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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. If the system seems to not be operating properly see troubleshooting (page 27).
Wiring
Attach the camera cable, then plug the camera into the AV2 input. Connect the RED 12V power wire to an ignition power source and the BLACK 12V ground wire to a chassis ground. The BROWN wire is the REVERSE trigger wire. Connect this wire to the vehicle’s backup light circuit to activate the rear view image whenever the vehicle shifts into reverse. You may connect a second camera to the AV1 input. Turn on the system by pressing the power button on the monitor.
Precautions For Use Of Monitor

I. The monitor is made of glass and plastic. Do not subject it to a mechanical shock by dropping it from a high place, etc.

II. Do not apply excessive force to the monitor surface or the adjoining areas since this may cause the color tone to vary.

III. Clean with a soft dry cloth and/or Windex only.

IV. Do not attempt to disassemble the mirror monitor.

Safety

• Before drilling, be sure no cable or wire is on the other side.
• Feed as much cable as possible into vehicle & clamp securely. This reduces the possibility of cable being hooked or snagged.
## ACCESSORIES

<table>
<thead>
<tr>
<th>U-Bracket</th>
<th>Swivel Head Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Harness</td>
<td>Remote Control</td>
</tr>
<tr>
<td>Removable Sunshade</td>
<td>Mounting Screws</td>
</tr>
</tbody>
</table>
Product Features

1. 7” high resolution TFT LCD color monitor
2. Multiple image options (Horizontal/Vertical/Mirror/Normal)
3. Select from 8 languages
4. Automatic button backlighting and automatic brightness control
5. Fully functional remote control
6. Multiple video formats (AUTO/PAL/NTSC)
7. 3 camera inputs
8. Power Inputs: DC / 10 - 32V (Supports 12V/24V ignition power source)
9. 3 trigger wires to automatically switch between backup/right/left cameras
10. Automatic scanning function
11. Built-in speaker
12. Adjustable grid lines
1. 7” TFT LCD color monitor with a touch screen
2. Audio Output: 1.5W
3. Loudspeaker: One 15x24mm round speaker
4. Power Supply: 10-32V (ignition power source)
5. Power Consumption: ≈6W
6. Monitor Dimensions: 197.2mm (W) × 132mm (H) × 30.5mm (T)
7. Dot Pitch: 0.0642 (H) × 0.1790 (V)
8. Resolution: 800×3 (RGB) × 480
9. Contrast: 500:1
10. Brightness: 400cd/m2
11. Viewing Angle: U: 50° / D: 70°, R/L: 70°/70°
12. Operating Temperature: -20~+70°C, RH90%
13. Storage Temperature: -30~+80°C, RH 90%
14. Waterproof Rating: IP69K
Center Mount Bracket
Connections

WHITE / BLUE / BROWN 5 pin male for Camera 1 / Camera 2 / Camera 3. Connect RED 12V power wire to an ignition power source, the BLACK 12V wire to a chassis ground, the BROWN wire to reverse power, the WHITE wire to left turn signal power and the BLUE wire to right turn signal power.
1. Sensor for remote signal
2. Power button
3. Increase / decrease the volume and switch sub-menu values
4. Move menu selection down
5. Menu button
6. Manual camera switch
Remote Operations

MUTE: ENABLE/MUTE sound
POWER: Turn monitor on/off
↔: Flip image horizontally
† : Flip image vertically
△ CH: Toggle selection up
▽ CH: Toggle selection down
MENU: Access menu
MODE: Toggle picture modes (PERSONAL / STANDARD / SOFT / VIVID / LIGHT)
🕒 : Decrease brightness
🕒 : Increase brightness
CALL: Display current video channel source
TIMER: Set a timer to shut down the monitor
(10 minute increments, 10-90 minutes)
LANG: Change language
SYS: Toggle AUTO / PAL / NTSC.
SEL: Toggle camera channels
Connection of AV Adapter and Controller Cable

Hold the cable, align the side of jack marked with ⏯️ on the female 13-pin connector with the male 13-pin connector marked with ⚙️ then firmly connect

1. BROWN 5 pin male for Camera 1
2. BLUE 5 pin male for Camera 2
3. WHITE 5 pin male for Camera 3
4. Connect RED 12V power wire to an ignition power source
5. BLACK 12V wire to a chassis ground
6. BROWN wire to reverse power
7. WHITE wire to left turn signal power
8. BLUE wire to right turn signal power
**Reversing Display:**

When the white wire is connected to left turn signal power, the monitor automatically switches to CAM1 (left side camera) when the left turn signal is activated.

When the blue wire is connected to right turn signal power, the monitor automatically switches to CAM2 (right side camera) when the right turn signal is activated.
When the BROWN wire is connected to reverse power, the monitor automatically switches to CAM 3 (backup camera) when the vehicle is put into reverse. The distance grid lines will automatically display.

AUTOSCANN: When ON, this setting allows the system to automatically switch between connected camera inputs at a predetermined pace.
**Menu**

Press MENU 1-4 times to display the following options and settings:

1. PICTURE
2. OPTION
3. SYSTEM
4. AUTO SCAN

The PICTURE sub-menu includes BRIGHT, CONTRAST, COLOR, VOLUME, AUTO DIM, and SCALE ADJUST.

Press \( \downarrow \) to select BRIGHT.

![PICTURE Menu](image)

Press + / - to adjust the brightness level.
When AUTO DIM is ON in a dark environment, the on-screen display enters dim mode. When AUTO DIM is turned ON or OFF in a bright environment, the on-screen display remains the same.

Dim Mode

Normal Mode
Press ▼ to select SCALE ADJUST (ability to adjust grid lines)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICTURE</td>
<td></td>
</tr>
<tr>
<td>BRIGHT</td>
<td>50</td>
</tr>
<tr>
<td>CONTRAST</td>
<td>50</td>
</tr>
<tr>
<td>COLOR</td>
<td>50</td>
</tr>
<tr>
<td>VOLUME</td>
<td>50</td>
</tr>
<tr>
<td>AUTO DIM</td>
<td>OFF</td>
</tr>
<tr>
<td>SCALE ADJUST</td>
<td>OFF</td>
</tr>
</tbody>
</table>

Press +/- to select ↑↓ or ⇪ for scale adjustment

● Exit menu and again press ▼ to display the grid line.

If ↑↓ is selected, press +/- to adjust the scale up/down; if ⇪ is selected, press +/- to adjust the scale left/right.
The OPTION sub-menu includes LANG, SCALE, CAM1, CAM2, and CAM3.

- Press ▼ to select LANG.

<table>
<thead>
<tr>
<th>OPTION</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG</td>
<td>ENGLISH</td>
</tr>
<tr>
<td>SCALE</td>
<td>ON</td>
</tr>
<tr>
<td>CAM1</td>
<td>NORMAL</td>
</tr>
<tr>
<td>CAM2</td>
<td>NORMAL</td>
</tr>
<tr>
<td>CAM3</td>
<td>NORMAL</td>
</tr>
</tbody>
</table>

Press + / - to select English/ Deutsch/ Français/ Español/ Português/ Italiano/ Nederlands / Русский

- Press ▼ to select SCALE.

<table>
<thead>
<tr>
<th>OPTION</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG</td>
<td>ENGLISH</td>
</tr>
<tr>
<td>SCALE</td>
<td>ON</td>
</tr>
<tr>
<td>CAM1</td>
<td>NORMAL</td>
</tr>
<tr>
<td>CAM2</td>
<td>NORMAL</td>
</tr>
<tr>
<td>CAM3</td>
<td>NORMAL</td>
</tr>
</tbody>
</table>

Press + / - to select ON / OFF. Scale refers to the reversing distance indicator displayed on the monitor.
Press \( \uparrow \) to select CAM1.

\[
\begin{array}{|c|c|}
\hline
\text{OPTION} & \text{ENGLISH} \\
\hline
\text{LANG} & \\
\text{SCALE} & \text{ON} \\
\text{CAM1} & \text{NORMAL} \\
\text{CAM2} & \text{NORMAL} \\
\text{CAM3} & \text{NORMAL} \\
\hline
\end{array}
\]

Press \( + / - \) to select NORMAL / MIRROR.

**SYSTEM**

The SYSTEM sub-menu includes COLOR-SYS, BLUE BACK, HORIZONTAL, VERTICAL, and ZOOM.

Press \( \uparrow \) to select COLOR-SYS.

\[
\begin{array}{|c|c|}
\hline
\text{SYSTEM} & \text{AUTO} \\
\hline
\text{COLOR-SYS} & \text{ON} \\
\text{BLUE BACK} & \text{↑} \\
\text{HORIZONTAL} & \text{↑↓} \\
\text{VERTICAL} & \text{16:9} \\
\text{ZOOM} & \text{PAL / NTSC} \\
\hline
\end{array}
\]

Press \( + / - \) to select AUTO / PAL / NTSC.
AUTOSCANN

The AUTO SCAN sub-menu includes AUTO SCAN, SCAN TIME, CAM1, CAM2, and CAM3

Press ▼ to select SCAN TIME.

Press + / − to select 1S~90S.
### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes/Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture/sound</td>
<td>Adaptor is connected incorrectly. Improper power supply. Unit is off.</td>
</tr>
<tr>
<td>No picture</td>
<td>Check AV cable connection.</td>
</tr>
<tr>
<td>No sound</td>
<td>Audio cable improperly connected. Volume is off or set very low.</td>
</tr>
<tr>
<td>Dark picture</td>
<td>Adjust brightness/contrast. Low environmental temperature.</td>
</tr>
<tr>
<td>No color</td>
<td>Adjust the color settings.</td>
</tr>
<tr>
<td>Upside down/inverted picture</td>
<td>Use horizontal/vertical selection switch on remote control.</td>
</tr>
<tr>
<td>Reverse camera does not display when car is in reverse</td>
<td>Check reverse connection.</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 MERCHANTABILITY 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.
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

Better Cameras. Better Service. IT’S OUR GUARANTEE.