



## OWNER'S MANUAL



# EWAY WIFI WIRELESS BACKUP CAMERA KIT

Wireless License Plate Backup Camera

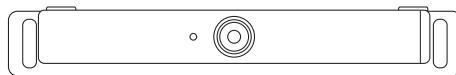
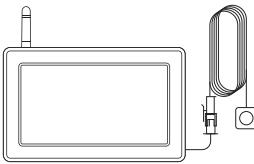
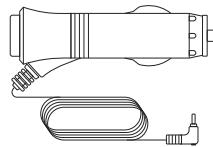
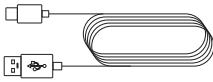
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## INTRODUCTION

Thanks for purchasing **EWAY** wireless backup camera system. Please read all the information carefully and keep it for future reference. This manual will address your questions about how to utilize the camera and monitor. We hope that this product can satisfy your needs.

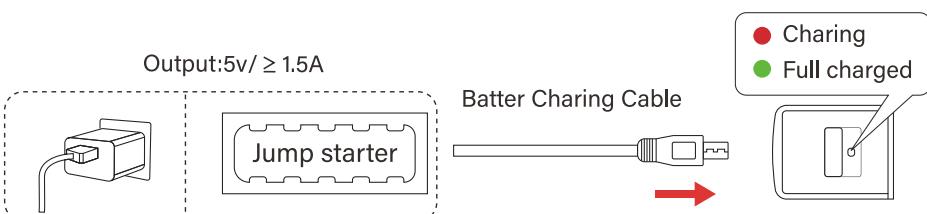
## PACKAGE CONTENTS

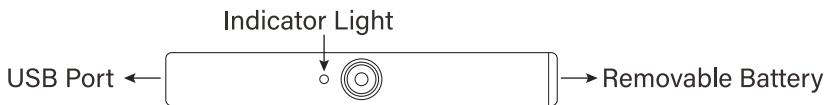
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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |                                                                                   |                                                                                   |
| Backup Camera (Removable Battery)                                                 |                                                                                   |                                                                                   |
|  |  |  |
| 5-inch Monitor with Activate Bottom                                               | Monitor Suction Mount                                                             | Cigarette lighter power cord                                                      |
|  |  |  |
| USB Type-C Cable                                                                  | Zip Ties                                                                          |                                                                                   |

## GET STARTED

### Charge The Camera

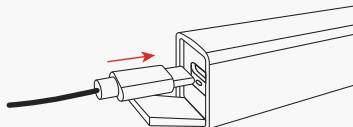
Before installing your backup camera, fully charge the camera's battery using a plug and the battery charging cable. Let the battery charge for 4-5 hours.





## ATTENTION:

1. If you are leaving your vehicle unused for more than half a month, press the power button on the to turn off the camera (on your 5" monitor, there is convenience button). This prevents the battery from discharging.
2. The backup camera can work continuously for 7.5 hours at 100% charge. If it is being used 3 times a day (the reversing time is 60 seconds), the fully charged camera can last for about 45 to 60 days. When a low battery icon flashes on the display, please charge the camera in time. (The working hours are for your reference only, it also depends on the using environment.)
3. If you use a power bank or a jump starter to charge the device, make sure that its battery capacity is no less than 5000mAh.
4. If the product has been installed, you can charge the camera by battery charging cable using a mobile power supply or jumper starter. Or you can remove the camera as following instructions and then charge it.

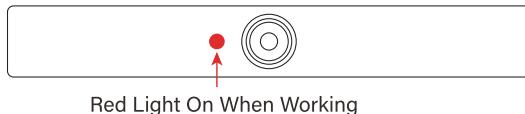


## TEST THE SYSTEM

Prior to installing your backup camera, test all components in the system to ensure proper functionality. (Camera and monitor come pre-paired)

1. Fully charge the wireless backup camera before use. If the indicator light is on, the camera is on and functioning.
2. Press the camera activation button on monitor and the button on Cigarette Lighter Charger Adapter to turn on your backup camera, then the monitor will display image of the camera. In addition, the camera indicator light will remain solid. If you can not see camera image showing on the monitor, refer to the troubleshooting section of the manual.

3. Press the power button to turn on the rear camera. The indicator light on solid Red. This indicates that the backup camera is on the functioning.



4. The indicator light is flashing on Green and remain solid Green light when fully charged. This indicates that the backup camera is on charging.

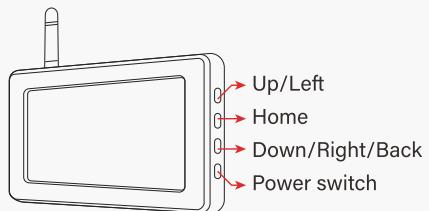


## OPERATION

### Operate The Monitor

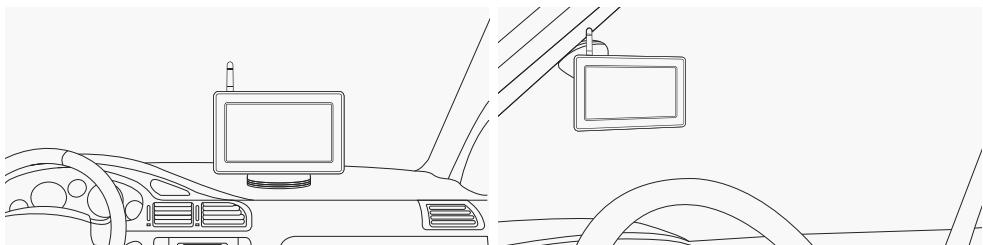
The monitor indicators glow when the monitor is getting power, indicating that the monitor is in standby mode. Pressing any side button on the monitor you will see rear view image.

**⚠ Note:** When both monitor and camera is on working position, and your monitor screen is not display, try to press the camera activation button on monitor to reactive your reverse image.



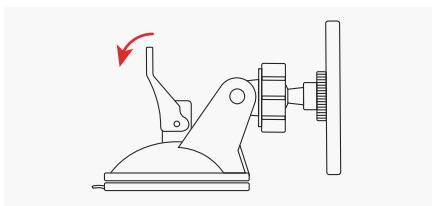
## MOUNT THE MONITOR

Find a mounting surface inside your vehicle where the monitor can be easily seen from the drive seat and does not obstruct your vision when driving. You can mount the monitor on your dashboard or on your windshield.



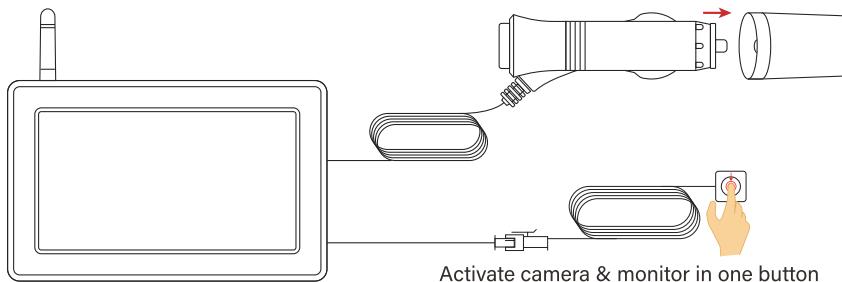
**⚠ Note:** Before permanently mounting the monitor, test the reception of the camera signal in several locations as one may have better reception than the other.

1. Clean and dry the area you will be mounting your monitor to before fixing the suction cup.



2. Press the suction cup against the mounting surface and push the suction cup lock lever down to lock the suction cup in place.

3. Connect the monitor with Cigarette Lighter Charger Adapter

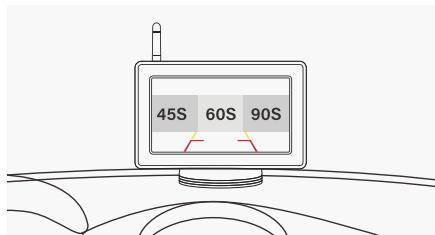


### NOTE:

1. For a clean installation, you can hide the charging cable into the decorative seam around the edge of the dashboard, and if necessary, bundle the additional wires with a cable tie.

2. Connecting display to your car cigarette lighter port and power on. Activate bottom with on/off switch to turn off the display & camera at any time when not in use.

3. Adjustable working time the displays time can be set into 30S/60S/90S, and it will enter into the standby mode automatically after usage, which aims to power saving. You can activate the monitor by pushing the button on the car charger at any time for reversing/monitoring.

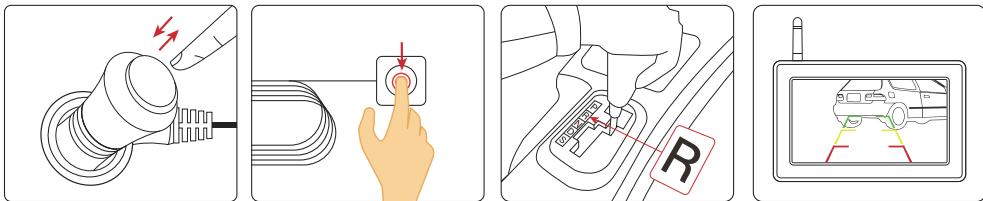


## ACTIVATE THE CAMERA

Prior to putting your vehicle in reverse, push the camera activation button. This will turn your camera on and allow the image to be viewed on the monitor.

1. Press on/off bottom on cigarette lighter power to get power on your monitor.
2. Press the activate bottom to activate your camera

 **Note:** Pressing the activate bottom also activates both of the camera and monitor screen.



## BATTERY INDICATOR

The battery icon is located in the upper right corner of the display, showing the battery level of the Wireless Backup Camera.



 Keep away from fire

 Must not be swallowed

| Battery power status                                                                | Relative power | Estimated duration | Note           |
|-------------------------------------------------------------------------------------|----------------|--------------------|----------------|
|  | ≈ 100%         | ≈ 60days           | --             |
|  | ≈ 70%          | ≈ 45days           | --             |
|  | ≈ 40%          | ≈ 24days           | --             |
|  | ≥ 20%          | ≈ 12days           | Need to charge |

 **Note:** The parameter are tested under 25°C, low temperature may decrease the performance of the battery.

## INSTALLATION

### Pre-Installation Note:

- When installing the unit, please do not impair the vehicle's equipment, control systems. Follow the local applicable laws and safety regulations for vehicle.

- Park your car in an even and sage place before installation.

**Before installing the backup camera on your car, please test all the components of the product by using your vehicle power or an external power supply to check if the product can work properly. The following test steps for reference:**

1. Press the activate bottom to activate your camera
2. Insert the car charger into the cigarette lighter port, turn on the engine and power it on.
3. After the above steps are completed, if the screen displays image normally, it means the product is working normally. After the test is complete, the installation can be performed.

## **INSTALL THE REAR CAMERA**

1. Unscrew and remove your license plate.
2. Snap the bracket of camera into the license plate.
3. Secure the backup camera and license plate with screws back onto the rear of your vehicle.
4. You can also install the camera on the bottom of the license plate.
5. This backup camera and monitor kit is already paired, you are ready to go when fully installed.

**If is hard to tighten the backup camera and license plate with screws back onto the rear of your vehicle, install the camera as following steps:**

1. Unscrew the anti-theft screw, Slide the camera in the specified direction to separate it from the bracket.
2. Install the camera bracket to your license plate and fasten screws.
3. Fix the camera onto the bracket and fasten the anti-theft screw.

**You could use double-sided tape, or by tightening the zip tie until is clamps onto itself holding the license plate with tension.**

## **FCC CAUTION:**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## IMPORTANT NOTE:

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

## VEHICLE MOUNT INSTALLATION FOR NORTH AMERICA

**⚠ Note:** The installation pictures are for reference only.



(Fits on top or bottom of the license plate)

## INSTALLING THE MOUNT ON YOUR VEHICLE

1. Remove the license plate screws from the rear of your vehicle, and remove the license plate, vanity frames, and license plate covers.

**⚠ Note:** The camera mount is intended to be installed onto the bare license plate, and it is not compatible with vanity frames or license plate covers.

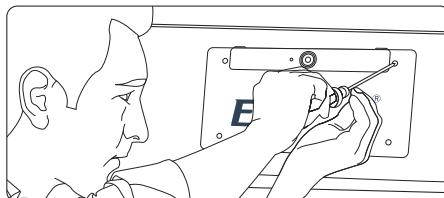
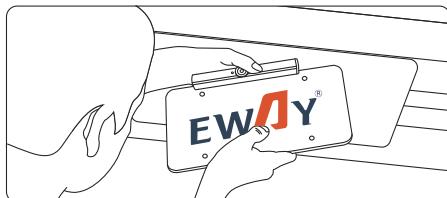


2. Slide the metal bracket over the top or bottom of the license plate. The flat metal plate on the bracket slides behind the license plate.

**⚠ Note:** It is recommended to install the camera above the license plate, if possible. If there is not enough room above the license plate on your vehicle, you can configure the mount for installation below the license plate (Installing the Camera at the Bottom of Your License Plate, please refer to the next page).

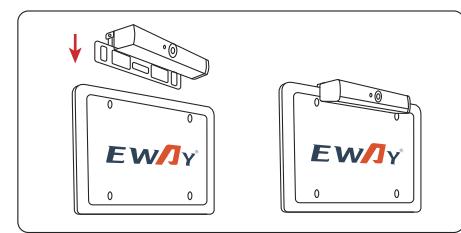
3. Hold the license plate and mount up to the license plate area on your vehicle, and slide the mount up or down to align one set of mounting holes with the holes in the license plate. You should use the mounting position that fits your vehicle and covers the smallest portion of the license plate. You must avoid covering any text or numbers on the license plate. Some jurisdictions prohibit covering any portion of the license plate. It is your responsibility to follow license plate mounting regulations.

4. Insert the license plate screws through the top of the license plate and mount, and into the license plate mounting holes on your vehicle.



5. Fully tighten the license plate screws.

6. Install license plate screws through the bottom holes of the license plate, and tighten (optional). This option is not available for all vehicles or for all mounting bracket positions.



## INSTALLING THE CAMERA AT THE BOTTOM OF YOUR LICENSE PLATE

To allow for proper camera angle adjustment, the Working Position Light on the camera must be right-side when the mount is installed on your vehicle. Out of the box, the camera mount is assembled for installing the camera at the top of your license plate. When installing the camera at the bottom of your license plate, you must remove, rotate, and reattach the camera clip. This allows you to properly adjust the camera angle.

1. Using a Phillips screwdriver, fully loosen the two camera clip screws, and remove the camera clip from the metal bracket.

2. Rotate the camera clip 180 degrees, so the Working Position Light is on right-side.
3. Insert the two camera clip screws into the holes labeled BOTTOM OF PLATE .
4. Tighten both screws.
5. Apply one or two zip ties to the back of the flat mounting bracket, near the bottom (optional). The mounting zip ties secures the back of the mounting bracket to your vehicle, this helps reduce camera vibration, especially if your vehicle does not provide mounting holes at the bottom of the license plate.

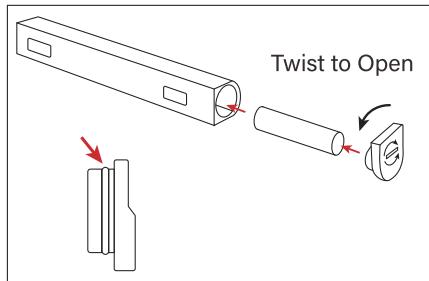
**⚠ Note:** The mounting zip tie does not replace the license plate screws. You must fasten the mount and license plate to the vehicle using at least two license plate screws, whether or not you attach the mounting tape.



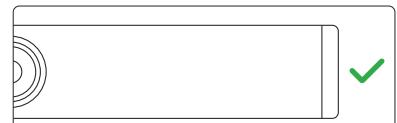
## CHARGE BATTERIES

The device operates on one 18650 lithium batteries must be 3.7V. For the best results, you should use lithium batteries, which provide extended battery life and better performance at low temperatures.

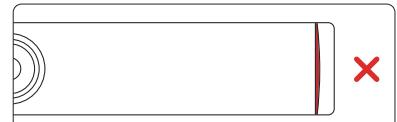
1. Rotate the battery cover toward the front of the camera, and remove the battery cover.
2. Insert a AA battery into the end of the camera, with the negative pole facing outward.
3. On the battery cover, verify the gasket is clean and fully seated in the groove.
4. For the battery cover, place the cover into the camera, press it tightly into the camera, and rotate it toward the back of the camera to lock it into place.



**⚠ Note:** Although the battery cover are interchangeable, it is recommended to install the covers as shown in the illustrations.



5. Verify battery cover is fully sealed and no part of either gasket is protruding between the cover and the camera.



## SPECIFICATIONS

### Camera Specification

|                                |                   |
|--------------------------------|-------------------|
| Color                          | Black             |
| Power Voltage                  | +5V ~ +12V        |
| External DC Power Supply       | +5V ~ +24V        |
| Charging Current               | 150mA ~ 250mA@5V  |
| Connector Type                 | Type C            |
| Wireless frequencies/protocols | 2.410GHZ-2.473GHz |
| Operating Temperature          | -20°C ~ +50°C     |
| Storage Temperature            | -30°C ~ +60°C     |
| Angle                          | 150° Wide View    |
| Waterproof Rate                | IP67              |
| Pixel                          | 130W              |
| Resolution                     | 1288H*968V        |
| Battery Capacity               | 3000 mAh          |

### MONITOR SPECIFICATION

|                       |                   |
|-----------------------|-------------------|
| Monitor Size          | 5 inch            |
| Resolution            | 800*480           |
| Working Voltage       | DC 5 ~ 24V        |
| Frequency Coverage    | 2.410GHZ-2.473GHz |
| Modulation Method     | GFSK              |
| Operating Temperature | -20°C ~ 70°C      |
| Storage Temperature   | -30°C-80°C        |

### TROUBLESHOOTING

#### The camera takes a long time to connect or does not connect

Your camera may have a weak wireless connection to your monitor if it takes a long time to display video on your monitor, if the video frequently pauses or buffers, or if the camera does not display video at all on your monitor. Interference with the connection can be caused by other wireless signals, vehicle wiring, or structural elements of your vehicle.

You can try these options to help improve the stability of the wireless connection between your camera and your devices.

- Move the device to a different location on your dash or windshield.
- Remove the camera from the mount, flip it upside down, and place it back into the mount.
- When mounted with upside-down,you could flips the video by press the bottom on monitor on the side.
- Mount the camera at a different location on your license plate.

**For example, if your camera is mounted at the top of your license plate, you can try moving it to the bottom of the license plate, or vice-versa.**

- The camera communicates with your monitor using a 2.4 GHz Wi-Fi signal. Reducing the number of nearby devices using the same channel can improve the wireless connection. Turn off the Wi-Fi radio on other devices in your car, such as smartphone or mobile Wi-Fi hotspot.

## **THERE IS NO IMAGE DISPLAY FROM CAMERA.**

**Your camera battery may be loose or run out of power. In this case, please open the battery cover, and check the battery status.**

- Make sure your battery is putting on the right position. It is important to verify battery cover is fully sealed and no part of either gasket is protruding between the cover and the camera.
- If your camera is showing in low battery power status, remove the camera from the mount, and recharge it using the included Type-C power cable. After charging you have to put the cap on, which has pins on it and is necessary for the camera to work.

## **IF ALL STEPS ARE FOLLOWED, THE CAMERA IS STILL REMAIN UNWORKED.**

**Your battery may be damaged due to moisture. We will suggest you change a new 18650 lithium battery, and it must be 3.7V.**

- Please ensure you place the battery cover into the camera, press it tightly into it, and rotate it toward the back of the camera to lock it into place every time you open.

## **WARRANTY AND SERVICE**

We provide a **3-YEAR WARRANTY** for this product. During the warranty period, we will repair for you if the product was damaged naturally. We reserves the right the amend the warranty content without prior notice.

### **Our warranty does NOT cover the following situations**

1. Warranty expired.
2. Destroyed by human factors, accidents, misuse of the product.
3. Product buy from unauthorized channels.
4. Unauthorized alternation to change of parts or components of the product.
5. Fail to provide a receipt or proof of purchase.
6. Malfunctions caused by phenomena such as fire, natural disasters.

For more information or support, please see <https://ewaysafety.com>

If you have any questions regarding your Camera, please feel free to to email [service@ewaysafety.com](mailto:service@ewaysafety.com) with your order number in the SUBJECT line of the email.