eRapta



eRapta HD Wireless 5" Camera Syste (AY5)
Installation and Operation Guide

Foreword

Thank you for purchasing our product! eRapta has always been committed to providing high-quality products, and bringing a good experience to our customers. It's our great honor to have your trust! This manual includes product installation guide and system operation instructions. To obtain the best performance, please read the manual carefully before installing, and keep the manual properly.

If you're experiencing the following situations:

1. Open the package, and find something broken or missing.
2. Open the package, and don't like the product.
3. Order a wrong product.
4. Need technical support.
5. Encounter problems with the camera or monitor in use.
6. Have any other problems and needs.

Please feel free e-mail to our after-sales team at any time: sales2@erapta. com

Each of your messages will be answered within 24 hours. We will help you solve your problems, and provide you with the after-sales service and technical support!

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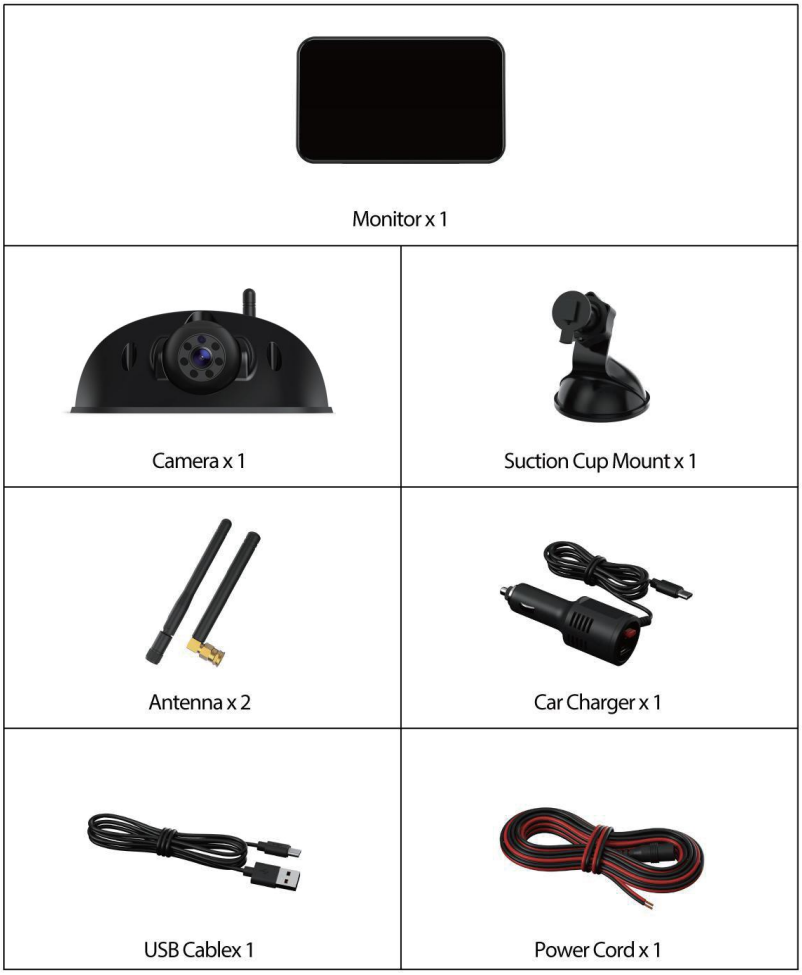
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1. Package List

Thanks for choosing eRapta AY5 wireless backup camera system! Our monitor, camera and accessories are of the high quality, so our product will serve you for years.

Please first check the external packaging to see whether there are any signs of rough handling. Also open the package, and check the items inside to see whether there are damages caused by transportation.

The image below provides an overview of all the items in the package. If any items are missing or damaged, please contact us at : sales2@erapta. com



2. Introduction and Specification

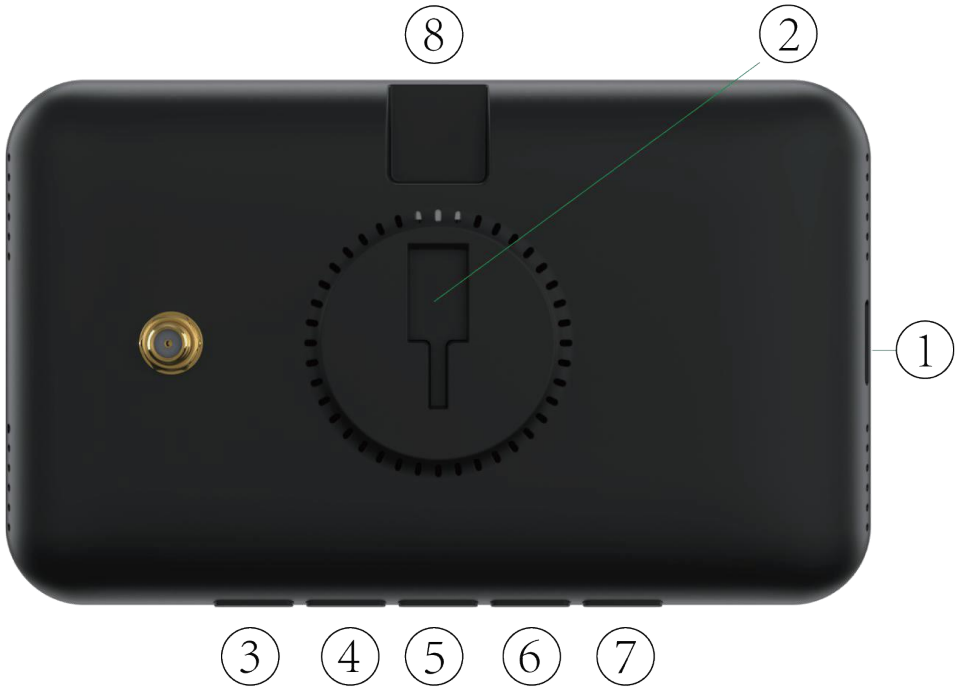
2. 1 Specification

The system is designed to observe surroundings and assist parking, including a monitor, a camera, and other accessories needed to install the system. It requires 12-24 Volt Direct Current power to work. To avoid damage caused by electricity shock or improper installation, we recommend a qualified and experienced engineer install the system for you.

2. 2 Introduction to Camera

The lens of this camera is adjustable. You can adjust the lens up and down/left and right to obtain the view you want. There are five holes on the bottom of the camera, which are used to mount the camera on vehicle. See **Part3 - Installation Guide** for specific installation instructions.

2. 3 Introduction to Monitor



1. SD Card Access Port	2. Suction Cup Mount Slot
3. POWER Button	4. OK Button
5. DOWN/Switch CAM Button	6. MENU Button
7. UP/Switch CAM Button	8. Power Cord Connector

2. 3. 1 SD Card Access Port

The SD card slot is on the right side of the monitor. The system supports 16G-128G micro SD card. You just need to insert an SD card, and turn on recording. The videos will be automatically saved to the SD card.

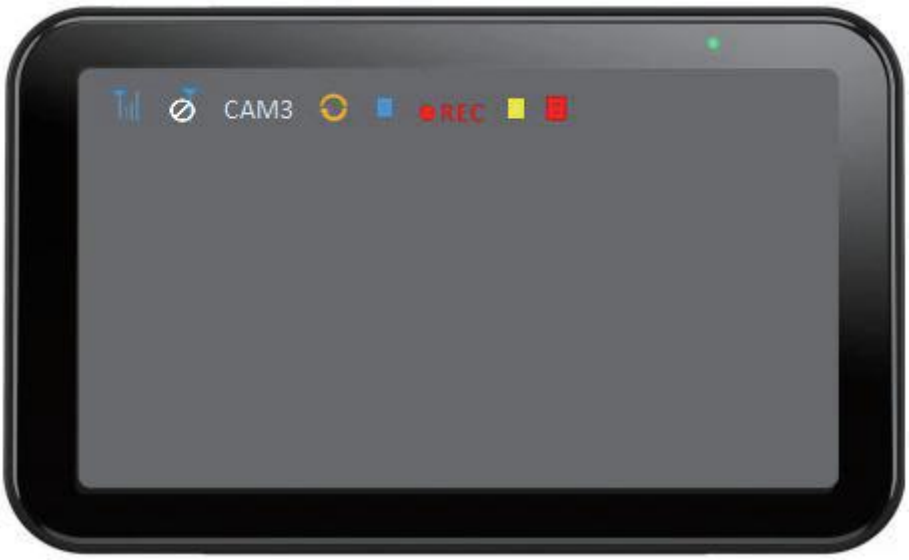
Due to the small size of a micro SD card, it may be a little difficult to insert or pull out the card. You can use a hard object to press the card inward the card slot (such as your fingernail).

*Please note that you will hear a “click” after inserting the SD card, which means the card is fully inserted. If the SD card pops up, the card is not inserted successfully. Please insert the card again. If you want to pull out the SD card, please press the card inward the card slot, and the card will pop up after a “click”.
*If the icon on the monitor keeps showing “SD card error”, please try to format your SD card with a card reader on your computer.

2. 3. 2 Suction Cup Mount Slot

The suction cup mount slot is on the back of the monitor. It is used to mount the suction cup mount to the monitor. See **Part3 - Installation Guide** for specific installation instructions.

2. 3. 3 Icons on the screen



(1) : This camera has signal.

(2) : This camera doesn't have signal.

(3) 

: Indicates which camera (channel) is displayed on the screen.

(4) : Rewrite has been turned on.

(5) : This camera is not recording.

(6) 

: This camera is recording.

(7) : SD card has been inserted.

(8) : SD card error.

2. 3. 4 Buttons on the Monitor

There are five buttons on the top of the monitor. From left to right, they are POWER, OK, DOWN/Switch CAM, MENU, UP/Switch. Please read the operation instructions carefully to learn their functions. In case the instructions are difficult to understand, we have prepared several operation examples for you. You can follow these examples to get familiar with the buttons.

(1) POWER Button

After powering up the system, press this button to turn on/off the monitor. When the monitor is turned on, the light indicator on the right top of the monitor will light up.

(2) MENU Button

- In the main interface, press this button to access menu page. There are eight panels in the menu (Pairing / Picture / Mirror-Flip / Mode / Cam Setup / System / Play / Record).
- In the menu page or eight panels, pressing this button will return to parent page.

*Please note that you can access menu page only when the main interface is displaying full screen. If the main interface is displaying split screen, the MENU button won't respond to you. Please first press UP/DOWN buttons to switch to full screen, and then press MENU button.

Example1. If you're in the main interface now, and the main interface is showing full screen, pressing MENU button will take you to the menu page.

Example2. If you're in the menu page now, pressing MENU button will take you to the parent page - main interface.

Example3. If you're in "System" panel now, pressing MENU button will take you to the parent page - menu page.

(3) DOWN/Switch CAM Button

- In the main interface, press this button to switch the camera displayed on the screen.
- In the menu page or eight panels, press this button to move the cursor through different options.
- After selecting a sub-panel, press this button to decrease its parameter.

(4) UP/Switch CAM Button

- In the main interface, press this button to switch the camera displayed on the

screen.

- In the menu page or eight panels, press this button to move the cursor through different options.
- After selecting a sub-panel, press this button to increase its parameter.

Example1. In the menu page, press UP/DOWN buttons. The cursor will move to other options.

Example2. In the “Picture” panel - “Brightness” sub-panel, press UP button to increase the parameter, or press DOWN button to decrease the parameter (here it means raising/reducing brightness).

(5) OK Button

- In the main interface, press this button to start/stop recording.
- In the menu page or eight panels, press this button to confirm your selection.

Example1. You are in the main interface, and you want to mirror CAM4.

Steps: Press UP/DOWN buttons to switch to the full screen of CAM4 - press MENU button to access menu page - press UP button twice to move the cursor to “MIR-FLIP” option - press OK button to confirm your selection and enter this panel - press UP button once to move the cursor to “Mirror” sub-panel, and CAM4 will be mirrored - Press MENU button once to return to menu page, or press twice to return to main interface.

Example2. You are in the main interface, and you want to turn om/off CAM4.

Steps: First make sure the main interface is displaying full screen - press MENU button to access menu page - press UP button for four times to move the cursor to “Cam-Setup” option - press OK to confirm your selection and enter this panel - press UP/DOWN to move the cursor to “CAM4” sub-panel - press OK to confirm - press UP/DOWN to adjust the parameter (here it means turning on/off CAM4) - press OK again to confirm - press MENU button to parent page.

After you turn off CAM4, when you press UP/DOWN to switch the camera displayed on the screen, CAM4 will no longer be displayed.

3. Installation Guide

3.1 Make an Installation Plan

Before installation, we recommend you spend a little time testing the system. This can help you confirm whether the system works normally before you install it on your vehicle.

You can use a 12-24V power supply to power up the monitor and camera. Our camera has been paired with the monitor before they leave our factory. If you want to pair the camera with another channel, please see **4.1 PAIRING** for detailed pairing notes and methods.

Based on our experience, we recommend you follow the sequence below to finish installation:

(1) Install monitor

(2) Install camera

(3) Connect monitor and camera to power supply

(4) Adjust the lens of camera according to your needs

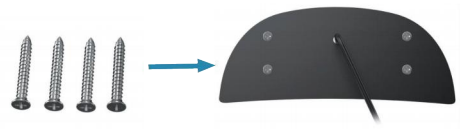
3.2 Monitor Installation

(1) Install an antenna on monitor. The bottom of the monitor antenna is golden.	(2) Align the suction cup mount with the slot on the back of monitor.
	
(3) Put the suction cup mount into the slot.	(4) Push the suction cup mount upward into the vertical slot.

	
(5) Remove suction cup mount: Pinch hard on the two areas circled. Push the mount downward out of the slot.	
	

3. 3 Camera Installation

(1) Install an antenna on camera. The bottom of the monitor antenna is black.	(2) Drill five holes on your vehicle for mounting the camera. (If you already have five same holes on your vehicle, you don't need to do this.)
	
(3) Connect the cord coming out of the camera to the power cord with black and red wires.	(4) Mount the camera on your vehicle with four screws.

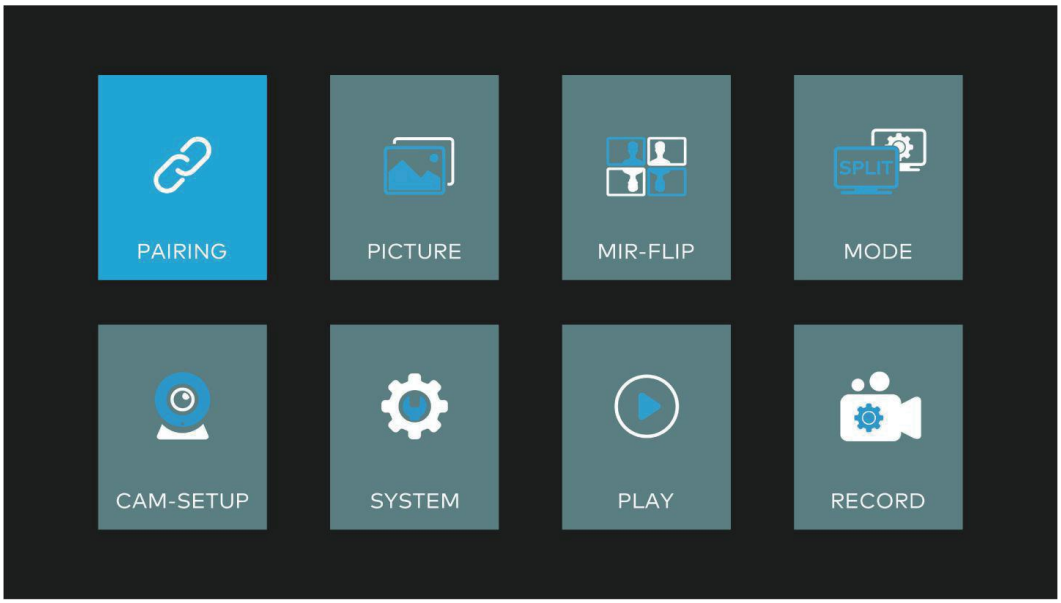
3. 4 Power up Monitor and Camera

Connect the power cord of camera to a 12-24V power supply. The red wire should be connected to positive pole, and black wire to negative pole.	There are two ways to power up the monitor: connect the USB to a port in your vehicle, or plug the cigarette lighter adapter into the socket.
	

4. System Operation

This part describes the functions of eight panels in menu page. You can access the menu page and adjust settings by buttons on the monitor. Please note that you can't access menu page when the main interface is split screen.

When you move the cursor to a panel or a sub-panel, its icon will become yellow. You can know where your cursor is by icons' colors.



Panels and Sub-Panels

Panels	Sub-Panels
PAIRING	
PICTURE	Brightness, Contrast, Hue
MIR-FLIP	Normal, Mirror, Flip, Mir-Flip
MODE	Split1-2/1-3/1-4/2-3/2-4/3-4, Quad, H-Split, Off
CAM-SETUP	Cam1 on/off, Cam2 on/off, Cam3 on/off, Cam4 on/off, Scantime, Autoscan

SYSTEM	Time, Language, Color-Sys, P-Line, Delaytime
PLAY	
RECORD	Rewrite, Format

4. 1 PAIRING

Before leaving our factory, the camera has already been paired with the monitor. But you need to re-pair the camera if it lost paired, or you want the camera shown on another channel. We recommend you finish pairing before installing the system on your vehicle, because the monitor and camera needs to be within 3 feet in pairing.

Pairing Notes:

*Make sure the camera and monitor has been installed antennas.

*Make sure the channel (CAM1/2/3/4) that you want to pair the camera with has been turned on through Menu - Cam Setup.

*Keep the camera and monitor within 3 feet.

*Only power up one camera and pair it at a time in case of signal interference.

*If you want to re-pair a camera with another channel, please first power off the camera and monitor. Then pair the camera according to the pairing method.

Pairing Methods:

(1) Power up the monitor.

(2) Press UP/DOWN button to switch to a channel displayed in full screen.

(3) Press MENU button to access menu page, and press OK button to select 'Pairing' option and start pairing.

(4) Power up the camera.

(5) The monitor will count down automatically and pair with the camera.

4. 2 PICTURE

- Adjust brightness, contrast and hue of the screen in this panel.

Steps: When the main interface displays full screen, press MENU button to access menu page - press UP button once to move the cursor to “Picture” option - press OK button to confirm your selection and enter this panel - press UP/DOWN buttons to choose from three sub-panels - press OK button to confirm selecting a sub-panel - press UP/DOWN to increase/decrease the parameter - press OK button again to confirm and exit this sub-panel - press UP/DOWN buttons to choose from other options, or press MENU to return to parent page.

4. 3 MIR-FLIP

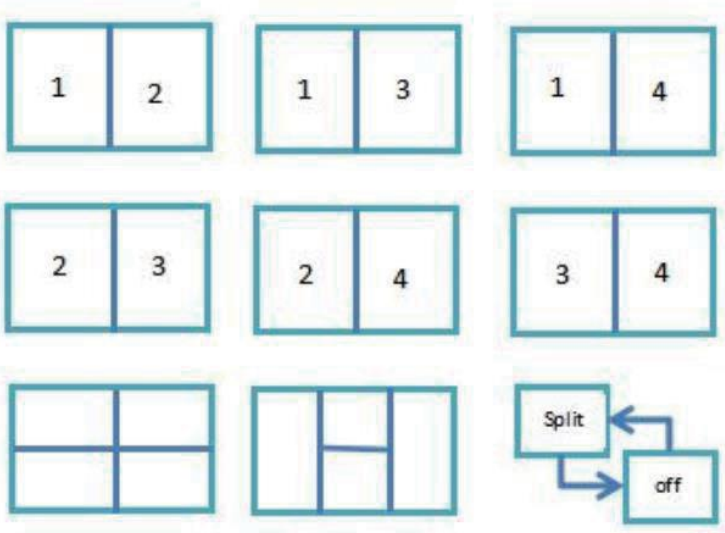
- The cameras can be individually set to be normal, mirrored, flipped, or mirror-flipped.

Steps: When the main interface displays full screen, press MENU button to access menu page - press UP button twice to move the cursor to “MIR-FLIP” option - press OK button to confirm and enter this panel - press UP/DOWN buttons to choose from four sub-panels - when the cursor moves to a sub-panel, the setting is completed , press MENU to return to parent page.

4. 4 MODE

- Set split screen mode in this panel. There are eight split screen modes. You can also choose to turn off split screen.

Steps: When the main interface displays full screen, press MENU button to access menu page - press UP button for three times to move the cursor to “MODE” option - press OK button to confirm and enter this panel - press UP/DOWN buttons to choose from four sub-panels - when the cursor moves to a sub-panel, the setting is completed , press MENU to return to parent page.



4. 5 CAM-SETUP

- In this panel, you can turn on/off CAM1/2/3/4, start/stop autoscan, and set scantime.

*If you want to view a camera, you need to make sure its channel has been turned on through “MENU - Cam Setup”. See **2.3.3 (5) OK Button** for detailed operation steps.

*If autoscan is turned on, the channels will be switched automatically one after another, but the screen won’t automatically switch to split screen.

*If you set the parameter of scantime to 0, the frequency of autoscan is about once every 5 seconds. If the parameter is 1, the frequency is about once every 10 seconds. For every 1 increase in the parameter, the time increases 5 seconds.

Scantime setting steps: When the main interface displays full screen, press MENU to access menu page - press UP/DOWN for four times to move the cursor to “CAM-Setup” option - press OK to enter this panel - press UP/DOWN to move the cursor to “Scantime” sub-panel - press OK to enter this sub-panel - press UP/DOWN to adjust the parameter - press OK again to confirm - press MENU button to parent page.

4.6 SYSTEM

- Set time, language, color-sys, P-line, delaytime in this panel.

*Choose NTSC and PAL according to your needs in “Color-sys” sub-panel.

*Choose on which channel you want the parking lines to appear. If you turn off parking lines in CAM1, CAM1 will not show parking lines; if you turn on parking lines in CAM4, CAM4 will show parking lines.

*Delaytime refers to time for turning on the system.

Time setting steps: After enter “System” panel, press OK to select “Time” sub-panel - press UP/DOWN to adjust year, and press OK to confirm - press UP/DOWN to adjust month, and press OK to confirm - day, hour, minute and seconds are also set in these steps.

P-line setting steps: If you want parking lines to appear on a channel, you can first press UP/DOWN to switch to this channel’s full screen - access menu page, enter “System” panel - press OK to enter “P-line” sub-panel - press UP/DOWN to adjust the parameter (here it means turning on/off parking lines) - press OK again to confirm - press MENU to return to parent page.

4.7 PLAY

- Play back recorded videos directly on the monitor, or on computer via an SD card reader.

*The system will limit your video to 3 minutes. This means that even if you keep recording, the video will be automatically divided into several 3-minute short videos by the system.

*The naming rule of videos: Date - the time that recording starts - the channel that is recorded. Please note that the video naming is based on the time setting of your system. If your system time is not the actual time, the video will be named by the system time, not actual time. For example, there’s a video named ‘V220219-170129-2’. It means the video starts recording at system time 17:01:29,

Feb 19, 2022. The recorded channel is CAM2.

Steps: Access menu page - access “PLAY” panel - press OK to enter “100SONIX”.

4.8 RECORD

- Turn on/off rewrite and format in this panel.

*In the main interface, press OK button to start/stop recording.

*The system will only record what is displayed on the screen. But if a channel shows ‘No Signal’, the system will not record this channel even if it is displayed on the screen.

*Accessing menu page will stop recording.

Rewrite: When the SD card is full, the system will overwrite previous videos automatically. If you turn on this function, please remember to save the videos you need in time to avoid them being overwritten.

Format: This will delete all videos in SD card. So please think it over before using this function.

5. FAQ

(1) Why can't the screen show four cameras at the same time even though I've pressed UP/DOWN buttons?

- Please first make sure the split screen mode you set is quad split screen through "Menu - mode".

(2) Why doesn't the MENU button work?

- Maybe the screen is in split screen mode. The MENU button will only work when the main interface displays full screen. Please first press UP/DOWN buttons to switch to full screen.

(3) Why does the monitor automatically switch between the channels when I'm not pressing any buttons?

- Turn off autoscan through "MENU- Cam setup- Autoscan".

(4) What can I do if my camera gets water inside the lens?

- Please contact us at: sales2@erapta. com. We will help you.

(5) How can I turn on/off the infrared lights?

- The infrared lights can't be turned on/off manually. When the surrounding is dark, the infrared lights will turn on automatically; when the surrounding is bright, the infrared lights will turn off.

(6) What type of SD card should I use?

- The system supports 16G-128G micro SD card.

(7) The icon on the screen shows SD card error (SD card icon is red). What can I do?

- Pull out the SD card, and format it on your computer with an SD card reader.

(8) Why does the monitor not power up?

- Voltage is not ranging from 12V to 24V.
- Vehicle engine doesn't start. Turn on vehicle engine.
- The cigarette lighter adapter is not turned on. Press the button to turn it on.
- The wiring is incorrect. Check the wiring.
- Monitor is not turned on. Press POWER button to turn on the monitor.

(9) Why does the camera not power up?

- Voltage is not ranging from 12V to 24V.
- Vehicle engine doesn't start. Turn on vehicle engine.
- The wiring is incorrect. Check the wiring.
- After power up the camera, cover its lens with your hands, and see whether the infrared lights inside will turn red. If not, the camera is not powered up. Please change a power supply and try again.

(10) Why does the screen show 'No Signal'?

- Check whether the camera is powered up.
- Re-pair the camera with the monitor. See **4.1 Pairing** for pairing notes and methods.
- Contact us for extension antenna bases.

(11) Why is the screen blurred?

- Check whether the lens and the screen are dirty. Wipe them gently.
- Check whether the camera has water inside the lens. If yes, please contact us for a replacement.
- If the problem still exists, please contact us in time.

6. Warranty

eRapta provides 24-hour online after-sales service, 2-year warranty and lifetime technical support, so our product will last for many years. We promise that you will receive the best after-sales service from us. So if you have any problems or needs, instead of returning the product or leaving negative contents on the product page, please do not hesitate to contact us at sales2@erapta. com. Each of your messages will be replied within 24 hours. We will try our best to help you until your problem is solved.