Operating Instructions

2.4GHz 7″ Digital Wireless Color LCD Monitor

Please read this manual thoroughly before operating the device,

and keep it for future reference.

V 1.3

Contents

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℃, and the operating temperature is -20~+70 ℃. 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 DC power 10V - 32V (eg.12V or 24V ACC).
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 warrantee.

● 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.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK

DO NOT REMOVE COVER(OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

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 interference that may cause undesired operation.

2

2. Features

1. TFT LCD monitor with wide angle view and high resolution display.
2. Support 1T1R \ 1T2R \ 1T3R \ 1T4R.
3. NORMAL, MIRROR, FLIP and MIR-FLIP viewing available.
4. Support recording in AVI signal format.
5. Auto dim function available.
6. Full-function remote control.
7. 1 wireless camera input.
8. Wide voltage input: 10 - 32V.
9. On-board speaker.

3. Technical Specifications

LCD size	7"
Resolution	800 x 3 (RGB) x 480
Contrast	500:1
Brightness	400 cd/m²
Viewing Angle	U: 50 / D: 70, R/L: 70
Dot pitch	0.0642(W) x 0.1790(H)
Aspect Ratio	16:9
Channel	1 channels
Operating Frequency	2400 - 2483.5 MHz
Receiving Sensitivity	-89 dBm
Decompression Form	MPEG4
Modulation	2.4G FSK/GFSK
Time Delay	200ms
Transmitting Distance	120 M
Micro SD Card	Max 128G
System Format	PAL / NTSC
Power Supply	DC 10-32V
Power Consumption	Max. 6W
Loudspeaker	1.5W/8Ω
Operating temperature	-20~+70ºC,RH90%
Storage temperature	-30~+80ºC,RH90%

⚠ **Special Notice**
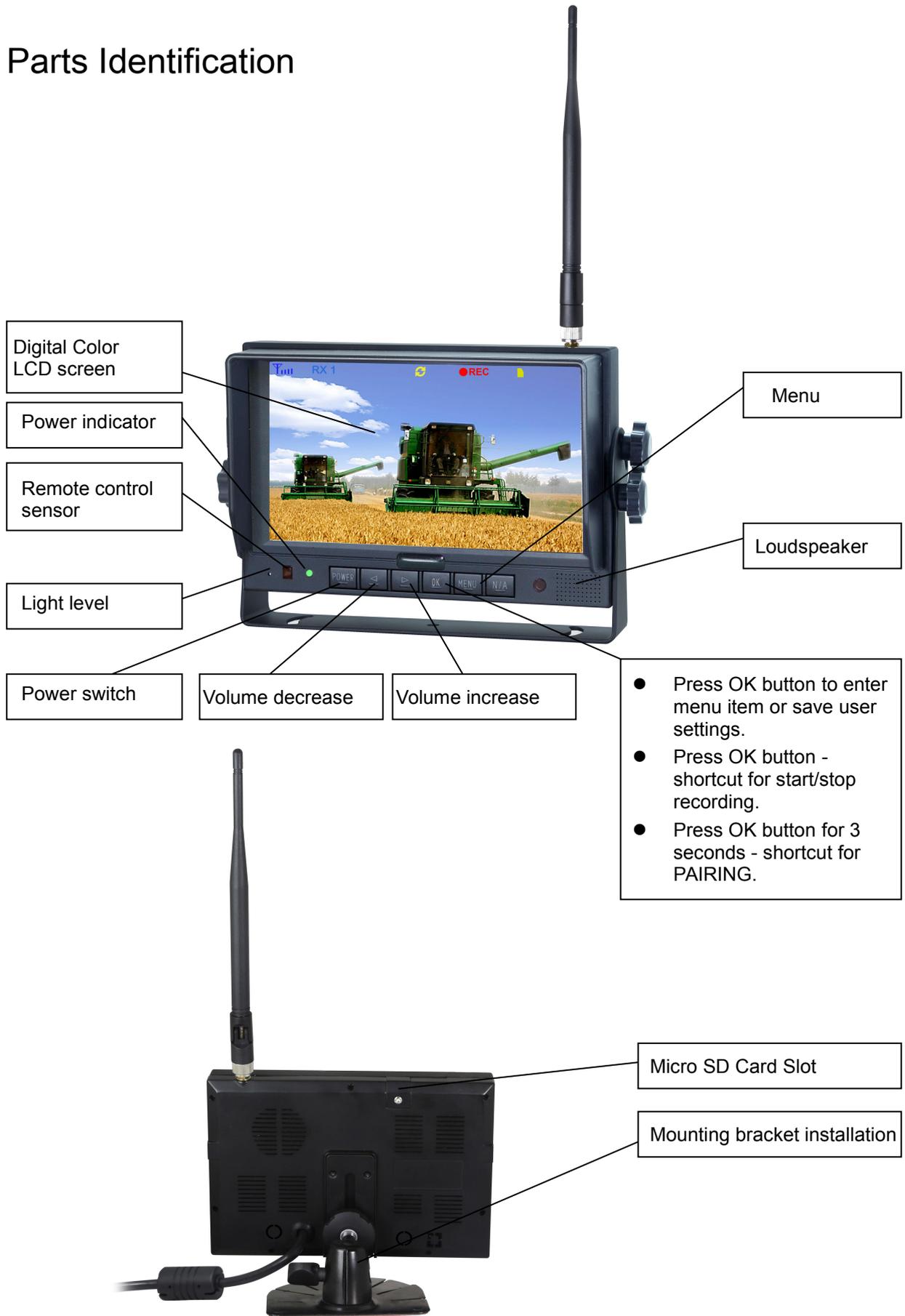
All specification are subject to change without notice.

4. Accessories

U-Support Bracket	Center Mount Bracket
Sun Shield	Power cable
Angle Adjustment Screws	IR Remote control

> ⚠ **Special Notice**
>
> Accessory supply may be different for different application.

5. Parts Identification

Digital Color LCD screen

Power indicator

Remote control sensor

Light level

Power switch

Volume decrease

Volume increase

Menu

Loudspeaker

- Press OK button to enter menu item or save user settings.
- Press OK button - shortcut for start/stop recording.
- Press OK button for 3 seconds - shortcut for PAIRING.

Micro SD Card Slot

Mounting bracket installation

6. Remote Control Operation

Press to select MUTE
or enable sound

Press to turn on/off the
monitor

Press OK button to enter
menu item or save user
settings.
Press OK button - shortcut
for start/stop recording.

Press to show menu or
exit menu

Volume increase and
menu selection right

Volume decrease and
menu selection left

MIR-Flip selection

Fast pairing when camera
is activated

MUTE

POWER

OK

VOL MENU VOL

SEL

PAIR SYS MIR

- ## MUTE(Mute)

  Press to select MUTE or enable sound

- ## POWER(Power switch)

  Press to turn on/off the monitor

- ## OK

  Press OK button to enter menu item or save user settings. Press OK button - shortcut for start/stop recording

- ## MENU

  Press to show menu or exit menu

- ## ◁ VOL

  Volume decrease and menu selection left

- ## ▷ VOL

  Volume increase and menu selection right

- ## PAIR

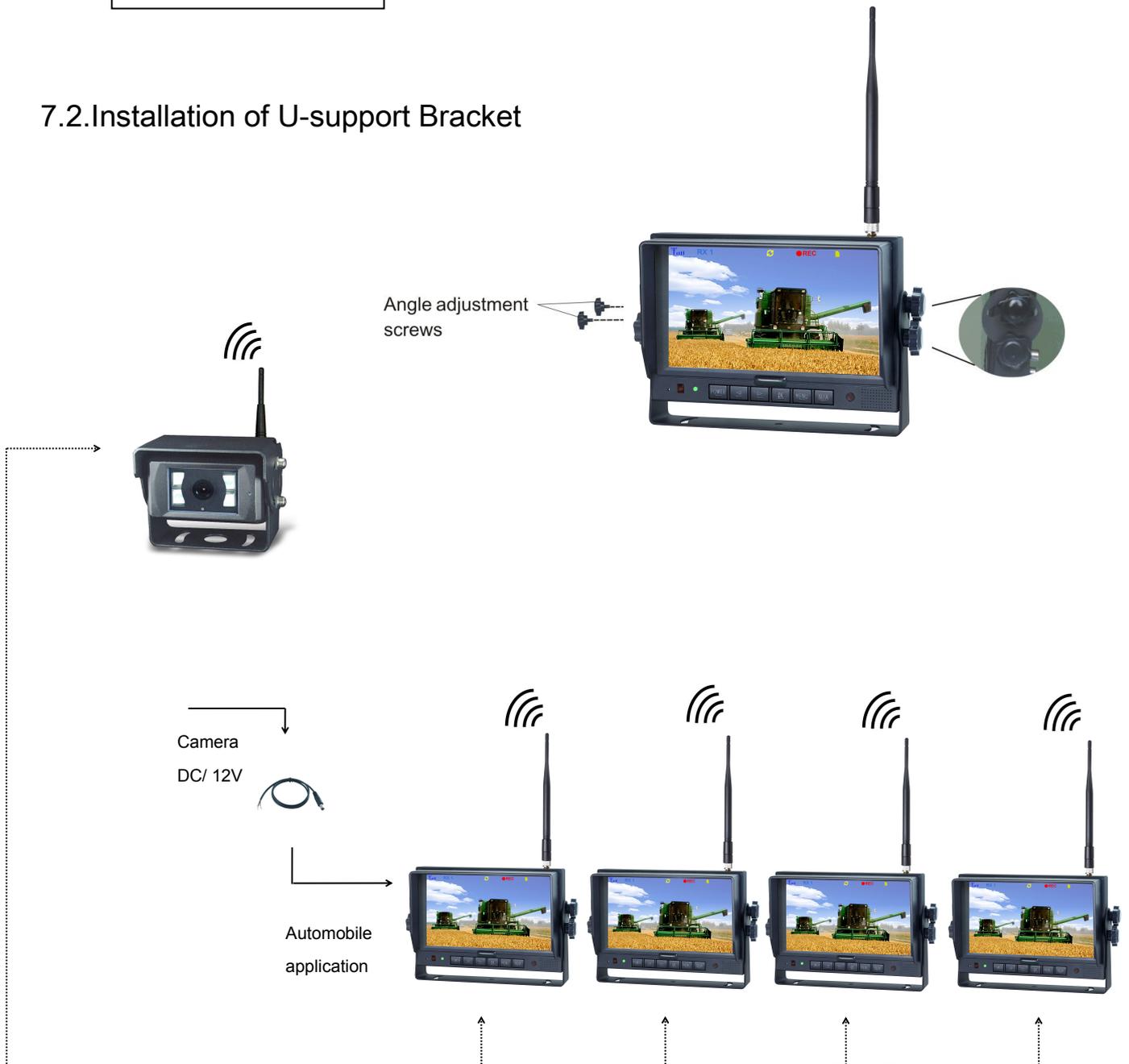 Fast pairing when camera is activated

- ## MIR

  MIR-Flip selection

7. Basic Operation

7.1 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.

Support attaching piece

Knob

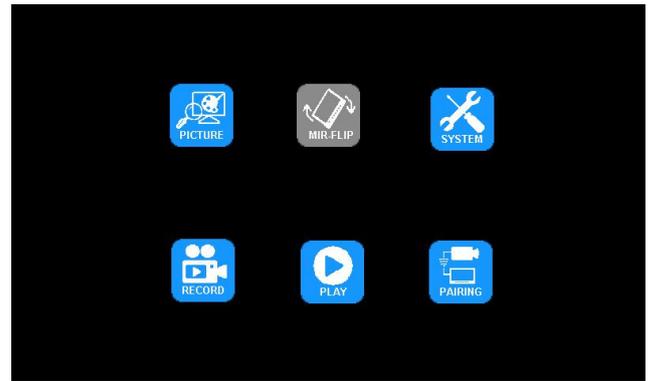## 7.2.Installation of U-support Bracket

Angle adjustment screws

Camera

DC/ 12V

Automobile application

8. Menu

● Press MENU to display the following options and settings:

● Adjust PICTURE and MIR-FLIP only on RX1. RX2/3/4 setting will also be changed.

1. PICTURE	4. RECORD
2. MIR-FLIP	5. PLAY
3. SYSTEM	6. PAIRING

RX1   RX2/RX3/RX4

（1）Press ◁ or ▷ to select PICTURE. Press OK to enter.
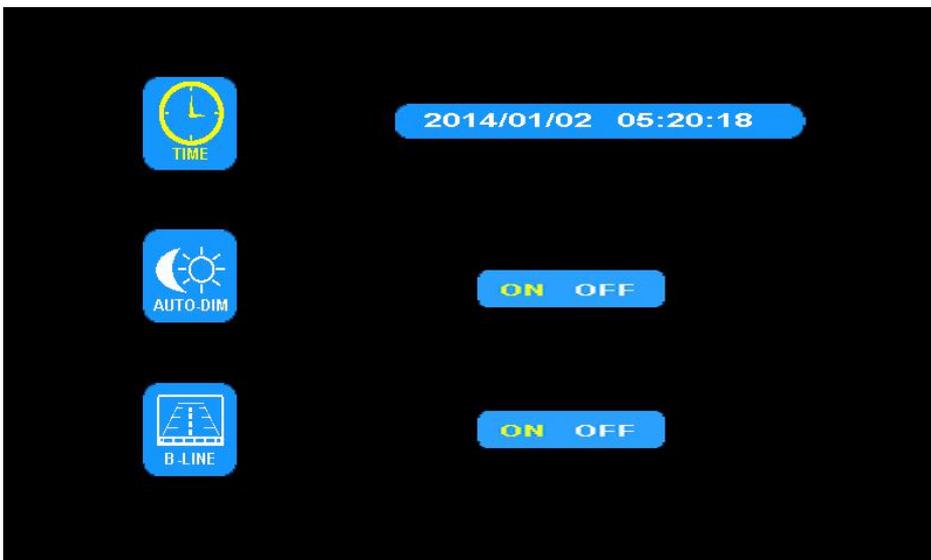

RX1   RX2/RX3/RX4

● Press ◁ or ▷ to select BRIGHTNESS / CONTRACT / HUE / VOLUME, press OK

to enter. Press ◁ or ▷ to adjust. Press OK to exit.   Press MENU return to main

menu.

(2) Press ◁ or ▷ to select MIR-FLIP. Press OK to enter.
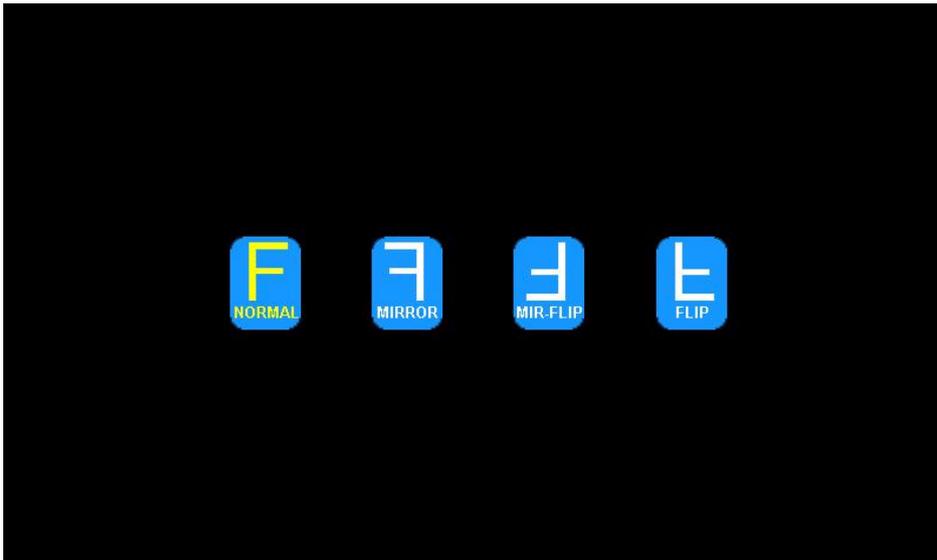
- Press ◁ or ▷ to select NORMAL / MIRROR / MIR-FLIP / FLIP. Press MENU
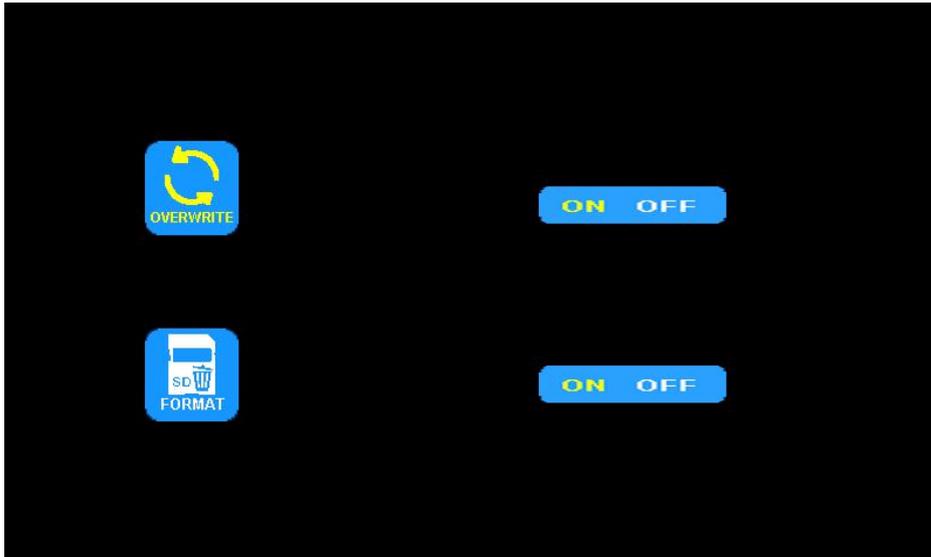
  return to main menu

(3) Press ◁ or ▷ to select SYSTEM, Press OK to enter .

- TIME : Press ◁ or ▷ to select TIME. Press OK to set. Press ◁ or ▷ to adjust.

  Press OK to continue setting.

- AUTO-DIM: Press ◁ or ▷ to select AUTO-DIM. Press OK to enter, and then

  press ◁ or ▷ to select ON/OFF. When set as ON, backlighting automatically

  adjusts in accordance with the outer brightness.

- ELETRONIC DISTANCE LABEL: Press ◁ or ▷ to select ELETRONIC DISTANCE

10

LABEL. Press OK to enter, press ◁ or ▷ to select ON/OFF to open or close the

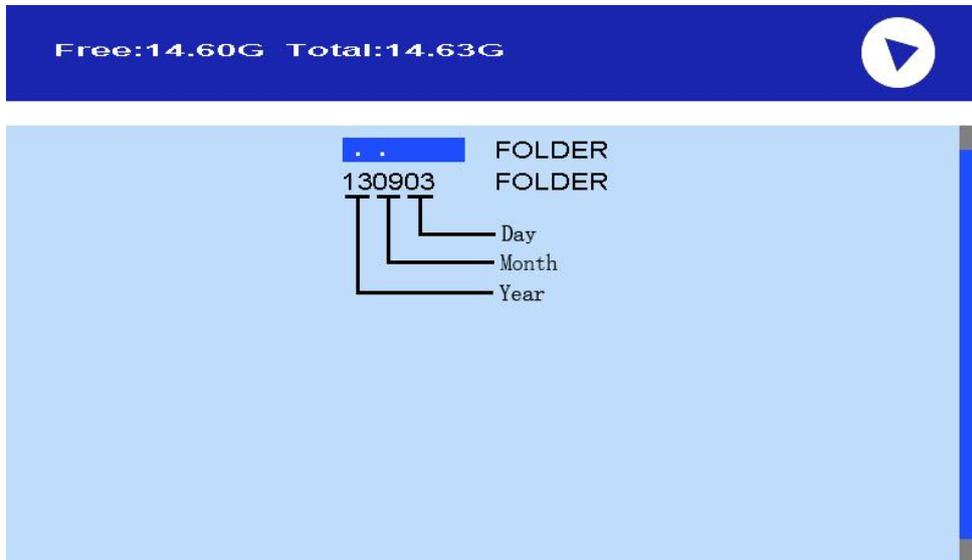electronic distance label. When it is on, the electronic distance label will be

Displayed.

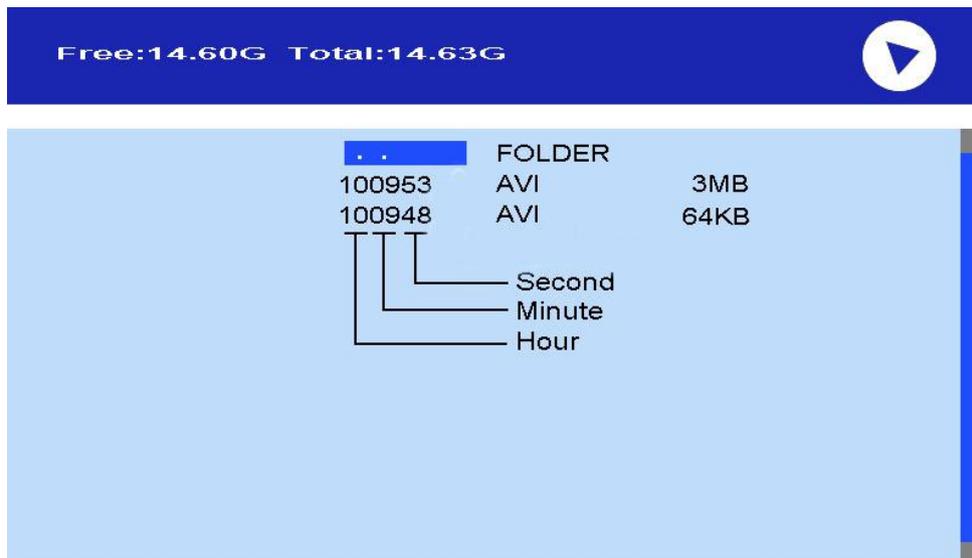(4) Press ◁ or ▷ to select RECORD, Press OK to enter.

- Press ◁ or ▷ to select OVERWRITE / FORMAT, press OK to enter. When the icon turns yellow, press ◁ or ▷ to select ON or OFF. Press OK to exit. Press MENU return to main menu.

- OVERWRITE: Previous video file will be overwritten when disk is full.

- FORMAT：Micro SD card must be formatted before being used. All files in Micro SD card will be lost once disk is formatted.

(5) Press ◁ or ▷ to select PLAY, Press OK enter .

● Press ◁ or ▷ to select DATE , Press OK to enter.

Free:14.60G Total:14.63G ▶

```
          . .        FOLDER
      130903     FOLDER
          │ │ │
          │ │ └── Day
          │ └──── Month
          └────── Year
```

● Press ◁ or ▷ to select TIME & CHANNEL, Press OK to enter.

Free:14.60G Total:14.63G ▶

```
          . .        FOLDER
      100953     AVI          3MB
      100948     AVI          64KB
          │ │ │
          │ │ └── Second
          │ └──── Minute
          └────── Hour
```

(6) Press ◁ or ▷ to select   PAIRING, then press OK to enter.Or Press OK for 3 seconds to enter

  PAIRING.

- **Manual pairing:**

  1. Press pairing button on the camera for 5 seconds to clear historical pairing data.

  2. Select a monitor to pair.   Select PAIRING in monitor menu and press OK button or press OK button on monitor for 3 seconds. Monitor displays the message "PAIRING START 50", counts down from 50s

  3. Press pairing button on the camera.

  4. Monitors are   paired in sequence of 1 2 3 4.

  5. If pairing is completed, the video will be displayed. If it is failed, a message "No Signal" will be displayed. Repeat the pairing procedure.
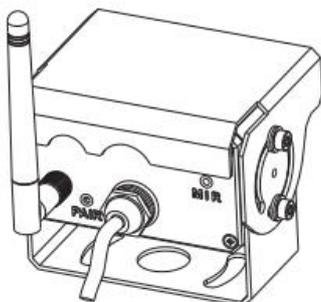
9. Recording Time

With Micro SD cards in different capacities, please refer to the table below for recording time under 2 different image modes.

This table is for reference only. Data may vary under different environments.

Micro SD / MODE	8G	16G	32G	64G	128G
SINGLE (640x480x1)	14h	28h	55h	110h	220h

10. Installation Tips

10.1 Antennas should be vertically lined to the ground. Make sure there is no obstacle around antennas.
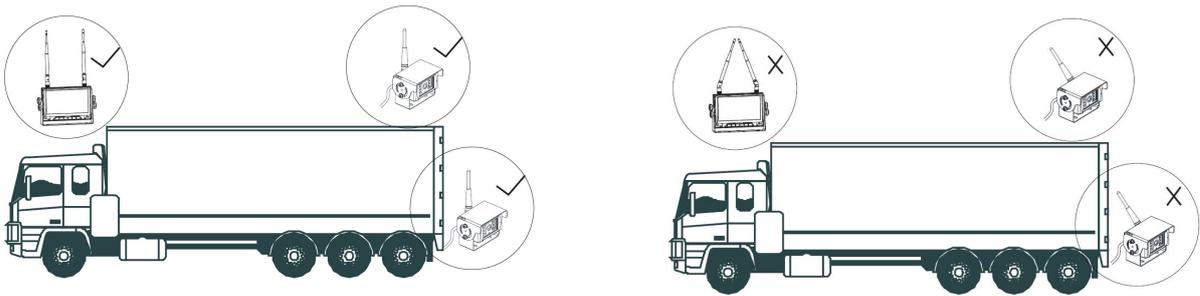
10.2 Magnet based extension antenna should be attached on the top of the vehicle. Make sure there is no obstacle around or between 2 antennas.
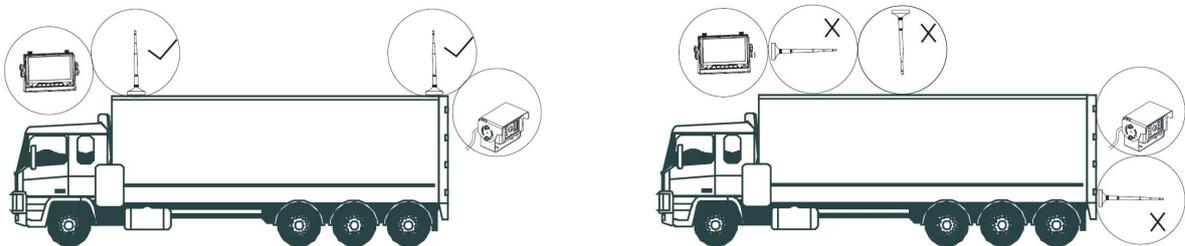
10.3 Wireless system installation instruction.

● Pair the monitor with the camera before installing the wireless system on vehicle:

1. Before pairing, power off the unpaired camera and switch the monitor channel to the one to be paired; enter MENU interface, select PAIRING and then press OK; then the monitor enters the PAIRING countdown of 50 seconds, during which the camera to be paired shall be connected to the power supply; after 5 seconds, the camera will be paired with the monitor and the images of the paired camera will be displayed on the monitor if the pairing succeeds. Otherwise, repeat the above code pairing operation steps.

2. After one channel of the monitor is paired successfully, press SEL to switch to the next channel to be paired; power off the previous paired camera and repeat operation steps above.

3. After pairing all channels, connect all paired cameras with power supply; press SEL button on the monitor to switch channels; check images of each channel; and then install the wireless system on vehicle after confirming that there is image on each channel.

● Low-Power Mode

1. When the camera is powered up, if there is no pairing or the paired display does not receive the image of the camera, it will enter the pairing mode after being powered up for 5 seconds and hold for 30 seconds. Then it will enter the low-power mode after 30 seconds.

2. When the monitor is powered off or standby, the camera paired with it enters low-power mode after 30 seconds. When the monitor is powered up or turned on, the camera in low-power mode will automatically wake up.

● Solutions for Poor Monitor Signal

1. Please confirm the height of the camera from the ground is more than 1 meter, the antennas of the display and camera are perpendicular to the ground, and the antennas are tightened.

2. If there is metal shielding between the monitor and the camera, an extended antenna should be used to bypass the metal shielding to ensure smooth transmission of antenna signal in space.

3. When using the flat extension antenna, the patch antenna of the monitor and camera shall be installed on the same side of the vehicle, which is conducive to the transmission of antenna signal.

11. 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.