AUTOBACS
JAPAN

7 INCH HIGH RESOLUTION DVR WIRELESS SYSTEM

HDVR74W

12/24V

IP69K CAMERA

QUAD VIEW

DVR RECORDING

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1. Precautions

1.1 Storage and Use

1) Do not expose the monitor to excessive heat or coldness. Storage temperature is -30~+80℃; Operating temperature is -20~+70℃; Battery operating temperature is 0-70℃; Humidity is Rh90%.
2) Avoid dropping or striking.
3) Never puncture, scratch or use abrasive cleaning materials on this device.
4) Do not place cables where they may be pinched or damaged.
5) The monitor is not designed to be waterproof.

1.2 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.Voltage is present within the monitor. Opening monitor case may void the warranty.

2.Do not watch any video while driving unless you are monitoring rear view camera display.

Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. That is a very common phenomenon in active matrix display technology, and it doesn't necessarily indicate any defects or faults.

1.3 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.
3) 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 not to dispose of electrical and electronic equipment resposibly.

2. Features

1) TFT LCD monitor with wide angle view and high resolution display
2) Camera image can be mirrored and flipped.
3) Supports multiple image display modes like single, dual, quad.
4) Supports 5 x triggers, trigger priority & trigger delay.
5) Supports auto scan, scan channel and scan time.
6) Supports backlight adjustment manually and automatically
7) Selectable parking guidelines with adjustable size and position.
8) 1.5W speaker
9) Working voltage: 10-32V
10) 4 x wireless HD camera inputs.

3. Technical Specifications

LCD Size	7″
Resolution	1024 x 3(RGB) x 600
Contrast	700:1
Brightness	600cd/㎡
View Angle	U: 85 / D: 85, R / L: 85
Aspect Ratio	16:9
Channel	4 channels
Operating Frequency	2400 -2483.5MHz
Receiving Sensitivity	-78dBm
Decompression Form	H.264
Modulation	FHSS
Time Delay	200 ms
Transmitting Distance	Max. 120 m
Micro SD Card	Max. 128 GB
Power Supply	DC 10-32V
Power Consumption	Max. 10W
Loudspeaker	1.5W / 8Ω
Operating Temperature	-20~+70ºC,RH90%
Storage Temperature	-30~+80ºC,RH90%

Note: Total video duration

capacity / display	16GB	32GB	64GB	128GB
single	≈15h	≈30h	≈60h	≈120h
dual	≈17h	≈34h	≈68h	≈136h
quad	≈18h	≈36h	≈72h	≈144h

⚠ Special Notice

All specification are subject to change without notice.

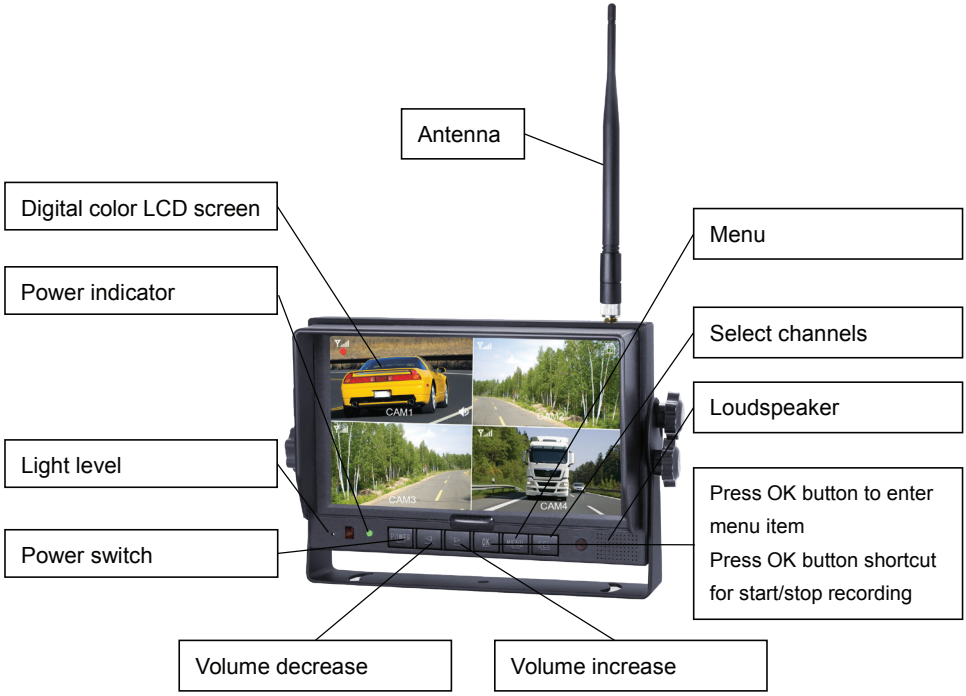
4. Accessories

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

⚠ Special Notice

Accessory supply may be different for different application.

5. Parts Identification



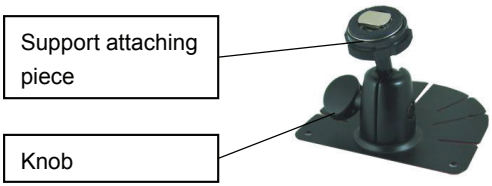
external antenna

external antenna

6. Basic Operation

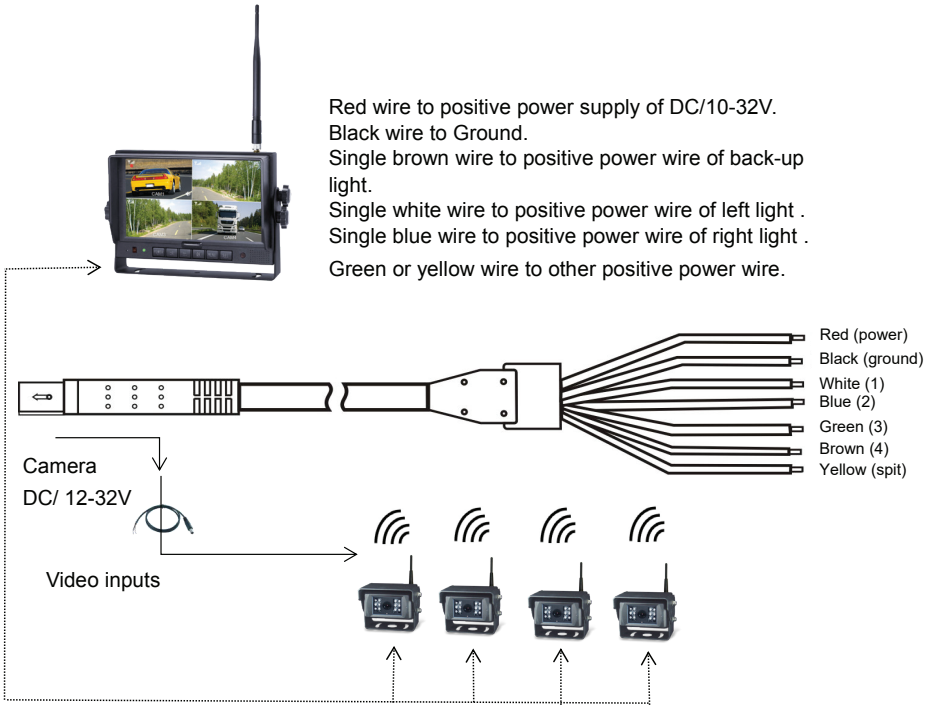
6.1 Installation of Center Mounting Bracket

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



6.2 Installation of U-support Bracket

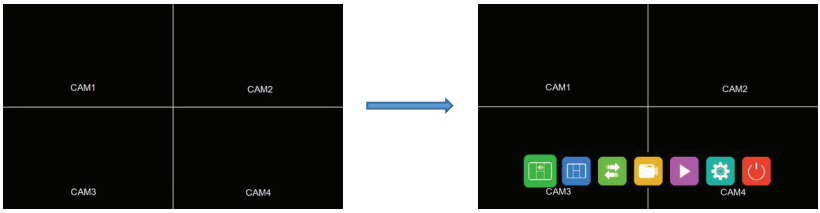
1) Position the "U Bracket" and use the appropriate screws to fix in place.
2) Screw in the "Angle adjustment screws into the sides of the monitor. Set monitor to desired angle before tightening.



IMPORTANT NOTE: Do NOT connect the brown, white, blue, green or yellow wires to constant power, as this will disable the buttons and prevent the monitor from turning off.

7. Menu Operation and Functional Specification

7.1 Preview Interface

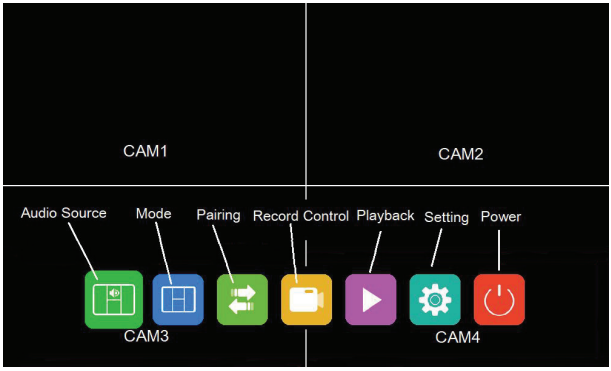


- The main menu can be brought up by pressing the MENU button, then press "<" or ">" buttons and then "OK" to enter menu selection.

- Press "SEL" button to switch between the different views:

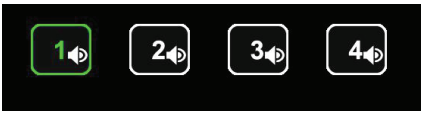
CAM1->CAM2->CAM3->CAM4->DUAL->QUAD

7.2 Main Menu



- **Audio source**

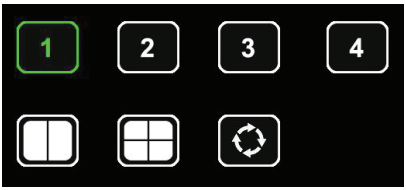
Note: Switch to "Multi/Split view before selecting Audio Scource menu item.



① The audio channel can be switched in the multi-split view mode

② Press "Menu" to exit.

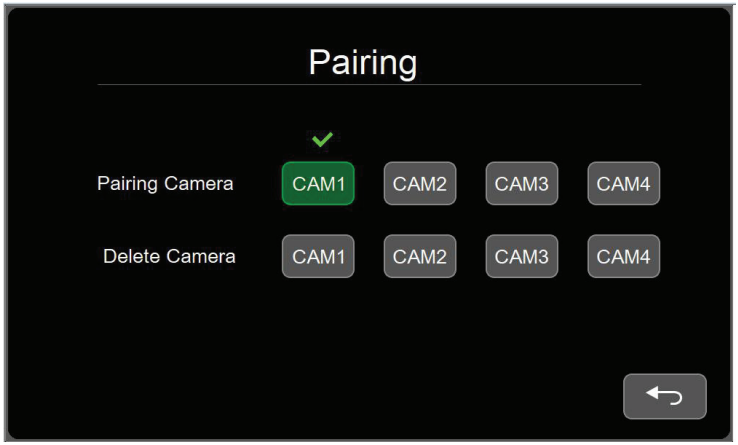
- **Mode**



① Select different icons to switch to the corresponding view, selecting the last icon will enable automatic scanning

② Press "Menu" to exit.

- **Pairing**



Pairing Camera: connect to tx of the specified channel

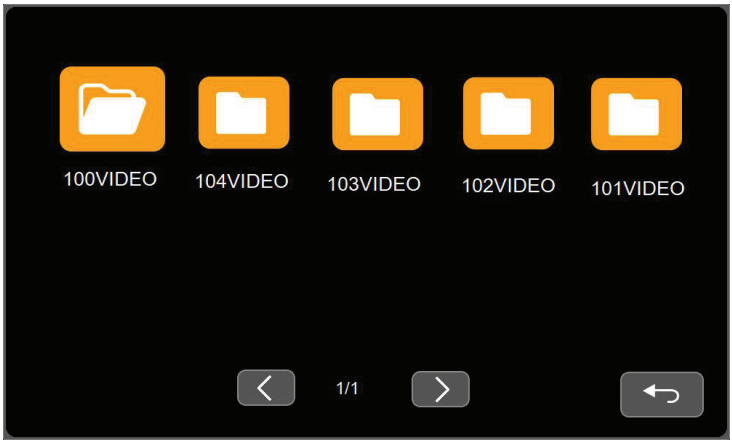
Delete Camera: delete the tx of the corresponding channel

- **Record Control**

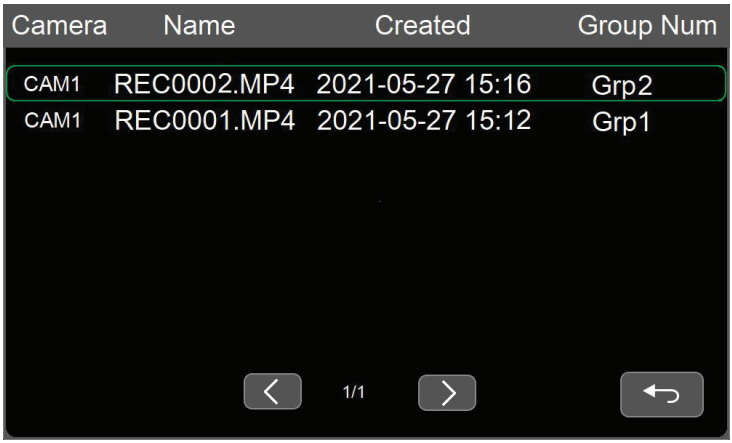
Press "OK" to Start or Stop Recording

- **PlayBack**

Use "<" or ">" to highlight selection then press "OK".
Press "Menu" to exit.



Video: The folder will increase with video files, and a new folder will be created once the files exceed a maximum of 997 in a folder. The larger the folder number, the newer folder. If the SD card is full, files will be deleted from the oldest folder

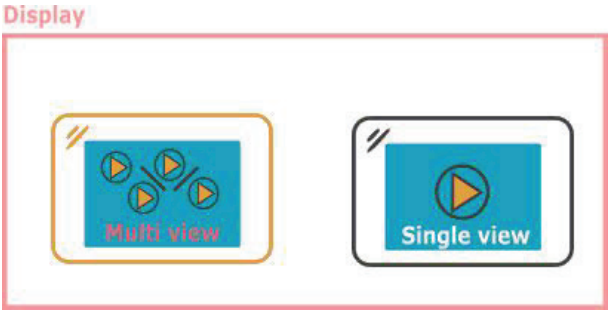


Camera：the tx that the recording file belongs to

Name：filename

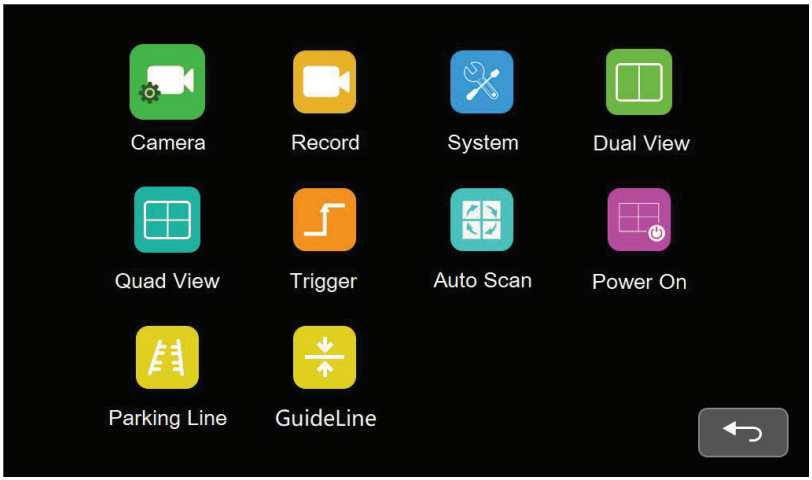
Created：creation date

Group Num：the corresponding value will increase by 1 with each recording. The Group Num of the video recorded at the same time is the same, that is, the Group Num of the video recorded under multi-split mode is the same



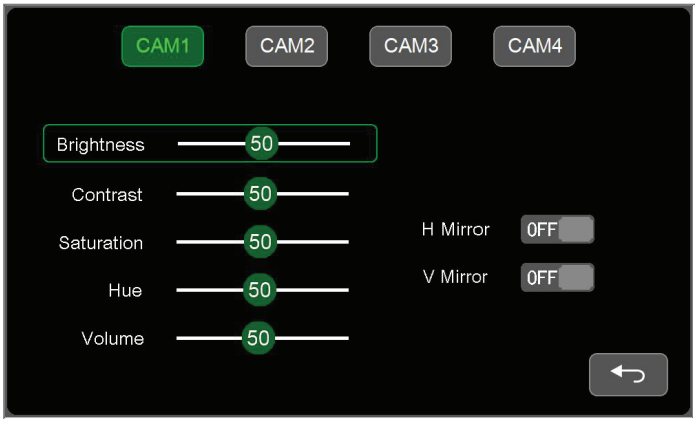
A window will pop up before playing a file recorded in the multiple split mode to select playing multiple views at the same time or a single view;

7.3 Setting



- No operation of the menu within 30 seconds, the monitor will exit from the menu automatically
  Press "<" or ">" to switch selection then "OK" to confirm.
  Press "menu"" to exit.

7.3.1 Camera Display Settings



CAM: Press the left/right button then the OK button to select and switch to the corresponding channel; when the cursor is not on the channel icon, you need to press the menu button then "<" or ">" to select the channel to adjust display settings.

Brightness

Contrast

Saturation

Hue

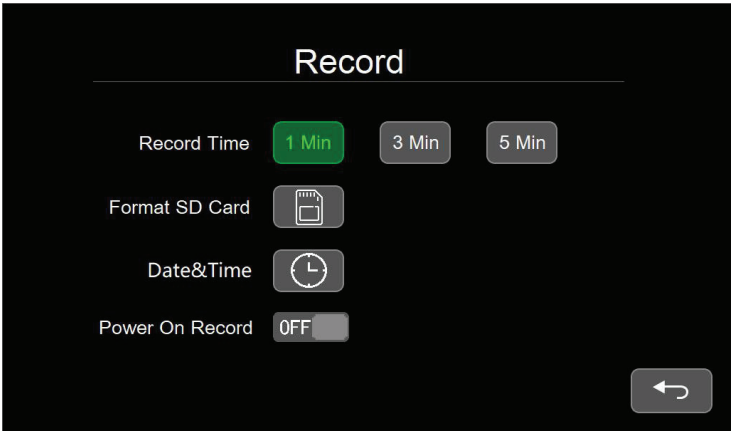
Volume

H Mirror: If it is set to ON, the corresponding recording channel is flipped horizontally. If OFF, the corresponding channel is displayed normally without flipping

V Mirror: If it is set to ON, the corresponding recording channel is flipped vertically, If OFF, the corresponding channel is displayed normally without flipping

Button operation: Use the "<" or ">" buttons to move the "green highlight box" then proess "OK". To adjust the value, press OK to turn the cursor in red, and then press the left/right button; press OK again and the cursor turns green again

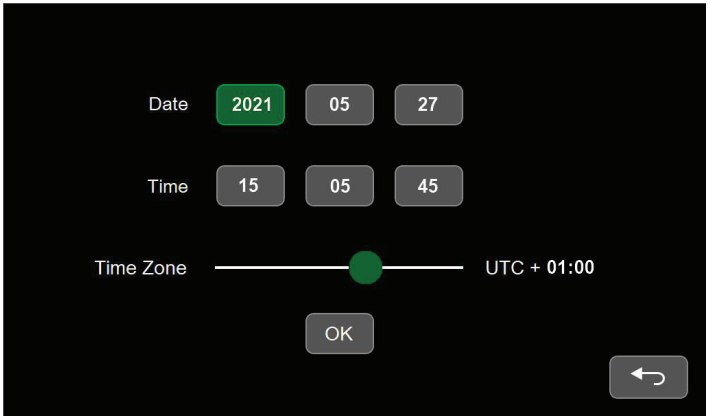
7.3.2 Record



Record Time: choose the duration of the video
Press "<" or ">"buttons to move the green highlight and the press "OK" to confirm.

Format SD Card: “SD Card Format?” will pop up, press Yes to format the SD card

Date&Time:



Press left/right the the "OK" button to enter the value setting interface, and set the date and time through the on screen keyboard, use the "<" or ">" then "OK" buttons.

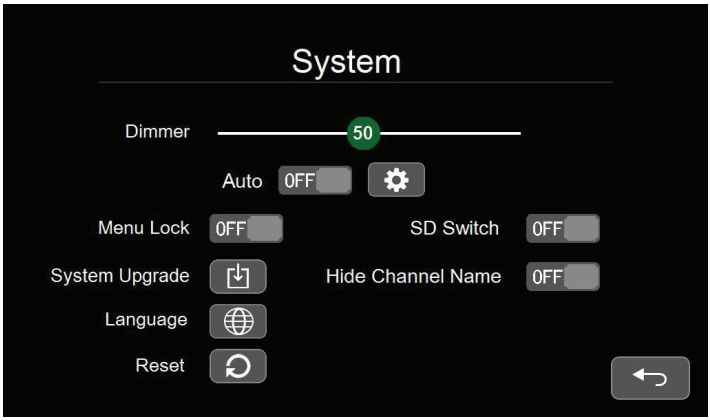
Date: select the corresponding year, month and day

Time: select the corresponding hour, minute, and second

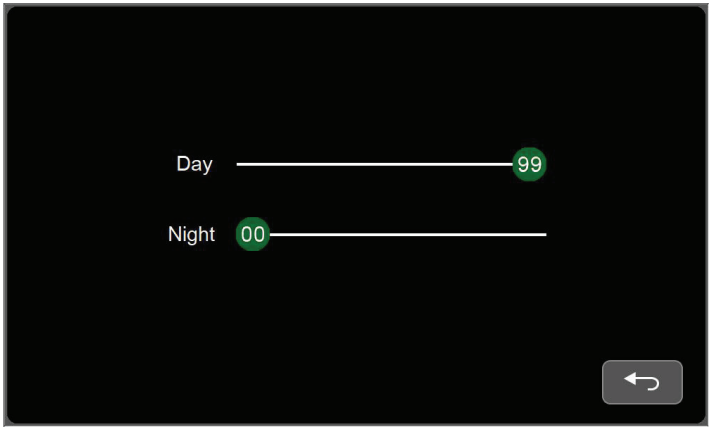
Time Zone: select the corresponding time zone, press the OK button to take effect

Power On Record: If it is set to on, the monitor will start recording video upon startup. This function is set on by default

7.3.3 System



- When Auto Backlight (Auto) is off, adjust the slider to adjust the screen brightness; When it is on, adjusting the slider is invalid. The day/night mode backlight can be adjusted by selecting the "gear" icon.



Select the appropriate slider bar by using the "<" or ">" buttons and then "OK". When adjustment is complete press "Menu" to exit.

Day: the screen brightness under high ambient brightness

Night: the screen brightness under low ambient brightness

Menu Lock: This fucntion is not applicable in this model unit.

System upgrade: If there is an upgrade package in the inserted SD card, press this button to

upgrade the firmware with this upgrade package

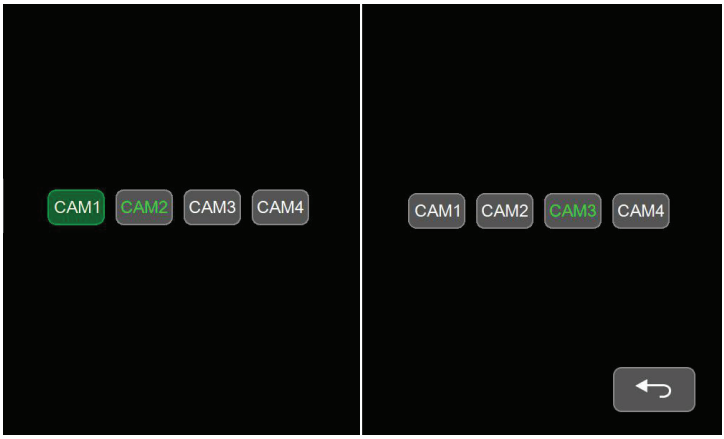
Language: Select language, support English, German, French, Chinese.

Reset: reset operation does not change the tx and rx connection status of the system, but only system parameters.

SD Switch: when it is set to On, you can show standard definition image in the single mode.

Hide Channel Name: when it is set to On, the channel name is no longer displayed under any display mode.

7.3.4 Dual View Display Settings

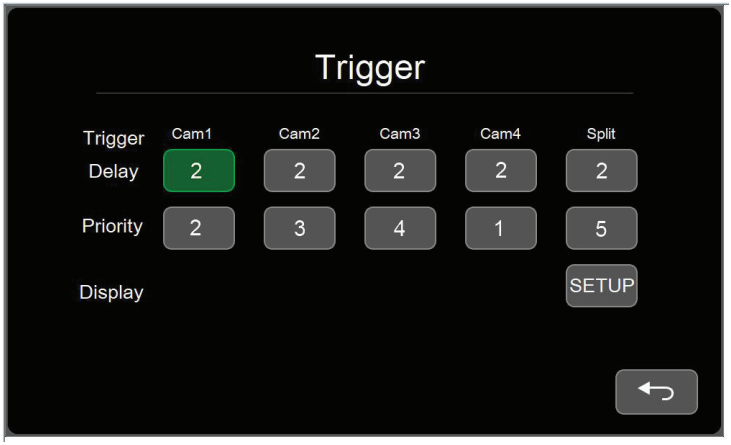


- The text highlighted in green indicates which tx is displayed at that position
- Press left/right button then the OK button to select any tx in the corresponding position

7.3.5 Quad View Display Settings

- The text highlighted in green indicates which tx is displayed at that position
- Press left/right button then the OK button to select any tx in the corresponding position

7.3.6 Trigger



Trigger Delay: value can be set from 1 to 60s

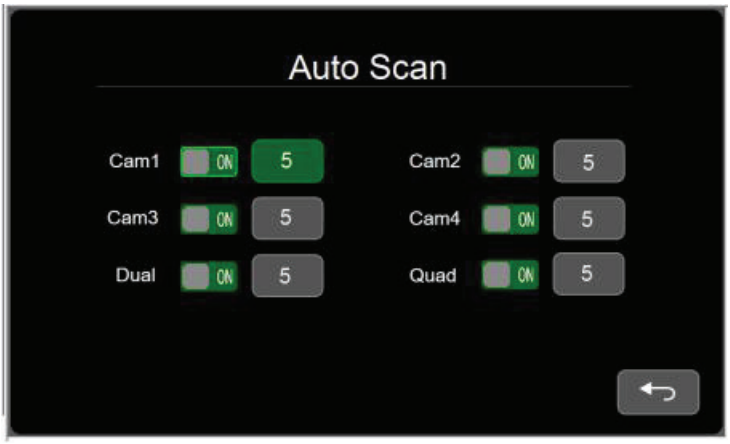
Priority: value can be set from 1 to 5; 1 refers to the highest priority and 5 refers to the lowest priority

Display: you can select the corresponding channel after triggering, only applicable to the yellow trigger line

- Trigger function takes precedence over automatic scan function

- When the trigger signal is detected, the signal source will automatically switch to the corresponding view and returns to the previous view when the delay time runs out; support standby trigger

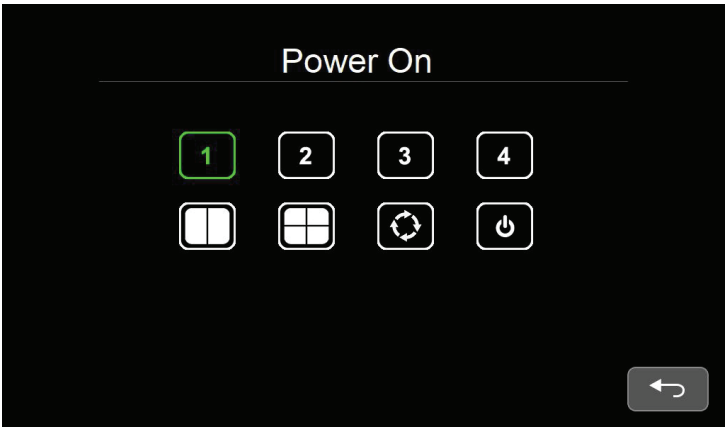
7.3.7 Auto Scan



- Each view can be set whether to be automatically scanned. The duration of automatic scanning ranges from 5s to 60s, 10s by default

Press "<" or ">" to move green highlight the "OK" to confirm. Press "Menu" to exit.

7.3.8 Power On



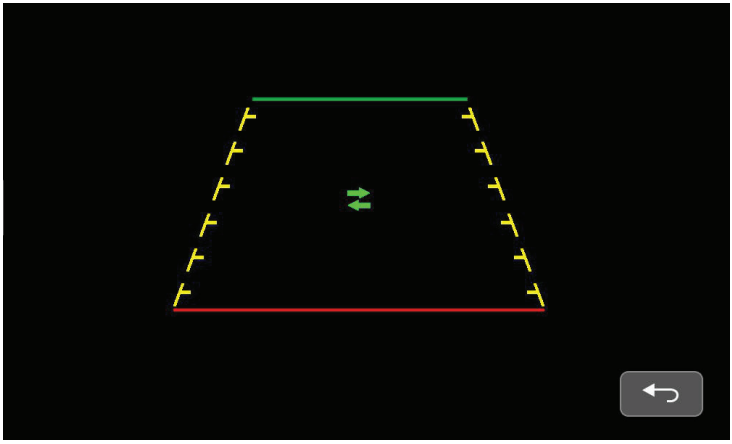
- Press the left/right button to select the corresponding icon, then press "OK" to confirm the corresponding view will be displayed upon startup or automatic scanning or standby

- Press "Menu" to exit.

7.3.9 Parking Line

- When it is set to ON, Only CAM1, CAM2, CAM3, and CAM4 triggered views will have the reversing cursor

Use "<" or ">" to move green highlight then "OK" to change use the arrow keys to adjust then "OK" to confirm.

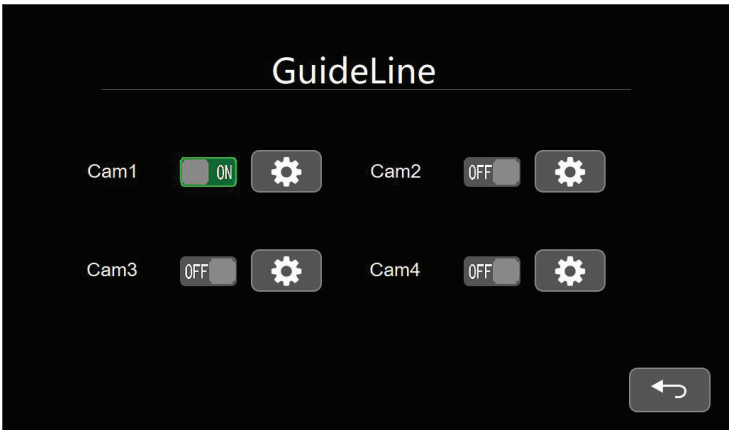


Indicates that currently the cursor can be adjusted left or right by left/right keys

Indicates that currently the cursor can be adjusted up and down by left/right keys

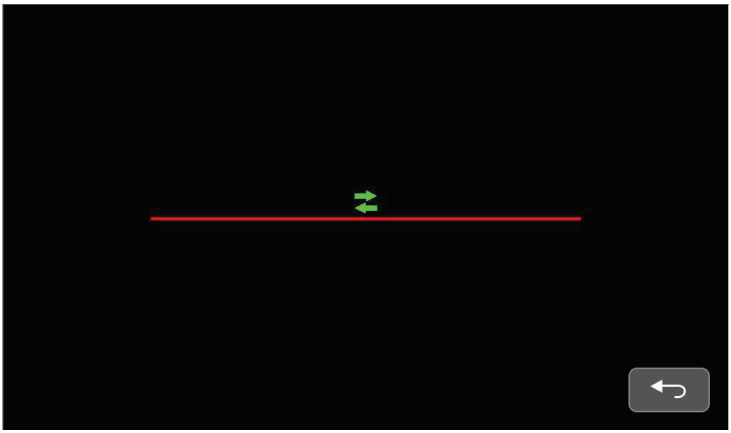
Indicates that currently the cursor size can be adjusted by left/right keys The OK key is used to switch between different modes then press "Menu" to exit.

7.3.10 Guide Line



Feature Instructions:

- When the switch is ON, the single view will display the guide line.



Other Instructions:

: The left and right keys enable the cursor to move left and right.

: The left and right keys enable the cursor to move up and down.

: The left and right keys enable the adjustment of cursor size.

Feature Instructions:

- The OK key is used to switch between different modes.
- Once adjustments have been made press "Menu" to exit.

7.4 Standby

Determines the Trigger response when the "Power" button is pressed.

Screen Off: normal standby mode, the trigger function still works, with only the monitor and camera powered off

Shut down: similar to Screen Off mode, but does not respond to trigger signals

1) Antennas should be vertically lined to the ground. Make sure there is no obstacle around

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 20 seconds, during which the camera to be paired should 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, 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.

- 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 or obstructions between the monitor and the camera, an extended antenna should be used to bypass the metal shielding to ensure adequate transmission of antenna signal.

(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, to ensure better transmission of camera.

8. Troubleshooting

Problem	Cause	Solution
No Signal	Camera is not paired.	Pair the camera to the monitor (see page 12).
	Camera has no power. You can check if the camera is receiving power by covering the glass panel, the light sensor below the lens will detect the drop in light and turn on the 4 IR LEDs next to the lens, which will faintly glow red.	If the IR LEDs do not glow red, check the power connections.
	Antenna is not securely connected.	Attach the antenna securely.
	The signal is being blocked. Metal obstructions between the monitor's antenna and the camera's antenna will block the signal.	Connect a patch antenna to either the camera or monitor, and then install the antenna in a location with a better line-of-sight between the 2 antennas.
Intermittent signal	The signal is being blocked, see the row above.	A patch antenna is required, see the row above.
	Antenna is not securely connected.	Attach the antenna securely.
Only one camera will pair at a time.	After pairing a camera to channel 1, if a second camera is paired to channel 1, the first camera will be overwritten.	After pairing a camera, change the channel on the monitor to the next channel (CAM1 > CAM2 > CAM3 > CAM4. See page 12).
Buttons do not work.	The trigger wires have been incorrectly connected to a constant power source. The monitor does not allow adjustments to be made while reversing or turning.	Disconnect the trigger wires from the constant power source.
The monitor will not turn off.	The trigger wires have been incorrectly connected to a constant power source. The monitor does not allow adjustments to be made while reversing or turning.	Disconnect the trigger wires from the constant power source.

WARRANTY

Congratulations on your purchase of a quality product! You're joining thousands of satisfied customers who enjoy & experience the benefits of the products we distribute. In the unlikely event that some technical difficulty arises with your purchase, be assured that we are most anxious to see that the problem is quickly rectified to your satisfaction. Please familiarise yourself with the following simple conditions of our warranty. This warranty covers faults through component failure or failure of the product to operate in accordance with published specifications. Product failure as a result of unreasonable environmental conditions, accident, misuse, improper installation, unauthorised repair, vehicle electrical or wiring faults or neglect etc, will not be covered by this warranty. Removal and installation costs, if any, would be paid by the owner as well as any freight or postage costs of transporting the product to AUTOBACS AUSTRALIA PTY LTD and shall not be liable or responsible for any loss of use of this product or any form of consequential loss.

CONSUMER WARRANTY

This product is warranted by AUTOBACS AUSTRALIA PTY LTD to be free from defects in materials and workmanship under **NORMAL USE** for a period of **THIRTY SIX MONTHS** from the date of purchase.

WITHIN 30 DAYS OF PURCHASE DATE:
Please return the unit for replacement to our National Service Centre or the Retailer from where you made the purchase. All accessories must be included. Proof of purchase date **must** accompany the products.

AFTER 30 DAYS OF PURCHASE DATE:
Warranty repair and service is carried out by our National Service Centre. Repair and service will be carried out at no cost to the owner if proof of ownership and the date of purchase can be verified to the satisfaction of the authorised centre concerned with this repair. This proof should take the form of either:
a) The warranty card accompanying this product, stamped and dated by the dealer.
b) A Tax Invoice or Receipt showing full details of original vendor, purchaser, model number and serial number.

COMMERCIAL WARRANTY

A product used in or associated with a commercial application will carry a limited TWELVE MONTHS warranty. An abnormal commercial application is one where usage, dust, vibration, heat/cold and other environmental conditions exist at an extreme level.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Purchaser's Name: _____

Purchaser's Address: _____

_____

Model Number: _____ **Serial Number:** _____

Dealer Name: _____ **Date of Purchase:** / /

Dealer Address: _____

Invoice/Sales Docket no: _____

General Hints: To expedite service and prompt return of the equipment, please:

a) Clearly describe the fault in detail
b) Safely and securely pack the unit for transport
c) Include your return address
d) Provide proof of purchase date as outlined above

National Service Contacts:
AUTOBACS AUSTRALIA PTY LTD
Telephone: 1300 288 029
email: services@autobacs.com.au

Anything about cars. you find at AUTOBACS