



NUOENX HD 10" Wireless Backup Camera System (W102)

Installation and Operation Instructions

PLEASE NOTE:

Thank you for your trust in NUOENX and it's our pleasure to have you to purchased our product! NUOENX is committed to providing the high quality products and the pleasant shopping experience.

- Before operating this backup camera system, please read this instructions completely.
- We provide 24-hours customer service and technical support. If you have any question or problem about this system, please contact us at this email address: Nuoenx@outlook.com
- Please keep this instructions or write down our email, so you can contact us in time once you have any problems.
- If you encounter the problems listed below, please feel free to contact us and we will provide you with the best solution.
 1. When you open the package and find that the product is defective or some parts are missing;
 2. You don't like it when you received the product;
 3. Need technical support to install the system;
 4. Camera or monitor is interrupted during use;
 5. Order a wrong item;
 6. Any other after-sales problems you need help with.

Here is our 24h Customer Service Email:

Nuoenx@outlook.com

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1 WHATS IN THE PACKAGE

The NUOENX backup camera system will work for you with the years of reliable service. Our monitors, cameras and cables are of the highest quality. Please check and ensure there is no damage on the shipping box when you received it. Please unpack the box carefully and inspect each item to ensure that the product you received has not been damaged in transit. The picture below shows all the package content of this system for your reference. If any parts are damaged or missing, please contact us via Nuoenx@outlook.com, we will help you to resolve it ASAP.

			
Monitor	Rear Camera*2		SD Card
			
Car Charger	Antenna*4	Power Cord*3	U-shaped Bracket
			
Installation Kit		Fan-shaped Bracket	

2 Introduction and Specifications

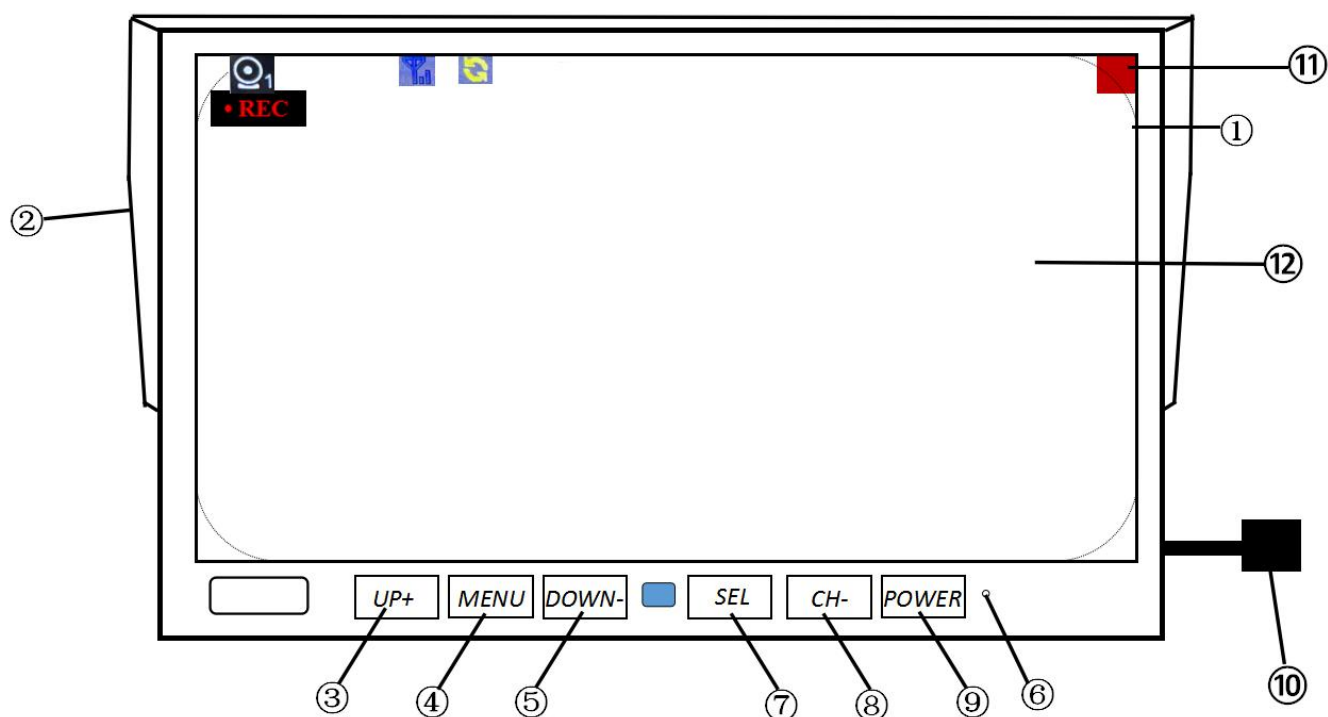
The camera system is designed to monitor the road condition and ensures safety for your reversing and driving.

The monitor is required to be connected to a 12-24 Volt Direct Current power source (Current limited 1~2A).

To avoid an electric shock injury or damage to the system, we suggest that you find a trained professional technician to perform this critical wiring connection.

3 SYSTEM DESCRIPTION

3.1 Monitor



① SD Card Placement	⑤ Function Decrease Button	⑨ Power ON/OFF Button
② Sunshade(Not Removable)	⑥ Power Indicator Light	⑩ Monitor Harness Connector
③ Function Increase Button	⑦ SEL Button (Start Recording)	⑪ Red Tag
④ Menu Button	⑧ Camera/Channel Switch Button	⑫ Red Tag

3.1.1 Red Tag

There is a protective cover on the screen, it will come off if you pull on the red tag.

3.1.2 SD Card Placement

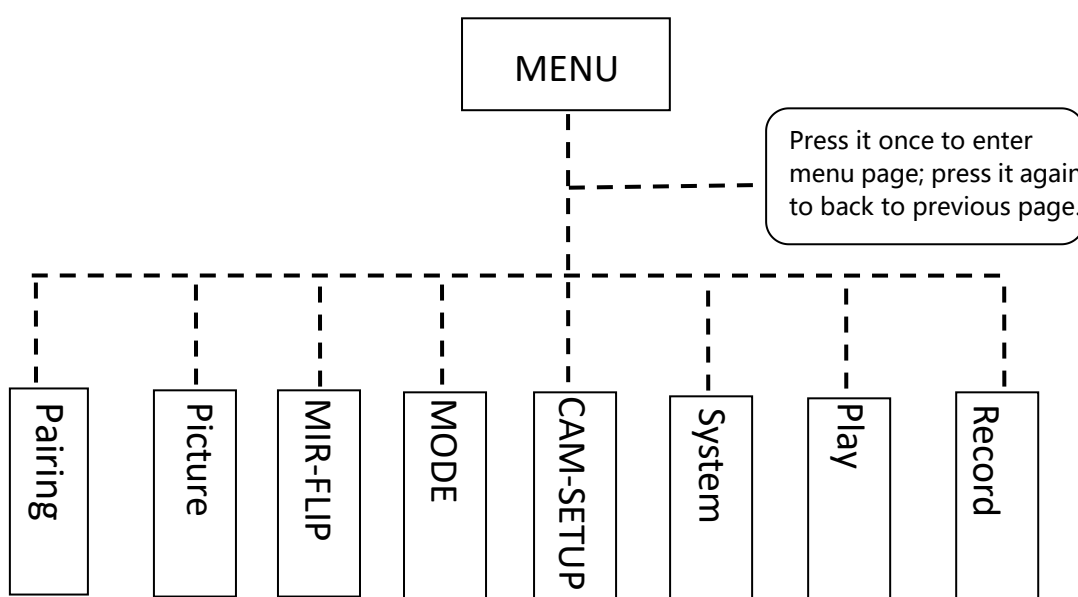
The SD card is placed at the top right side of the monitor. It is the primary storage device of the monitor and is used to save camera video images. The memory capacity of the SD card is 32GB.

3.1.3 Monitor Buttons

(1) **MENU** : Monitor System Menu Button

Press the (MENU) button to enter menu settings page, press it again can exit and back to previous page.

NOTE: If the screen is in split screen mode, the function of PARING, PICTURE and MIR-FLIP on the menu page would not work. So if you need to enter the settings of these three options, please press (CH-) button to switch the screen to full screen mode first.



(2) **UP+/DOWN-**: Function Increase/Decrease Button

- ① On the menu page, press it to select menu options.
- ② Adjust parking guide line (*Before adjusting, please make sure the screen is in full screen mode):
 - Press the (UP+) button once, on the bottom of the screen will show “H” for height, in this case we can adjust the height of the lines by pressing (DOWN-) button.
 - Press the (UP+) button twice, the screen will show “W”, which can adjust the wide of lines by pressing (DOWN-) button.
 - When we press the (UP+) button 3 times, it will show “M”, it can be moved from left to right by pressing (DOWN-) button.

(3) **SEL**: SEL Button (Start Recording)

Press this button to start recording, you can see “” on the top left of the screen. (Please make sure the SD card is inserted into the back of the monitor before the system start recording.)

For the options of menu, you can press this button to confirm selection. For example, if you would like to adjust brightness, you will need to:

- ① Press (CH-) button to switch the screen to full screen mode on monitor
- ② Press (MENU) button to enter Menu page
- ③ Press (UP+) / (DOWN-) button to select “Picture” function, and then press (SEL) button to enter it
- ④ Press (UP+) / (DOWN-) button to select the “Brightness” status, and then Press (SEL) button to confirm the selection
- ⑤ Press (UP+) / (DOWN-) button to adjust the brightness

⑥ Press (SEL) button to confirm the selection.

⑦ Press (MENU) button can back to the previous page

(* Only the screen is in full screen mode, you can use the (SEL) button to enter the status of PAIRING / PICTURE / MIR-FLIP on menu page. If you need to enter the settings of these three options, please press (CH-) button to switch the screen to full screen mode first)

(4) **CH-**: Camera/Channel Switch Button

There are four channels on the screen, please press this button to change the camera channel or switch the screen to full / split screen mode.

To pair a camera with a specific channel on the screen, please change the camera channel to Cam #1/2/3/4 on the monitor, then follow the below

5.2.1 pairing method to pair the system.

*Before switching the image from cam1 to cam4, please choose the screen mode via MODE on the menu page to turn on the camera channels.

(5) **POWER-**: Power ON/OFF Button

Short press this button and the monitor will be come on. Press it again, the monitor will be turned off.

3.1.4 Main Screen Interface

(1)  **CAM #1/2/3/4**: The channel number is shown on the top left of the screen.

(2)  **REC** : The REC will shown in red in the top left of the screen while recording video. If there is a problem with the recording, please try to format the SD Card.

(3)  **Rewrite** : The screen will show this sign when the rewrite function is turned on. It means that the system will automatically

overwrite the previous videos when the SD card is full.

(4)  SD CARD: After inserting the SD card, this sign will be shown on the top left of the screen. If the system cannot recognize the SD card, the screen will prompt **NO CARD** when you press (SEL) button to start recording. For this issue, please try to reinsert or format the SD card.

4 INSTALL GUIDE

The system is assembled with simple tools without difficulty.

4.1 System Power Testing

Please power and test the system before installation. (Refer to the power method of 4.4 below to power the monitor and camera)

4.1.1 Suggested Sequence for Installation

Please follow below installation sequence to install the system:

- Assemble Installation Tools
- Install the Monitor
- Connect the Power Supply
- Connect the Red&Black Wire(SEL)
- Install the Cables
- Install the Cameras
- Test and Calibrate the System
- Adjust the Camera Views
- Secure the Camera Cables

4.2 Monitor Installation

There has a metal U-bracket and a Fan-shaped Bracket for the monitor. You could choose one of it to mount on the monitor according to your needs.

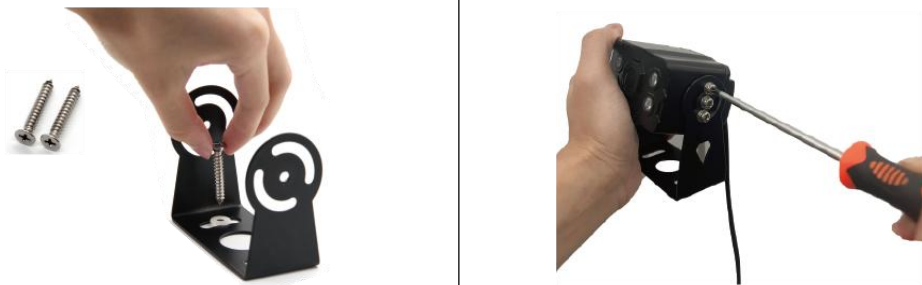
◆ U-shaped Bracket Installation:

		
1. Take out all the kits	2. Lay the screen face up, put the bracket on the fixed directions as the white dotted lines shows	3. Screw the knob bolts, then you can fix or adjust the screen angle

◆ Fan-shaped Bracket Installation:



4.3 Camera Installation

1. Install the Rear Cameras		
		
2. Install the Side Cameras		
The side camera base can be disassembled by removing the four housing screws using a micro Phillips screwdriver. The base can then be secured in the desired position with screws or bolts. In this step, you can adjust the lens.		
3. Adjust the angle of the side camera		
Unscrew the camera's screws	open the camera's base	Loosen the screws, rotate the camera's lens to get the angle you want, and then tighten the screws.
		

4.4 Power Monitor & Camera

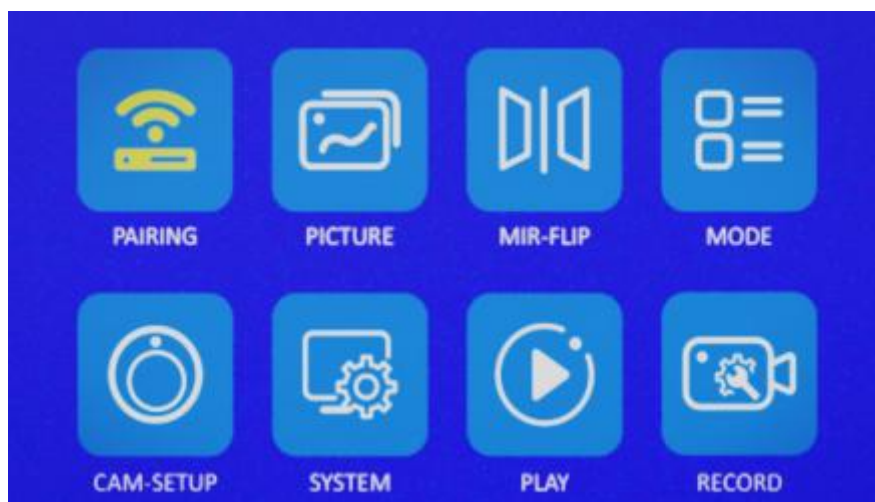
① Mount the antennas to cameras and monitor	② Connect the power cord or car charger to camera and monitor	③ Power the camera and monitor
		Use Car Chager 
		Use Power Cord 
		Use Power Cord 

5 SYSTEM OPERATION

The below picture is the main interface of the monitor, the operation is very simple.

5.1 Menu Description

- There are eight menu options on the main interface.
- The selected menu item is highlighted in yellow.
- When the screen is in split screen mode, pressing the (SEL) button will not enter the settings page of Pairing, Picture and Mir-flip. In this case, please switch the screen to full screen mode first.
- Use the (UP+) / (DOWN-) button to select the menu options.
- Confirm the selection by pressing the (SEL) button.
- Press (MENU) button can return to the previous page.



Software Management System Main Menu and Sub-Menu

Main-menu	Sub-Menu
Paring	Pairing Start and Count Down from 20 Second
Picture	Brightness, Contrast, Hue, Saturation
Mir-flip	Normal, Mirror, Flip, Mir-flip
Mode	Single cam, Split 1&2, Split 1&2&3, Split 1&4, Quad, H-split
Cam-setup	Scantime, Autoscan
System	Time, Language, P-line
Play	Play recorded video
Record	Rewrite, Format

NOTE:

(1) Menu options of PARING, PICTURE and MIR-FLIP would not work if the screen is in split screen mode. * Please press (CH-) button to switch the screen to full screen mode before enter these three menu settings. Otherwise the settings page would not come on.

(2) There will restart recording the screen view if you switch the channel.

5.2 PAIRING Operation

Before shipped out from the factory, the camera has been paired with the monitor.

*There are 4 channels on the screen, the camera can be re-paired to specific channel according to your need. For example, if the rear camera image is shown in channel , but you would like to change it in channel , then you can re-pair the rear camera to channel .

*If the camera lost signal and shows “NO SIGNAL” on the screen, please try to Re-pair the camera and monitor.

5.2.1 Pairing Method

- * Please make sure the antennas are installed on the monitor and cameras.
 - * Keep the camera and monitor closer when pair them (within 3 feet).
- ① Please power the monitor and make sure it is on.
 - ② Please change the camera channel to cam #1/2/3/4 on the monitor by pressing (CH-) button;
 - ③ Short press (MENU) button to choose the menu and find the “PAIRING” function, and then press (SEL) button to select and enter the pairing mode.
 - ④ There will show “Pairing Start” and count down from 20 second on screen during pairing, please power the camera within this time.
 - ⑤ After that, the camera view appear and complete pairing.

5.2.2 Pairing Notes

1. Press (CH-) button to switch the screen to the full screen mode of CAM #1/2/3/4, then follow the above pairing method to pair the system.
2. When pairing the system, please connect and pair the camera one by one, and disconnect other cameras to avoid signal interference. The monitor cannot be paired with several cameras at the same time, please pair them separately.
3. If the camera fails to pair with the monitor, please check the wiring

and make sure the monitor and camera are powered on (please cover the light sensor on the camera, if the lights are come on, it means the camera is powered). And then please follow above steps to re-pair the system.

5.3 PICTURE Operation

- You can adjust the brightness, contrast, hue and saturation of the screen according to your needs.
- Operation Step:
 - ① Press (CH-) button to switch the screen to full screen mode
 - ② Press (MENU) button to enter Menu page
 - ③ Select the “PICTURE” status and press (SEL) button to enter it
 - ④ Select the option that needs to be adjusted, and then press (SEL) button to confirm the selection
 - ⑤ Press (UP+) / (DOWN-) button to adjust it
 - ⑥ Press (SEL) button to confirm the adjustment
 - ⑦ Press (MENU) button to back to previous page.

5.4 MIR-FLIP Operation

- You can flip the image to front view, mirror view or inverted view according to your needs. There are four options to flip the image on the monitor:

NORMAL: Normal Image for front view

MIRROR: Mirror Image for rear view

FLIP: Inverted Normal Image

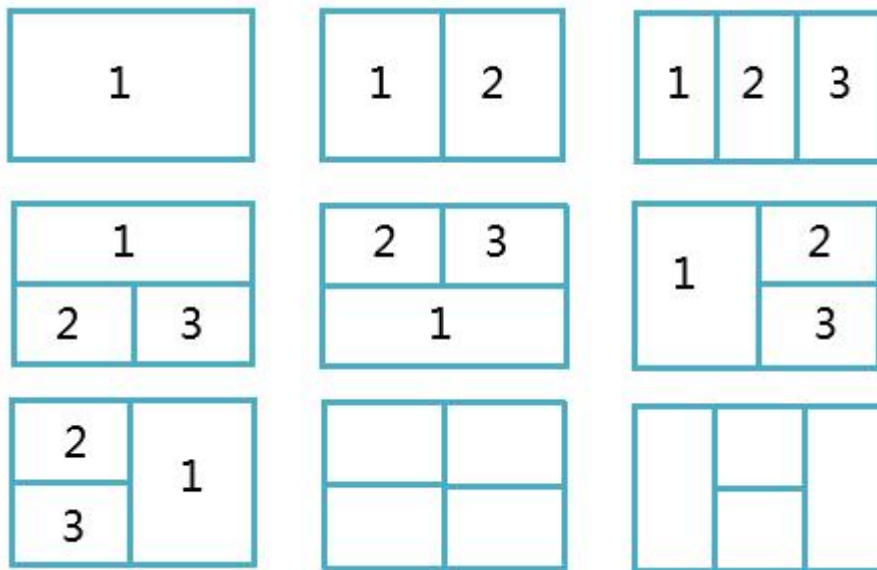
MIR-FLIP: Inverted Mirror Image

- Operation Step:
 - ① Press the (MENU) button and select the MIR-FLIP in full screen mode, then press (SEL) button to enter the setup page.

- ② Flip the image by pressing (UP+) or (DOWN-).
- ③ Press (SEL) button to confirm the adjustment.

5.5 MODE Operation

- Please follow below steps to change the split screen mode on monitor:
- ① Press the (MENU) button and choose the “MODE” on the menu page, and then press (SEL) button to enter the setup page.
 - ② Press (UP+) / (DOWN-) button to select the full/split screen mode you need.
 - ③ Press **(SEL)** button to confirm the selection.
 - ④ Press (MENU) button to back to the main menu page.



5.6 CAM-SETUP Operation

- The screen can automatically cycle through camera channels if you turn on the the AUTOSCAN function, and you could setup the SCANTIME.
- Note: If the status of AUTOSCAN are turned on, and the SCANTIME has been set, the camera view will be automatically cycle to the next

one at the set time. Normally, we don't recommended to select this function.

- Operation Step:

- ① Press the (MENU) button and choose the CAM-SETUP on the menu page, and then press (SEL) button to enter the setup page.
- ② Press (UP+) / (DOWN-) button to select the option that needs to be adjusted.
- ③ Press (SEL) to confirm the selection.
- ④ Press (UP+) / (DOWN-) button to adjust it.
- ⑤ Press (SEL) button to confirm the adjustment
- ⑥ Press (MENU) button can back to previous page.

5.7 SYSTEM Operation

- Time settings Steps:

- ① Press the (MENU) button and choose the SYSTEM on the menu page, and then press (SEL) button to enter the setup page.
- ② Press (SEL) button again to select the time status.
- ③ Press (UP+) / (DOWN-) button to adjust the date and time.
- ④ Press (SEL) button to confirm the settings.

- Language: You can switch the language of the screen as needed.
- P-LINE: If you would like to turn on/off the parking guide line on the screen, please select and enter the P-LINE status to turn on/off it. Please note that the parking guide line of different cameras need to be turned on or off separately in the corresponding full-screen mode.

5.8 PLAY Operation

- You can play the recorded videos on the monitor, or read the memory card data on other devices to play.
- Enter the PLAY status, you will see all of the recorded video.

You could press (UP+) / (DOWN-) button to select the video and press

(SEL) button to play it. While play the video, you could choose to rewind, fast-forward or pause it as needed.

* Please noted that the system cannot record or play sound.

5.9 RECORD Operation

- Memory card settings: REWRITE, FOTMAT.
- REWRITE: It will automatically overwrite the previous videos when the SD card is full. If you turn on this function, please remember to copy the video to other devices in time to avoid being overwritten.
- FOTMAT: Clear all recorded videos in the SD card.
- The monitor will only record the view displayed on the screen, it will not record all of the cameras at the same time unless the screen is in split screen mode. (*Screen recording will not start automatically, please press the (SEL) button to start and press it again to stop)

6 Menu FAQ

6.1 Q: Why is it soundless?

A: Due to sound holes will reduce the waterproof coefficient of the camera, so we didn't enable this feature.

6.2 Q: Why does the screen cycle through channels automatically?

A: Please follow below steps to turn off it:

- ① Press the (MENU) button and choose the CAM-SETUP on the menu page, and then press (SEL) button to enter the setup page.
- ② Turn off the AUTOSCAN.

6.3 Q: Why the screen is flicking?

A: It might be caused by the current, please make sure the current draw on the camera and monitor is 1-2A.

6.4 Q: Why the monitor no response while pressing the (SEL)

button on menu page?

A: Only the screen is in full screen mode, you can use the (SEL) button to enter the status of PAIRING / PICTURE / MIR-FLIP on menu page. (Please press (CH-) button to switch the screen to full screen mode before enter the settings of these three options.)

6.5 Q: How to turn on/off the Parking Guideline?

A: MENU → SYSTEM → P-LINE → ON/OFF. (Please press (CH-) button to switch the screen to full screen mode before settings the parking guide line)

6.6 Q: What is REWRITE?

A: If the rewrite is turned on, the system will automatically overwrite the original recorded video once the SD Card capacity is full.

6.7 Q: What is FORMAT?

A: If you turn it on, all recorded videos in the SD Card will be deleted.

6.8 Q: How to start to record video?

A: Short press the (SEL) button, a “**REC**” sign will appear on the top left of the screen and the monitor will start to record. Press (SEL) button again to stop record.

6.9 Q: Why is the signal unstable when I am driving?

A: There might be a Bluetooth or other electronic devices interfering with the signal. Please try to adjust the angle of the antenna and keep the antenna away from metal or electronic devices to avoid signal interference.

* If there still has a signal issue with the system after above adjustment, we would like to send you a 10ft extended antenna as attached picture for signal enhancement.

Please contact us via Nuoenx@outlook.com, we will send it to you for free.



6.10 Q: How to solve the problem of camera's water-in?

A: Please contact us for the replacement camera via
Nuoenvx@outlook.com

6.11 Q: Why there cannot enter the PLAY mode on the monitor?

A: Please try to remove the SD card and insert it again, or format the SD card.

Note: Please format the SD card before using this system.

6.12 Q: The monitor emits smoke after connection.

A: It might be due to the reverse connection of the positive and negative, and cause a short circuit. Please make sure the wiring is correct when installation.

6.13 Q: How to turn on the night vision of the camera?

A: It will be automatically turned on in the dark environment.

6.14 Can I add more cameras?

A: Yes, this system supports four cameras with dual/quad split modes. If you would like to add more cameras, please contact us via
Nuoenvx@outlook.com

7 Troubleshooting

7.1 The display screen is blurred?

- Please check if the monitor or camera lens is dusty? If yes, please clean it carefully.
- Please check if the camera is foggy? If yes, please contact us to request a replacement camera.
- If the monitor still has problem, please contact us to request a replacement monitor.

7.2 Image overexposed/faded

- Please try to adjust the angle of the camera and avoid directing the running / reversing lights to the camera.
- If the images does not get improve after adjustment, please send the pictures of the screen and your Amazon order number to Nuoenvx@outlook.com, we will help you to resolve it.

7.3 Monitor No Power

- Car has not been started, please start the car;
- Incorrect wiring connection, check the wiring;
- Power range is not between 12-24V (Try another power supply);
- Monitor may not been turned on, please press the POWER button to turn on it.

7.4 Camera No Power

- Car has not been started, please start the car;
- Incorrect wiring connection, check the wiring;
- Power range is not between 12-24V (Try another power supply);
- Please cover the camera's sensor and check if the lights comes on. If not, it means the camera doesn't gets power, please check the wiring or change a power supply.

7.5 Monitor shows “No signal”

- Please check the wiring and make sure the camera gets power.
- Please follow the **5.2.1** pairing method to re-pair the camera and monitor.
- If you need an extended antenna, please contact us via Nuoenvx@outlook.com

7.6 Contact us for help

- Please tell us your questions in detail and the order number, it would be better to attach pictures or videos for reference.
- All your messages will be replied within 24 hours, please wait kindly.
Contact Email: Nuoenvx@outlook.com

8 Warranty

NUOENX provide 18 months warranty and 3 months replacement service. We also provide lifetime technical support to ensure the backup camera could be used for many years.

If you are not satisfied or need any help with this product, please feel free to contact us, we are ready to assist you!

We will provide you with the best service and try the best to help you to resolve the problem.

All the messages will be replied within 24h. Our contact email is: Nuoenx@outlook.com , please keep this instructions or write down our email so that you can contact us in time once you have any problems.

NUOENX

Contact Person: Lia

Contact Email: Nuoenvx@outlook.com