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.
• 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>
<tr>
<td>Keys</td>
<td></td>
</tr>
</tbody>
</table>

Special Notice: Accessories may vary on certain devices.
Connections

A: GPS Input
B: Camera 1 White 4 PIN Female
C: Camera 2 Blue 4 PIN Female
D: Camera 3 Green 4 PIN Female
E: Camera 4 Brown 5 PIN Female / 4 PIN Female
F: Video Out Yellow RCA Female
G: Audio Out White RCA Female

1 White: Camera 1 trigger
2 Blue: Camera 2 trigger
3 Green: Camera 3 trigger
4 Brown: Camera 4 trigger
5 Orange: HDMI trigger
6 Purple: Speed
7 Black: Ground
8 Red: VCC
Remote Control

1. Mute
2. Standby
3. Recording
4. Volume Decrease
5. Volume Increase
6. Snapshot
7. Menu
8. Display Mode Selection
9. Language Selection
10. HDMI Switch
11. Event Recording
Controls

1. AUX Input
2. Remote Receiver
3. LDR (Light Dependent Resistor)
4. Recording Indicator
5. Power
6. Lock
7. Emergency Reset
8. Micro SD Slot
9. HDMI Input
10. Insert Direction
11. Slot Number
12. Sketch of slots/microSD card direction
**Power Function**

A) Short press the power button to turn on the monitor when the panel LED is red.
B) Hold the power button for 5 seconds, then enter the password in the pop-up window to turn off the monitor.
C) When the monitor is on, short press the power button to turn off the backlighting.

Emergency Reset: If the device freezes, press the Emergency Reset button using a pen/needle. This will reboot the system.

**Operation**

![Operation Diagram]
Time and Indicators

Date and time are displayed on the top left.
AUX/Rec/Play/Lock/GPS are displayed on the top right.
AUX indicator turns red when AUX audio is inserted on the front panel.
Rec indicator turns red when recording.
Play indicator turns red when playing back.
Lock indicator turns red when menu is locked.
GPS indicator flickers when searching for signal and becomes red when GPS signal is received.

Menu Operation

Press this icon to start/stop recording. Video files are saved in the normal list on the player menu. When Event Mode is activated (trigger signal, motion detection, collision etc.), regular recording is paused and will resume after Event Mode is finished.

Press this icon to manually record in Event Mode. The footage 15 seconds before pressing button will also be saved in Event Mode. Event recording will stop when the pre-set recording time for this mode has passed. Video files are saved in the event list on the player menu. These files can only be erased manually. Clicking the icon again before Event Mode has ended will switch the monitor to normal mode after the pre-set recording time is up.

Press this icon to enter the playback menu. A prompt dialog will display “Unable to record in play mode! Continue?” Click OK to view the recording calendar menu. Video files are available as green highlighted dates. Click the date to select, play or delete video files/snapshots. Multiple video files can be set to play in sequence. Snapshots must be played individually.
Press this icon to take a snapshot when recording or in playback mode. “Snapshot Success” will display when picture is successfully captured. Snapshots are saved in the capture list in player menu.

Press this icon to adjust volume when recording or in playback mode.

Press this icon to enter the setup menu. A prompt dialog will display “Unable to record in setup mode! Continue?” Click OK to continue.

Press this icon and enter the password in the pop-up window to turn off the monitor.
Record

Power On Rec: Start recording automatically when power is on. Select ON/OFF.
Cyclic Rec: With this setting on, new video files will overwrite previous files after SD cards fill up. When this setting is off, all recording will stop after SD cards fill up. Event Mode files will never be overwritten. Select ON/OFF.
Trig.4 Rec: Event mode will start automatically when trigger is signaled. Select ON/OFF.
Motion Rec: Event mode will start automatically if motion reaches a pre-set threshold. Select ON/OFF.
Event Record Time: How long Event Mode will last. The options are 15 seconds/30 seconds/60 seconds.

Record Channel Select: Select which camera channels will record. The default setting records ALL 4 camera channels. Event mode records all 4 camera channels and cannot be changed.
Motion Sensitivity: When motion reaches this threshold, it will start recording. The options are Low/Middle/High.

G-sensor Sensitivity: The options are Low(+/-1g)/Middle(+/-2g)/High(+/-4g).

Video Quality: Video resolution options are Low/Middle/High. The default quality is High.

**Display**

![Display settings](image-url)
Press this icon to edit the camera names.

Press this icon to change how long the menu will display.

Press Menu Lock to set password. Default Password is 123456.
Press this icon to turn camera parking lines on/off. Use Calibrate to adjust parking lines.

Press this icon to change trigger delaying time and priority. 5 is the highest priority.

First connect vehicle speed wire with monitor speed wire. Use this menu to select which camera will display a warning when the vehicle is over/under pre-set speed.
Speed Range/Calibration Setup
Press the Calibrate icon to calibrate the your monitor's current speed. Select a range using the high/low speed cursors. A warning will appear when the vehicle is over/under this range.

Press this icon to change black-light brightness.
Press this icon to change what is displayed when the device is turned on.

Press this icon to change how long the screen and battery will remain on after external power is turned off.

Press this icon to select video system in camera mode or HDMI input in non-camera mode.
In the mirror sub-menu, each video input can be set to display either a mirror or a non-mirror image.

Storage

ALL: Total capacity and free capacity for all cards.
TF1~4: Total capacity and free capacity for each individual microSD card.
Format: Format microSD card. You may format all MicroSD cards at the same time or format them individually. Format icon will appear gray if SD card is not found.
TF SLOT: MicroSD card slot position.
Warning: MicroSD cards should not be taken out during recording or playback.
System

Click this icon to display the monitor Software version

Click this icon to select language

SYS Version=1.4, MCU Version=2.1

Language Setting

English  Français  Nederlands
Inglés  Deutsch  Italiano
Português  日本語  Русский

OK  Cancel
Click this icon to display GPS information.

Click this icon to set audio out channel.

Click this icon to set device ID and license plate number. The information will be displayed on all the video files to distinguish different vehicles and drivers.

Click this icon to set date and time. Year should range between 2000-2037.
Start: Starting time of scheduled recording.
End: Ending time of scheduled recording.
Confirm: Save scheduled recording (Maximum of 3).
* Each scheduled recording time can be set to record once, daily or weekly.
* Single scheduled recording will display as expired, completed or deleted.
* You cannot overlap scheduled recordings.
* Recording must be resumed manually if interrupted.
* To stop a scheduled recording press the start/stop recording button.
* If Event Mode is activated (trigger signal, motion detection, collision etc.), scheduled recording will be paused and will resume when event recording is finished. Scheduled recording will not resume if the preset time has passed.
Press this icon to change file type

Update: Press this icon to update software.
Note: System will reboot after being upgraded. Do not turn off device during reboot (approx. 40s of dark screen) or the monitor will not start because of upgrade failure.

Factory Default: Will display “Confirm to reset?” Click this icon to restore factory settings.

Recording Time
There are 3 image quality options: High/Middle/Low. Recording time for these options are listed in the chart below (4 x 128G microSD cards recording 4 channels):

<table>
<thead>
<tr>
<th>Image Quality</th>
<th>Recording Time (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PAL</td>
</tr>
<tr>
<td>Low</td>
<td>448</td>
</tr>
<tr>
<td>Middle</td>
<td>328</td>
</tr>
<tr>
<td>High</td>
<td>164</td>
</tr>
</tbody>
</table>
The 3 levels of resolution corresponding to the image quality options are listed in the chart below. The high image quality has the same resolution as the middle image quality, but also has twice the bit rate.

<table>
<thead>
<tr>
<th>Image Quality</th>
<th>Resolution</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PAL</td>
<td>NTSC</td>
</tr>
<tr>
<td>Low</td>
<td>352 x 288</td>
<td>352 x 240</td>
</tr>
<tr>
<td>Middle</td>
<td>704 x 576</td>
<td>704 x 480</td>
</tr>
<tr>
<td>High</td>
<td>704 x 576</td>
<td>704 x 480</td>
</tr>
</tbody>
</table>
If you have any questions about this product, contact:

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1797 Atlantic Avenue
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IT’S OUR GUARANTEE.