

SUNWAYI WSU43+ Wireless Backup Camera User Manual

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WSU43+

**Drive-IT
Back up Camera**

SÖLAR POWERED

WIRELESS BACKUP CAMERA



User Manual

INTRODUCTION

Welcome

Thanks for your choosing WSU43+ product, which provides value and quality. Please read this User Manual carefully before using the product.

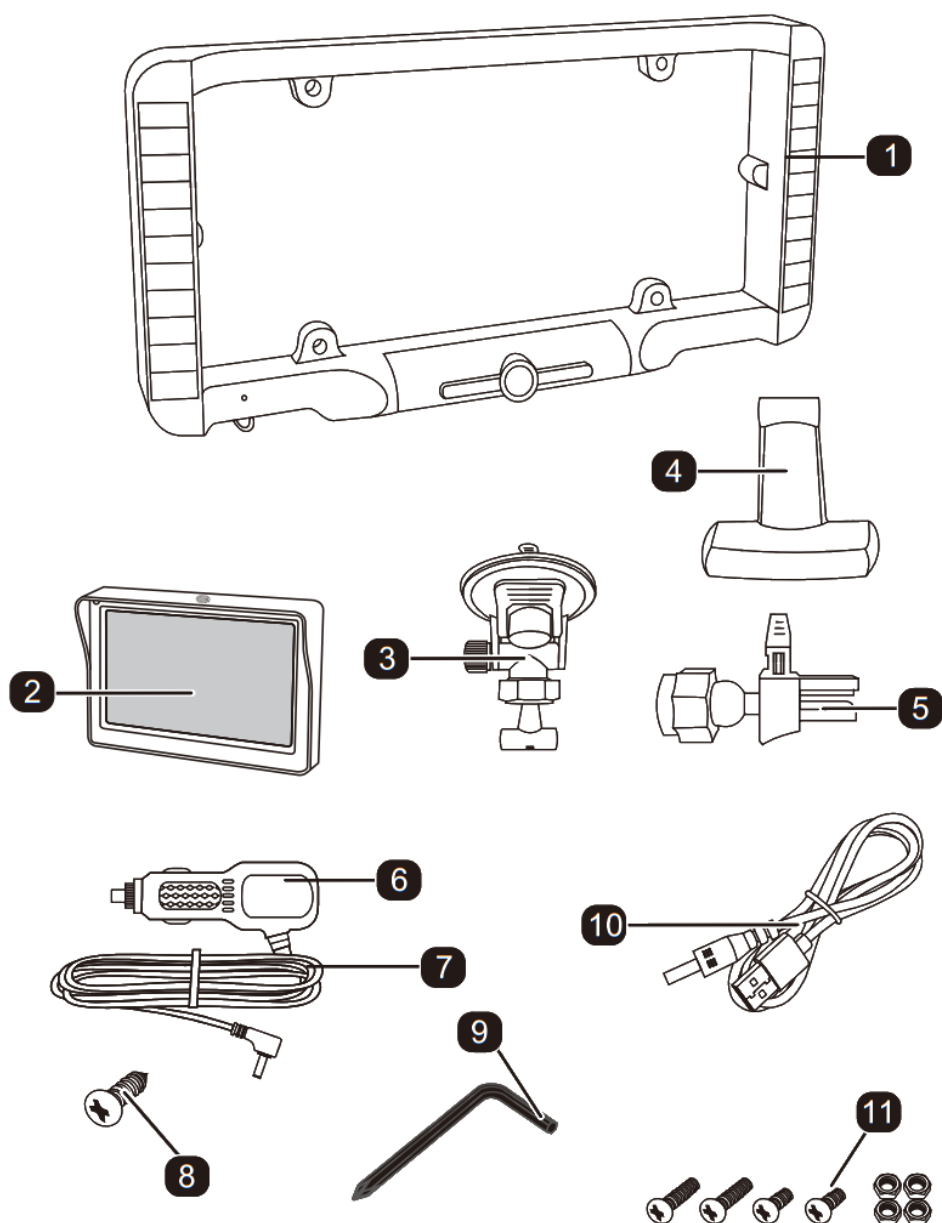
Solar Powered Wireless Backup Camera can display image behind the car and can be used when backing up or any time you want to view behind the car (even while your car is in park).

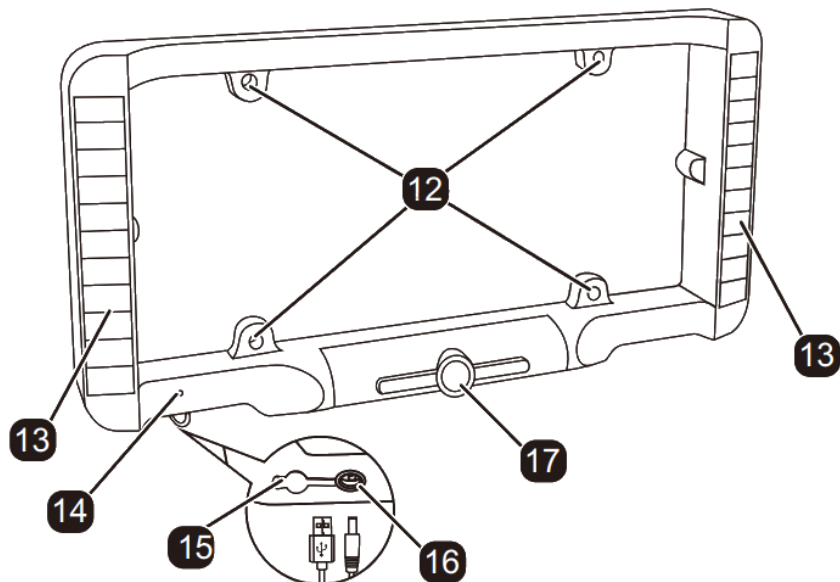
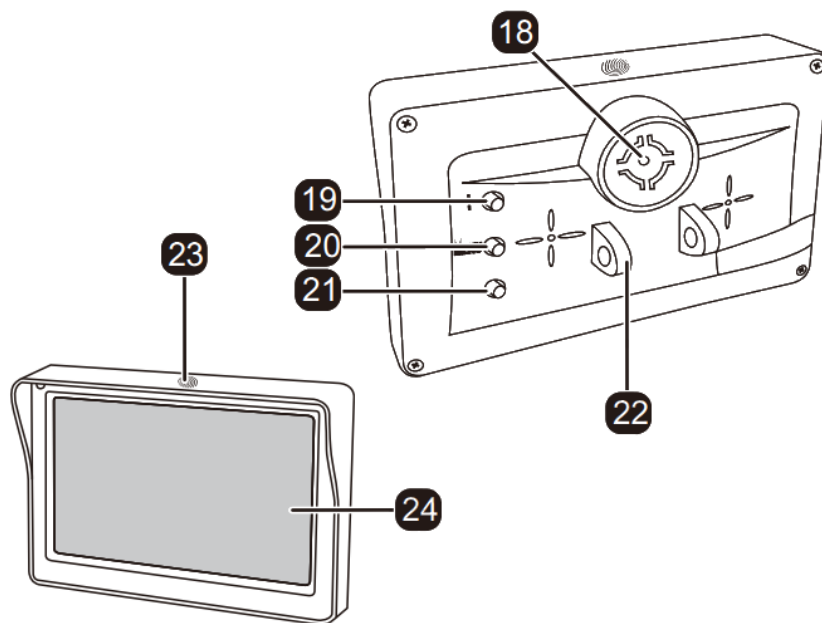
Notice:

* Due to product upgrades or technical updates, the instruction manual may sometimes be changed in need. The manufacturer reserves the right to modify and update product specifications without prior notice.

WSU43+, suitable for passenger cars, conditionally suitable for other relative vehicle.

01. COMPONENTS

A

B**C**

Scope of delivery / parts.

- [1] Camera with license plate holder
- [2] Monitor
- [3] Suction cup holder
- [4] Stand holder
- [5] Vent holder
- [6] USB connection
- [7] Power cable with car adapter
- [8] Small screw x1
- [9] Assembly tool
- [10] DC Charging cable
- [11] Screws & nuts
- [12] License plate mounting hole
- [13] Solar panel
- [14] Charging LED

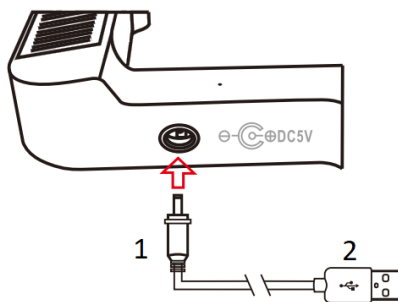
- [15] Charging socket cover
- [16] Charging socket
- [17] Backup camera
- [18] Screw hole
- [19] + button
- [20] Menu / OK button
- [21] – button
- [22] Bracket holder
- [23] Touch sensor
- [24] Screen

02. GETTING STARTED

Remove WSU43+ product packing or assembly and make sure all components are included.

Charge the Camera with license plate holder

1. Connect the supplied DC cord to the charging port of the Camera.
2. Plug the cable USB port into any standard USB charging adapter with an output rating more than 5V/1000mA.
3. Charge 4 to 5 hours.



1. DC charging
2. USB Port

* During the whole DC charging, the red indicator light will keep on. It will turn off when finishing the charging.

* When the DC charging is done for a period of time, you can vibrate the camera and immediately touch the **Touch-Sensor** on the monitor to see the increase in charging. The battery capacity icon on the screen shows the actual status of the camera's built-in battery power.

Under normal use, the camera maintains a charge with exposure to sunlight. A battery status indicator is provided on the monitor when the camera is in use. If you're storing your car in a garage (or not exposing the camera to sunlight on a regular basis) for more than one month, you may need to recharge it via the DC charging port.

Check the wireless function

1. Shake the camera in the air.
2. Touch the **Touch-Sensor** quickly and check the image after the monitor is powered.

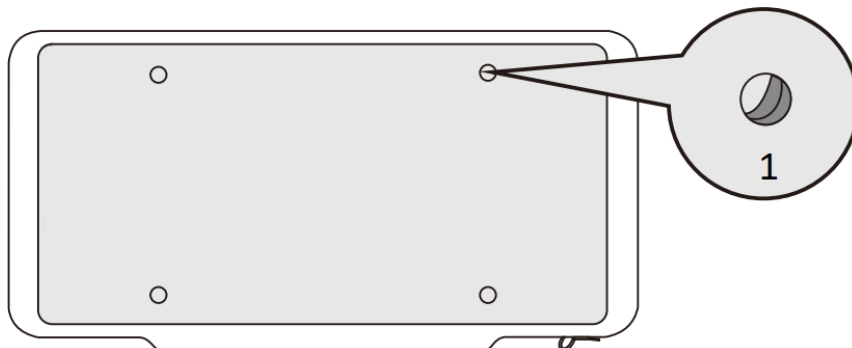
Note:

Camera has to be waken up from sleeping status by little vibration.

* In the process of use, there is wireless interference from outside sometimes.
If no connection normally, the device will shut off automatically 10 seconds later.
Then please touch the **Touch-Sensor** to turn it on.

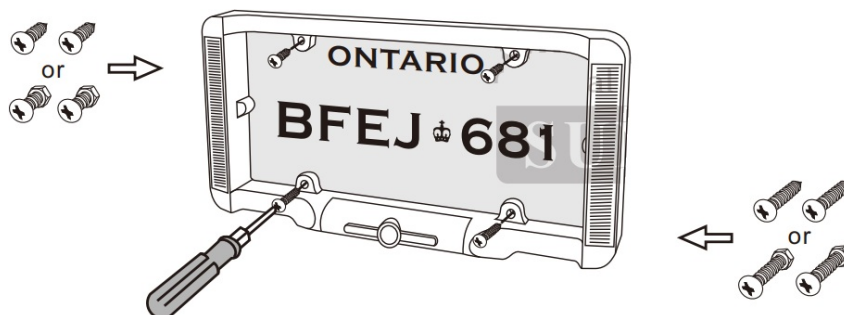
03. LICENSE PLATE HOLDER INSTALLATION

(1) Align the license plate with the hole.



1. Align holes

(2) Install the license plate holder on the car using screws, then tighten the screws.



Warm tips:

(The shorter screws for up holes, and the longer ones for the down holes.)

04. MONITOR MOUNT

1. Monitor pedestal could be attached to stand, vent, or windshield as your requirements.

There are 3 kinds of mounting brackets accordingly.



Stand mount



Vent mount



Suction cup mount

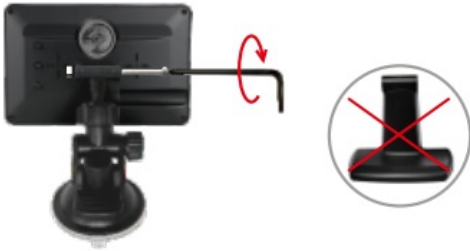


2. How to mount the brackets:

1) If using the factory default stand mount Stick on the dash board: Choose and clean a right place on the dash board, tear the paper of the monitor stand sticky tape, put and press tight the stand mount on the dash board.



2) If using the suction cup mount:
Use suction cup mount to replace the default stand via screwdriver.



Choose a right place on the windshield, and mount the suction cup mount on the windshield. With the suction lever in the released position, press the suction cup against the windshield. Press the suction lever toward the suction cup to lock the mount. To adjust the angle of monitor, loosen the collar on the ball joint, tighten in the desired position again.



3) The monitor can be mounted on the air outlet of the air conditioner in the car, allowing drivers to share the mobile phone bracket, and can avoid traffic violations (some country traffic laws do not allow the windshield or the center console to be installed anything to block the driver's view sight).

Please follow the steps:

(1) Make sure the cross position of the threaded base is correctly inserted into the cross groove of the monitor



1. the cross groove of the monitor
2. the cross position of the threaded base

(2) Use L-shaped screwdriver to tighten the vent screw



(3) Insert the ball into the nut



1. ball

2. nut

3. vent mount

(4) Press the vent mount ball inside the threaded base forcibly



(5) Rotate the nut and tighten it clockwise



(6) By lifting up and down, the clamp can clamp or loosen the vent



3. Connect the monitor and car ignition lighter hole with power cord.

05. Camera Angle Adjustment

1. Please vibrate the camera, power the monitor, touch the **Touch-Sensor** on the monitor to show the rear image situation of car, then adjust the camera angle accordingly to the most suitable position.



ADJUSTABLE ANGLE FOR FLEXIBILITY

adjustable range **114°**

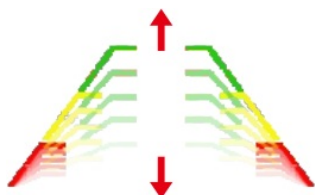
When rotating the camera:

Please hold the license plate holder with one hand, and rotate up or down the camera with the other hand to make the best Angle.

2. Parking Guideline Position Adjustment

The parking guideline position can be adjusted up or down, to mark the image area more realistic. There are 5 levels for choice.

For detailed operation methods, please refer to page **P12**.



5 levels of adjustment

06. OPERATION

Using the device WSU43+

1. Switch the DC power port with car ignition, the monitor will start work accordingly after touching the **Touch-Sensor**, the video signal will be sent from camera and will be displayed on the monitor.
2. If you want to see the backup image when driving your car, just touch the **Touch-Sensor** on the top of monitor.



1. Touch for rearview

3. When the vehicle is shut off, power is removed from the monitor and the monitor will shut off automatically, and the camera will stop work.

Note:

* If you want the Backup Camera WSU43+ to keep working after the setting time of image-display(for example, you cannot finish reversing your vehicle during the first setting time), you have to touch the **Touch-Sensor** once again.

* After you have been staying inside vehicle quietly (eg. sleeping) with vehicle engine stopping, you want to see the backup image but only put your vehicle key on the ACC-ON position (no starting the engine), there is no image on the monitor after touching the **Touch-Sensor**. So you have to give the vehicle a light vibration (such as re-open and shut car door, or tap somewhere lightly), then touch the **Touch-Sensor** to start work.

07. BUTTON & SETTING

Function of the monitor buttons

1. **Middle button**—[MENU/OK]:

Short Press to enter monitor menu setting.

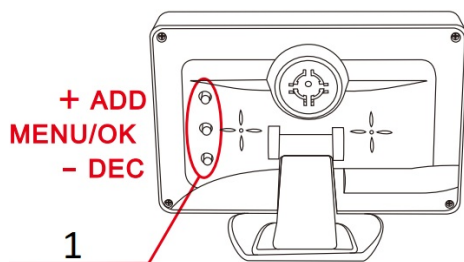
Long Press (press and hold for 3 seconds) to confirm the chosen item in the menu setting interface.

2. **+ button**—[ADD]:

Short Press to change/add parameter value at the menu setting interface.

3. **- button**—[DEC]:

Short Press to change/decrease parameter value at the menu setting interface.

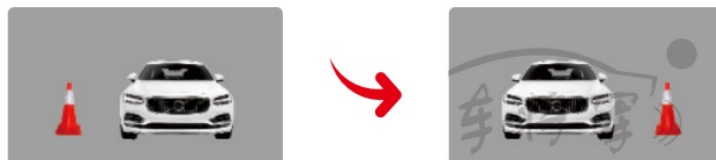


1. BUTTONS

While the monitor is showing the rearview image again, short press [MENU/OK] to enter the main menu interface, select the “Image Mirror” icon and long press [MENU/OK], to set upwards or downwards image. After setting, short press it twice again continuously to exit the setting.

It is best to have a video image displayed when making this selection.

(**Short Press** means press and hold 1 second, and **Long Press** means 3 seconds).



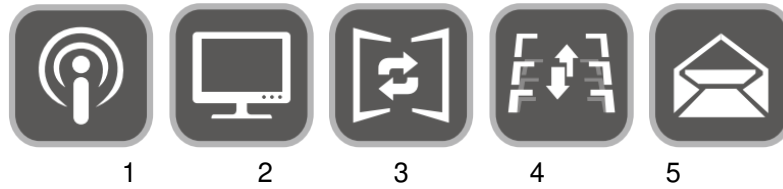
Only Short Press – button [DEC] to switch the Parking guide Lines display modes (Display or No display)!








Menu Operations:

1. Main Menu

While the monitor is showing the rear image, short press the middle button [MENU/OK] to enter the main menu interface, and 5 options are available (Pairing, Image Parameters, Image Mirror, Parking Guideline Adjustment, Software Information).



1. Pairing
2. Image Parameter
3. Image Mirror
4. Parking Guideline Position Adjustment
5. Software Information

					
M e a n i n g	Pairing	Image Parameter	Image Mirror	Parking Guideline Position A djustment	Software Information
O p e r a t i o n	Default setting, no need to opera te again.	To adjust Brightness Contrast, Color. Operation details as Image Parame ter info.	Set Upwards/Downw ards or Original/Mirro r Image. Operation d etails as Image Mirror contents.	The parking guidelines can b e adjusted up and down as n eeded. Operation details as Parking Guideline Position A djust info.	Select “Software Info ”, press [ADD] or [D EC] button to display software version info rmation.

2. Image Parameter

While the monitor is showing the rear image, short press the middle button [MENU/OK] to enter the main menu interface. From the 3 options.

Select Image Parameter, long press the [MENU/OK] button again, 3 Images(Brightness/ Contrast/ Color) setting interface are shown below:



Brightness



Contrast



Color

1) Brightness setting

Select Brightness icon, press [+ADD] or [- DEC] button to adjust the brightness as shown below:



10

2) Contract setting

Select Contract icon, press [+ADD] or [- DEC] button to adjust the contract as shown below:



10

3) Color setting

Select Color icon, press [+ADD] or [- DEC] button to adjust the color as shown below:



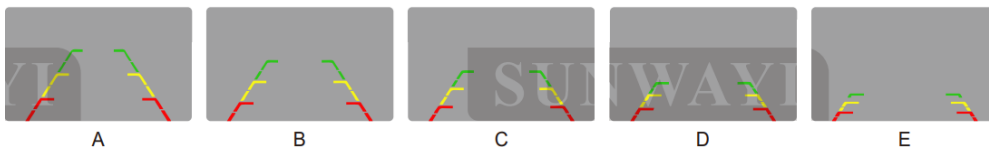
10

3. Image Mirror

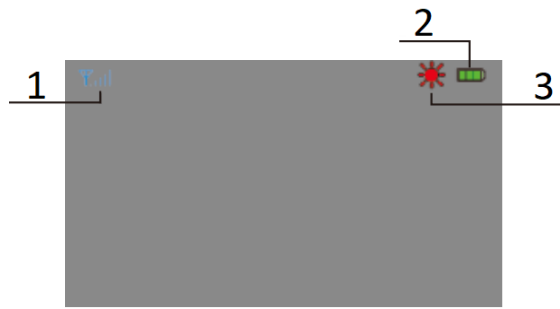
Select the “Image Mirror” icon and long press the middle button [MENU/OK] to enter the mirror setting interface, shod press [+ADD] or [- DEC] button, to set rightwards or leftwards image. After setting, short press [MENU/OK] twice continuously to exit the setting, the image setting will be saved for future use.

4. Parking Guideline Position Adjustment




Select the “Parking Guide Position Adjustment” icon, then long press the middle button [MENU / OK] to enter the setting interface, short press the [+ADD] or [- DEC] button to choose the most suitable one from 5 levels, then short press [MENU / OK] twice continuously to exit the setting.



08. INTERFACE ICON & Meaning



1. Signal strength
2. Camera battery capacity
3. Solar charging

 Signal strength
  Solar charging
  Camera battery capacity



1. Low Battery Prompt:

When the built-in battery power is going to be lower enough because of using up, you have to charge the battery by DC to USB cord. Otherwise, the camera will not work, and the monitor cannot connect it.

09. INFORMATION

Battery Icon is on the top right corner of the screen, indicates the relative capacity of the built-in lithium battery of the camera when a video image is present.

Signal strength of the received image is on the top left corner when a video image is present.

Red Indicator Light

When the monitor is powered on and still stay standby mode, the Red indicator Light doesn't work. When touching **Touch-Sensor**, the Light will blink quickly. When the monitor works, the light will extinguish.

Wireless Camera

The Camera & Video transmitter are built-inside the **WSU43+** device, and is equipped with the built-in rechargeable lithium battery, which is connected with the solar panel.

When the monitor is turned on, work command is sent to the camera, upon receive this signal, the camera will work from standby mode at once, and send image video to the monitor for the setting time.

DC to USB charging cable is provided to charge the battery initially prior to mounting on your vehicle, as well as to recharge if needed.

10. SPECIFICATION

CAMERA

Operational Current(when transmitting): <300mA

Sleeping Current: <0.06mA

Pixels: 640×480

View Angle: Horizontal Angle 135° (V90° / D165°)

Image Sensor: CMOS

Image Quality: Max 25 fps

Battery Capacity: 2100mAh

Camera Assembly: IP 67

TRANSMITTER

Frequency: 2400 ~ 2485.5 MHz

Effective Transmission Distance 57.5ft (17.5m) Max. (Installed in vehicles for test)

Working Temperature: 14° ~ 140°F (-10° ~ 60°C)

MONITOR

LCD Display Screen Size: 4.3 inches

Power Cord Fuse: 3A

Operation Current: <150mA

Effective Pixels: 480×272

The Setting Time of Image-Display: 45 Seconds each time

11. TROUBLE SHOOTING

◆ If the monitor doesn't turn on when power is applied:

1. Check to make sure the power source is active (if your cigarette lighter is switched with vehicle ignition, your monitor will only work when the engine is running or the key in the ON position).
2. Check to make sure the fuse and power cord are in working order.

◆ If the monitor doesn't display images within a few seconds after touching the starting button:

1. The battery in the camera may be depleted and require recharging.
2. In the process of use, there is wireless interference from outside. so if you can't turn on the camera over 10 seconds after touching, please touch the **Touch-Sensor** again to turn it on.
3. If cannot display image after the two methods speaking above, please try re-pairing:
Shortly press MENU key, long press MENU key to confirm the pairing state when it is turned on. Under normal circumstances, the pairing will take about 5 seconds, and the wireless signal will automatically reconnect, the monitor will display the rear image accordingly.

◆ If the video image is poor:

Check that the camera lens is clean from road grime, snow, or ice.

◆ If the video image does not last the setting time:

Recharge the camera battery.

◆ **If no image after touching Touch-Sensor in quiet environment (no vibration at all), such as testing BC3000 in office or laboratory.**

Vibrate the camera, touch the powered Monitor **Touch-Sensor** quickly (not over 3 minutes from vibration) to wake up the sleeping camera make it enter standby status.

* Under the actual situation of installation, test, and use in car, the environment is different totally. Little vibration must happen when open door, people touching the vehicle, even the engine work. So the camera will stay at standby status.

◆ **If the battery capacity icon on the monitor shows that the camera's battery is low,**

Check if the camera solar panels are covered with mud, water, dirt, etc. Please use soft cloth moistened with a neutral detergent solution to remove dust or stains, so as not to affect the solar power generation efficiency.

12. CARE & MAINTENANCE

Cleaning

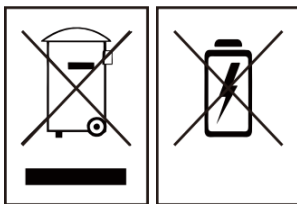
Do not use solvents or chemical materials to clean or wipe **WSU43+** camera (including the lens and all solar panels) If necessary, use a soft cloth moistened with a neutral detergent solution to remove dust or stains. Please clean the dirt or stains of the solar panel.

Fuse Replacement

1. Turn the cap on the top of the power plug counterclockwise (no tools needed).
2. Remove the cap, center pin and fuse.
3. Replace the fuse with a new 3-am fuse.
4. Replace the center pin and cap. Turn the cap clockwise.

Disposal

WSU43+ product packing is designed to provide years of service. It should be recycled or safely disposed of at a local recycling center.



13. DISCLAIMER

WSU43+ Solar Powered Wireless Backup Camera is intended to assist responsible driver, but it doesn't relieve a driver from full responsibility for operation of the vehicle. It is the driver's sole responsibility to avoid contact with any objects, animals, especially persons. By installing and/ or using **WSU43+** Solar Powered Wireless Backup Camera, you agree that you are solely responsible for the operation of your vehicle, the **WSU43+** supplier is not responsible for any property damage, personal injury, or loss of life that may result from the operation of your vehicle.

Note:

* Some USA states or local government may have regulations or laws that restrict the use of anything that might impair the clear view of a license plate. Check local laws for explanation.



WARNING: This product can expose you to chemicals including Phthalates, which is known to the State of California to cause reproductive harm.

For more information go to P65Warnings.ca.gov.

14. WARRANTY INFO

This warranty does not apply to persons who purchased this product second-hand or used.

This warranty does not include adjustments, parts and/or repairs required by circumstances beyond the control of **Supplier**, including but not limited to fire or other casualty, accident, neglect, abuse, misuse, abnormal use or battery leakage damages.

THERE ARE NO OTHER EXPRESSED WARRANTIES EXCEPT AS STATED HEREIN. AFTER THE PERIOD OF EXPRESSED WARRANTY SET FORTH HEREIN, THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES AND THOSE EXCLUDED INCLUDE THOSE OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. **Supplier** shall NOT be held liable for CONSEQUENTIAL DAMAGES resulting from any failure, defect or malfunction of this product. Some States do not allow limitations on how long an implied warranty lasts and some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

WARRANTY PROCEDURES

TO OBTAIN SERVICE UNDER THE TERMS OF THIS WARRANTY:

Please do the following :

1. Send a copy of your original sales receipt showing original purchase date, along with your mailing and shipping addresses, the model name of the product and a note describing the nature of the problem and a note describing the nature of the problem to:
2. You will receive a return authorization number via U.S Mail within 7-12 business days from the date your return request is received if it is determined that there is a basis for a replacement product. The return authorization form you receive will list the return procedures, applicable charges, if any, and the correct shipping address for the returned product.


15. SUPPORT





Made in China

Documents / Resources

	SUNWAYI WSU43+ Wireless Backup Camera [pdf] User Manual WSU43 Wireless Backup Camera, WSU43, Wireless Backup Camera, Backup Camera, Camera
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[Manuals+](#).