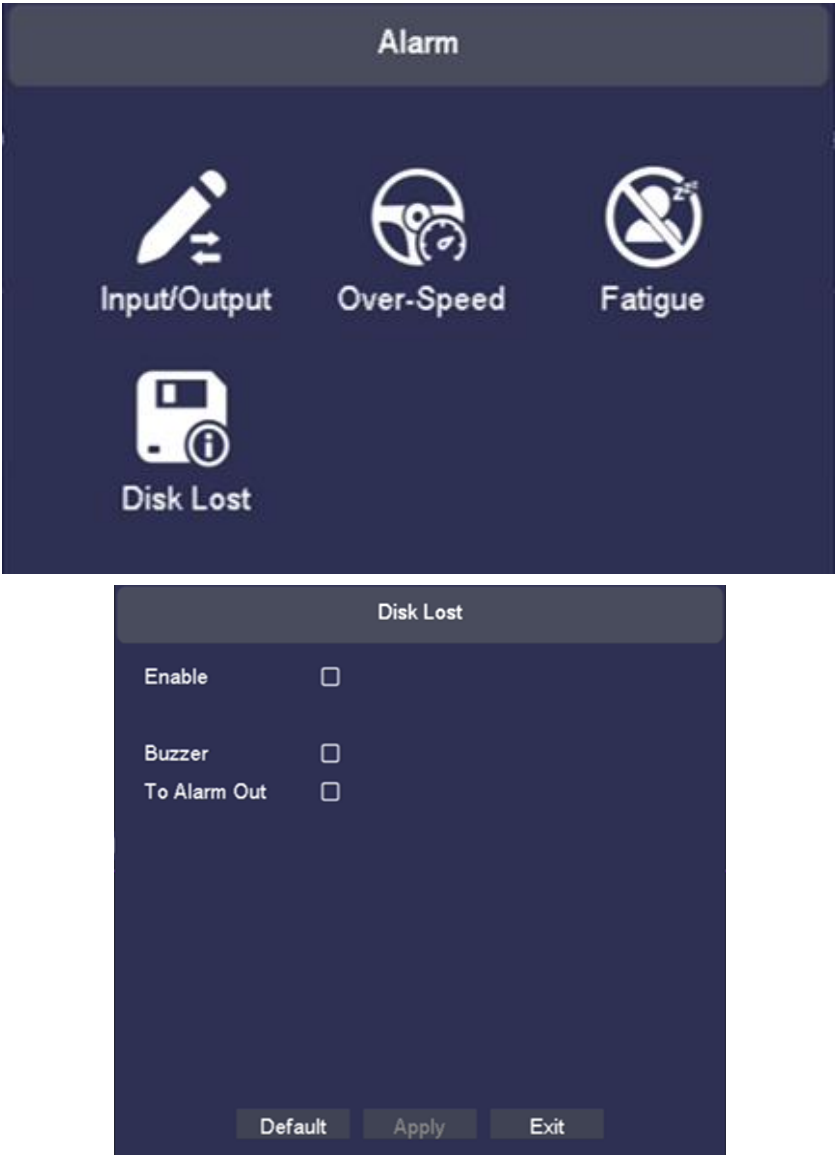


Figure 3-26

- If there is no storage on the device, there will be a prompt that the hard disk is lost in the lower right corner of the preview interface after booting.

3.7 Device Information

Move the mouse to the bottom of the interface, select the device **Information** option, and left-click to enter the device information sub menu page. The user can view the version information, device status and log information of the device.

3.7.1 Version Information

Move the mouse to the **version info** option, and left-click to enter the version information interface. The device information that users can view includes: device name, device number, software version, MCU, release date and system running time.

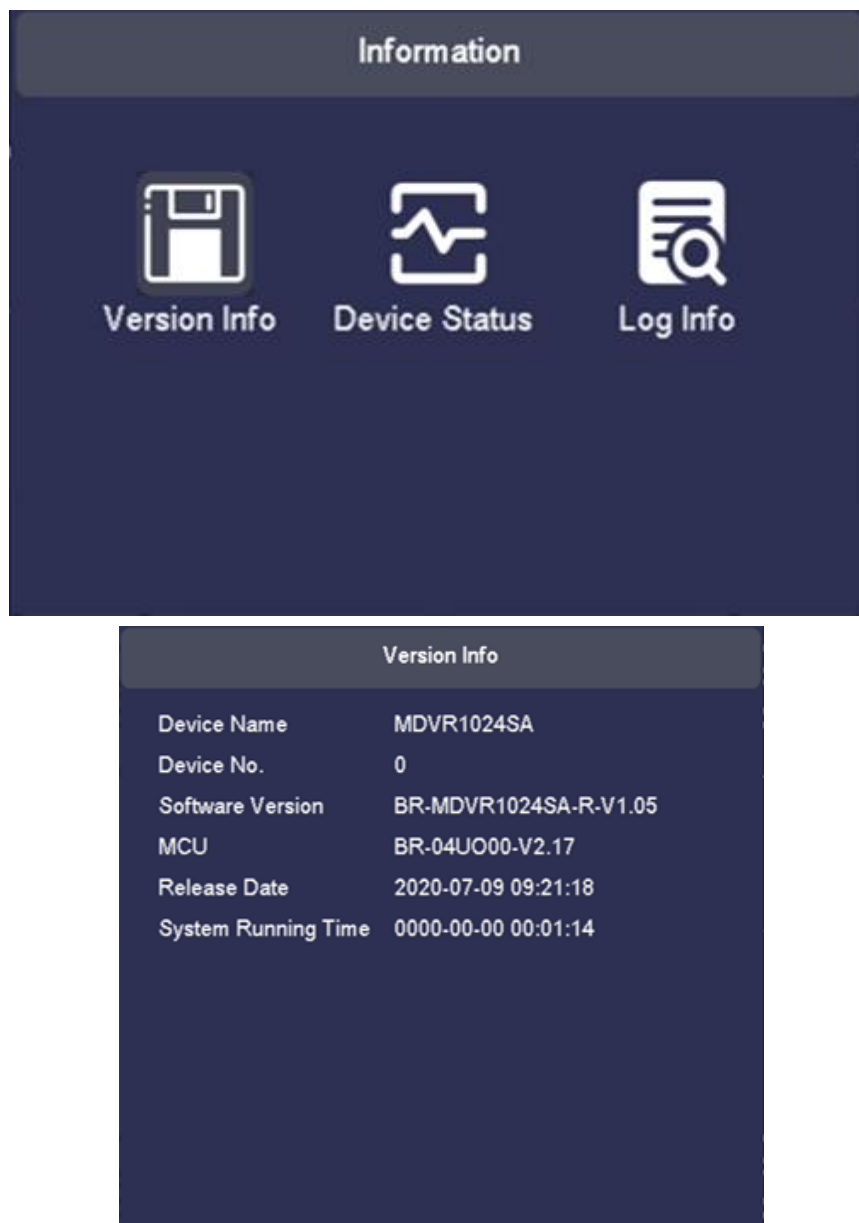


Figure 3-27

- For the setting of the device number, please refer to 3.3.1 Basic Vehicle Information Setting.
- The 0000-00-00 in the front represents the year, month and day, the 00-00-00 in the back is the hour, minute and second, and when it reaches 24H, it becomes 0000-00-01, and then the hour, minute and second back to 0 to restart the timing. Clearing the system running time does not affect the time of the system preview interface.

3.7.2 Device status

Move the mouse to the Device status option, and left-click to enter the device status interface. The user can view the network connection mode, IP address, gateway, sub net mask, current network connection status, and physical address.

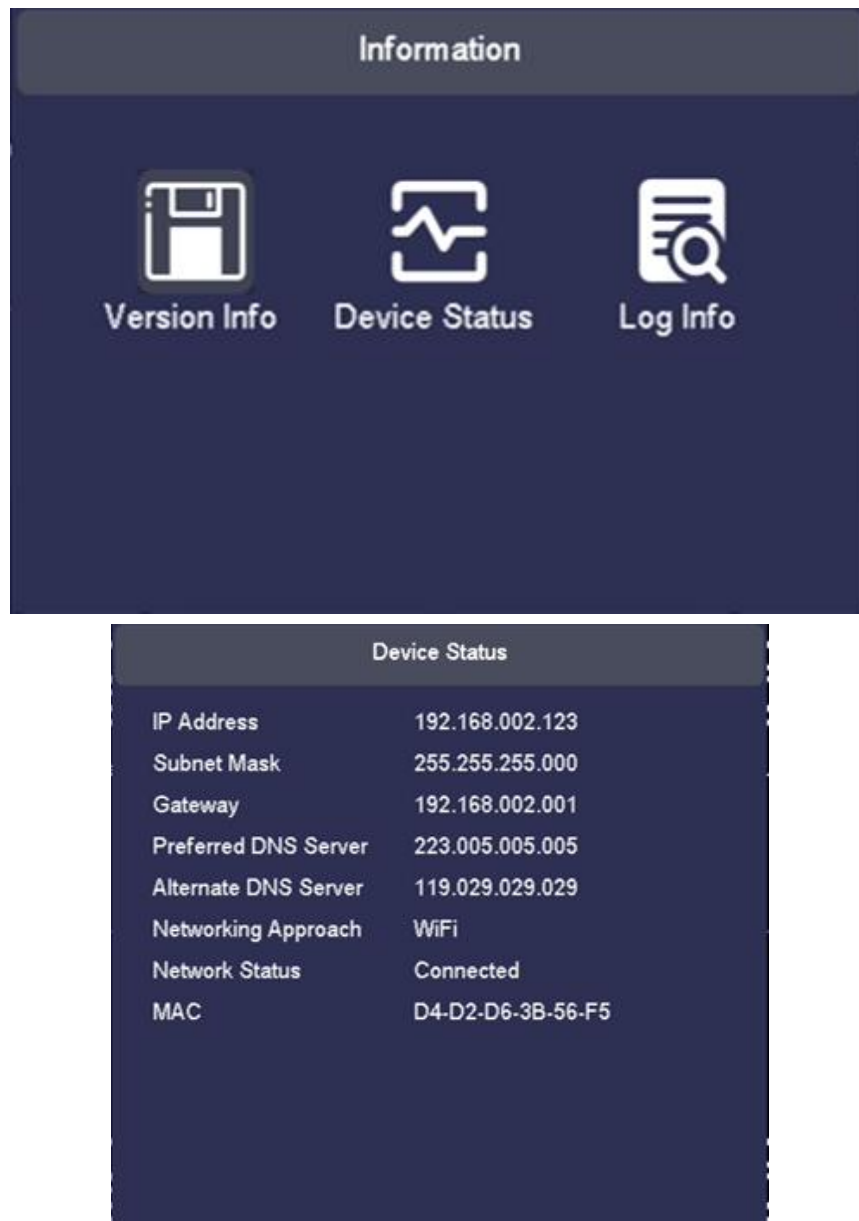


Figure 3-28

- For network connection methods, please refer to 3.4.1 3G/4G connection and 3.4.2 Wi-Fi connection.

3.7.3 Log information

Move the mouse to the log information option and click left to enter the log information interface. The user can view all log information of the current device.

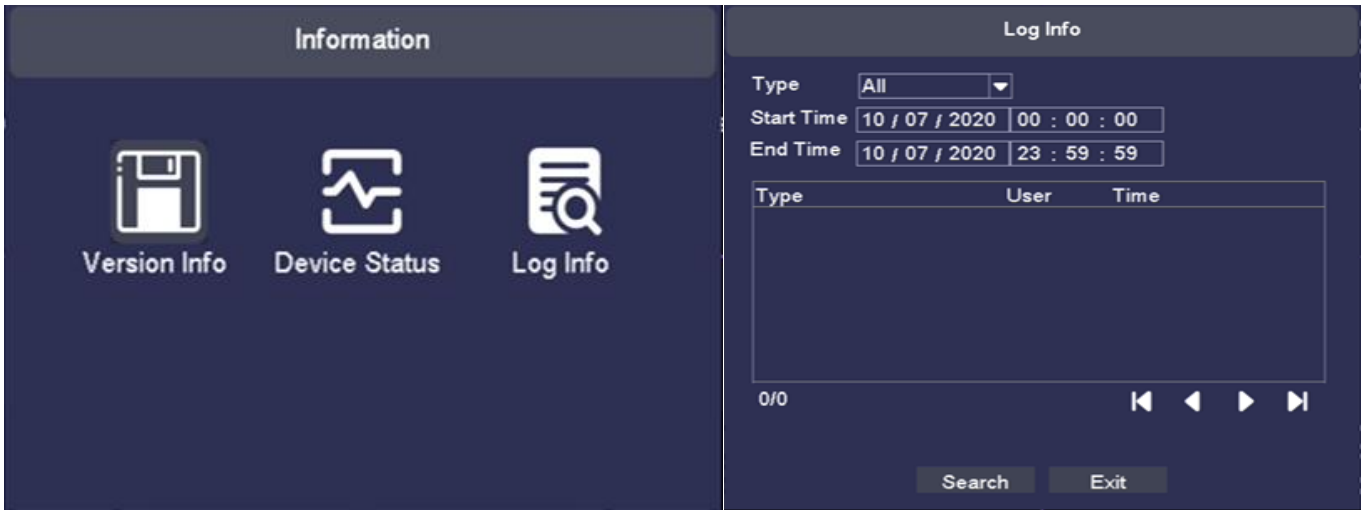


Figure 3-29

- Click to enter the log information dialog box, select the type, start time and end time. After selection, click search to see whether the corresponding log information can be searched in the list box. Log information includes type, user name and time.
- If the hard disc drive is not connected, the log information cannot be queried.

3.8 System Settings

Move the mouse to the main menu bar at the bottom of the interface, select the system settings option, and left-click to enter the system settings submenu.

3.8.1 Factory settings

Select the factory option of the system settings (**Factory**), click confirm, The prompt box will pop up "After restoring the factory settings, the system will restart!". After confirmation, the device will restart and all previous settings will be initialized.

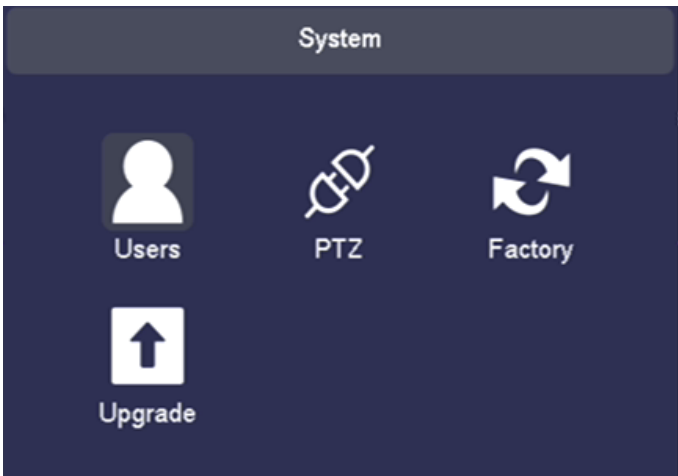


Figure 3-30

3.8.2 User control

The user can enter the user management interface through the system Settings (users option).

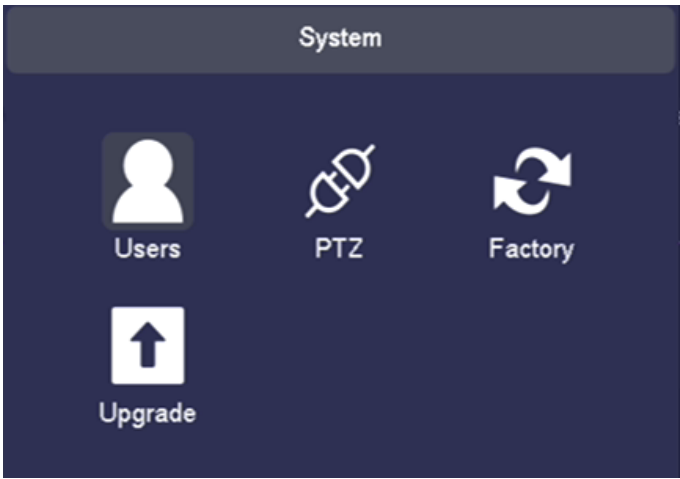


Figure 3-31

- If you log in with the administrator account, you can add users, delete and modify passwords. If you log in with user accounts, you will not have the functions of adding users, deleting and modifying passwords.

1. Add user options

Enter the user management interface, click "add" to enter the user add interface, set the user name, password and user group. Click "set" beside the permission to switch to the permission page, set the corresponding permissions, and click "OK" to add users. Enter the user management interface to see the new user information. The user can log off the login, then input the new user name and password, and click login to use the new user for operation.

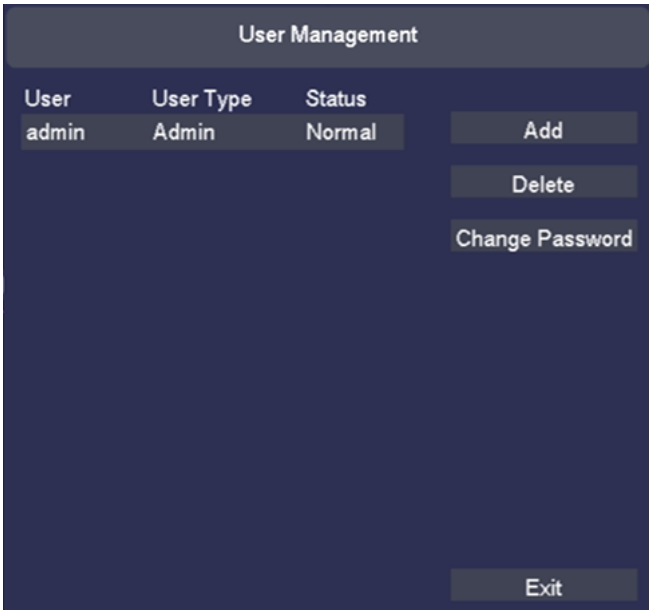


Figure 3-32

2. Delete users

Select the user you want to delete and click "delete". If you select an administrator account, you will be prompted "cannot delete administrator account!" ; if you select another user to delete, you will be prompted "are you sure you want to delete this user?" Click "Cancel" will not delete the user. Click OK to delete the user.

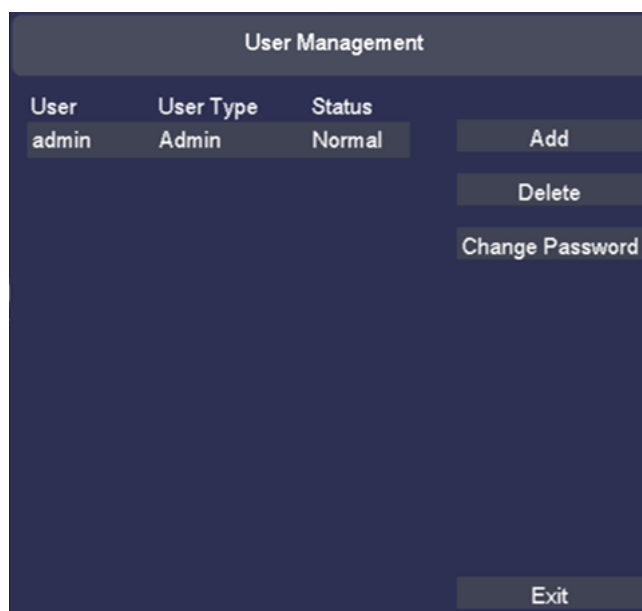


Figure 3-33

3. Change password

Select the user who needs to change the password, click "change password", and modify the password in the pop-up dialog box. The password cannot be less than 6 digits. Click "OK" to save the modified password. If the old password entered is wrong, it will prompt "wrong user name or password, please try again!" , if the two new passwords are inconsistent, you will be prompted "password is inconsistent, please try again!" Click "exit" to cancel change the password.

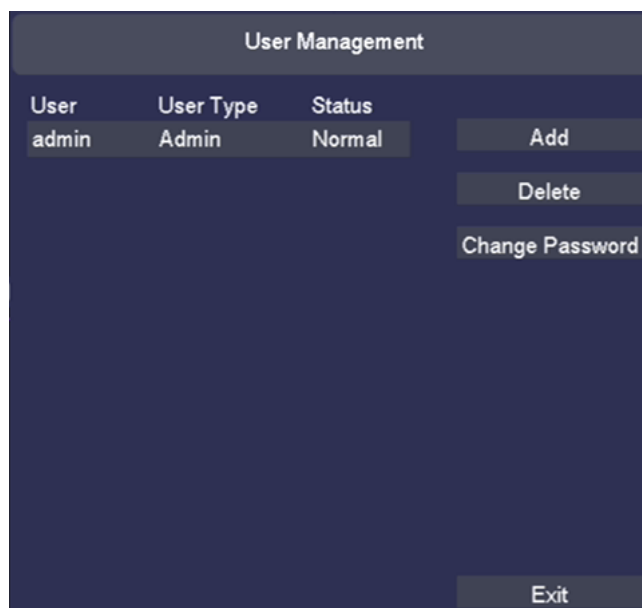


Figure 3-34

3.8.3 PTZ configuration

User can set up PTZ parameter by system settings--->PTZ settings. The parameters include channel, protocol, address, baud rate, data bit, stop bit, verification. The left table is RS485 port, the right table is SERIAL port.

The image shows two screenshots of a PTZ configuration interface. The top screenshot, titled 'System', displays four icons: 'Users' (person icon), 'PTZ' (camera icon), 'Factory' (circular arrows icon), and 'Upgrade' (upward arrow icon). The bottom screenshot, titled 'Serial Port', shows a configuration table with two columns: 'RS485' and 'SERIAL'. The 'SERIAL' column is highlighted with a yellow border. The table contains the following settings:

	RS485	SERIAL
Channel	1	
Protocol	PELCO	None
Address	1	1
Baud Rate	115200	115200
Data Bit	8	8
Stop Bit	1	1
Check	None	None

At the bottom of the 'Serial Port' screen are three buttons: 'Default', 'Apply', and 'Exit'.

Figure 3-35

- Setting up the parameter of PTZ configuration according the used PTZ
- Channel: Choose configured channel.
- Protocol: Choose usage protocol according PTZ
- Address: Choose usage address according PTZ
- Baud Rate: Choose usage baud rate according PTZ
- Data bit: Choose usage data bit according PTZ
- Stop bit: Choose usage stop bit according PTZ
- Verification: Choose usage verification according PTZ
- Setting up The 3G/ 4G network/ wireless network(Details in 3.4.1 3G/4G network settings and 3.4.2 wireless network settings) and server settings(details in 3.4.3 server settings)
- Open PC server APP, Sign in, to find the right serial number and click, connect DVR'S image, double click the PTZ channel, Let it show alone, To choose the PTZ at the bottom left corner and click the button on turntable, Controlling the PTZ direction and auto cruise(The middle button is auto cruise).
- After adjusting the direction, choose the number in square frame below, click settings, save this settings point, and then click turntable, Change PTZ to another direction, click transfer, to check if the PTZ can turn to the settings point saved before.

3.8.4 Upgrade

User can upgrade system by system settings---> upgrade

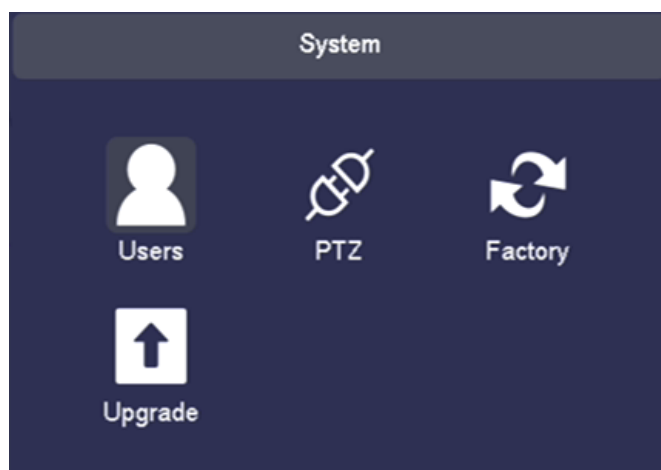


Figure 3-36

There are three upgrade methods:

Method 1: Copy the upgraded software to U disk or carder reader(with carder), and plugs into device's USB port. Come into the upgrade page, click the reload on the right of device's name, after identifying storage devices, the device will show the name of storage device. Click the square frame at right of " file" in this upgrade page, and choose the upgrade file, click" import" to upgrade(Only upgrade higher version than now). If the upgraded file is comprehensive upgrading(Might delete device), It can import current configuration: click "import" beside the second file in the configuration page. If don't plug save device--"U disk/carder reader/SD card", it will remind"error, No save device or no effective file", It can import configuration if plug save device. After the end of upgrade, click the square frame beside the first file to choose saved configuration file, and click "import", come into configuration import, and then it will start up. Check if the previous configuration is imported after starting up.

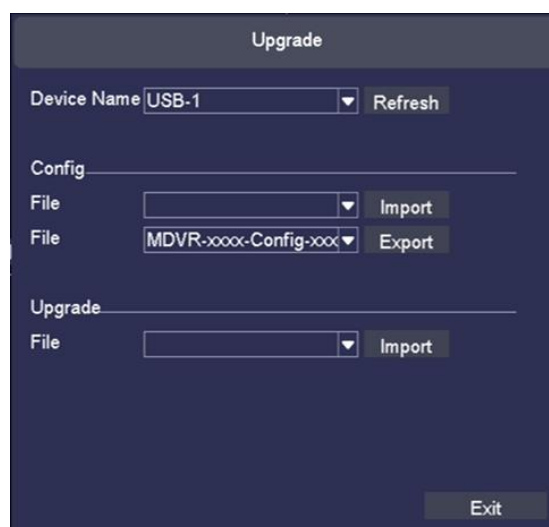


Figure 3-37

Method 2: Cut off the device's power supply. Copy the files of rootfs-3521d, u-boot-3521d.bin and kernel-3521d to SD card, and plugs into SD card slot. Supply power to device again and auto upgrade, upgrade complete. After the device starts up by itself, pull out this SD card with upgrade file.

Method 3: Cut off the equipment's power supply. Copy the files of rootfs-3521d, u-boot-3521d.bin and

kernel-3521d to U disk or carder reader(with SD card), plugs into device's USB port. Supply power to device again and auto upgrade, upgrade complete. After the device starts up by itself, pull out this SD card with upgrade file

Note: SD card and U disk must be FAT32 format. If not, After version Upgrade, In the interface, click "device information" -> "version information" in the menu list. To check if it is the same between version information and version upgrade.