



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.



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.

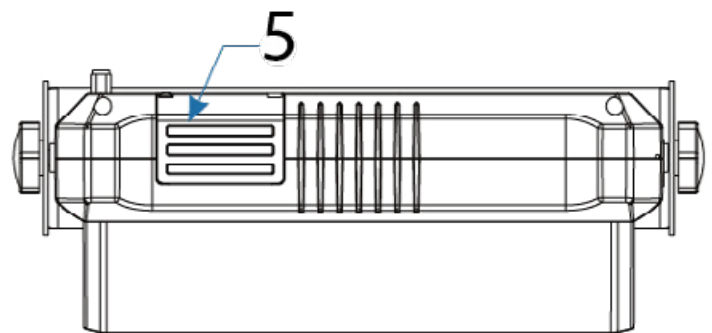
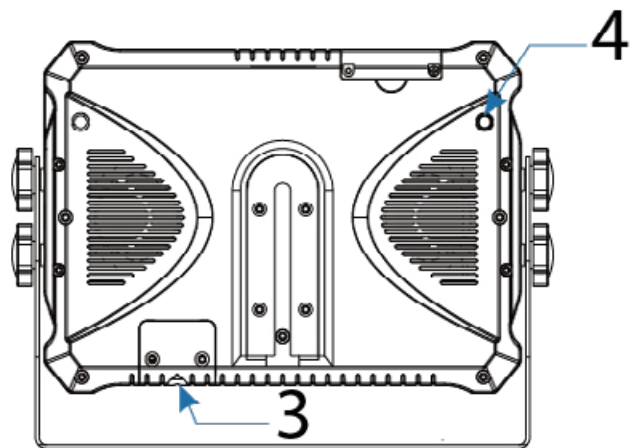
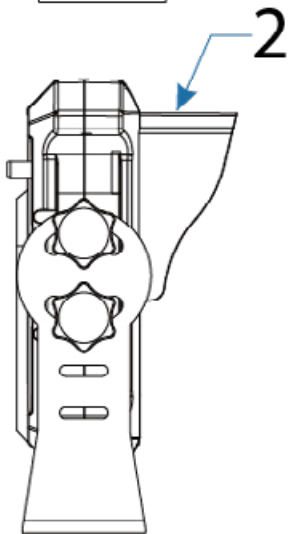
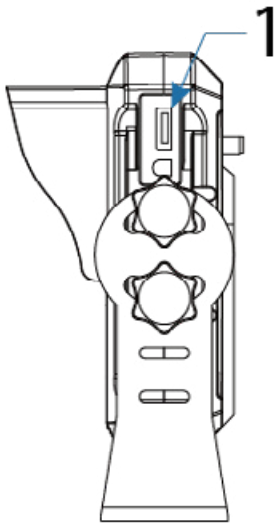
Step 1: Choose the monitor and camera locations.

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)

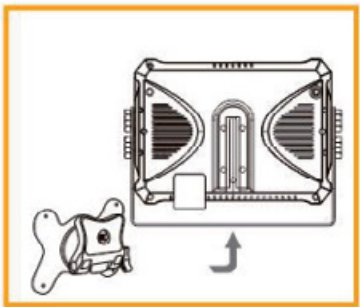


Package Contents

- 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

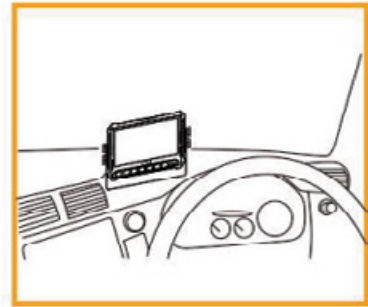
1



2

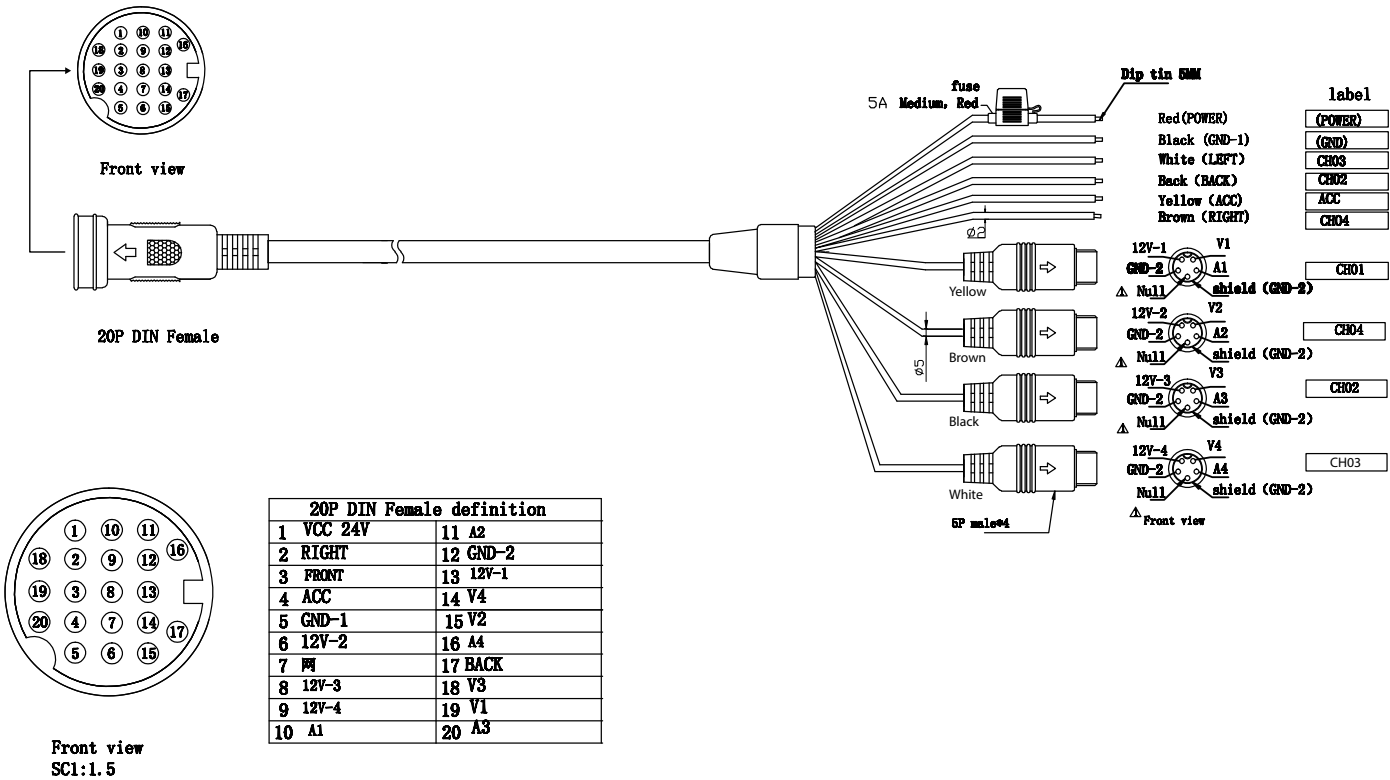


3

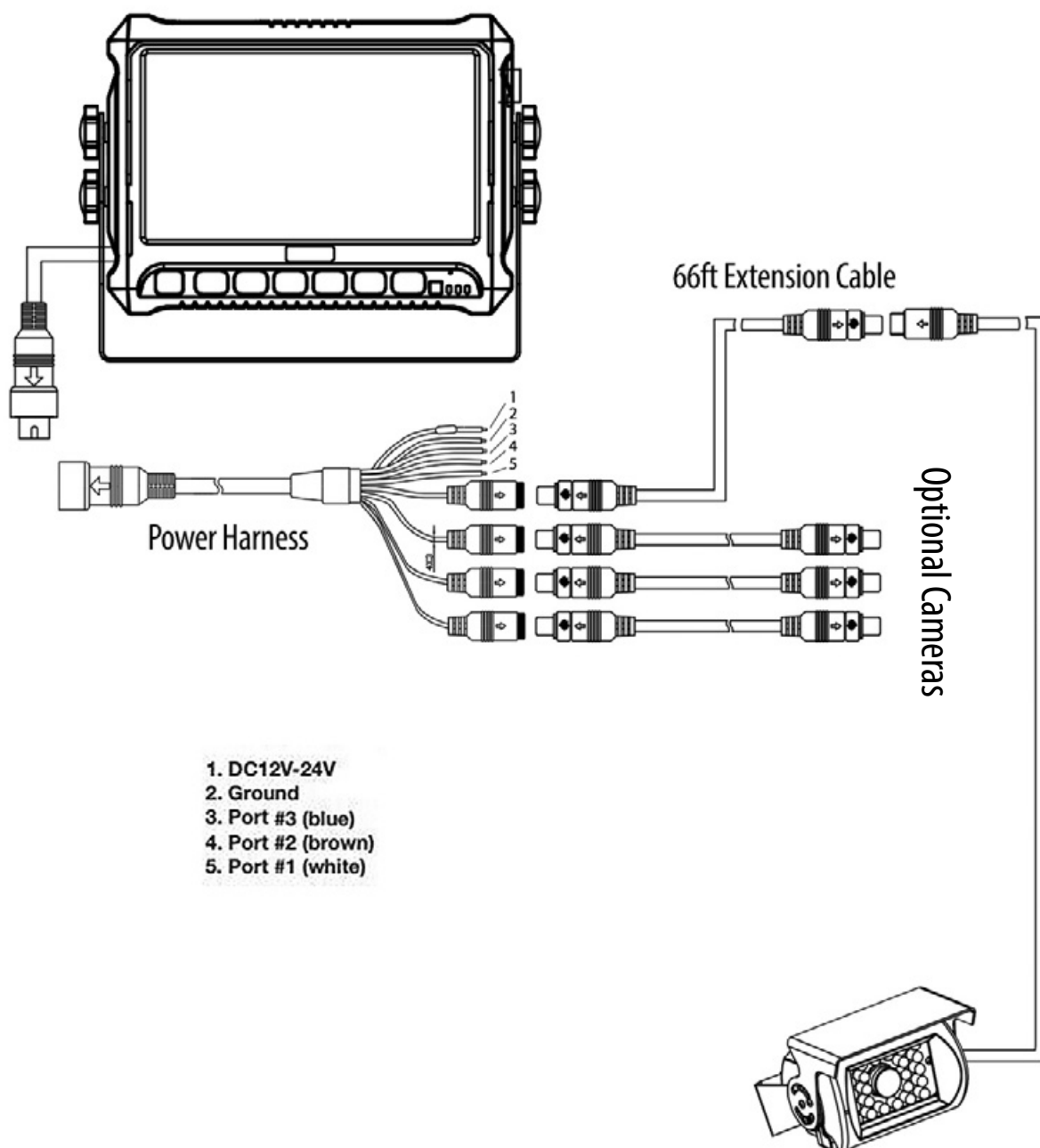


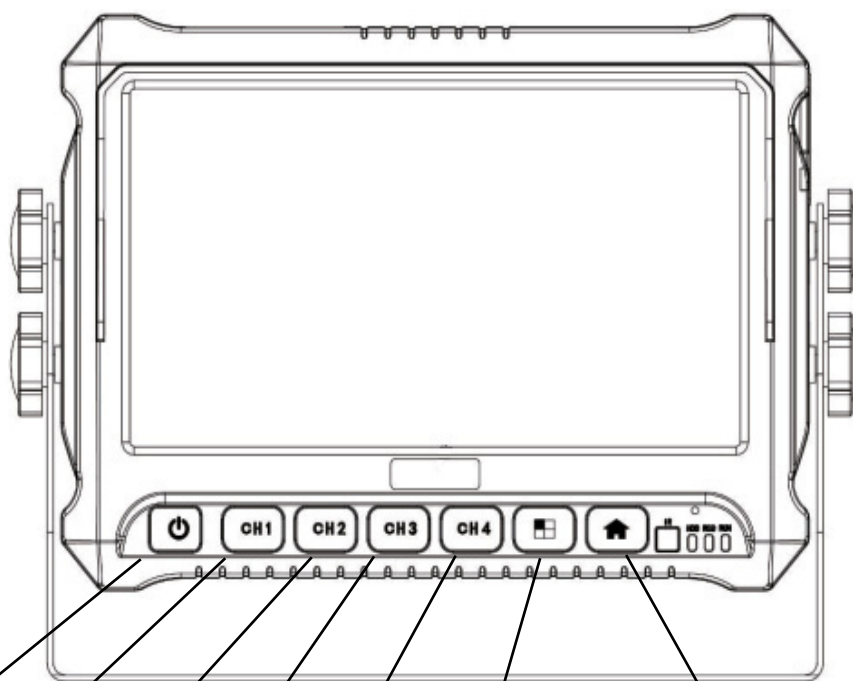
- 1) Butterfly mounting bracket (sold separately)
- 2) U-bracket
- 3) Vertical monitor mount

Power Harness Diagram



Wiring Diagram





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.



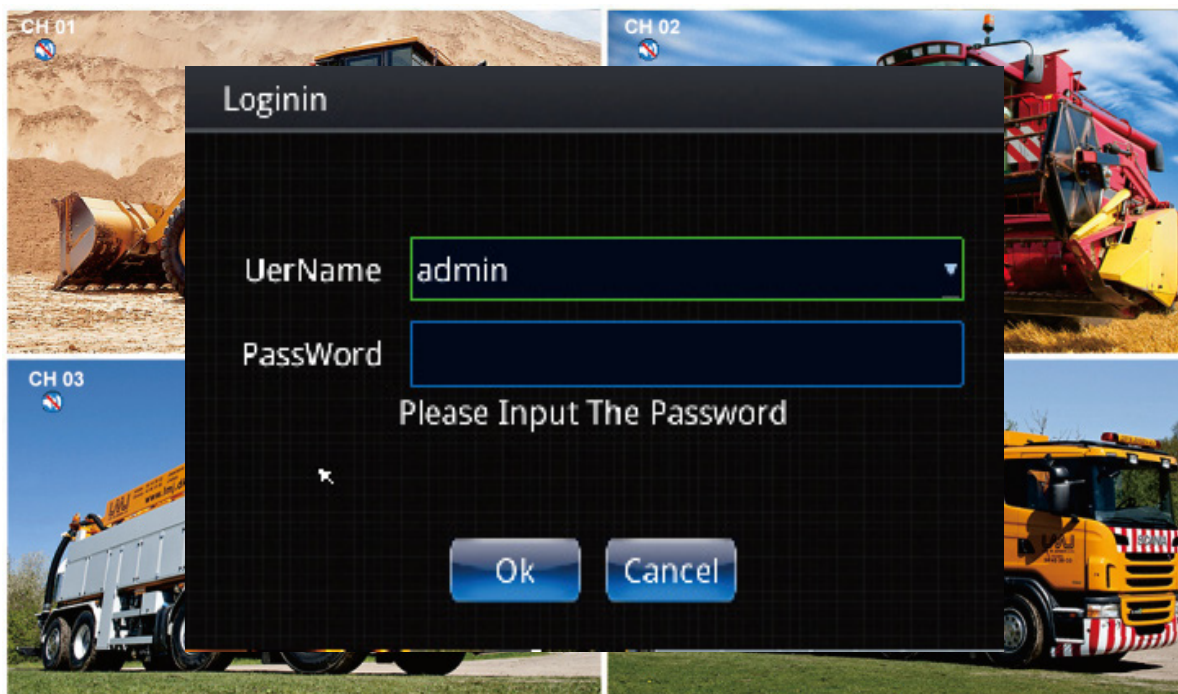
Touch Screen

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

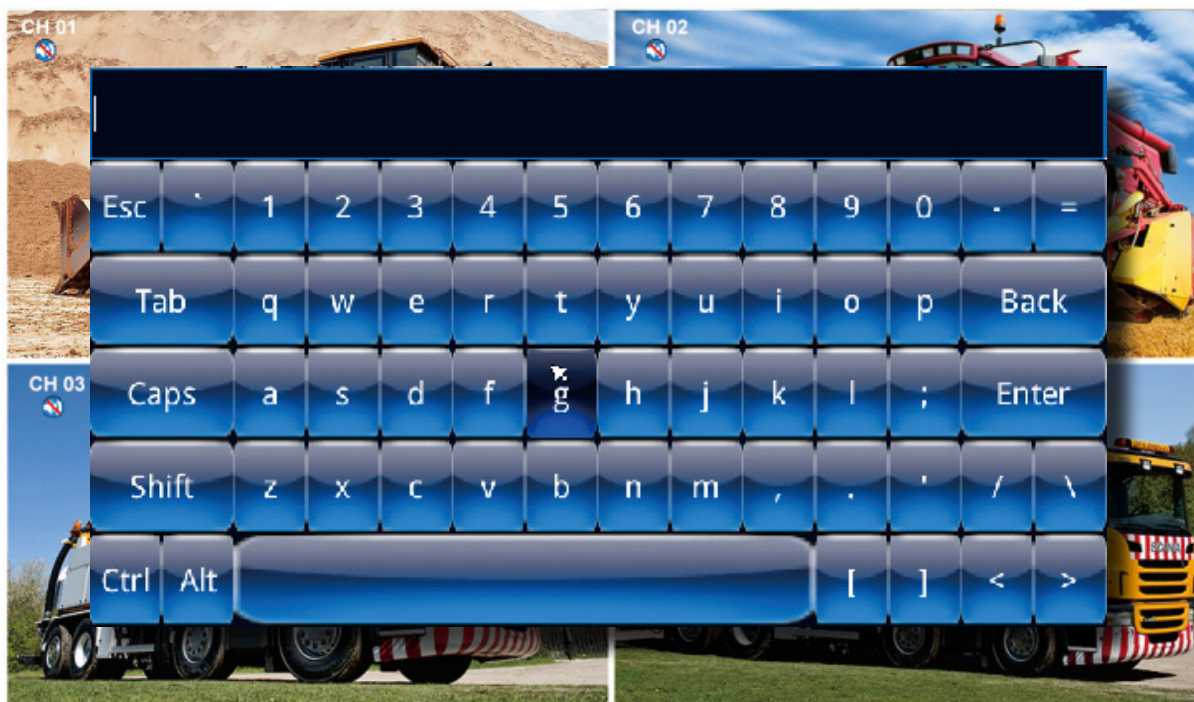


The shortcut menu options are Playback, Event, Monitor and System

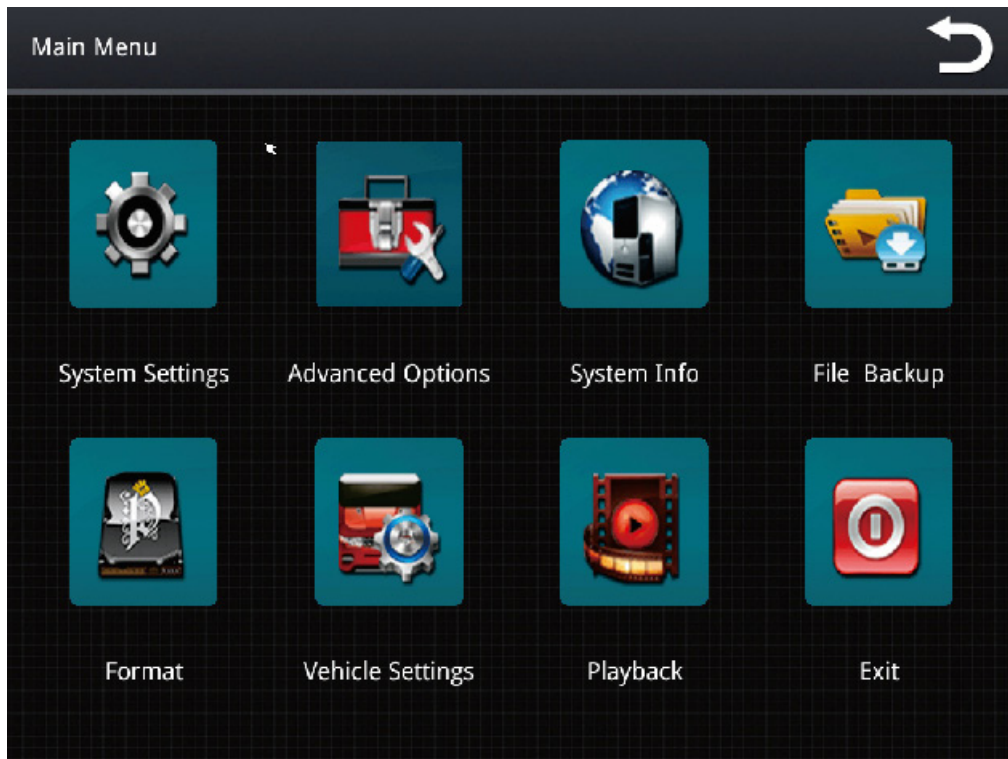
As shown below, you need to enter the user name and password. Press OK without entering a password, you can set a password from the menu.



Pressing password field will display a keyboard.

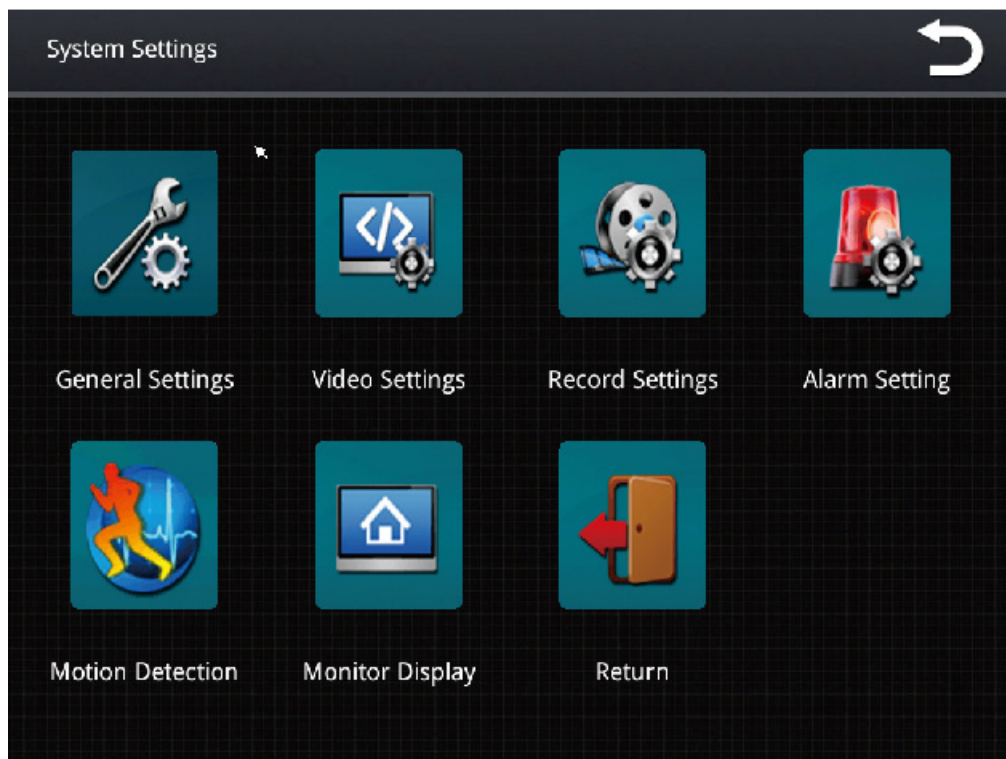


Main Menu



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 white 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 organized into several sections:

- enable status:** A checkbox labeled 'enable/disable'.
- alarm input:** A dropdown menu currently showing 'CH1'.
- dev type:** A dropdown menu currently showing 'high level'.
- alarm delay:** A text input field containing '10' followed by a 'sec' label.
- rec channel:** Four checkboxes labeled '1', '2', '3', and '4'.
- periods of time:** A dropdown menu showing 'Monday', followed by two time range inputs. Each range consists of a start time input (both showing '00:00') and an end time input (both showing '23:59'), separated by a 'to' label.
- alarm output:** Two checkboxes labeled 'screen display' and 'I/O output'.

At the bottom center 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

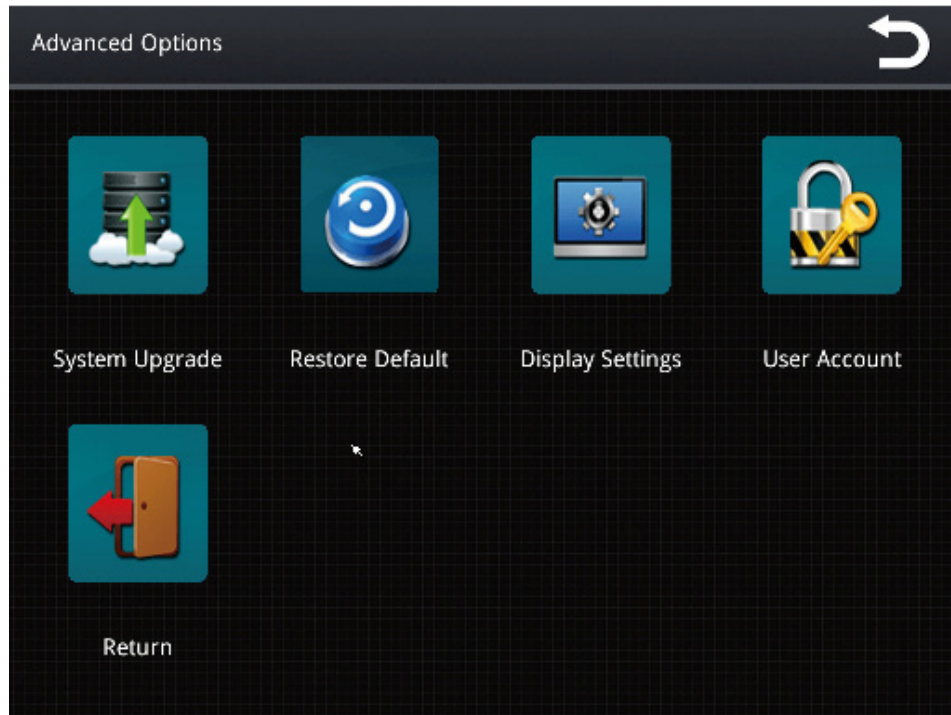
Channel Name: Adjust channel names

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

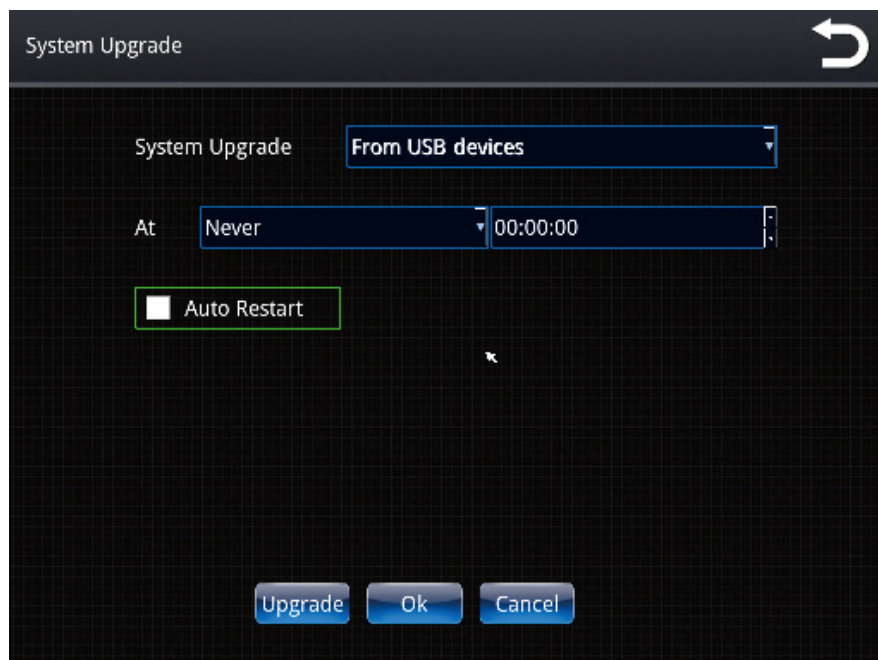
Full Page/Two Page: Toggle what channels are included

Preview Time: Toggle time ON/OFF

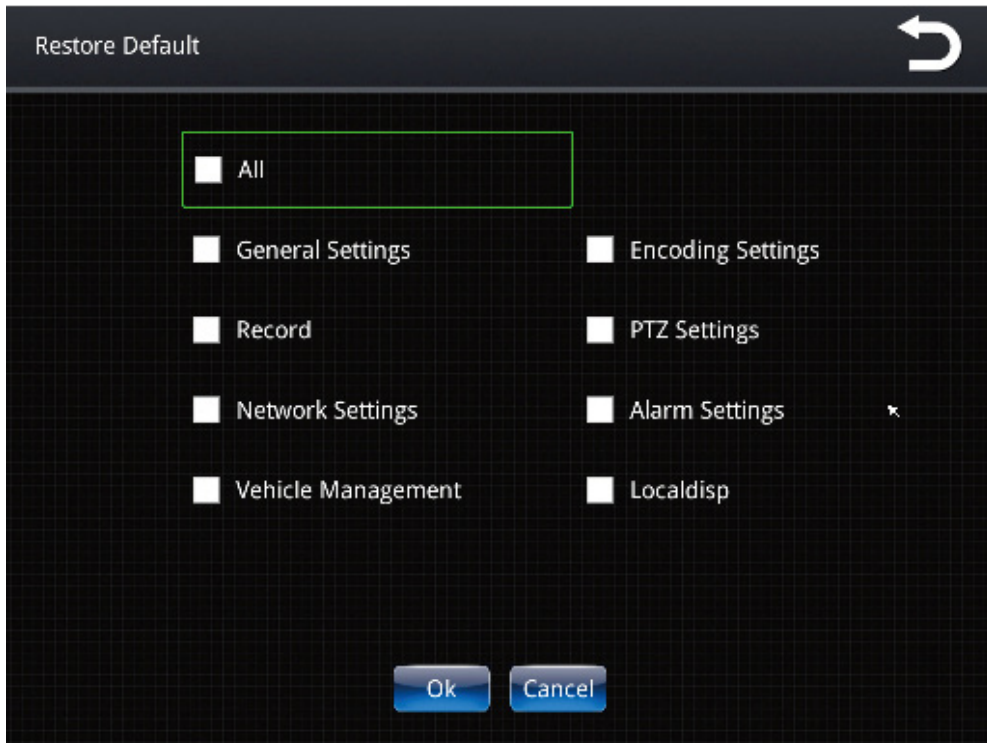
From the main menu, select advanced options.



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



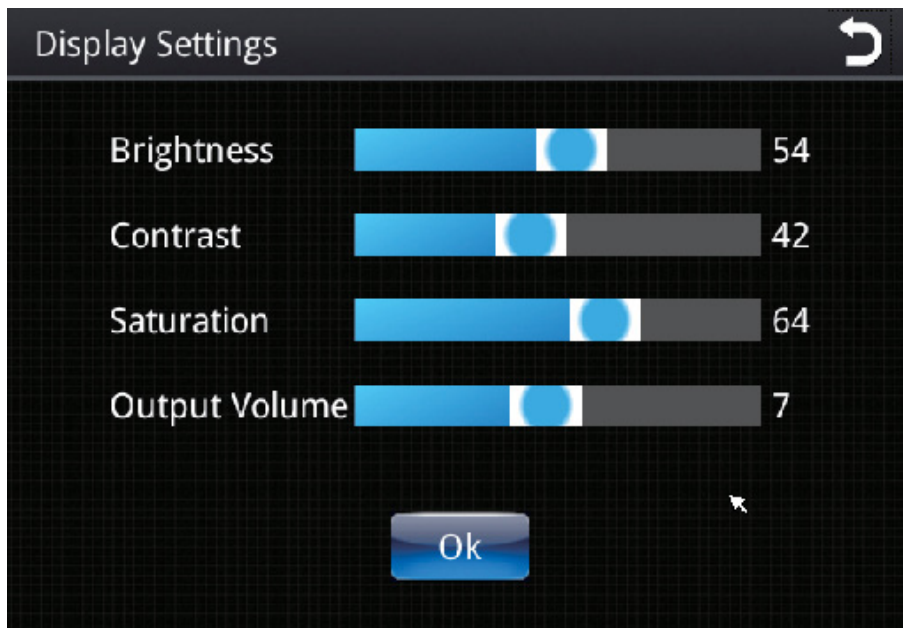
Display Settings: Adjust display settings

Brightness: Range 0-100

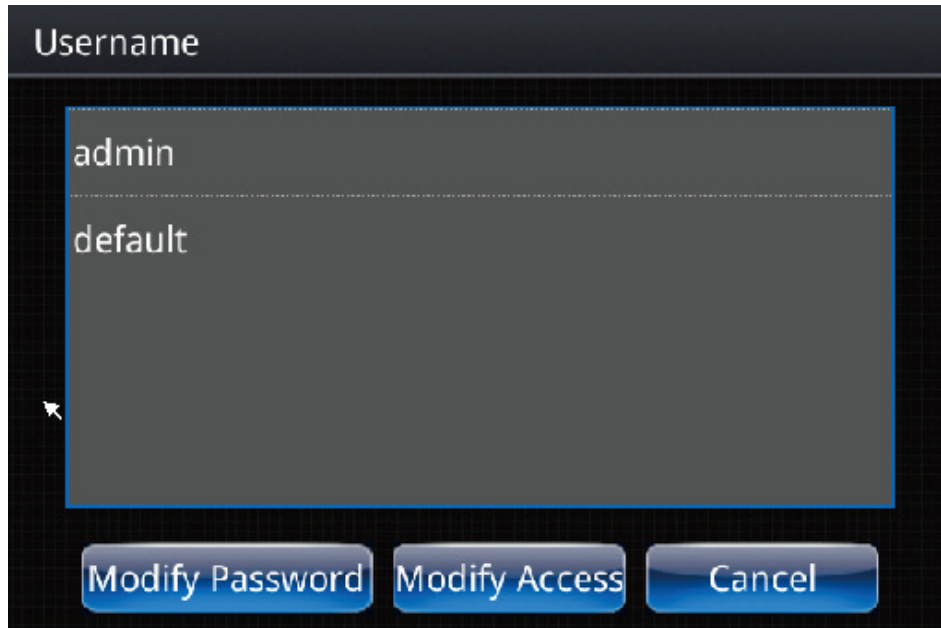
Contrast: Range 0-100

Saturation: Range 0-100

Output Volume: Range 0-15

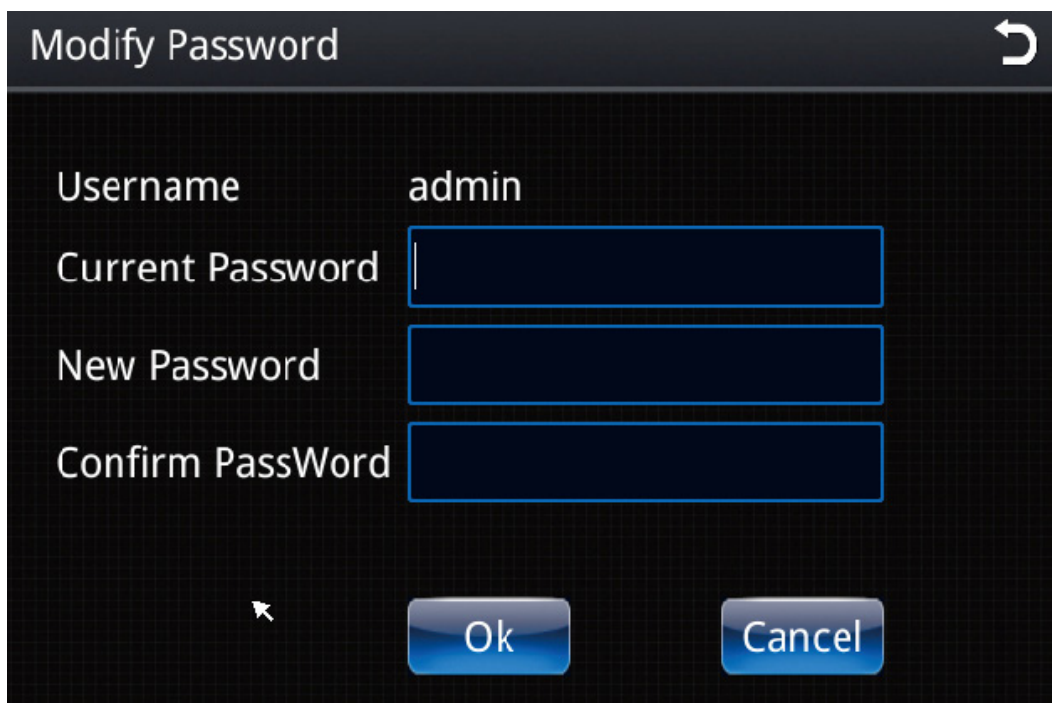


User Accounts



A screenshot of a 'User Accounts' dialog box. The title bar says 'Username'. Below it is a list box containing 'admin' and 'default'. The 'admin' user is selected. At the bottom of the dialog are three buttons: 'Modify Password', 'Modify Access', and 'Cancel'.

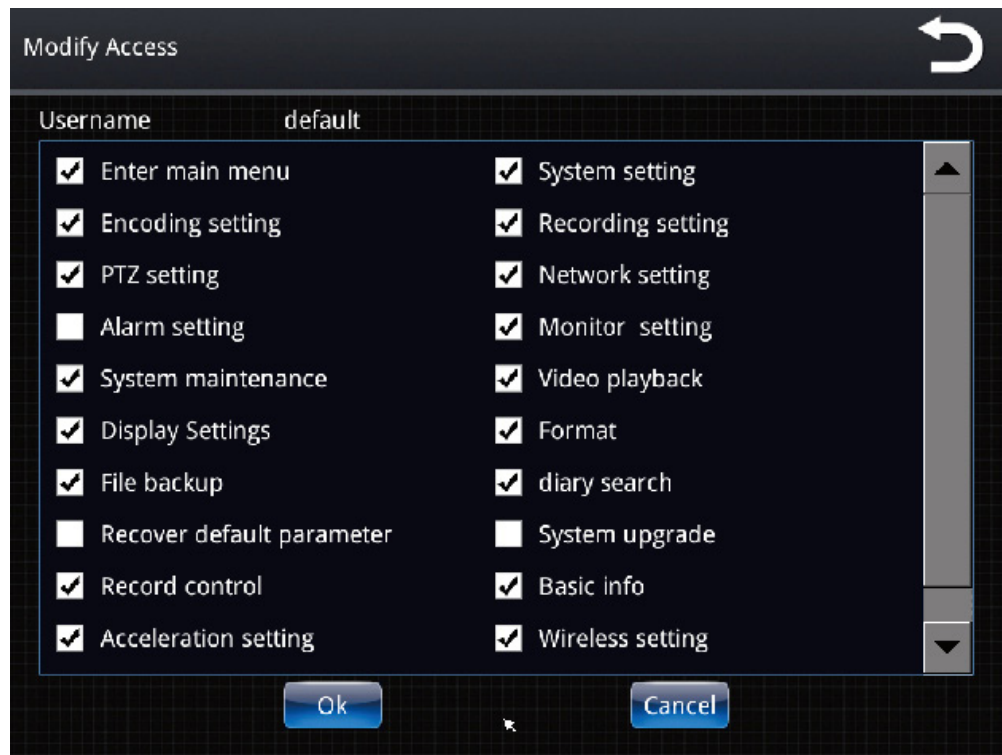
Use this setting to modify password/access



A screenshot of a 'Modify Password' dialog box. The title bar says 'Modify Password' with a refresh icon on the right. The 'Username' field is set to 'admin'. Below it are three input fields: 'Current Password', 'New Password', and 'Confirm PassWord'. At the bottom are 'Ok' and 'Cancel' buttons.

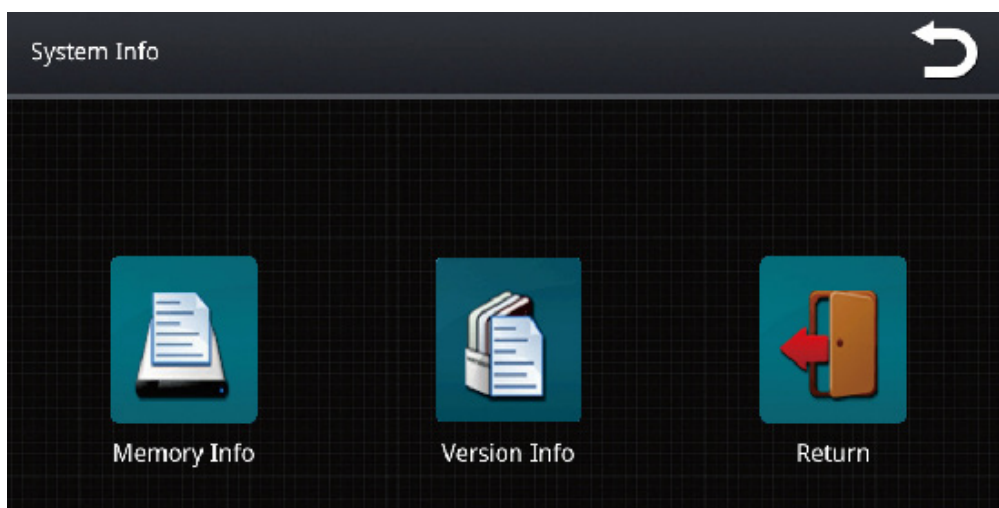
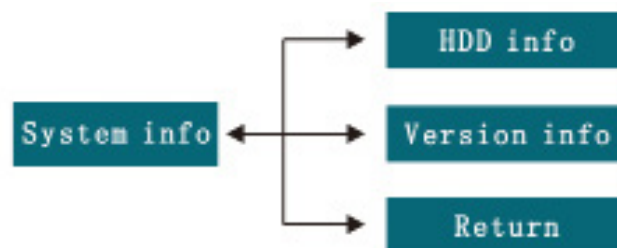
Modify Password: Enter the current password, confirm identity, enter the new password, and confirm the password

Modify Access

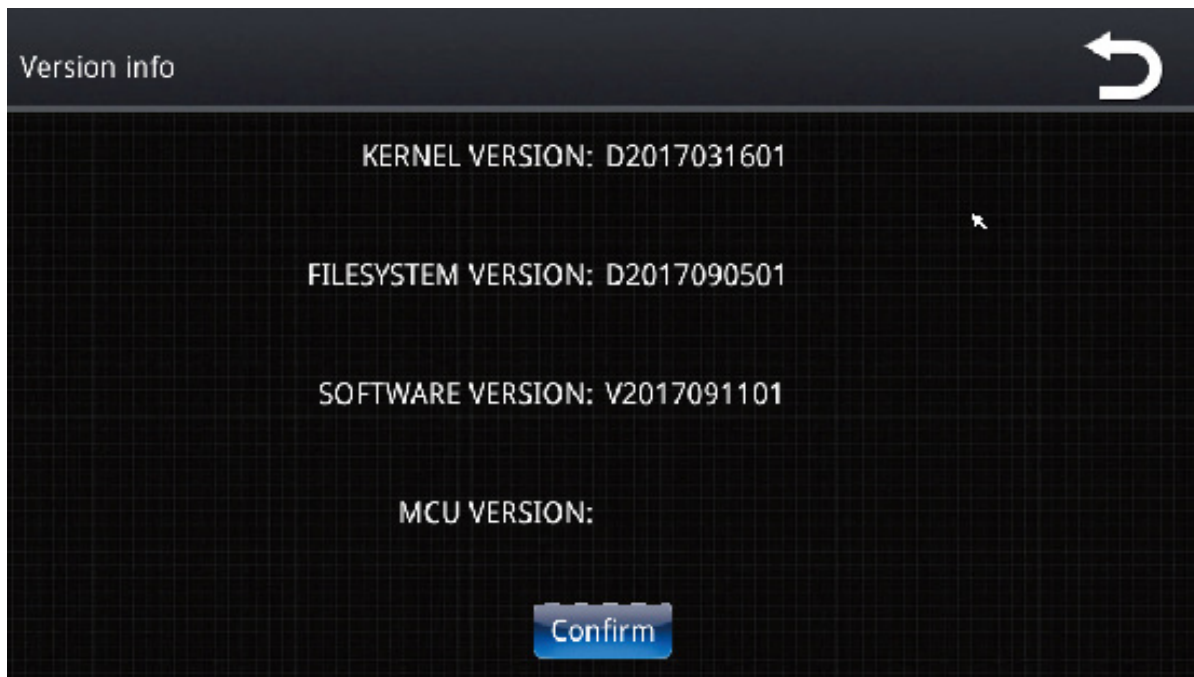


Use this setting to adjust user permissions

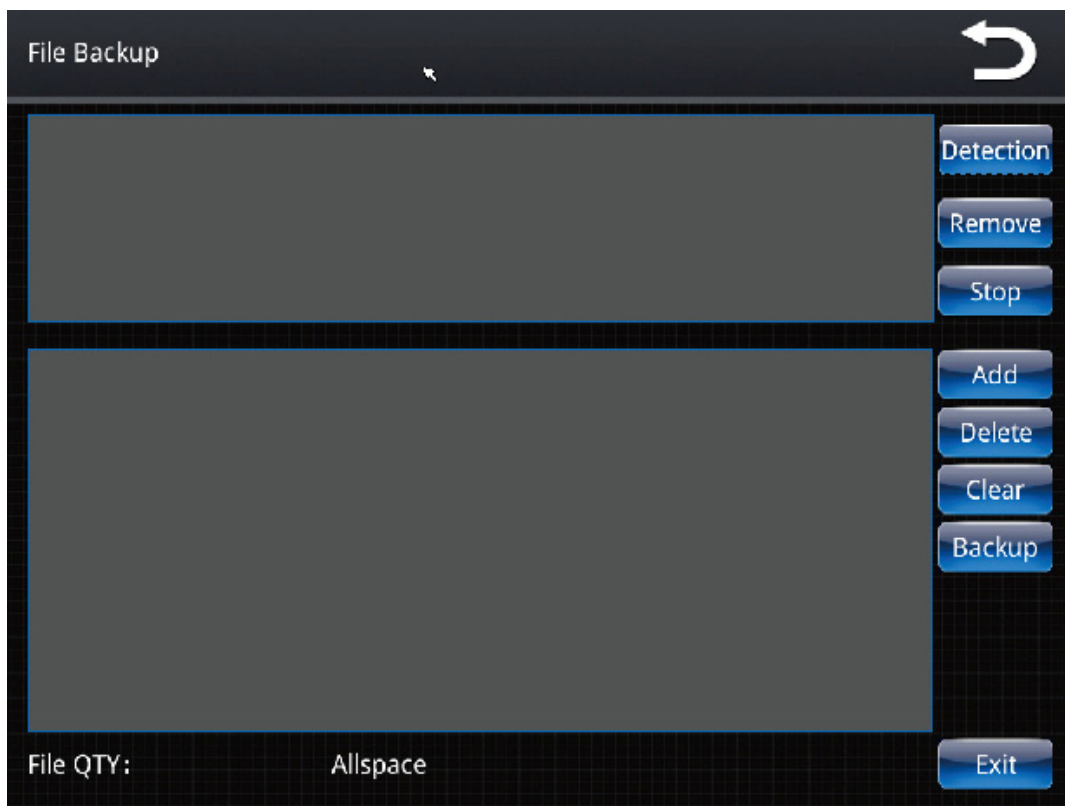
From the main menu, select **System Information**



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

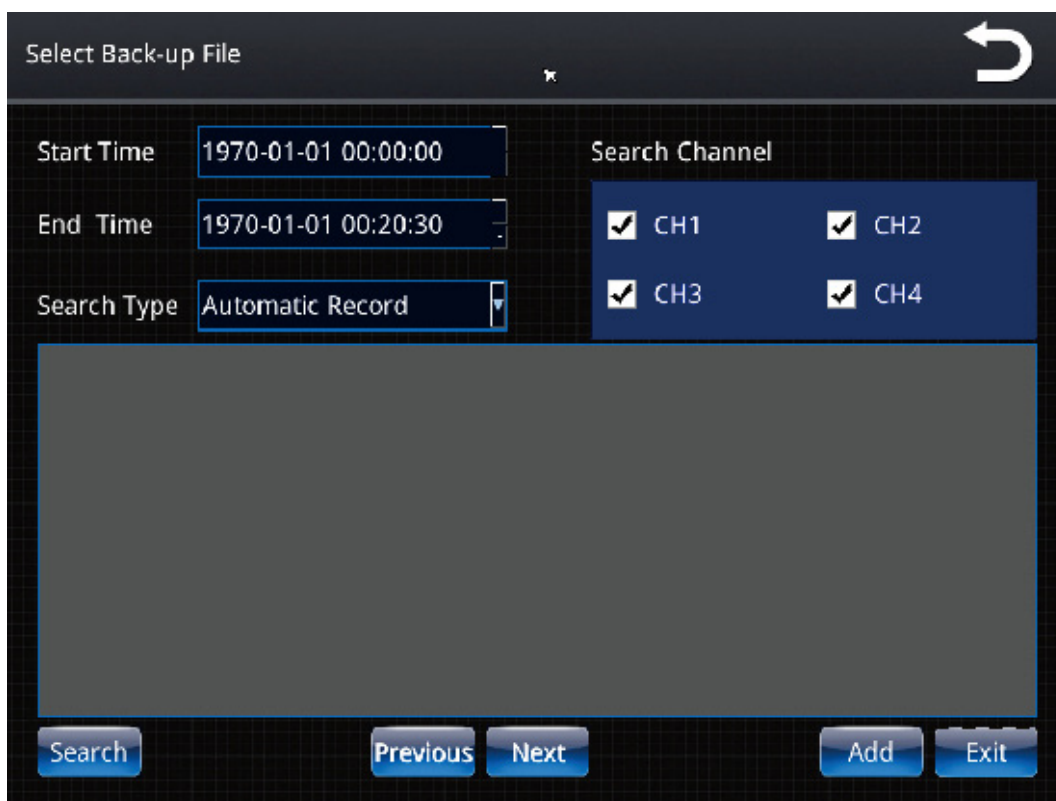
Add: Prompts user to select video file to backup

Delete: Deletes selected video

Clear: Clears all video in backup box

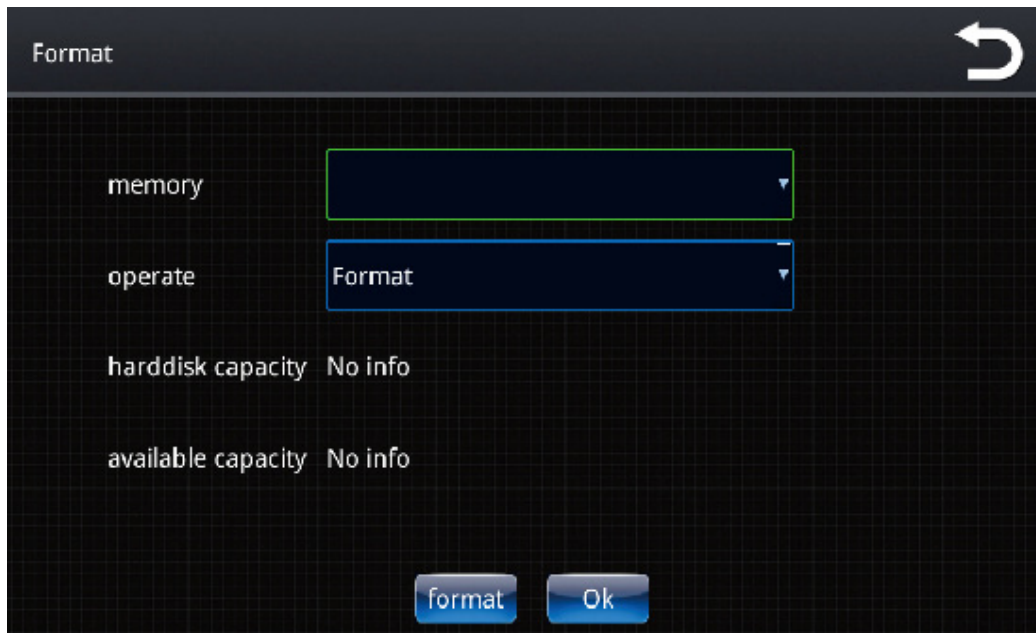
Backup: Backup up all video files to device selected in detection box

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.



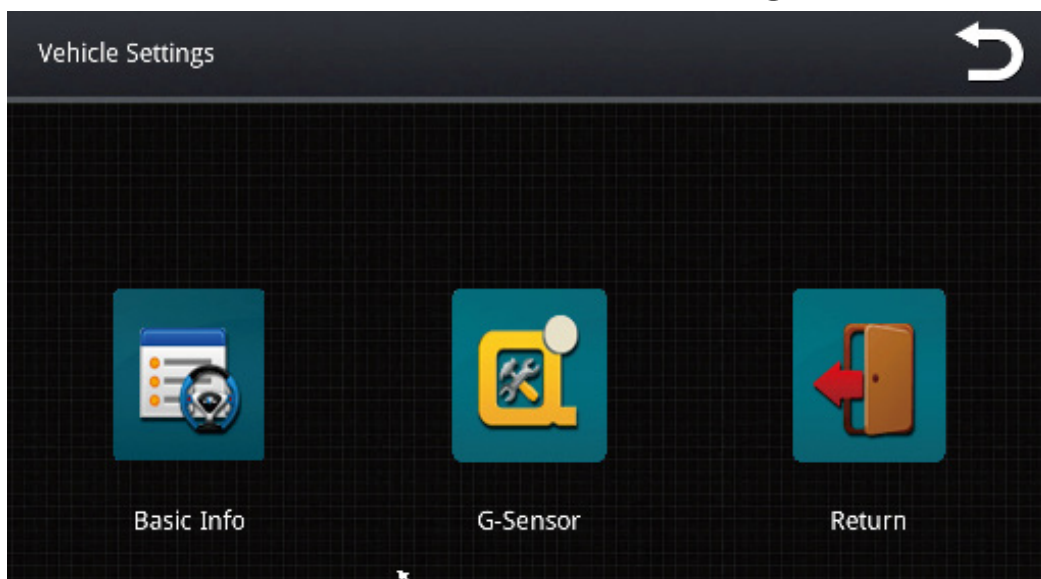
Format

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

Company Name

License Number

Driver's Name

Line Number

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

G-Sensor

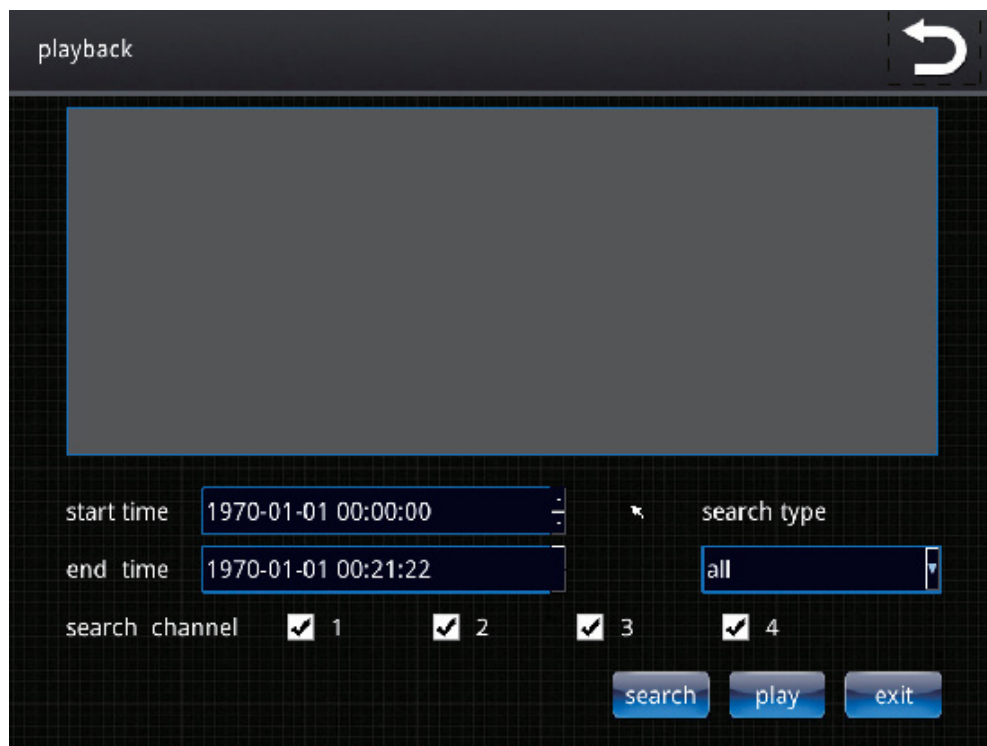
G-Sensor

Name	Switch	Threshold	Video
X	<input type="button" value="OFF"/>	<input type="button" value="Low"/>	<input type="button" value="OFF"/>
Y	<input type="button" value="OFF"/>	<input type="button" value="Low"/>	<input type="button" value="OFF"/>
Z	<input type="button" value="OFF"/>	<input type="button" value="Low"/>	<input type="button" value="OFF"/>

status X= 0.00 Y= 0.00 Z= 0.00

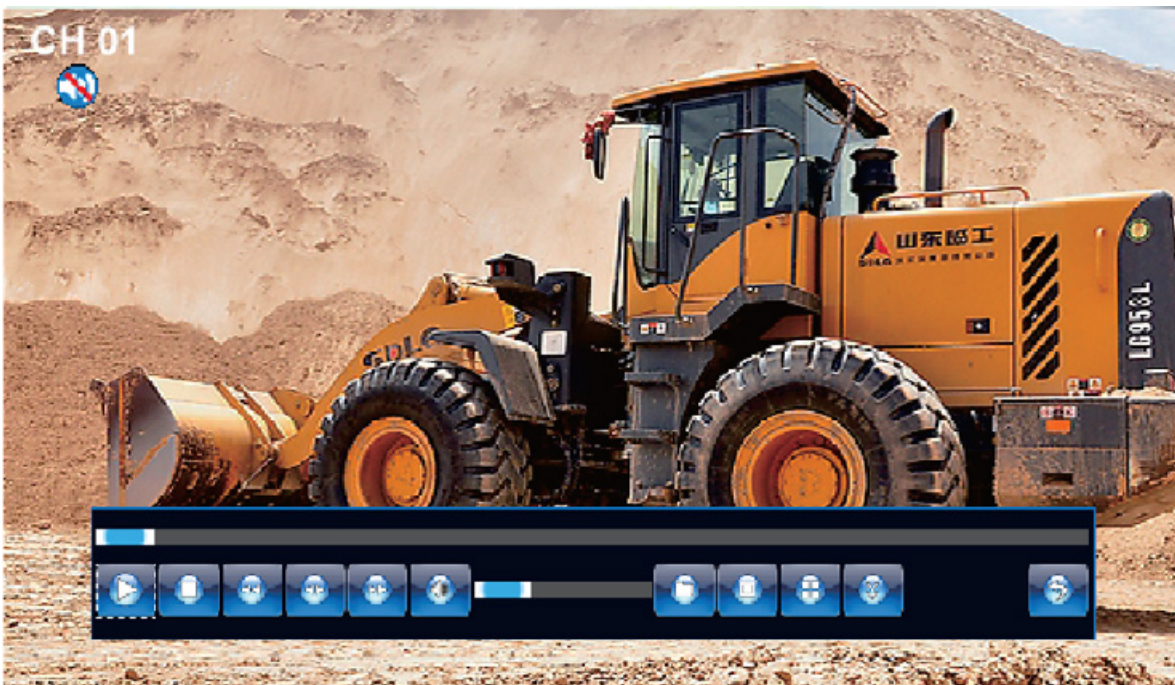
Measures g-force from the X-axis, Y-axis, Z-axis. With the built-in G-Sensor, the camera can detect an impact and will activate event mode. The footage recorded during Event Mode will not be overwritten. This ensures that you'll be able to pull up these recordings when you need them. Toggle threshold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

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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.***