# Table of Contents

- **Introduction** ............................................................. 03
- **Safety Information** .................................................. 04-06
- **Before Beginning Installation** ...................................... 07
- **System Introduction** .................................................. 08
- **Package Contents** ................................................... 09
- **Power Harness Diagram** ........................................... 10
- **Wiring Diagram** ....................................................... 11
- **Monitor Introduction** ................................................ 12
- **System Display** ........................................................ 13
- **Login** ........................................................................ 14
- **Main Menu** ............................................................... 15
- **General Settings** ....................................................... 16
- **Video Settings** ........................................................... 17
- **Record Settings** ........................................................ 18
- **Alarm Control** ........................................................... 19
- **Motion Detection** ....................................................... 20
- **Monitor Display** ........................................................ 21
- **Advanced Options** ..................................................... 22
- **Display Settings** ......................................................... 23
- **User Accounts** ........................................................... 24
- **Modify Access** ........................................................... 25
- **File Backup** ............................................................... 26-27
- **Format** ....................................................................... 28
- **G-Sensor** .................................................................... 29
- **Video Playback** .......................................................... 30-31
- **Warranty** ..................................................................... 32
- **Disclaimer** ................................................................... 33
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.
• 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) Butterfly mounting bracket (sold separately)
2) U-bracket
3) Vertical monitor mount
Power Harness Diagram

20P DIN Female

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
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<tbody>
<tr>
<td>1</td>
<td>VCC 5V</td>
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<tr>
<td>2</td>
<td>RIGHT</td>
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<tr>
<td>3</td>
<td>FRONT</td>
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<tr>
<td>4</td>
<td>ACC</td>
</tr>
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<td>5</td>
<td>GND-1</td>
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<td>6</td>
<td>12V-2</td>
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<td>V4</td>
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<td>V3</td>
</tr>
<tr>
<td>16</td>
<td>V1</td>
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</tbody>
</table>

Rear View Safety
Wiring Diagram

1. DC12V-24V
2. Ground
3. Port #3 (blue)
4. Port #2 (brown)
5. Port #1 (white)
**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.
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
**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

Channel: Select channel to adjust

Look 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
Alarm Control

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
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
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

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

_G-Sensor_
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, NEGLECT 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

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DISCLAIMER

REAR VIEW SAFETY AND/OR ITS AFFILIATES DOES NOT GUARANTEE OR PROMISE THAT THE USER OF OUR SYSTEMS WILL NOT BE IN/PART OF AN ACCIDENT OR OTHERWISE NOT COLLIDE WITH AN OBJECT AND/OR PERSON. OUR SYSTEMS ARE NOT A SUBSTITUTE FOR CAREFUL AND CAUTIOUS DRIVING OR FOR THE CONSISTENT ADHERENCE TO ALL APPLICABLE TRAFFIC LAWS AND MOTOR VEHICLE SAFETY REGULATIONS. THE REAR VIEW SAFETY PRODUCTS ARE NOT A SUBSTITUTE FOR REARVIEW MIRRORS OR FOR ANY OTHER MOTOR VEHICLE EQUIPMENT MANDATED BY LAW. OUR CAMERA SYSTEMS HAVE A LIMITED FIELD OF VISION AND DO NOT PROVIDE A COMPREHENSIVE VIEW OF THE REAR OR SIDE AREA OF THE VEHICLE. ALWAYS MAKE SURE TO LOOK AROUND YOUR VEHICLE AND USE YOUR MIRRORS TO CONFIRM REARWARD CLEARANCE AND THAT YOUR VEHICLE CAN MANEUVER SAFELY. REAR VIEW SAFETY AND/OR ITS AFFILIATES SHALL HAVE NO RESPONSIBILITY OR LIABILITY FOR DAMAGE AND/OR INJURY RESULTING FROM ACCIDENTS OCCURRING WITH VEHICLES HAVING SOME OF REAR VIEW SAFETY PRODUCTS INSTALLED AND REAR VIEW SAFETY AND/OR ITS AFFILIATES, THE MANUFACTURER, DISTRIBUTOR AND SELLER SHALL NOT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OR INTENDED USE OF THE PRODUCT. IN NO EVENT SHALL REAR VIEW SAFETY AND/OR ITS AFFILIATES HAVE ANY LIABILITY FOR ANY LOSSES (WHETHER DIRECT OR INDIRECT, IN CONTRACT, TORT OR OTHERWISE) INCURRED IN CONNECTION WITH THE SYSTEMS, INCLUDING BUT NOT LIMITED TO DAMAGED PROPERTY, PERSONAL INJURY AND/OR LOSS OF LIFE. NEITHER SHALL REAR VIEW SAFETY AND/OR ITS AFFILIATES HAVE ANY RESPONSIBILITY FOR ANY DECISION, ACTION OR INACTION TAKEN BY ANY PERSON IN RELIANCE ON REAR VIEW SAFETY SYSTEMS, OR FOR ANY DELAYS, INACCURACIES AND/OR ERRORS IN CONNECTION WITH OUR SYSTEMS FUNCTIONS.
If you have any questions about this product, contact:

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

IT’S OUR GUARANTEE.