Please read this manual before using this monitor. The product may be different from how it is described in the manual depending on what software version you are using.
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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 or 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.
Precautions

Storage and Keeping

1. Do not expose the monitor to excessive heat or cold. The storage temperature of this device is -30°C~+80°C, and the operating temperature is -20°C~+70°C. Battery operating temperature is 0-70°C. The humidity is Rh 90%.
2. Never use this device near water or damp locations.
3. Never use this device in environments with excessive moisture, dust or smoke.
4. Avoid dropping or striking this device.
5. Avoid using this device in enclosed spaces, areas with excessive vibration or areas subject to severe impacts.
6. Never puncture, scratch or use abrasive cleaning materials on this device.
7. Do not place cables where they may be pinched or stepped on.
8. Leave at least a 2” space between the monitor and walls, cabinets or other objects to allow adequate air circulation around the device.
9. The monitor is not designed to be waterproof.
Operating Precautions

1. The device may be powered by a 12 or 24 volt battery, as well as the vehicle's electrical system.
2. Make sure all cables are connected properly. Improper cable connections may damage the monitor. Remove the power cable connections when not using the device.
3. The back-up battery can be recharged when the power is on.
4. When battery is fully charged, recharging will automatically stop.
5. If batteries are not used for a while, it may take longer to charge.

Warning!

1. This monitor is high voltage. Only professionals should open the monitor's case.
2. Do not watch the video while driving unless you are monitoring the rear view camera display.

Special Note
Occasionally, a few highlights or dark spots may appear on the LCD screen. This doesn’t necessarily indicate any monitor defects. Never try to repair this device yourself. If any problems occur, immediately turn the display off and notify our company or an authorized dealer. Any disassembly or modification may lead to damage and will also void the warranty.
Maintenance
1. Remove all cable connections from the monitor before cleaning the device.
2. Use a mild household detergent and a slightly damp cloth to clean the unit. Never use strong solvents such as thinner or benzine, as they may damage the finish of the device.

This symbol alerts the user to the presence of uninsulated “dangerous voltage” inside the product. Never open the product case yourself, as you may risk electric shock.

This symbol alerts the user to the presence of important operating and maintenance instructions in the literature accompanying the device.

This symbol reminds the user not to waste electronic equipment.

CAUTION
Any changes or modifications not expressly approved in this manual could void your warranty and lead to expensive repairs.
## Accessories

<table>
<thead>
<tr>
<th>U-Support Bracket</th>
<th>Center Mount Bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun Shield</td>
<td>Power cable</td>
</tr>
<tr>
<td>Angle Adjustment Screws</td>
<td>IR Remote control</td>
</tr>
</tbody>
</table>

**Special Notice:**
Accessories may vary on certain devices.
Monitor Installation

Center Mount Bracket
Connections

A Camera 1  B Camera 2  C Camera 3  D Camera 4

1 Red: Power  2 White: Trigger 1  3 Black: Ground  4 Blue: Trigger 2
5 Brown: Trigger 4  6 Green: Trigger 3  7 Yellow: Split  8 LIVE_VOUT
9 AOUT  10 REC_VOUT  11 AV_AIN

Reverse With Confidence™
Controls
① IR Signal Sensor

② Power key

③ $-$ $+$ = ←/→

④ $\Downarrow$ = 1/2/3/4

⑤ $M$ = /[ /]

⑥ $S$ $\downarrow$ The Original display mode / The mode set in the main menu
**OSD Setting**

- **SCALE**: To turn on / off electronic distance label. When set as ON, electronic distance label will be displayed when rear view camera (camera 3) is activated.
- **INPUT SCAN**: To turn on / off auto identification of camera inputs. When INPUT SCAN is set as ON, monitor will display connected cameras and skip inputs not in connection.
- **BOUNDARY**: To set color of the separation line between camera inputs. White, gray, black and uncolored are available.
- **LANGUAGE**: To set OSD language. English, French, Dutch, Spanish, German and Italian are available.
- **SOFTWARE VERSION**: To be updated at all times.
**Trigger Setting**

- **TURN IMAGE**: To set the camera input(s) to be displayed when left-side camera (camera 1) / right-side camera (camera 2) is activated. When set as SINGLE, correspond camera input will be displayed when either camera is activated. When set as SPLIT, split image of left-side and rear view camera will be displayed when left-side camera is activated; split image of right-side and rear view camera will be displayed when right-side camera is activated.
- **REAR IMAGE**: To set the camera input(s) to be displayed when rear view camera is activated. When set as BACK, the rear view camera will be displayed when activated. When set as TRIPLE, left-side, right-side and rear view camera will be displayed.
- **TRIGGER DELAY**: To set the delaying time of video display when trigger signal goes off. Delaying time frame: 0-30 seconds.
- **SPLIT SCREEN**: To set the camera input(s) to be displayed when “split” trigger wire is activated. LEFT / RIGHT is to set the camera input to be displayed on the left / right side of monitor screen. AUDIO is to set the audio output from any of the four cameras.
Jump Key Setting

MAIN MENU

<table>
<thead>
<tr>
<th>CAMERA</th>
<th>SETUP</th>
</tr>
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<tbody>
<tr>
<td>OSD</td>
<td>SETUP</td>
</tr>
<tr>
<td>SYSTEM</td>
<td>SETUP</td>
</tr>
<tr>
<td>TRIGGER</td>
<td>SETUP</td>
</tr>
<tr>
<td>TRIGGER</td>
<td>PRIORITY</td>
</tr>
<tr>
<td>RESET</td>
<td>ALL</td>
</tr>
</tbody>
</table>

MAIN MENU

<table>
<thead>
<tr>
<th>CAMERA</th>
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<td>SETUP</td>
</tr>
<tr>
<td>TRIGGER</td>
<td>PRIORITY</td>
</tr>
</tbody>
</table>

SYSTEM SETUP

<table>
<thead>
<tr>
<th>SETTING</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC-V OUT</td>
<td>QUAD</td>
</tr>
<tr>
<td>AUTOSCAN</td>
<td>OFF</td>
</tr>
<tr>
<td>SCAN DELAY</td>
<td>01 SEC</td>
</tr>
<tr>
<td>JUMP KEY</td>
<td>LEFT</td>
</tr>
<tr>
<td>POWER ON</td>
<td>H-SPLIT</td>
</tr>
<tr>
<td>BEEP</td>
<td>ON</td>
</tr>
<tr>
<td>SYSTEM</td>
<td>NTSC</td>
</tr>
<tr>
<td>DIMMER</td>
<td>01</td>
</tr>
</tbody>
</table>

LEFT | H-SPLIT
---|---
RIGHT | TREFOIL
FRONT | Y-SPLIT
BACK
QUAD
DUAL
TRIPLE
PIP1
PIP2
PIP3
• REC-V OUT: To set the camera input(s) to be recorded when connected to DVR via the green RCA wire. Left-side, right-side, front view, rear view camera and quad view image can be selected.

• AUTOSCANN: To set the auto scanning function. When AUTOSCANN is set as ON, monitor will automatically switch between connected camera inputs and quad image.

• SCAN DELAY: To set the switching time of AUTOSCANN. Switching time frame: 0-60 seconds.

• JUMP KEY: To set the shortcut display mode from the 13 modes to the left. It can be activated by jump key selector.

• POWER ON: To set the default display model from the 13 modes to the left or STANDBY mode.

• BEEP: To turn on / off the warning tone. Default setting is ON and there will be a beeping sound when menu is being operated.

• SYSTEM: To set TV system: PAL / NTSC.

• DIMMER: To set backlighting brightness level of screen. Five levels and AUTO option are available; the higher the level, the brighter. When set as AUTO, backlighting automatically adjusts in accordance with the outer brightness.
Switch to full screen by touching any channel in multi-viewing mode.
Buttons function of touch menu (not available in DVD/VGA/aux channel or when auto scan is on)

1. **MODE**
   - Touch
   - The display mode for inputs

2. **JUMP**
   - Touch
   - The previous display mode
   - The display mode preset in JUMP KEY

3. **Volume**
   - Touch
   - Adjust volume

4. **Brightness**
   - Brightness increase / decrease
Exchange picture locations of any two cameras displayed in multi-viewing mode
Exchange picture locations of two cameras in dual / triple-viewing mode (1 displayed, 1 hidden)

Switch to the next display mode

Switch to the previous display mode
Decrease the volume

Increase the volume
## Specifications

<table>
<thead>
<tr>
<th>TV system</th>
<th>NTSC/PAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture</td>
<td>9” Digital TFT LCD colour monitor with on-screen display function</td>
</tr>
<tr>
<td>Display size</td>
<td>9” diagonal</td>
</tr>
<tr>
<td>Field of view</td>
<td>Top: 50°, Bottom: 70°, Left: 70°, Right: 70°</td>
</tr>
<tr>
<td>Resolution</td>
<td>800x(RGB)x480</td>
</tr>
<tr>
<td>Picture image</td>
<td>Factory set to reverse image</td>
</tr>
<tr>
<td>Power</td>
<td>10~32 Vdc input</td>
</tr>
<tr>
<td>Inputs</td>
<td>4 x camera</td>
</tr>
<tr>
<td>Dimensions</td>
<td>234(w)x158(h)x39.75(d)mm</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C ~ +70°C</td>
</tr>
</tbody>
</table>
**Troubleshooting**

The symptoms described below do not necessarily mean a failure within the display. Please check the following items before you initiate request for repair.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Causes/Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture, no sound</td>
<td>Improper connection of automobile adapter. Use of unauthorized power supply. Power switch is on OFF position.</td>
</tr>
<tr>
<td>No picture</td>
<td>Check whether AV cable is properly connected.</td>
</tr>
<tr>
<td>No sound</td>
<td>Check whether audio wire is properly connected or the sound volume is turned off or set too low.</td>
</tr>
<tr>
<td>Dark picture</td>
<td>Check whether brightness and contrast are adjusted correctly; Check whether the environmental temperature is too low.</td>
</tr>
<tr>
<td>No color</td>
<td>Adjust the color settings.</td>
</tr>
<tr>
<td>Upside down or lateral inverted picture</td>
<td>Use the remote control horizontal/vertical selection switch to set proper orientation</td>
</tr>
<tr>
<td>No reverse gear activated screen (i.e. Picture)</td>
<td>if the reverse gear is activated but no back-up image is shown on the display, please check whether the reversing trigger is loose (not connected well with the reverse light).</td>
</tr>
</tbody>
</table>
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

NO WARRANTY, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, OTHER THAN 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

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.