

Operating Instructions



Car Wireless Camera System

Please read this manual thoroughly before operating the device,
and keep it for future reference.

1. Precautions

* Storage and Keeping

1. Do not expose the monitor to excessive heat or cold. The storage temperature of this device is -30~+80°C, and the operating temperature is -20~+70 °C. The humidity is Rh90%.
2. Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places.
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 device.
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 device.



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 warranty.

⌘ Maintenance

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

2. Features

1. IPS LCD monitor with full viewing angle and high resolution display.
2. NORMAL, MIRROR, FLIP and MIR-FLIP viewing available.
3. Split mode, auto-scan mode and single-display mode available.
4. Auto pairing: Auto pairing happens when camera is activated.
5. Support 4-channel composite and single-channel recording in AVI signal format.
6. Auto dim function available.
7. 4 wireless camera input.
8. Multiple video formats: PAL / NTSC.
9. Wide voltage input: 10 - 32V.

3. Technical Specifications

IPS monitor size	7"
Resolution	1024xRGBx600
Contrast	500:1
Brightness	400 cd/m ²
Dot pitch	0.0642(W) x 0.1790(H)
Aspect Ratio	16:9
Channel	1 1 channels
Operating Frequency	2400 - 2483.5 MHz
Receiving Sensitivity	-89 dBm
Decompression Form	MPEG4
Transmit Output Power	17 dBm
Modulation	2.4 G WLAN
Time Delay	120ms
Transmitting Distance	300M
Micro-SD /TF Card	Max. 128G
System Format	PAL / NTSC
Power Supply	DC 10-32V
Power Consumption	Max. 6W
Operating temperature	-20~+70°C, RH90%
Storage temperature	-30~+80°C, RH90%



Special Notice

All specification are subject to change without notice.

4. Accessories



Monitor



Camera



Power Cord



U-Pattern bracket



Antenna



Remote Control



Special Notice

Accessory supply may be different for different application.

5. Parts Identification



1. Power Switch button
2. Increase button
3. Decrease button
4. Select camera channels
(select CAM1/CAM2/CAM3/CAM4/split CAM image)
5. Menu button
6. Select(enter) button



Micro-SD Card Slot

6. Basic Operation

6.1 Installation of Center Mounting Bracket:

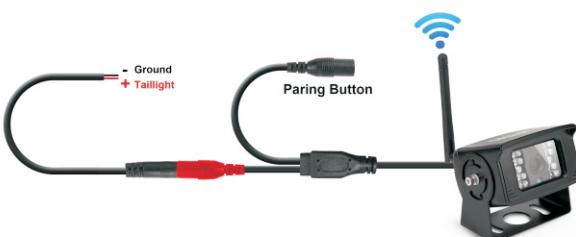
- ①Adjust monitor level by sliding the support to the desired height.
- ②Adjust the angle of the monitor and tighten the knob on the center mounting bracket.



6.2 Installation of U-support Bracket



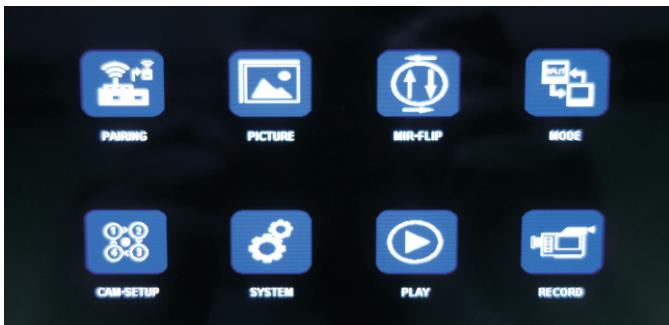
Installation Diagram



7. Menu

- ⌘ MENU is allowed for operation under single image mode, not under quad view.
- ⌘ Press MENU to display the following options and settings:

1. PAIRING
2. PICTURE
3. MIR-FLIP
4. MODE
5. CAM-SETUP
6. SYSTEM
7. PLAY
8. RECORD



(1) Press MENU turn to the main menu, if the icon “PAIRING” turn yellow, Press SEL to select PAIRING, Press Δ or ∇ to select PAIRING, Press MENU return to main menu.



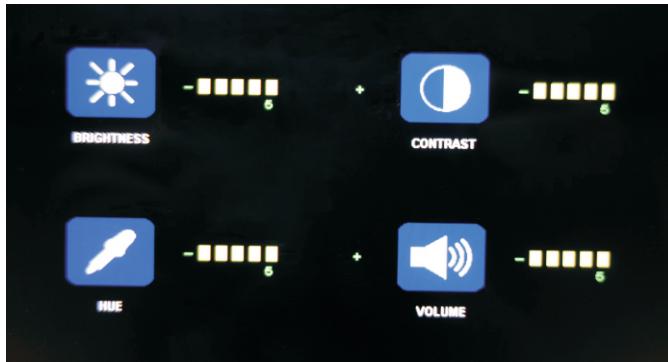
- ⌘ Auto pairing:
 1. Choose the channel that needs to be set up, and the monitor display the message “PAIRING START 20” and a counter that counts down 20s.
 2. Within the countdown, power the camera.
 3. The monitor and cameras will synchronize themselves with each other after the camera is powered for 5s.

For successful auto pairing, the picture appears. If pairing is unsuccessful, the monitor displays the message “No Signal”. Repeat the pairing procedure.

⌘ Manually pairing:

1. Choose the channel that needs to be set up, and the monitor display the message "PAIRING START 20" and a counter that counts down 20s.
2. Press the pairing button on the power-on camera.
3. The monitor and cameras will synchronize themselves with each other.
For successful auto pairing, the picture appears. If pairing is unsuccessful, the monitor displays the message "No Signal". Repeat the pairing procedure.

(2) Press  or  to select PICTURE, and Press SEL to select enter the submenu



Press  or  to select BRIGHTNESS/CONTRAST/HUE/VOLUME, and then press SEL to enter the setting accordingly. At the submenu, press MENU return to main menu.

(3) Press  or  to select MIR-FLIP, and Press SEL to select.



Press  or  to select NORMAL/MIRROR/MIR-FLIP/FLIP.

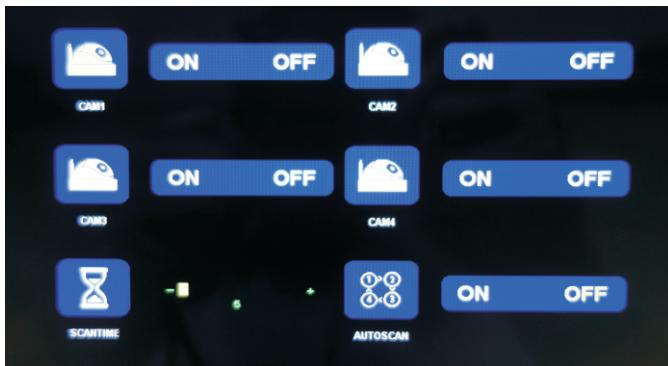
Press MENU return to main menu.

(4) Press  or  to select MODE, and Press SEL to enter the submenu, and

Press  or  to select QUAD/H-SPLIT/SPLIT, Press MENU return to main menu.



(5) Press or to select CAM-SETUP, Press SEL to enter



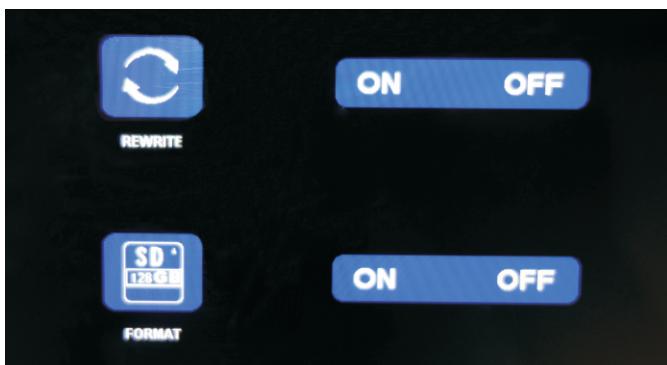
Press or to select CAM1/CAM2/CAM3/CAM4/SCANTIME/AUTOSCAN, and then press SEL to enter the setting accordingly. When the icons turn red Press or on menu for selection decreasing or adding. Press SEL to exit the menu. At the submenu, press MENU return to main menu.

- ⌘ If the channel is turned OFF, image of the corresponding camera will not be shown in AUTOSCAN display mode.
- ⌘ Setting scale of SCANTIME is 5-45S, with the step time of 5s.

(6) Press or to select SYSTEM, Press SEL to enter



- ⌘ TIME: Press **▲** or **▼** to select TIME, Press SEL to set. Press **▲** or **▼** for selection decreasing or adding. Press SEL to continue the setting when finishing the previous operation.
- ⌘ COLOR-SYS: Press **▲** or **▼** to select COLOR-SYS, Press SEL to enter, Press **▲** or **▼** to select NTSC/PAL.
- ⌘ AUTO-DIM: Press **▲** or **▼** to select AUTO-DIM, Press SEL to enter, Press **▲** or **▼** to select ON/OFF. When it is on, the monitor will automatically turn darker when it is placed in dark environment for 5S.
DELAYTIME: Press **▲** or **▼** to select DELAYTIME, Press SEL to enter, Press **▲** or **▼** to select.
P-LINE: Press **▲** or **▼** to select P-LINE, Press SEL to enter, Press **▲** or **▼** to select ON/OFF.
- (7) Press **▲** or **▼** to select PLAY, Press SEL enter.
- (8) Press **▲** or **▼** to select RECORD, Press SEL enter.



- ⌘ Press  or  to select REWRITE / FORMAT, and then press SEL to enter the setting accordingly. When the icons turn red, press  or  on menu for selection decreasing or adding. Press SEL to exit the menu. At the submenu, press MENU return to main menu.
- ⌘ REWRITE: When disk is full, the monitor will delete the earliest manual/timing record file one by one, and keep recording.
- ⌘ FORMAT: Micro SD card must be formatted before being used. All documents in SD card will be lost once users format the disk.

8. Recording Time

For the recording time of SD cards with different capacities, please refer to the table below. The actual recording time is subject to the operating environment.

SD MODE	8G	16G	32G	64G	128G
SINGLE (640x480x1)	14h	28h	55h	110h	220h
QUAD (320x240x4)	11h	22h	43h	86h	172h
SPLIT (400x480x2)	13h	25h	50h	101h	201h

9. Troubleshooting

The symptoms described below do not necessarily mean a failure within the display. Please check the following items before you initiate request for repair.

Symptoms	Possible Causes/Solutions
No picture, no sound	Improper connection of automobile adapter. Use of un-authorized power supply. Power switch is on OFF position.
No signal	Check whether the camera has power supply. Pair the monitor and the camera again.
No sound	Check whether the sound volume is turned off or set too low.
Dark picture	Check whether brightness and contrast are adjusted correctly.
No color	Adjust the HUE settings.

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.

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.

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.