

Operating Instructions



Wireless Rear View System

Please read this manual thoroughly before operating the unit,
and keep it for further reference.

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2. Precautions

● Storage and keeping

1. Do not expose the monitor to excessive heat or cold. The storage temperature of this device is $-30 \sim +80^{\circ}\text{C}$, and the operating temperature is $-10 \sim +65^{\circ}\text{C}$. The Humidity is Rh90%.
2. Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar place.
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 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 unit.
9. The monitor is not designed to be waterproof.

● Operating Precautions

1. The device may be powered by a 12 or 24 volt automotive battery or vehicle electrical system.
2. Make sure all cables are connected properly observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the unit.



Warning!

1. High voltage is present within the monitor. The opening of the case should be by professionals.
2. Do not watch the video while driving unless you are monitoring the rear view camera display.

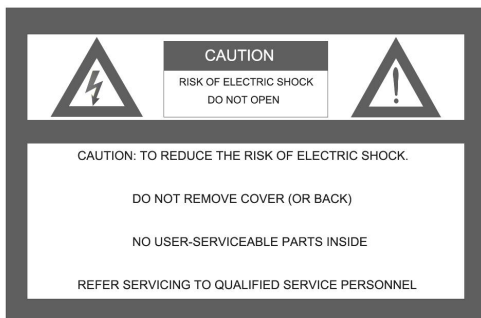


Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very common phenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, please turn off the display at once and notify our company or authorized dealer. The monitor is a complex device. Any disassembly or modification may lead to damage and void the warrantee.

3. Maintenance

1. Remove all the cable connections from the monitor before cleaning the unit.
2. Use a mild household detergent and clean the unit with a slightly damp, soft cloth. Never use strong solvents such as thinner or benzene, as they might damage the furnish of the device.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



This symbol is intended to alert the user not to waste electrical and electronic equipment.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your warrantee and necessitate expensive repairs.

● Declaration of conformity

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.
- (2) This device must accept any interference received, including Interfered that may cause under sired operation.



4. Product Features

1. High-definition 7-inch TFT LCD display, supports automatic pairing, has wide-angle viewing angle and high-resolution display, supports 4-channel simultaneous video recording and video playback.
2. Support 4-channel simultaneous video recording and video playback.
3. Four-screen display mode, dual-screen display mode, auto-scanning mode and single-screen display mode are available.
4. With touch screen, all operations can be realized by touch.
5. With infrared remote control, all operations can be realized by remote control.
6. National menu language can be selected (Chinese, English, French, German).
7. Support audio input from four cameras at once (optional).
8. Each trigger control line switches automatically when triggered.
9. In standby state, the trigger automatically starts and switches to the corresponding camera image or segmentation state.
10. With SD card lock, you can lock the SD card to avoid loss of the SD card, the storage capacity of the TF card is 128G.
11. The working power supply range is DC12~24V, and the power supply short circuit protection function.
12. Bracket adjustable angle.



Special Notice

All specifications are subject to change without notice.

5. Technical Specifications



Monitor

1. 7"/16: 9 Monitor with Digital Panel
2. Resolution: 2.1024 (W) * R.G.B * 600(H)
3. Brightness: 650cd/ m²
4. Contrast: 800:1
5. Visible range: 154.21(H) × 85.92 (V)
6. Viewing angle: Left/Right/Up/Down 85°/85°/85°/85°
7. Image Settings: Brightness, Chroma, Contrast
8. Video format: MP4
9. Audio and video channels: 4 audio/video inputs
10. Reversing function: 4-way reversing (ruler setting function)
11. Reverse delay: 0~60S
12. Power voltage: 12V-24V, DC/<6W
13. Speaker: 0.5W/50Ω
14. Emitting frequency: 17 dBm
15. Operating temperature: -20℃ to +70℃
16. Storage temperature: -30℃ to +80℃

5. Technical Specifications



Camera

1/2.9 CMOS

Resolution: 1280 X 960/720P

Lens: 2.8mm

Min illumination: 0.01 Lux

Night Vision distance: 5-10M

Waterproof rating: IP 69K

Video format: MP4

View angle: H: 105° V: 54° D: 111°

Power voltage: DC:12V~24V

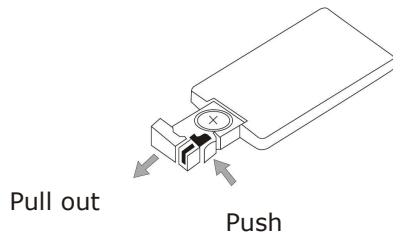
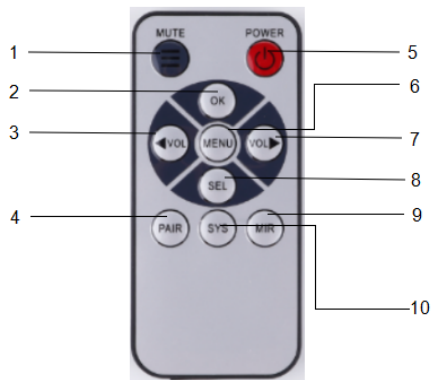
Current consumption: DAY:145±5mA; Night:230±5mA

Working environment temperature: -20℃ + 70℃ , humidity up to 95%

Storage temperature: -30℃ + 80℃ , humidity up to 95%

Microphone: ✓

6. Remote Control



- (1) MUTE key: turn on volume and mute
- (2) OK key: confirm key
- (3) ←VOL key: volume down and the previous item in the menu
- (4) PAIR key: no effect
- (5) POWER key: On/off power key, used to control the power on and standby of the screen
- (6) MENU key: open the menu and return key
- (7) →VOL key: Volume plus and the next item in the menu
- (8) SEL key: switch channel key
- (9) MIR key: no effect
- (10) SYS key: no effect

7. Install

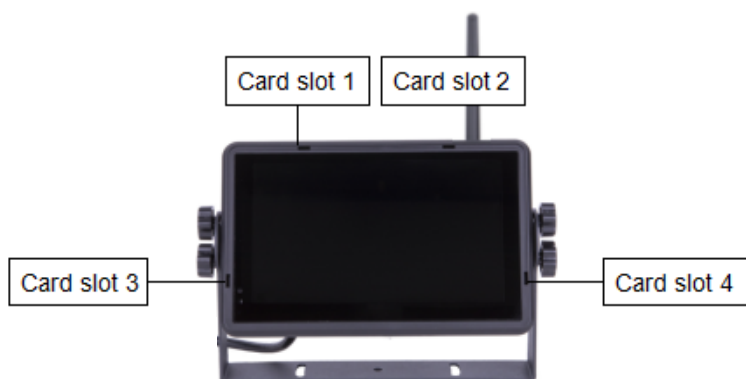
● Mounting brackets

After adding the support silicone pad, lock the six-petal torx screw in place.



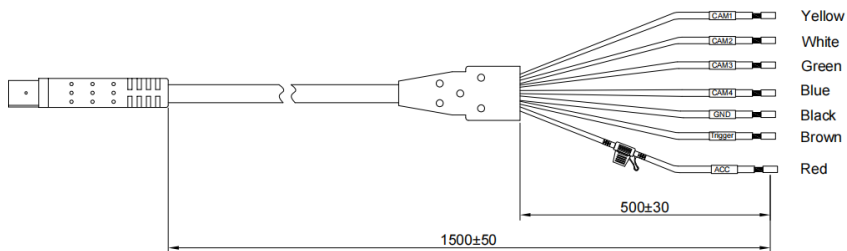
● Install the sun cover

Put the sunshade cover on the panel and align it with the 4 card slots and press it in place, and then lock the screws in the card slots 1 and 2.



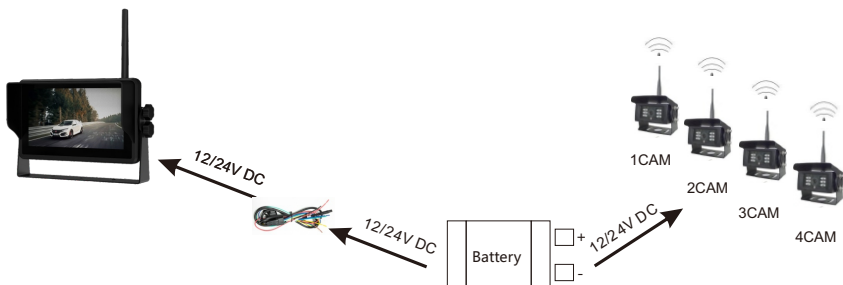
8. Connection Diagram

● Wire connection



1. Yellow: The yellow line is the trigger line connected to CAM1
2. White: The white line is the trigger line connected to CAM2
3. Green: The green line is the trigger line connected to CAM3
4. Blue: The blue line is the trigger line connected to CAM4
5. Black: The black wire is connected to the power GND
6. Brown: The brown line is the trigger split interface
7. Red: The red wire is connected to DC+12~24V

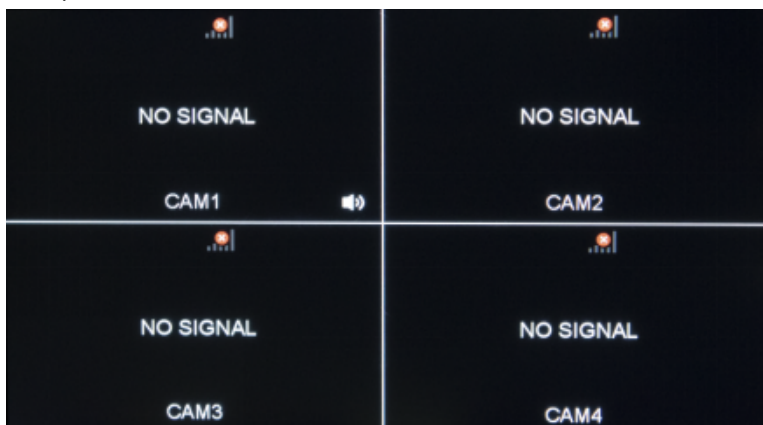
● Connection Diagram



9. Menu setting operation

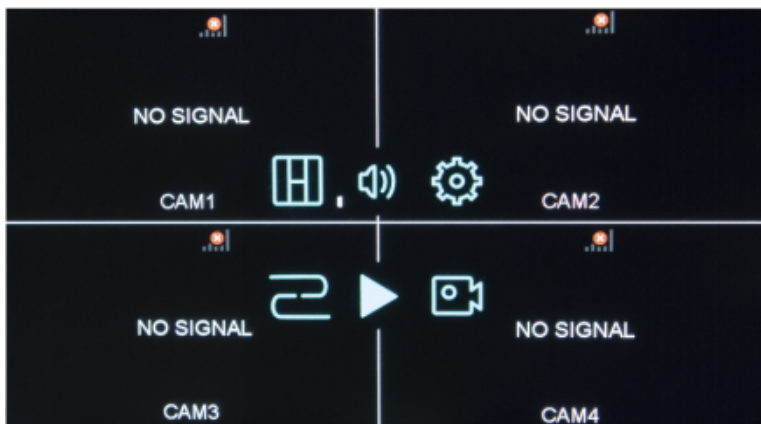
● Startup Screen

1. Power on: start within 3S after power on.
2. Standby: Swipe down on the screen to standby, swipe up on the screen to power on.



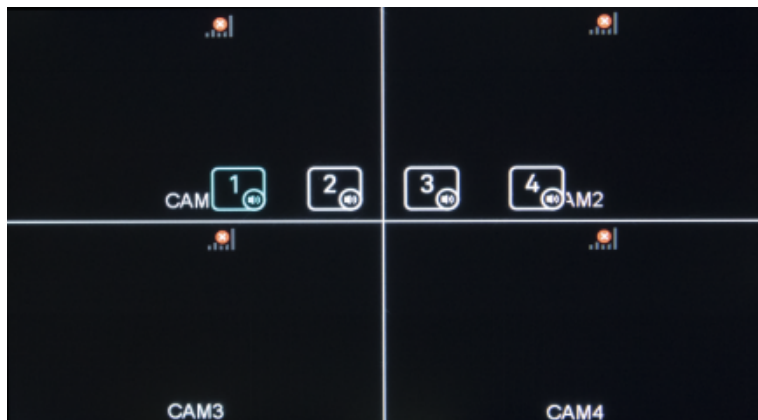
● Menu Screen

Click the center 1/4 area of the touch screen to call out the menu, and click other areas outside the menu to close the menu.



1. Switch channel: click  Can choose to switch between CAM1-CAM4, two-division, four-division, cycle channel mode.
2. Split channel volume: click  Set a single channel with sound in the split channel, default value: channel 1 with sound.

9. Menu setting operation



3. Automatic pairing: click  Enter the automatic pairing mode, press √ to show that the pairing is successful.

Note: The pairing can be successful only after clicking pair within 7 seconds of the TX camera being powered on.

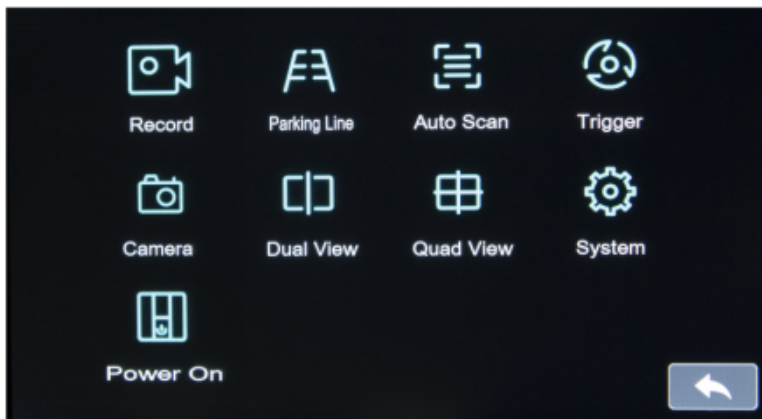


4. Video playback: click  4-split playback or single-channel playback can be selected.

5. Pause\Start recording: Click  Can start/pause recording.

9. Menu setting operation

6. Main Menu: Click  Enter the submenus of recording settings, reversing line adjustment, automatic scanning settings, etc.

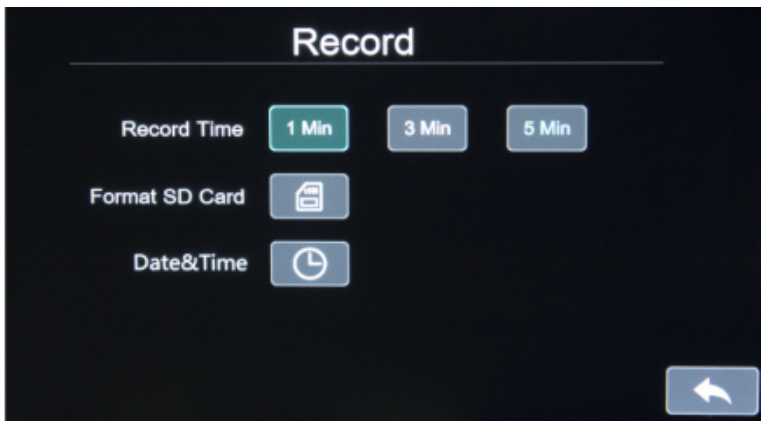


1) Record recording settings: click  Enter recording settings.

Record Time: 1Min, 3Min, 5Min can be set, the default value: 3Min

Format SD Card: Click to format SD card

Date&Time: Click to set time and date



2) Parking Line: Click  Enter the reversing line adjustment.

ON: Reverse line on OFF: Reverse line off Default: ON

click  Set the position of the reversing line

9. Menu setting operation



3) Auto Scan: click  Enter auto scan settings.

ON: Turn on auto scan OFF: Turn off auto scan Default: ON

Can independently set CAM1-CAM4, double-split, four-split channel automatic scan time Default value: 10 seconds



4) Trigger: click  Enter the trigger line setting, with 4 single channel trigger and 1 split screen trigger.

Delay trigger return time: CAM1-CAM4, split channel trigger return time can be independently set, default value: 2 seconds, maximum 60 seconds

Priority trigger priority: For example, set the default value to 2, 3, 4, 1, 5, then CAM4>CAM1>CAM2>CAM3>Segment

SETUP display screen: It can be set whether the 5th channel trigger display is divided into two or four divisions, the default value: four divisions

9. Menu setting operation

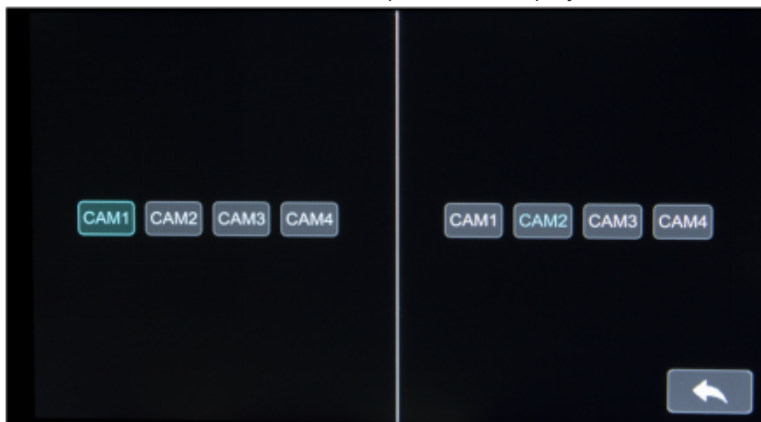
5) Camera parameters: click  Enter camera parameter settings.

Brightness, Contrast, Saturation, Hue, Volume of CM1-CAM4 can be independently set, and can be configured between 0-99, the default value: 50.

CM1-CAM4 can be set independently for horizontal mirror H Mirror and vertical mirror V Mirror, the default horizontal mirror: OFF, vertical mirror: OFF

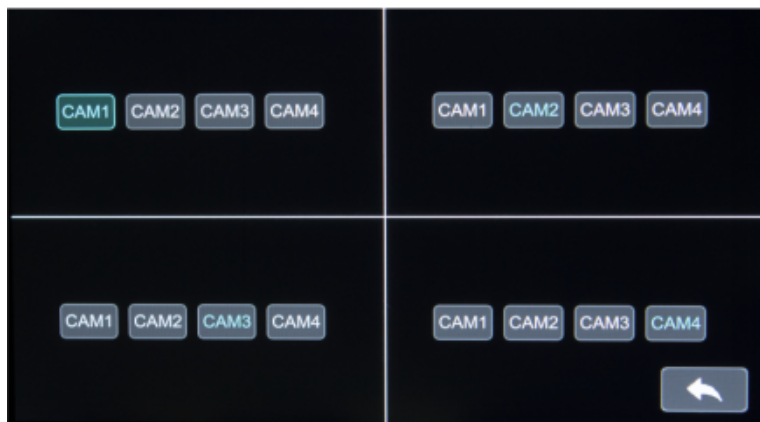


6) Dual View: click  Enter the dual-split screen setting, you can set any two channels of CM1-CAM4 to double-split screen display.



7) Quad View: click  Enter the four-split screen setting, you can set any four channels of CM1-CAM4 to four-split screen display.

9. Menu setting operation



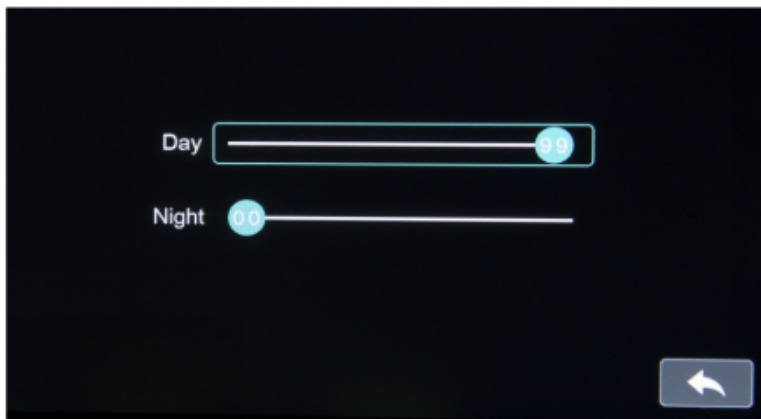
8) System: click  enter system settings.



Dimmer Backlight: Click to adjust the brightness of the screen backlight, default: 99.

Auto Backlight: Default: OFF, click after turning on  Adjustable automatic backlight brightness.

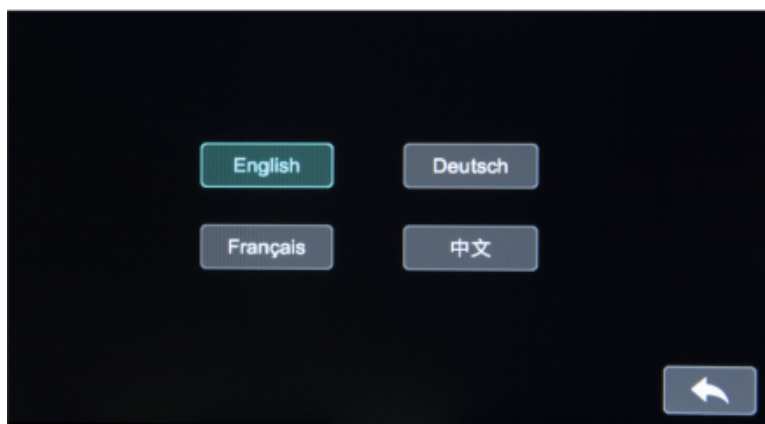
9. Menu setting operation



System Upgrade: Click  Upgradable system.

Language: Click  Four languages can be selected (Chinese, English, French, German), default: English.

Reset: Click  Factory reset possible.



9. Menu setting operation

9) Power ON: click  Enter the startup screen settings, you can preset the default display channel for startup.



8. Common malfunctions

Phenomenon	Reason
Does not turn on	Check whether the vehicle is in the ignition-on state, and whether the power connection line is powered on normally
Image is blurry and unclear	Check whether the lens film is torn off, and whether the lens and interior glass are dusty
No Sound	Check if the sound volume is turned off or set too low
Dark Image	Check that brightness and contrast are adjusted correctly
Abnormal phenomena such as crashes	Enter the system settings menu to restore factory settings

10. Accessories

 Mounting brackets	 Screw	 Antenna
 sun cover	 key	 Bracket Silicone Pad
 Wire	 remote control	

11. Guarantee

The statutory warranty period will be valid of one year after sold

In case of defaulted product, please contact:

- > Your retailer
- > your fitter

For repair and maintenance after sold, please include the following documents when you send back:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault

FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

RF Exposure Information

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 and your body.