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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.
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 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.
MONITOR INFORMATION

Chapter one: Product Introduction

The packing box contains the following accessories, please confirm:

- Wire harness
- User’s manual
- 7.3 inch car Rear view mirror monitor with mirror link
- Wire cover
- Remote control

1.2 Features

- 7.3 inch wide LCD display screen
- 2-way video inputs
- Back up camera display
- Automatic brightness adjustment
- 4.0 mm glass and φ 21 mm car factory OEM bracket
- Adjustable guide line
- Screen size: 7.3 inch
- Display screen: TFT-LCD
- Aspect resolution: 1280(H)*390(V)
- Working voltage: DC 10V-DC 16V
- Working temperature: -20℃~+65℃
- Signal system: PAL/Auto/NSTC

For the items listed above, please check with your package box. If any damage, please contact with the distributor or the agent as soon as possible.

Monitor Buttons

1. 7.3” display screen
2. Front light sensor
3. ON/OFF button for screen display. Short press to adjust screen brightness in reverse mode
4. Power indicator
5. MirrorLink mode switch (M): Use this button to switch mirror link mode (Miracast Mode for Android and DNLA Mode for iOS)
6. Display switch (CH): Use this button to switch between display modes. Display modes include full side/rear camera displays, a full mirrorlink display, and multiple dual displays
7. Color Adjustment: Short press to adjust color. Options are standard, bright, beautiful, and soft
8. Speaker  
9. Connector  
10. Special Bracket  
11. Red To ACC+  
12. Black To GND  
13. 5 Pin Camera Connectors  
14. Audio Cables  
15. Trigger Line 1  
16. Trigger Line 2  
17. Rear Signal
**Replacement Monitor**

The mirror monitor replaces the existing car mirror. Carefully remove the mirror off the “pin”. Slide the replacement mirror on to the pin and secure it with the screw provided (already in the screw hole). Different cars have different brackets, depending on your vehicle make and manufacturer. There are many methods to remove the original rear-view mirror, however, please don’t force the mirror off the bracket. The manufacturer will not be responsible for damage caused to your car by an improper mirror installation.

**Camera & Cable**

Be sure to position the cable properly. The aviation camera cable uses aircraft grade connectors which means the camera cable can be exposed to all weather elements. Do not run the cable over sharp edges, do not kink the cable, and keep away from HOT and rotating parts. Fasten all cables and secure all excess cable. Connect camera to the camera extension cable running inside the vehicle.
Wiring
After connecting the camera to the “camera cable” the camera should be plugged into AV2. Connect the RED 12V power wire to an ignition power source and the BLACK 12V ground wire to a chassis ground. The GREEN 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. To connect a second camera, connect it to AV1. It can be turned on by pressing the power button on the monitor.

Precautions for use of Mirror Monitor

I. The Mirror Monitor is made of glass. 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. Only clean with a soft dry cloth and/or Windex.

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.
**Installation and Wiring**

Different cars have different brackets/bases. It depends on your vehicle maker/manufacturer. There are many ways to remove the original rear view mirror. Do not force the mirror off the bracket. The manufacturer will not be responsible for any damage caused to your car by improper mirror installation.
2.1 How to install

2.2 Special bracket

Remove the original rear view mirror and remain the metal base on the windscreen. Along this direction to install rear view mirror. Contra-rotate the fixed rear view mirror. Remove the original mirror. Install mirror monitor on the base. Different cars have different brackets. It depends on your vehicle maker and manufacturer. There are many methods to remove the original rear view mirror, however, please don’t force the mirror off the bracket. The manufacturer will not be responsible for any damage caused to your car by wrong installation of the mirror.

We have many kinds of brackets. One of them must suit for your car, and we are not going to go through anymore examples, because the space is limited. If you don’t find the same bracket here as your car, please contact us. If the mirror monitor doesn’t fit in your vehicle, please contact us. We have many different kinds of brackets and adaptors.
How to Wire

The advisable installation position for camera

By connecting the green line, the reversing signal is input to the rear view mirror and reversing video can automatically display on the wide 7.3 inch LCD monitor.

3M Power harness

FUSE BOX

Black to GND

Red to ACC +12V

Back up camera

Left camera

Back up video

Right video

5 Pin Camera Connector

5 Pin Camera Connector

Audio Cables

Audio Cables

Trigger line 1

Trigger line 2

Green

Rear signal

White

Red to ACC +12V

Black to GND

Orange

Red to ACC +12V

Black to GND

White

Rear signal

Orange

Red to ACC +12V

Black to GND

Green

Rear signal

White

Rear signal

Orange

Rear signal

Red to ACC +12V

Black to GND

Audio Cables

Audio Cables

Audio Cables

Audio Cables
Adjustable Grid Lines

Generally, to help drivers estimate the distance from obstacles, there are three lines for reference - red, yellow and green. These three lines are displayed on the monitor when car is reversing. The green line is 3m from the back of car and the yellow line is 2m. The distant red line is 1m from the back of car while the closed red line is 0.4m. Both reference lines on the left and right should leave 0.2m space from the car.

The accuracy of the grid lines can vary based on how you angle your camera. Adjust the grid lines to compensate for inaccuracies.
Long press the “Settings” (middle) button on the remote to enter grid line adjustment mode. Press the “Settings” button again to toggle between left/right grid lines. Use the “UP/DOWN/LEFT/RIGHT” buttons to adjust grid line location, and the rotation buttons to adjust grid line angle.

Press the button to choose L or R adjustable guide line

Remote control  Move the guide line  Rotate the guide line

Display on the monitor

Note: keep the remote control 0.5m-1.0m from rear view mirror when you use the remote to adjust the parking lines.
Remote Control

The remote must be used to change menu settings.

How To Use Menu

Short press “MENU” to enter “PICTURE.” Here you may choose “BRIGHTNESS”, “COLOR”, “CONTRAST”, “SCALE”, “START LOGO”, or “PRESET.” Use the “UP/DOWN” buttons to change settings.
Brightness Level

Brightness/color/contrast levels range from 0 to 100. The default is 50.

Color Level

Contrast Level
Scale Adjustment
Scale function will only work with gridlines. Choose “ON/OFF.” Default is “ON.”

Start Logo On/Off
Choose “ON/OFF.” Default is “ON.”

Preset Menu
Save basic settings. Choose “ON/OFF.” Default is “OFF.”

Volume Adjustment
Volume adjustments range from 0 to 100. The default is 80.
MirrorLink

Use mirrorlink to display your mobile phone on your rear view mirror monitor through WiFi and programs such as DLNA, Miracast and Airplay. Note: Bluetooth must be off to use mirrorlink.

How to Connect (Android)

Press the “M” button on your monitor, switch wireless mode to “Android Device”, and open the WiFi on phone. Search for mirror connection as shown on next page.
After the mirror link is connected, press the “CH” button to toggle between single and dual display modes.
How to Connect with iPhone

1: Press the “M” button to switch the wireless mode to “iOS Device.”

2: Search for the WiFi connection as shown below. Default password is 12345678. After connecting, turn AirPlay on and turn on mirroring as shown below.
Channel Switching

After the mirror link is connected, press the “CH” button to toggle between single and dual display modes.

Full Backup Camera Display
DISPLAY MODES

Full Side Camera Display

Full MirrorLink Display
Side Camera/MirrorLink Dual Display

Backup Camera/MirrorLink Dual Display

Please note:
1. Both Reversing mode and non-reversing mode have seven states: mirrorlink, Video+mirrorlink, Mirrorlink+video, camera+mirrorlink, Mirrorlink+camera, video full screen, camera full screen.
2. Power on each, the screen automatically keep the last state before shutdown, which has eight styles, seven of which are as above 1, additionally an off-screen state, Totally eight states.
3. There are three modes of operation can trigger video; 1) The first grade is +12V BACKUP LIGHT: You can adjust the seven states when there is signal of triggering reversing thought touching CH button. The final state will be remembered after powering off, and the final state be shown automatically when trigger BACKUP LIGHT next time; 2) The second grade is +12V VIDEO CONTROL-- Video channel triggered line, which connect turn light or brake light in a general way. Mirror will automatically switch to full screen mode of VIDEO when the trigger signal appears; while it will automatically switch to previous state when the trigger signal disappears after 3 seconds, in VIDEO trigger state: the only brightness button of TP button can work, while button of M and CH don’t work.
4. When the camera and mobile show at the same time, guide line can’t be displayed.
Please Note

1. This system has multiple display modes, including full side/rear camera displays, a full mirrorlink display, and multiple dual displays.

2. When turned on, the screen will automatically show the last display mode viewed.

Triggering Video

1. Reversing your vehicle will trigger your rear camera.

2. The mirror will automatically switch to the full camera display when the brake or turn signals are used.

3. When a camera/mirrorlink dual display is shown, gridlines will not be displayed.
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.

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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

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