



# Instruction Manual

*7" Digital Quad View Color Monitor  
with Built-in DVR*

RVS-3710-DVR



 **REAR VIEW  
SAFETY**  
A Safe Fleet Brand

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## NOTE!

***Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer's warranty.***

***Congratulations*** on purchasing a Rear View Backup Camera System!

With this manual you will be able to properly install and operate the unit.

The Backup Camera System is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. The Backup Camera System should not be used as a substitute for the standard rear view mirror or for any other mirror that exists in your vehicle.

In some jurisdictions, it is unlawful for a person to drive a motor vehicle equipped with a TV viewer or screen located forward of the back of the driver's seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle.

Please read the entire manual and follow the instructions and warnings carefully. Failure to do so can cause serious damage and/or injury, including loss of life. Be sure to obey all applicable local traffic and motor vehicle regulations as it pertains to this product. Improper installation will void manufacturer's warranty.

## **USAGE:**

- The Rear View Camera System is designed to help the driver safely detect people and/or objects helping to avoid damage or injury. However, you the driver, must use it properly. Use of this system is not a substitute for safe, proper or legal driving.
- Never back up while looking at the monitor alone. You should always check behind and around the vehicle when backing up, in the same way as you would if the vehicle did not have the Rear View Camera System. If you back up while looking only at the monitor, you may cause damage or injury. Always back up slowly.
- The Rear View Camera System is not intended for use during extensive back-up maneuvers or backing into cross traffic or pedestrian walkways.
- Please, always remember, the area displayed by the Rear View Camera System is limited. It does not display the entire panorama that is behind you.

## INSTALLATION:

- Electric shock or product malfunction may occur if this product is installed incorrectly.
- Use this product within the voltage range specified. Failure to do so can cause electronic shock or product malfunction.
- Take special care when cleaning the monitor.
- Make sure to firmly affix the product before use.
- If smoke or a burning smell is detected, disconnect the system immediately.
- Where the power cable may touch a metal case, cover the cable with friction tape. A short circuit or disconnected wire may cause a fire.
- While installing the Rear View System be careful with the wire positioning in order to avoid wire damage.
- The Rear View System should only be used when the vehicle is in reverse.
- Do not watch movies or operate the monitor while driving; as it may cause an accident.
- Do not install the monitor where it may obstruct drivers view or obstruct an air bag device.
- Dropping the unit may cause possible mechanical failure.

*If you have questions about this product, contact:*

***Rear View Safety  
1797 Atlantic Avenue  
Brooklyn, NY 11233  
Tel: 1.800.764.1028***

IN NO EVENT SHALL SELLER OR MANUFACTURER BE  
LIABLE FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OF  
ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM  
ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.



A Safe Fleet Brand

Before drilling please check that no cable or wiring is on the other side of the wall. Please clamp all wires securely to reduce the possibility of them being damaged while vehicle is in use. Keep all cables away from hot/moving parts and electrical noisy components.

***We recommend doing a benchmark test before installation to insure that all components are working properly.***

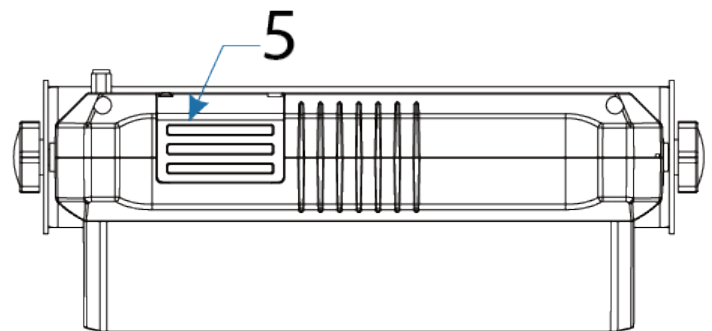
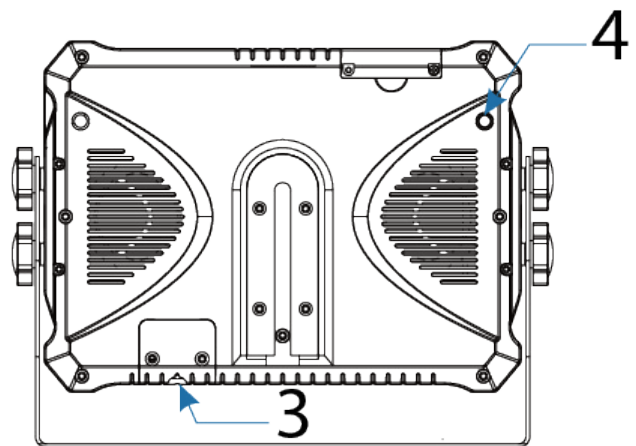
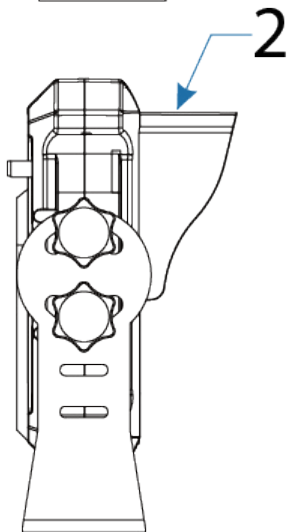
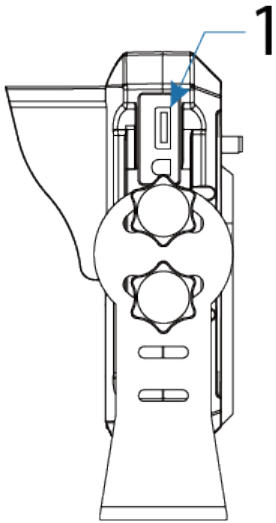
Step 1: Choose the monitor and camera locations.

Step 2: Install all cables in vehicle, when necessary a 0.8 (20mm) hole should be drilled for passing camera cable through vehicles walls. Install split grommets where applicable.

Step 3: Once all cables and wiring have been properly routed, perform a system function test by temporarily connecting the system.

## System Introduction

- 1) USB Port: Connect external mouse / USB drive
- 2) Removable Sunshade
- 3) Location of power harness
- 4) GPS Antenna Port
- 5) SD Slot: System records onto SD Card (sold separately)



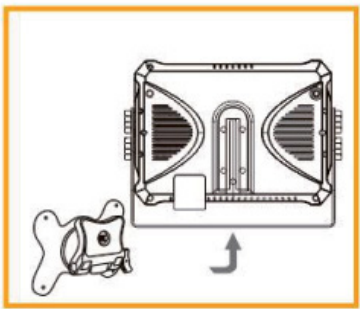


## Package Contents

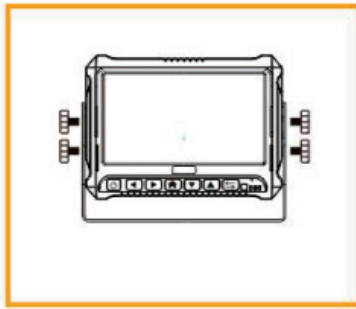
- 1) 7" Digital Quad View Color Monitor with Built-in DVR
- 2) Power Harness
- 3) GPS Module
- 4) U-Bracket (with installation screws)

## Mounting Options

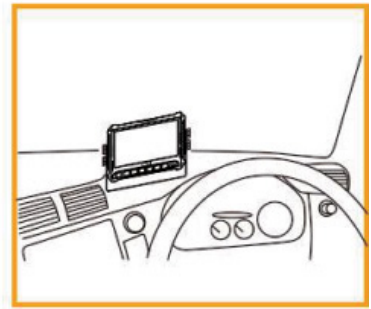
1



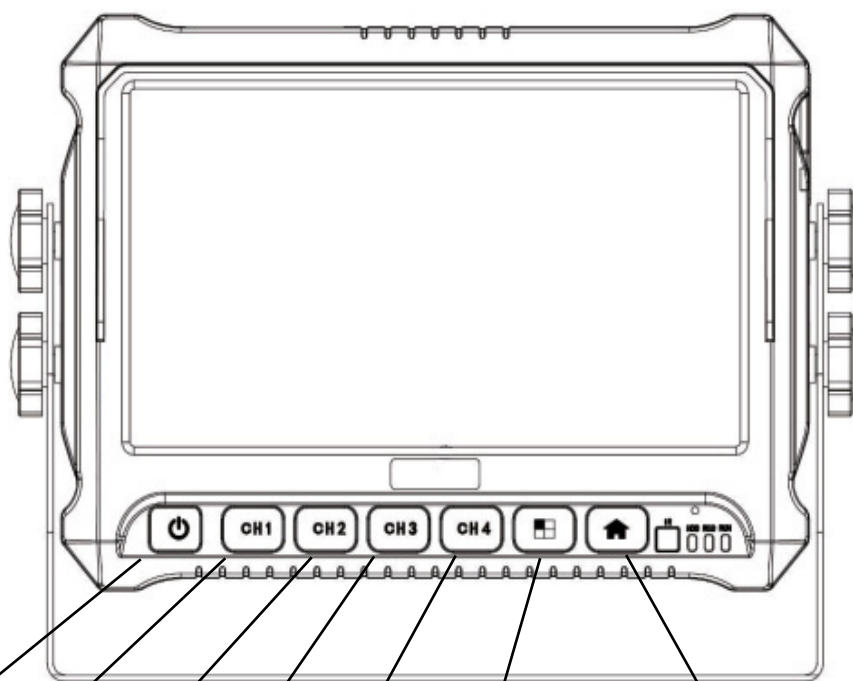
2



3



- 1) Butterfly mounting bracket (sold separately)
- 2) U-bracket
- 3) Vertical monitor mount



Power, CH1, CH2, CH3, CH4, Split Button, HOME

**POWER:** Turn on monitor

**Ch1/2/3/4:** Toggle between channels

**Split Button:** Toggle between multiple viewing options

**Home:** Return to main interface

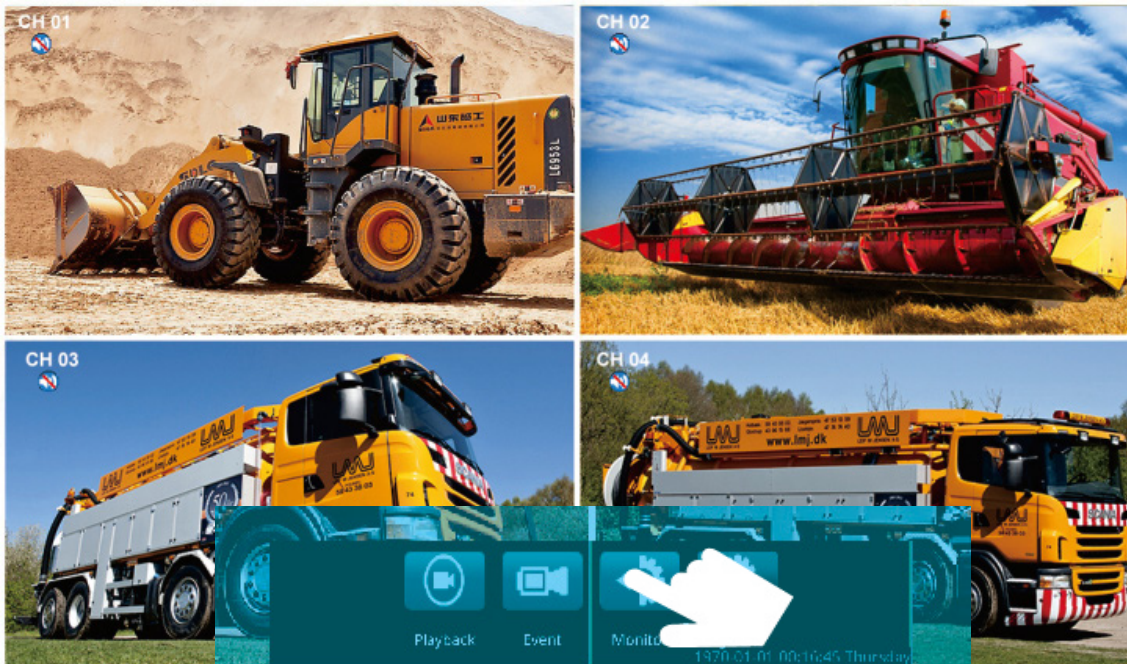
## System Display

Below is the default interface.



## Touch Screen

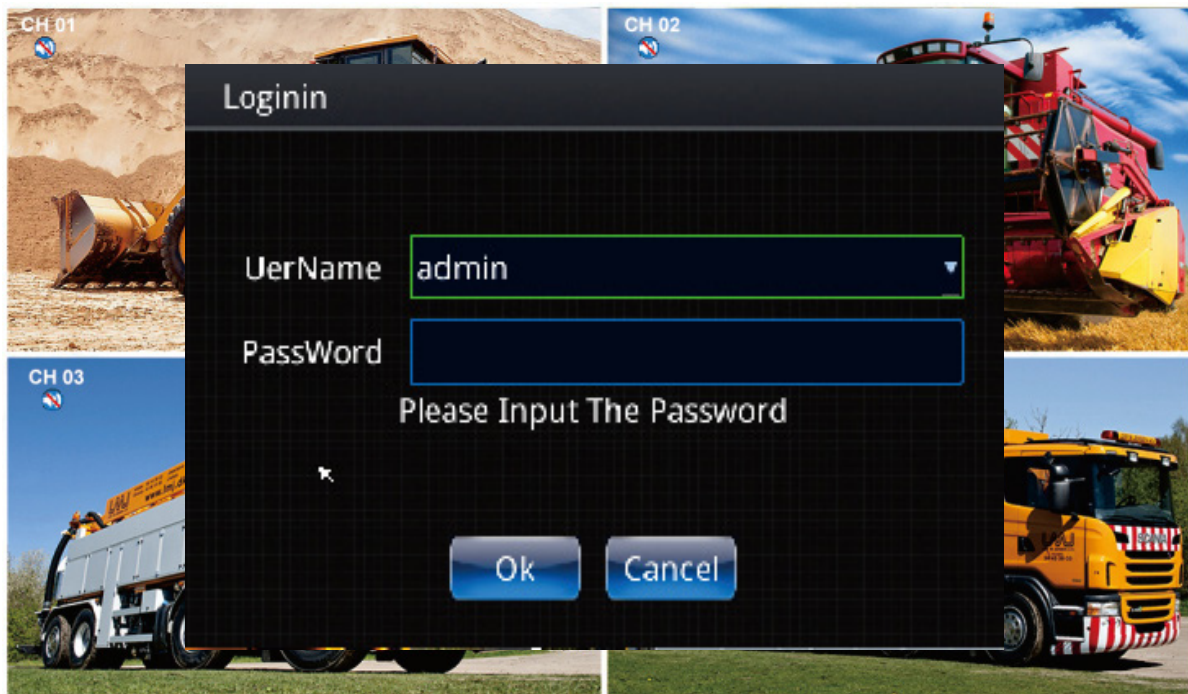
Touch the lower middle part of screen to bring up shortcut menu options



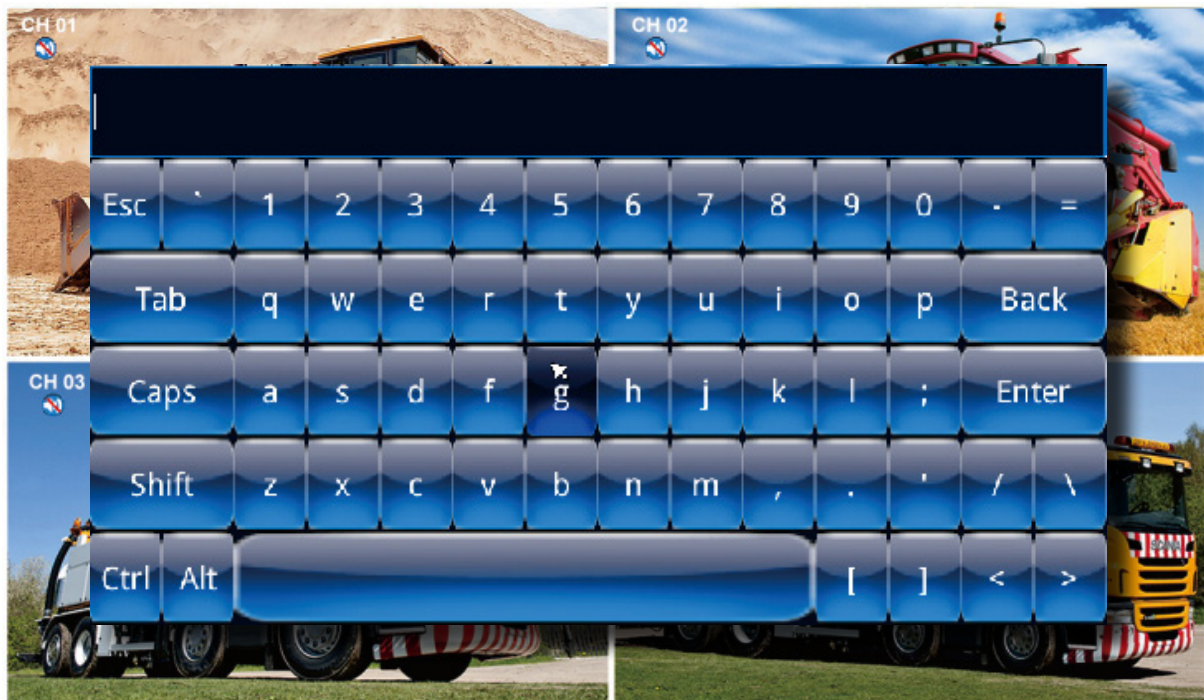
The shortcut menu options are Playback, Event, Monitor and System



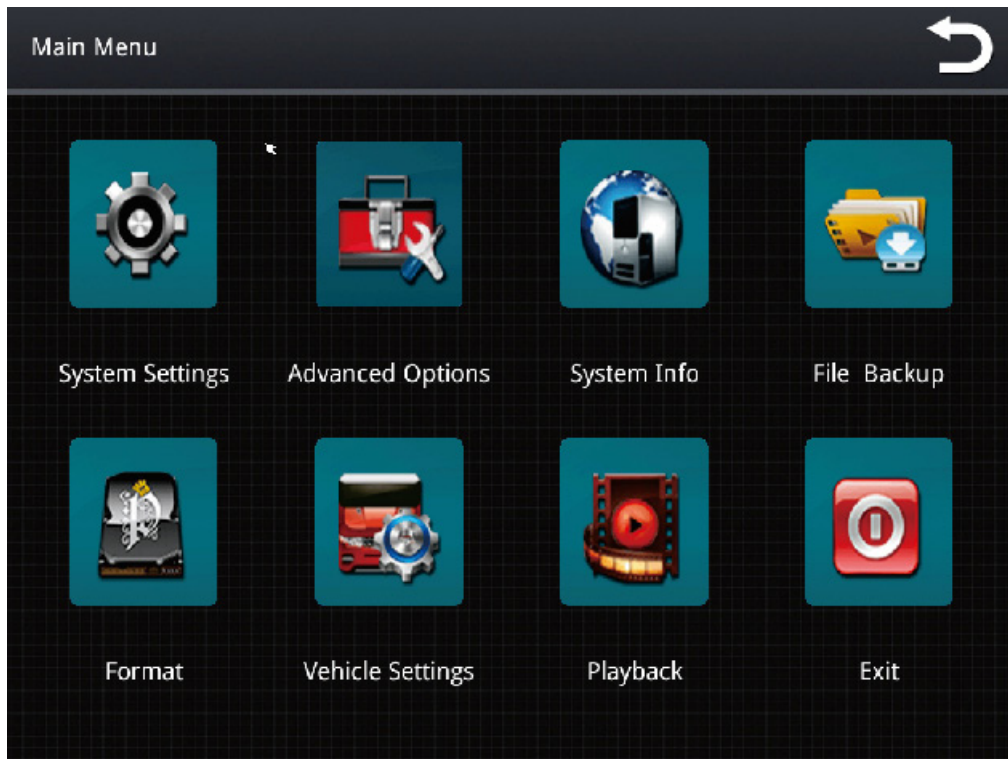
As shown below, you need to enter the user name and password. Press OK without entering a password, you can set a password from the menu.



Pressing password field will display a keyboard.

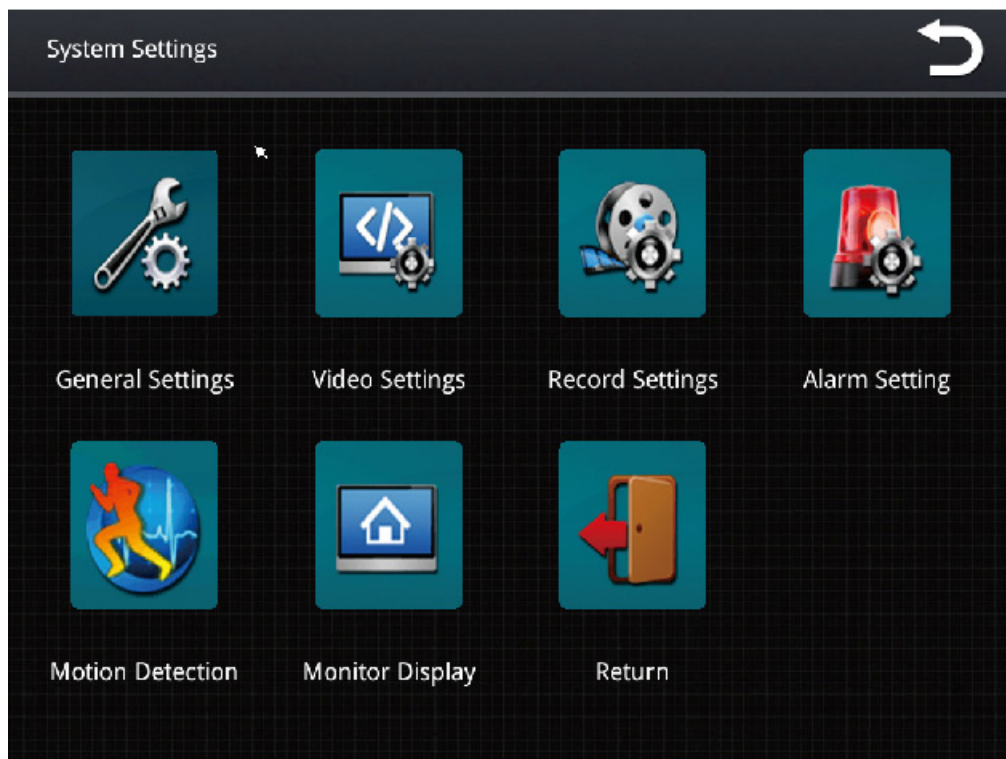


## Main Menu

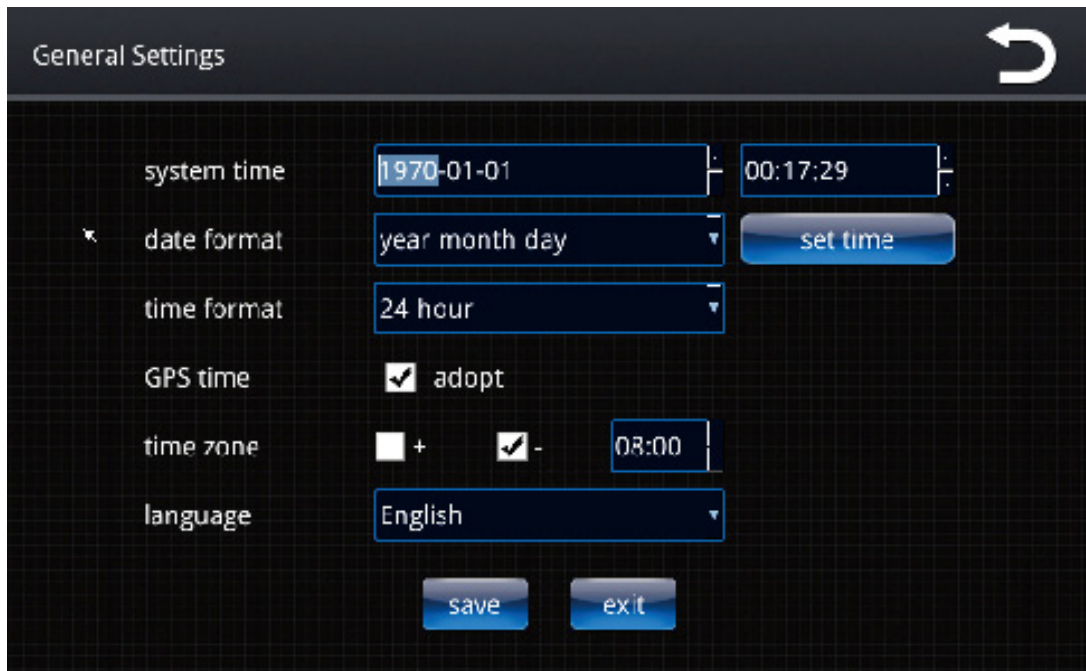


## System Settings

Items shown below in system settings: General Settings, Video Settings, Record Settings, Alarm setting, Monitor Display and Return.



## General Settings



The screenshot shows a 'General Settings' menu with a dark background and a grid pattern. At the top right is a curved arrow icon. The settings are as follows:

- system time: 1970-01-01 | 00:17:29
- date format: year month day (dropdown) | set time (button)
- time format: 24 hour (dropdown)
- GPS time: ☒ adopt
- time zone: ☐ + ☒ - 08:00
- language: English (dropdown)

At the bottom are 'save' and 'exit' buttons.

Use general settings to change system time then press set time to confirm.

**Date Format:** Toggle between year/month/day, month/day/year, day/month/year

**Time Format:** Toggle 24/12 hour

**GPS Time:** When enabled, GPS will determine time

**Time Zone:** Change time zone



## Video Settings

Video Settings

channel CH1 encode size D1

bit stream ctr dynamic bit stre encode quality good

frame 30 bit stream 911kbps

☒ time overlay set position ☒ chan overlay set position

☒ plate overlay set position ☒ gps overlay set position

save copy exit

**Channel:** Select channel

**Encode Size:** Toggle image quality, select from CIF/HALF D1/D1/960H/720p/1080N

**Bit Stream Ctr:** Toggle Fixed Stream/Dynamic Stream

**Encode Quality:** Toggle best/very good/good/medium/poor/worst

**Frame:** Toggle frames per second

**Bitstream:** Toggle 303/455/607/911/1214/1518kbps

**Overlay:** Toggle time/plate/chan/GPS overlay ON/OFF. Set desired position, then press home to return to video settings.

## Record Settings

The image shows a 'Record Settings' screen with a dark background and a grid of settings. At the top right is a circular arrow icon. The settings are as follows:

Setting	Value
channel	CH1
loop length	3 minutes
loop recording	YES
video format	NTSC
scheduled rec	<input type="checkbox"/> stop rec
manual rec	<input type="checkbox"/> manual rec
auto rec	<input checked="" type="checkbox"/> auto rec
rec plan	monday

Start Time	End Time
00:00	23:59
00:00	23:59
00:00	23:59
00:00	23:59

At the bottom are three buttons: 'save', 'copy', and 'exit'.

**Channel:** Select channel to adjust

**Loop Recording:** Loop recording allows overwriting of SD card when full. Toggle ON/Off.

**Loop Length:** Change length of each video segment, toggle between 1-60 minutes.

**Video Format:** Toggle PAL/NTSC

**Schedule Rec:** Choose between stop rec/manual rec/auto rec



The screenshot shows the 'Alarm Control' window with a dark background and a grid pattern. At the top left is the title 'Alarm Control' and at the top right is a circular arrow icon. The settings are as follows:

- enable status:** A checkbox labeled 'enable/disable' is currently unchecked.
- alarm input:** A dropdown menu showing 'CH1'.
- dev type:** A dropdown menu showing 'high level'.
- alarm delay:** A text input field containing '10' followed by 'sec'.
- rec channel:** Four checkboxes labeled '1', '2', '3', and '4'. All are currently unchecked.
- periods of time:** A dropdown menu showing 'Monday'. Below it are two time range inputs, each showing '00:00' to '23:59'.
- alarm output:** Two checkboxes labeled 'screen display' and 'I/O output'. Both are currently unchecked.

At the bottom are three buttons: 'save', 'copy', and 'exit'.

**Enable:** Toggle alarm ON/OFF

**Alarm Input:** Toggle alarm channel

**Dev Type:** Select high level/low level

**Alarm Delay:** Toggle delay time

**Rec Channel:** Will begin recording on selected channel(s) when alarm occurs

**Periods of Time:** Manually set times for alarms

**Alarm Output:** Choose between Screen Display, I/O Output

## Motion Detection

Motion Detection

enable status ☒ enable/disable

channel CH1

alarm delay 5 sec

region set

sensitivity Medium

rec channel ☒ 1 ☒ 2 ☒ 3 ☒ 4

alarm output ☒ I/O output ☒ screen display prompt

Periods of time Monday

00:00 to 23:59

00:00 to 23:59

save copy exit

**Enable Status:** Toggle enable/display

**Channel:** Select Channel

**Alarm Delay:** Toggle delay (secs) after start of the alarm prompt and video

**Region:** Select area of display to be included in motion detection

**Sensitivity:** Toggle motion detection sensitivity

**Rec Channel:** What channels will be recorded with motion detection

## Monitor Display

Monitor Display

channel name

CH01 CH 01 CH02 CH 02

CH03 CH 03 CH04 CH 04

☐ rolling display display time 5 sec

full page ☒ 1 ☒ 2 ☒ 3 ☒ 4

two page ☐ 1 ☐ 2

preview time ON

save exit

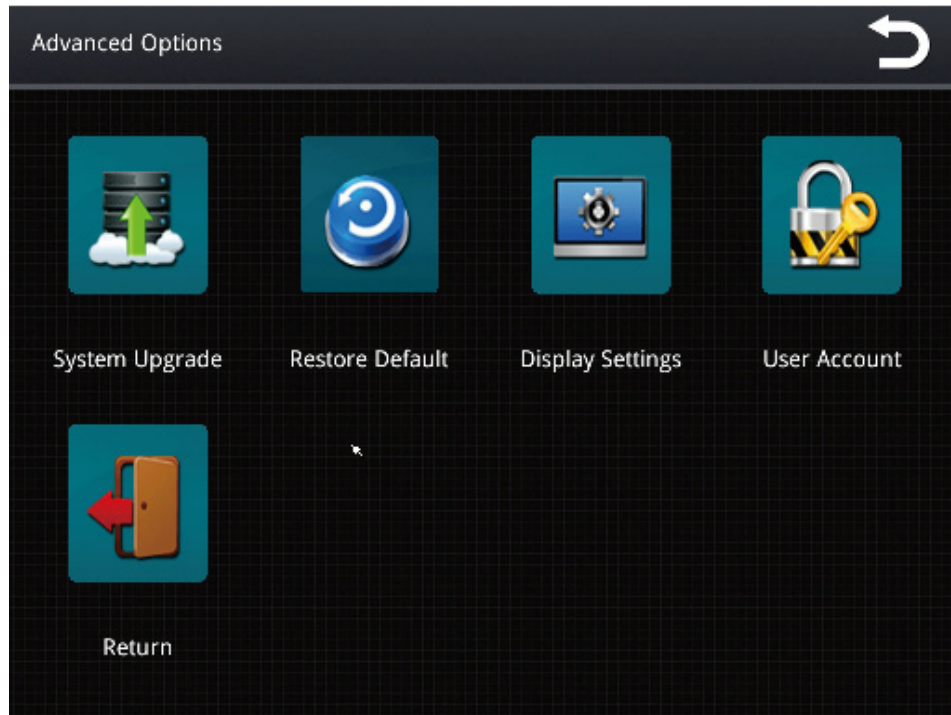
**Channel Name:** Adjust channel names

**Rolling Display/Display Time:** Turn on automatic display changes and determine display time.

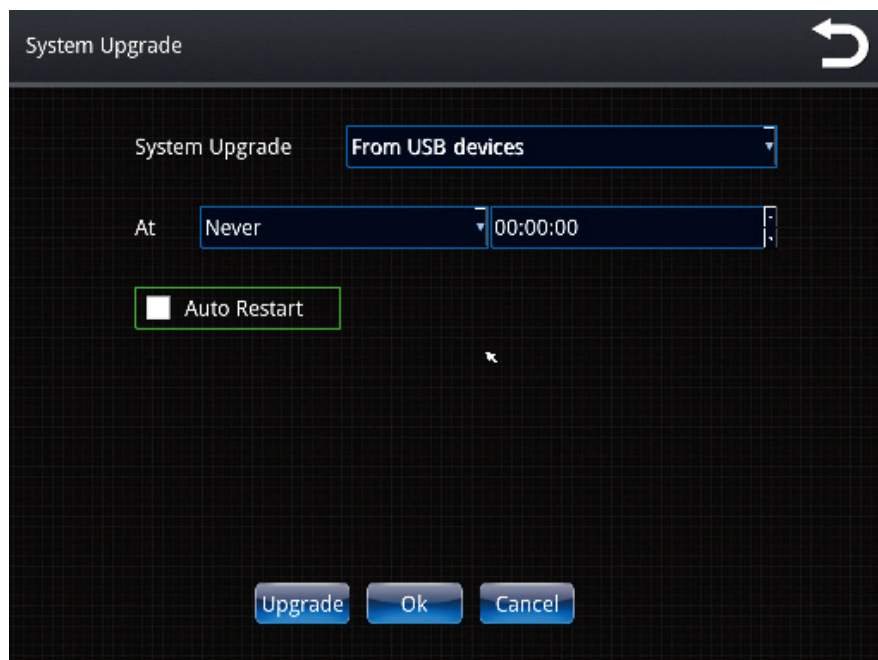
**Full Page/Two Page:** Toggle what channels are included

**Preview Time:** Toggle time ON/OFF

From the main menu, select advanced options.

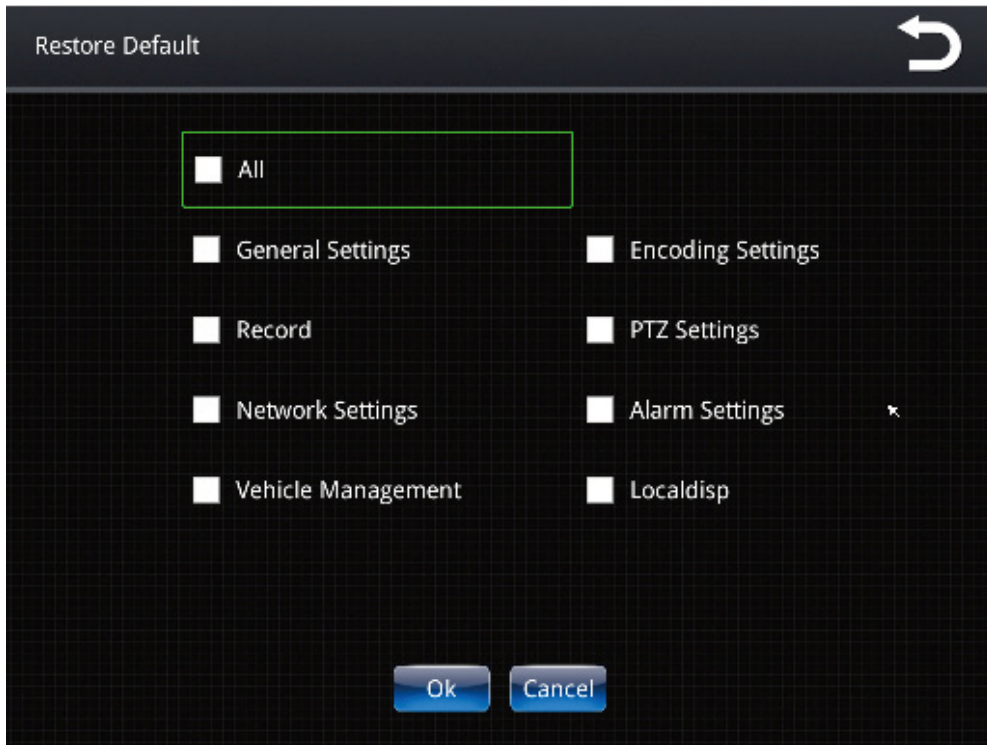


**System Upgrade:** System must be updated with a USB device. The system can be automatically restarted after the upgrade.





## Restore Default: Use this setting to restore factory settings



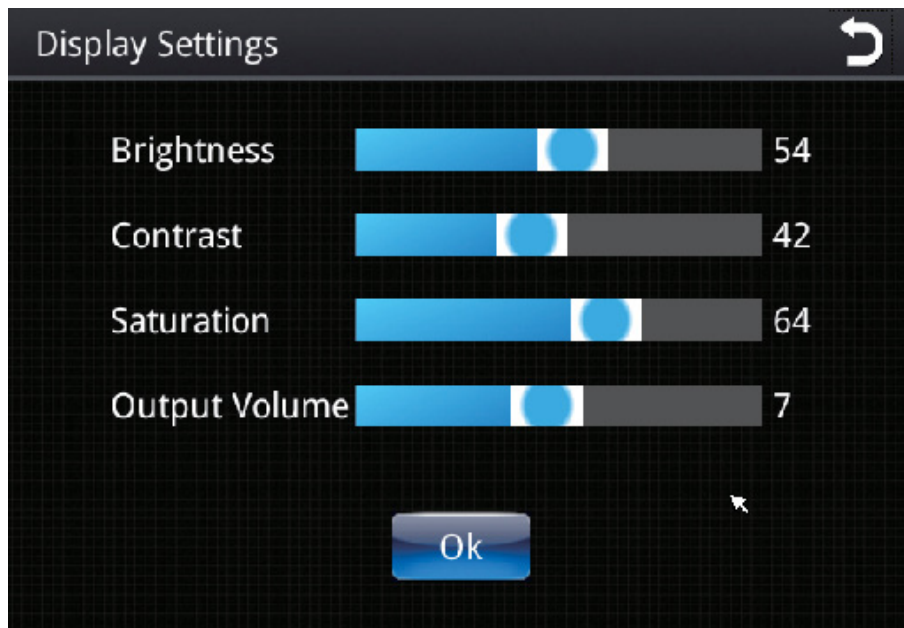
## Display Settings: Adjust display settings

Brightness: Range 0-100

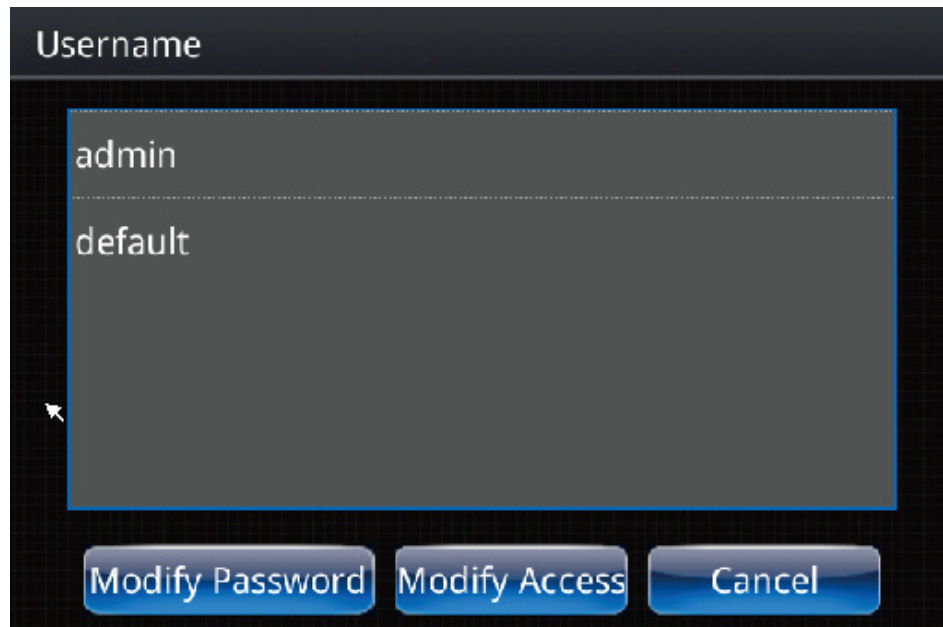
Contrast: Range 0-100

Saturation: Range 0-100

Output Volume: Range 0-15

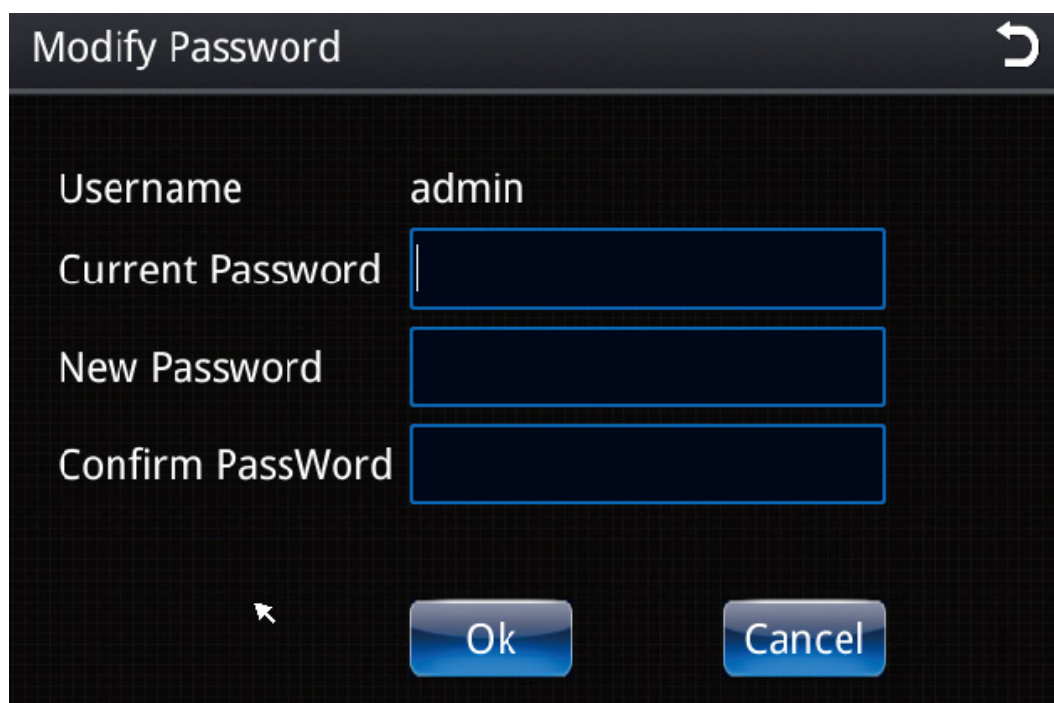


## User Accounts



A screenshot of a 'User Accounts' dialog box. The title bar says 'User Accounts'. Inside, there is a list box containing two entries: 'admin' and 'default'. The 'admin' entry is highlighted. Below the list box are three buttons: 'Modify Password', 'Modify Access', and 'Cancel'.

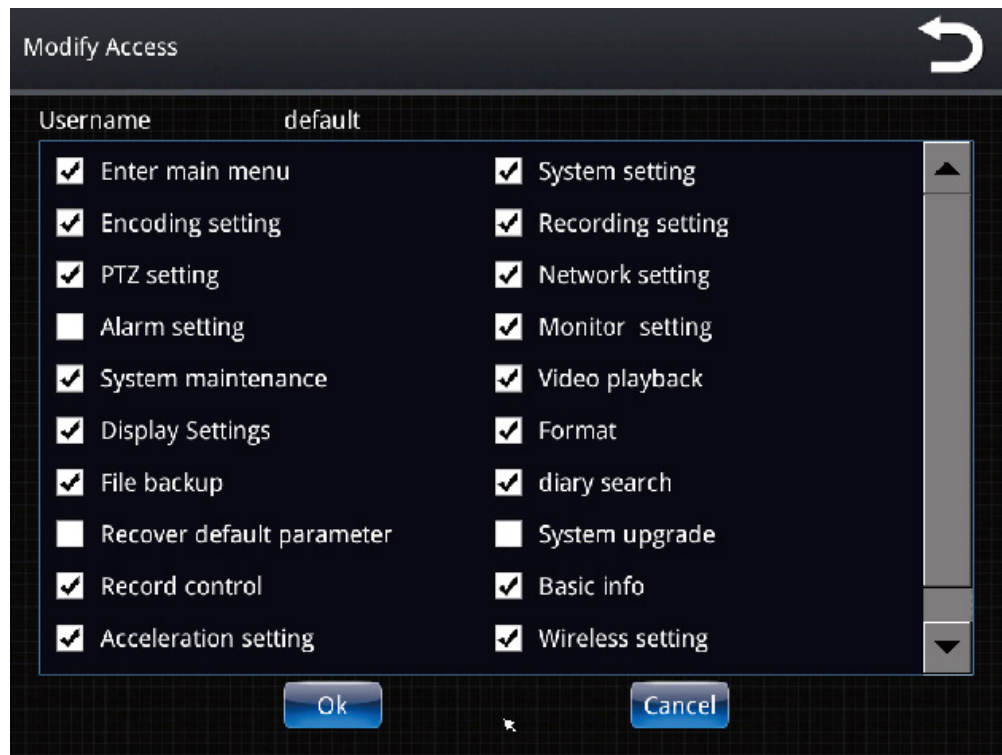
Use this setting to modify password/access



A screenshot of a 'Modify Password' dialog box. The title bar says 'Modify Password' with a refresh icon on the right. Inside, there are four labels and input fields: 'Username' with the value 'admin', 'Current Password' with an empty field, 'New Password' with an empty field, and 'Confirm PassWord' with an empty field. At the bottom are 'Ok' and 'Cancel' buttons.

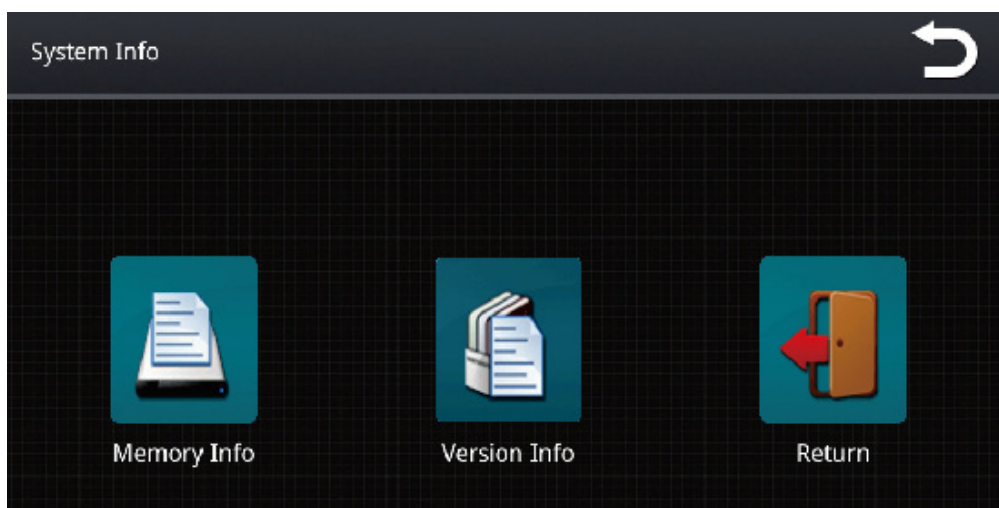
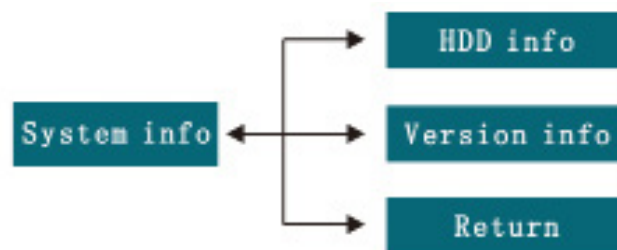
**Modify Password:** Enter the current password, confirm identity, enter the new password, and confirm the password

## Modify Access

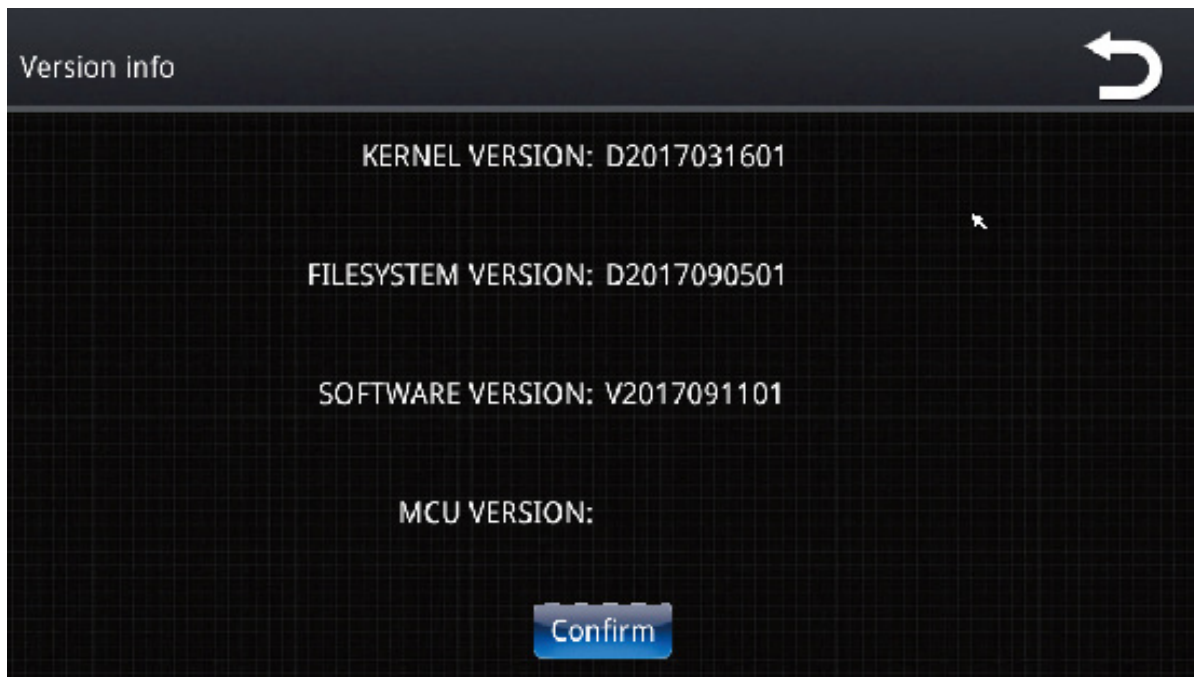


Use this setting to adjust user permissions

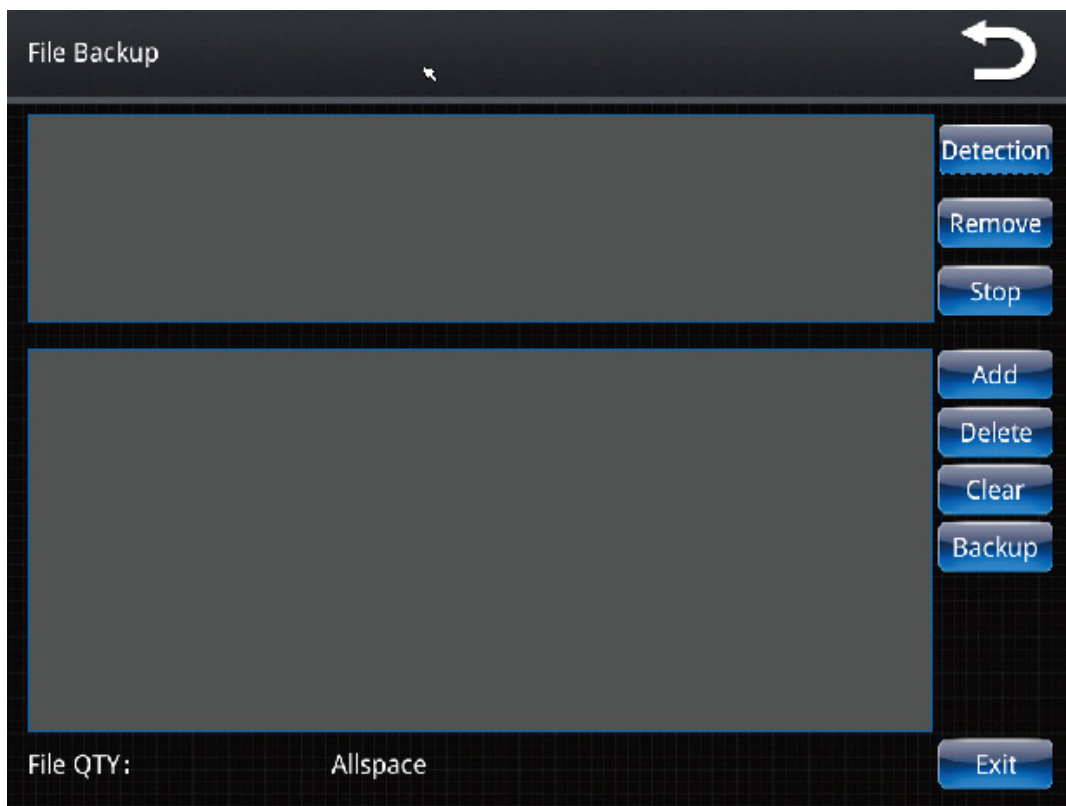
From the main menu, select **System Information**



## Version info



From main menu, select **File Backup**





**Detection:** Detects devices attached to DVR that could be used to back-up files

**Remove:** Removes current device

**Stop:** Stop detection

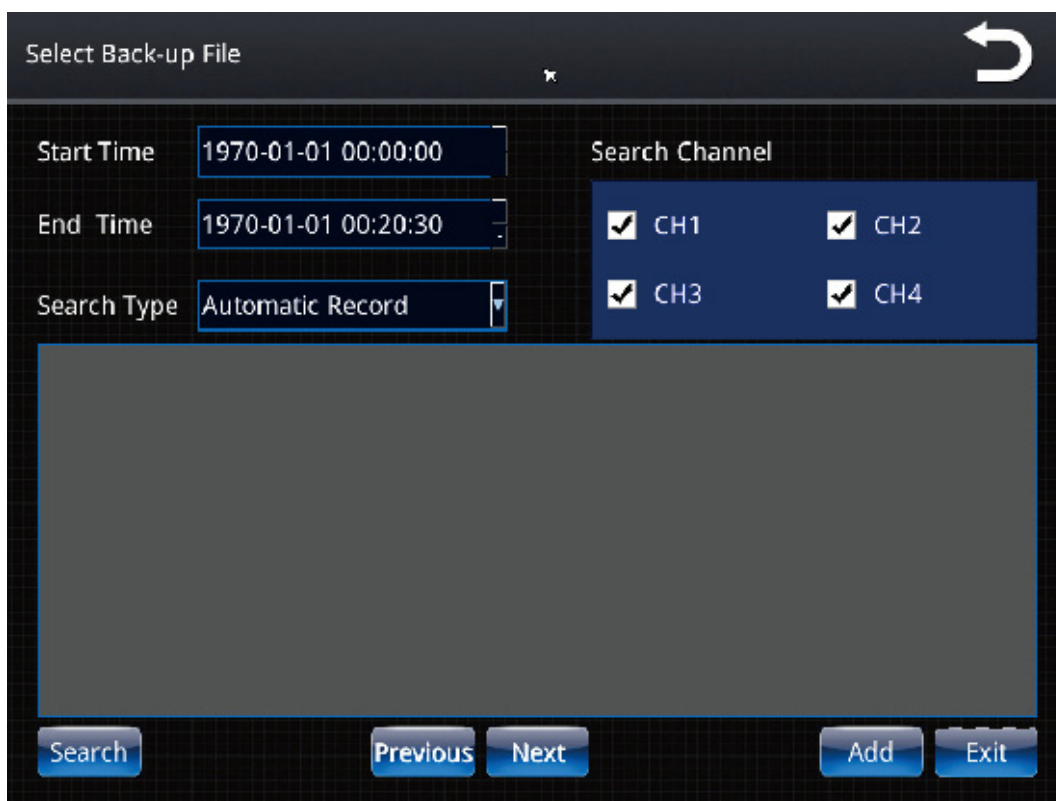
**Add:** Prompts user to select video file to backup

**Delete:** Deletes selected video

**Clear:** Clears all video in backup box

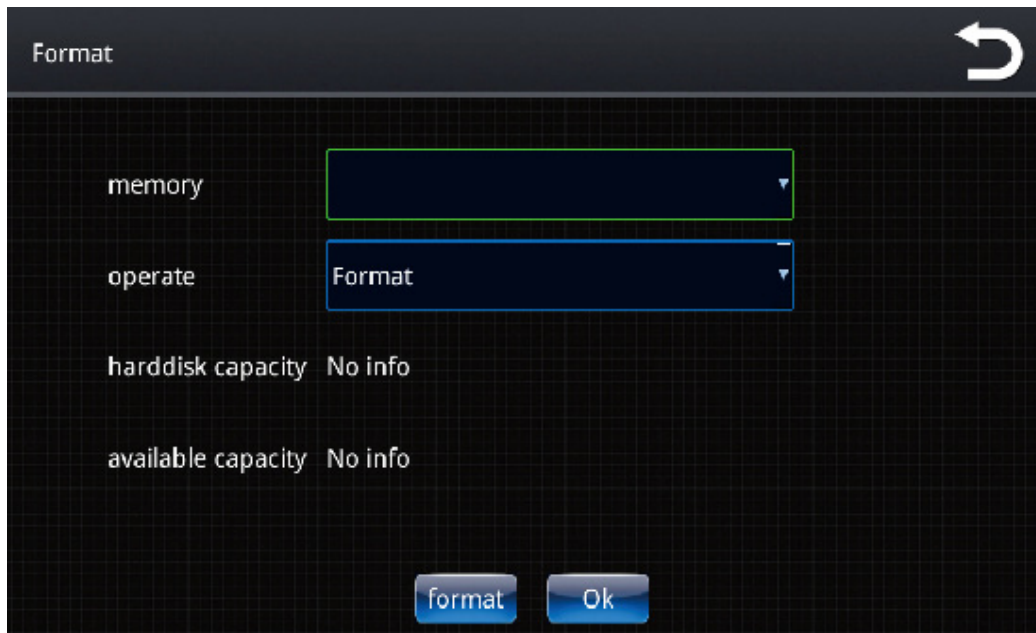
**Backup:** Backup up all video files to device selected in detection box

Back up the video, retrieve it by time, type, or channel, then click the search in the lower left corner to get started. The successfully found video appears in the gray box in the photo. Click Add to move video to file backup display.



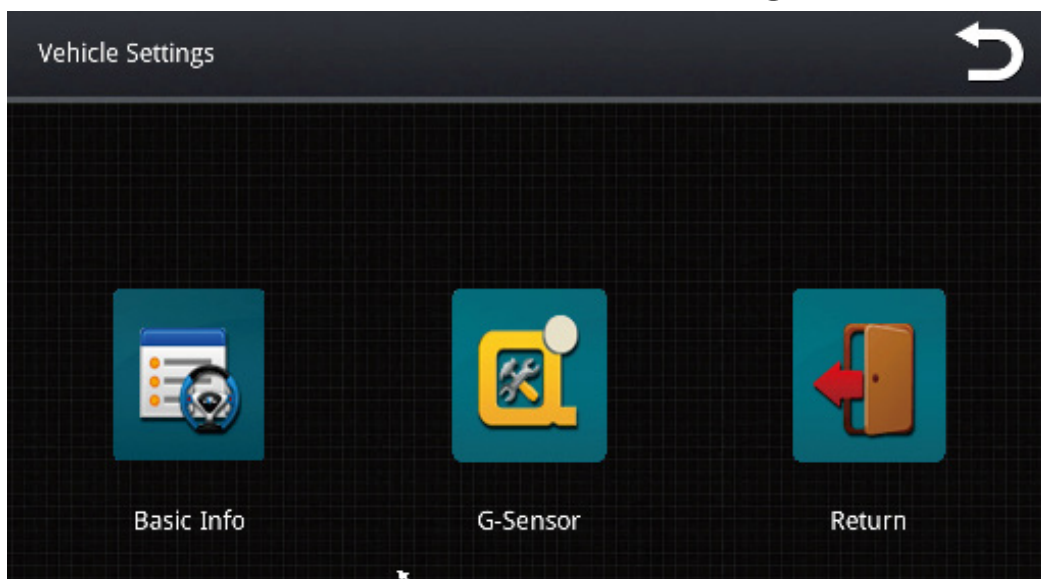
## Format

From the main menu, select format.



Without a hard disk or SD card, there is no hard disk capacity information (As shown above). Press format to format hard disks and SD cards.

From the main menu, choose **Vehicle Settings**



Basic Info

Vehicle Number: vehicle

Company Name: companyname

License Number: license

Driver's Name: drivername

Line Number: lineNu

Save Exit

Enter vehicle number, company name, license number, driver's name and line number.

## *G-Sensor*

G-Sensor

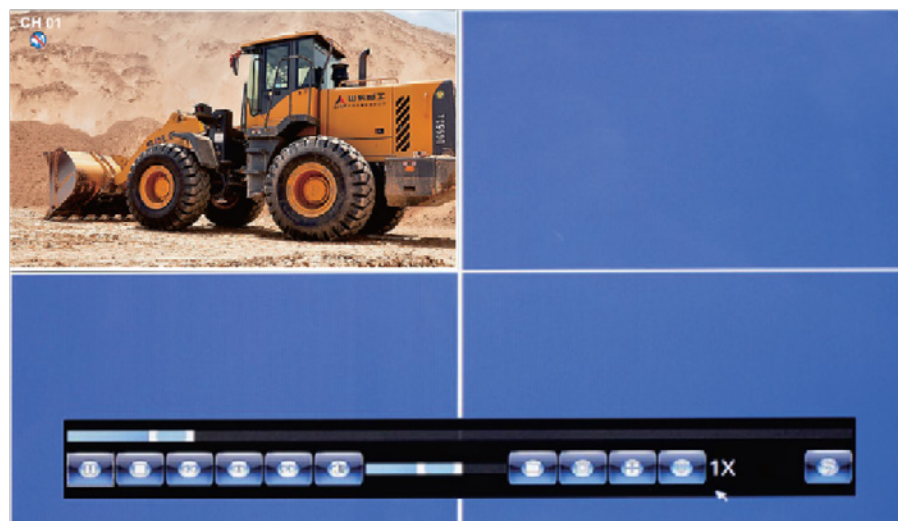
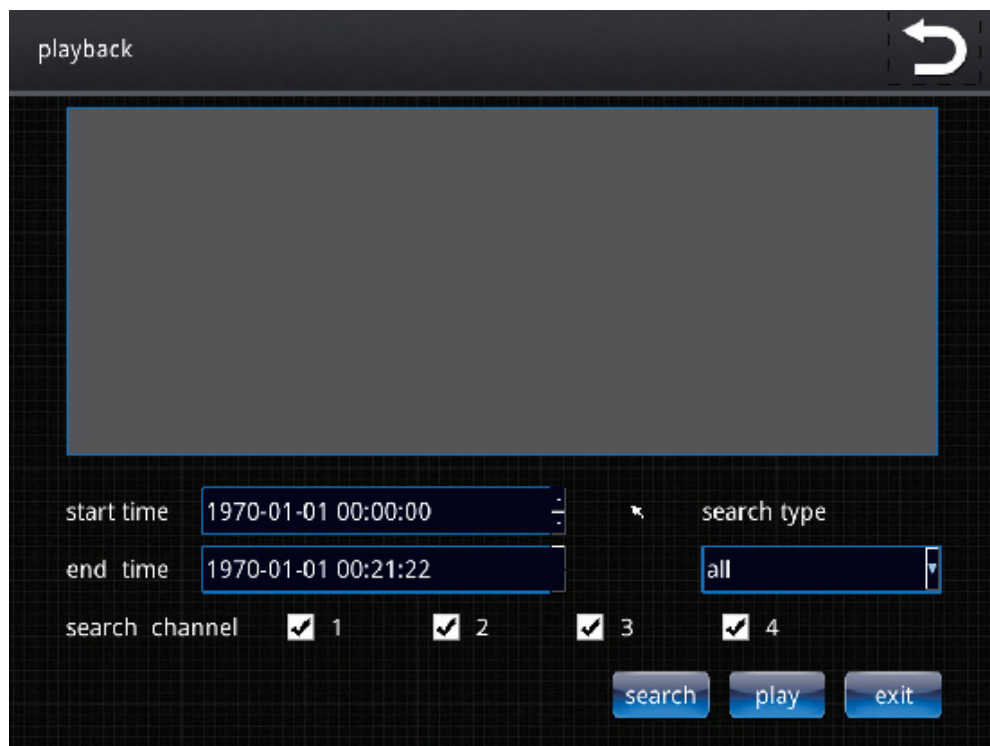
Name	Switch	Threshold	Video
X	OFF	Low	OFF
Y	OFF	Low	OFF
Z	OFF	Low	OFF

status X= 0.00 Y= 0.00 Z= 0.00

calibrate save exit

Measures g-force from the X-axis, Y-axis, Z-axis. With the built-in G-Sensor, the camera can detect an impact and will activate event mode. The footage recorded during Event Mode will not be overwritten. This ensures that you'll be able to pull up these recordings when you need them. Toggle threshold and recording ON/OFF.

From the main menu, select **Video Playback**





Play recorded video files, as shown below. Find video by entering start time, end time, file type, or channel number.

The video displayed on the interface can be freely adjusted according to the progress bar. The function keys from left to right are: pause/play, stop, rewind, normal, fast forward, volume adjustment, return to video playback menu, channel display, four channel display, hide progress bar, return to the main menu.



Video playback interface of a channel display shown above

## ***ONE YEAR WARRANTY***

REAR VIEW SAFETY, INC. WARRANTS THIS PRODUCT AGAINST MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF PURCHASE. WE RESERVE THE RIGHT TO REPAIR OR REPLACE ANY SUCH DEFECTIVE UNIT AT OUR SOLE DISCRETION. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR A DEFECT IN THE SYSTEM AS A RESULT OF MISUSE, IMPROPER INSTALLATION, DAMAGE OR MISHANDLING OF THE ELECTRONIC COMPONENTS. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND.

THIS WARRANTY IS VOID IF: DEFECTS IN MATERIALS OR WORKMANSHIP OR DAMAGES RESULT FROM REPAIRS OR ALTERATIONS WHICH HAVE BEEN MADE OR ATTEMPTED BY OTHERS OR THE UNAUTHORIZED USE OF NONCONFORMING PARTS; THE DAMAGE IS DUE TO NORMAL WEAR AND TEAR, THIS DAMAGE IS DUE TO ABUSE, IMPROPER MAINTENANCE, NEGLIGENCE OR ACCIDENT; OR THE DAMAGE IS DUE TO USE OF THE REAR VIEW SAFETY, INC. SYSTEM AFTER PARTIAL FAILURE OR USE WITH IMPROPER ACCESSORIES.

## ***WARRANTY PERFORMANCE***

DURING THE ABOVE WARRANTY PERIOD, SHOULD YOUR REAR VIEW SAFETY PRODUCT EXHIBIT A DEFECT IN MATERIAL OR WORKMANSHIP, SUCH DEFECT WILL BE REPAIRED WHEN THE COMPLETE REAR VIEW SAFETY, INC. PRODUCT IS RETURNED, POSTAGE PREPAID AND INSURED, TO REAR VIEW SAFETY, INC. OTHER THAN THE POSTAGE AND INSURANCE REQUIREMENT, NO CHARGE WILL BE MADE FOR REPAIRS COVERED BY THIS WARRANTY.

## ***WARRANTY DISCLAIMERS***

NO WARRANTY, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, OTHER THE ABOVE WARRANTY IS MADE WITH REGARD TO THIS REAR VIEW SAFETY, INC. REAR VIEW SAFETY, INC. DISCLAIMS ANY IMPLIED WARRANTY OR MERCHANT-ABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE AND ALL OTHER WARRANTIES IN NO EVENT SHALL REAR VIEW SAFETY, INC. LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO, FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS.

## ***DISCLAIMER***

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If you have any questions  
about this product, contact:

***Rear View Safety, Inc.  
1797 Atlantic Avenue  
Brooklyn, NY 11233  
800.764.1028***

***Better Cameras. Better Service.  
IT'S OUR GUARANTEE.***