Operating Instructions



2.4G 1080P Digital Wireless Monitor

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

V 1.2

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1.Precautions

• Storage and Keeping

- (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) Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places.
- (3) Never use this device in the environment with excessive moisture, dust or smoke.
- (4) Avoid dropping or striking.
- (5) Never use 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.



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

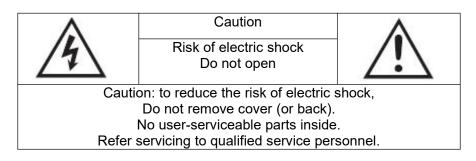


Occasionally, a few highlights or dark spots may occur on the LCD screen. That is a very common phenomenon in active matrix display technology, and it doesn't necessarily indicate any defects or faults.

Never try to repair this device by yourself. If any problem, 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 invalidate 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.
- (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 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.

FCC Warning

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 acce pt any interference received, including interference that may cause undesired operation.

NOTE 1: 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 designe

d to provide reasonable protection against harmful interference in a residential insta

llation. This equipment generates, uses and can radiate radio frequency energy and,

if not installed and used in accordance with the instructions, may cause harmful inte

rference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interfe rence to radio or television reception, which can be determined by turning the equip ment off andon, 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.

This equipment should be installed and operated with minimum distance 20cm betw een the radiator & your body.

NOTE 2: Any changes or modifications not expressly approved by the party responsib

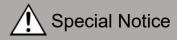
le for compliance could void the user's authority to operate the equipment.

2.Features

- (1) TFT LCD monitor with wide angle view and high resolution display.
- (2) Image can be set to horizontally flipped, vertically flipped and norma.
- (3) Support multiple image display modes like single, dual, quad.
- (4) Support 5 x triggers, trigger priority & trigger delay are selectable.
- (5) Support auto scan, scan channel and scan time are selectable.
- (6) Support backlight adjustment manually and automatically.
- (7) Supports parking line, parking line size and position can be adjusted.
- (8) With 1.5W speaker.
- (9) Monitor operated by remote control or keypad.
- (10) Working voltage: 10-32V.
- (11) Compliance with CE/FCC standards.
- (12) 4 wireless camera input.
- (13) Capacitive touch-screen.

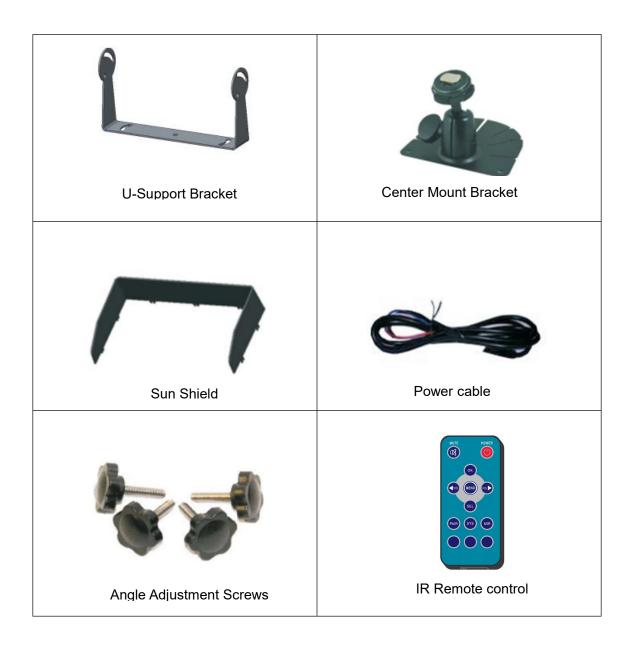
3.Technical Specifications

LCD Size	10"
Resolution	1024 x 3(RGB) x 600
Contrast	600:1
Brightness	600cd/m²
View Angle	U: 85 / D: 85, R / L: 85
Aspect Ratio	0.2175(W) x 0.2088(H)
Camera Channel	4 channels
Operating Frequency	2408 -2478MHz
Receiving Sensitivity	-78 dBm
Decompression Form	H.264
Modulation	FHSS
Time Delay	200 ms
Transmitting Distance	Max. 300 m
Micro SD Card	Max. 128 GB
Power Supply	DC 10-32V
Power Consumption	Max. 10W
Loudspeaker	1.5W / 8Ω
Operating Temperature	-20~+70°C,RH90%
Storage Temperature	-30~+80°C,RH90%



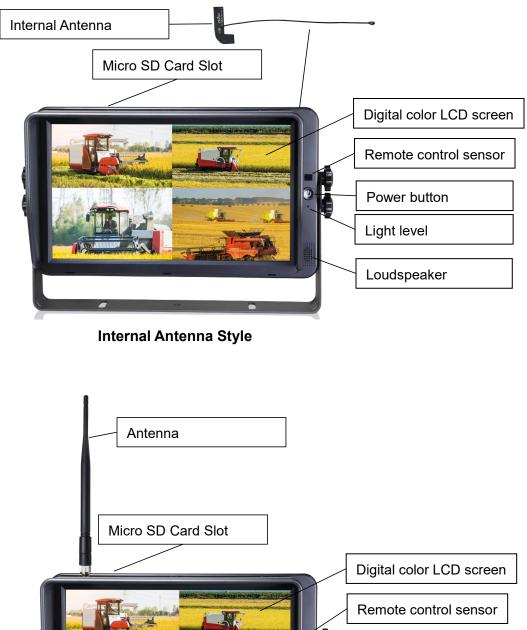
All specification are subject to change without notice.

4. Accessories





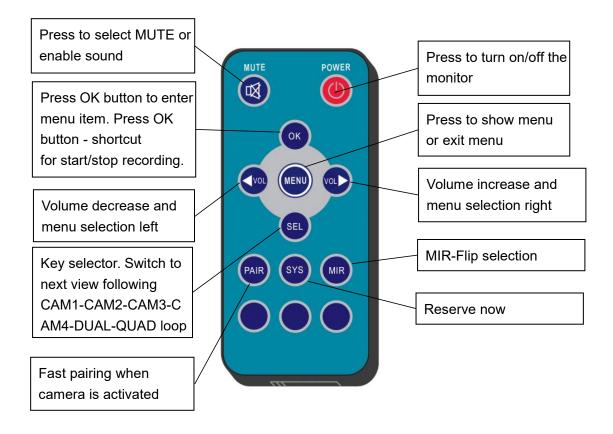
5.Parts Identification



Digital color LCD scree Remote control senso Power button Light level Loudspeaker

External Antenna Style

6.Remote Control Operation



• 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.

• SEL Key selector. Switch to next view following CAM1-CAM2-CAM3-CAM4-DUAL-QUAD loop.

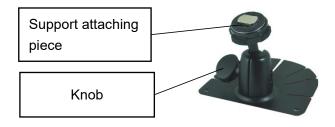
• PAIR Fast pairing when camera is activated.

• MIR MIR-Flip selection.

7.Basic Operation

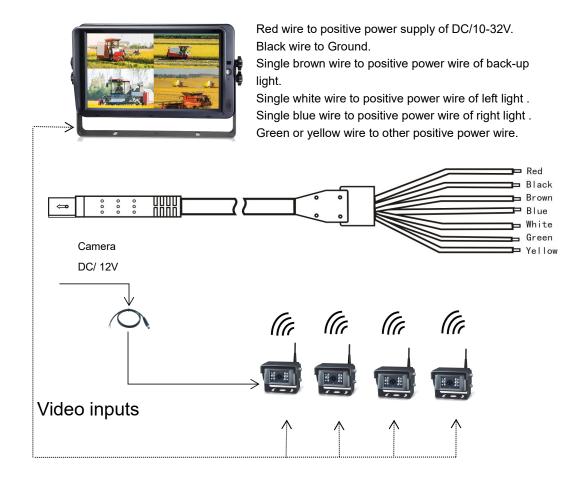
7.1. Installation of Center Mounting Bracket

- 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.



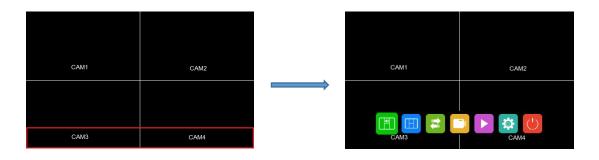
7.2. Installation of U-support Bracket



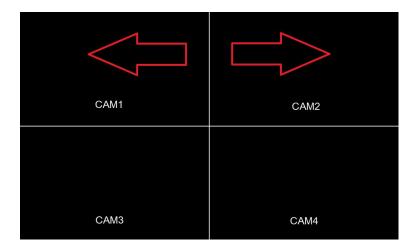


8.Menu Operation and Functional Specification

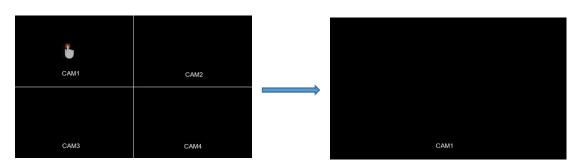
8.1 Preview Interface



• The main menu can be brought up by touching any position inside the red box area or press the MENU button of the remote control

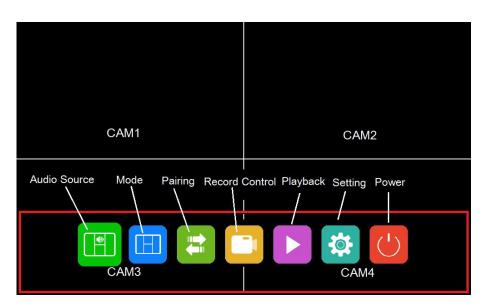


- Swipe left or right on the screen can switch between different views, in the order: CAM1->CAM2->CAM3->CAM4->DUAL->QUAD
- Slide up/down the screen to exit/enter standby mode quickly



 In split mode, touch the camera channel to scale to full screen, and touch it again to return to the multi-split mode

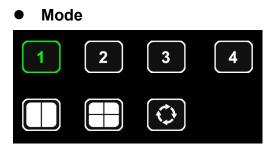
8.2 Main Menu



- Touch the icon to enter the menu or touch outside the red box to exit, long press the power button for 3s will open/close the menu lock, and touch is invalid when the menu is closed
- Audio source



- ① The audio channel can be switched in the multi-split view mode, click the area outside
- ② the menu to exit



① Select different icons to switch to the corresponding view, click the last icon will enable

automatic scanning

② Click the area outside the menu to exit

• Pairing

_		Pair	ing		
		~			
Pa	airing Camera	CAM1	CAM2	CAM3	CAM4
C	Delete Camera	CAM1	CAM2	CAM3	CAM4

Pairing Camera: connect to tx of the specified channel

Delete Camera: delete the tx of the corresponding channel

Record Control

Click the icon to start or stop recording

PlayBack



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

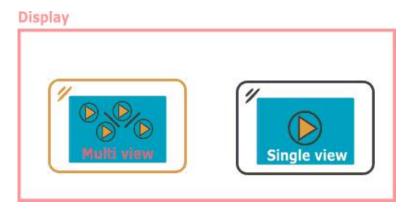


Camera: the tx that the recording file belongs to

Name: filename

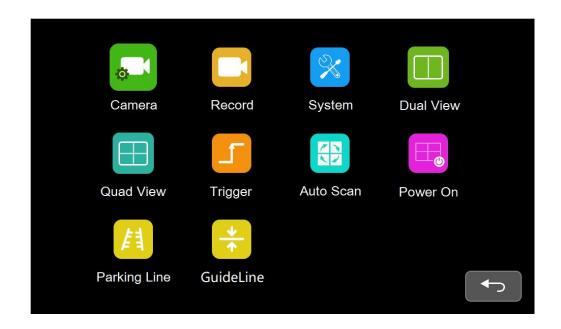
Created: creation date

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;

8.3 Setting



• No operation of the menu within 30 seconds, the monitor will exit from the menu automatically

8.3.1 Camera Display Settings

C	AM1	CAM2	CAM3	CAM4
Brightness		- 50	-	
Contrast		- 50		
Saturation		50	H Mirror	OFF
Hue	<u>.</u>	- 50	V Mirror	OFF
Volume		- 50		

CAM: Touch or press the left/right button plus 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 of the remote control to return to the channel selection

Brightness: drag the corresponding slider bar to adjust the brightness

Contrast: drag the corresponding slider bar to adjust the contrast

Saturation: drag the corresponding slider bar to adjust the saturation

Hue: drag the corresponding slider bar to adjust the hue

Volume: drag the corresponding slider bar to adjust the 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: when the cursor in the slider area is in green, you can select different icons. 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

	Reco	ord		
Record Time	1 Min	3 Min	5 Min	
Format SD Card				
Date&Time				
Power On Record	OFF			

8.3.2 Record

Record Time: choose the duration of the video

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

Date&Time:

Date	2021	05	27	
Time	15	05	45	
				t

Touch or press left/right plus OK key of the remote control to enter the value setting interface, and set the date and time through the small keyboard

Date: select the corresponding year, month and day Time: select the corresponding hour, minute, and second

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

System					
Dimmer					
	Auto OFF				
Menu Lock	0FF Buzzer 0FF				
System Upgrade	Language				
Reset	Q				

8.3.3 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 touching the icon

Day	99	
Night	00	

Day: the screen brightness under high ambient brightness

Night: the screen brightness under low ambient brightness

- **Menu Lock**: when it is set to On, touch is invalid; when set to OFF, you can operate by touching
- **Buzzer:** when it is set to On, Touch, remote control and key pad operation will make a "beep".
- **System Upgrade:** If there is a firmware named "SNCC7XFW.bin" in the inserted SD card, click this icon and confirm the upgrade, the device will be upgraded to this firmware.
- **Language:** Click this icon to enter the language selection interface, currently supporting English, German, French, Chinese.
- **Rese**t: reset operation does not change the tx and rx connection status of the system, but only system parameters

8.3.4 Dual View Display Settings

CAM1 CAM2 CAM3 CAM4	CAM1 CAM2 CAM3 CAM4

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

8.3.5 Quad View Display Settings

CAM1 CAM2 CAM3 CAM4	CAM1 CAM2 CAM3 CAM4
CAM1 CAM2 CAM3 CAM4	CAM1 CAM2 CAM3 CAM4

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

8.3.6 Trigger

		Tri	gger		
Trigger Delay	Cam1	Cam2	Cam3	Cam4	Split
Priority	2	3	4	1	5
Display					SETUP

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

8.3.7 Auto Scan

		Αι	ito Scan			
Cam1	ON	5	Cam2	ON I	5	
Cam3	CN 🤍	5	Cam4	on 📃	5	
Dual	CN	5	Quad	i ON	5	
					•	

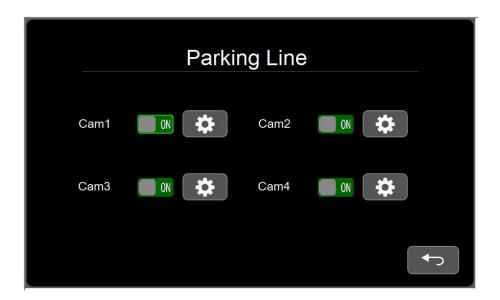
• A window will pop up by touching the number box. Press On/Off to turn on/off the automatic scanning function. Each view can be set whether to be automatically scanned. The duration of automatic scanning ranges from 5s to 60s, 10s by default

8.3.8 Power On

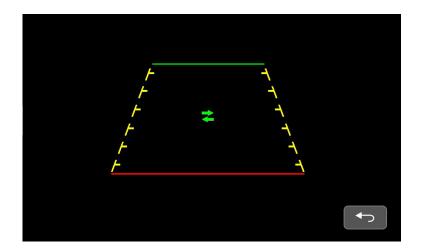
	Po	wer On		
(1 2	3	4	

- Touch or press the left/right button to select the corresponding icon, and the corresponding view will be displayed upon startup or automatic scanning or standby
- Touch the highlighted icon or press OK button, the green cursor will disappear, and enter the Last mode, specifically, automatically enter the state before shutdown upon power-on

8.3.9 Parking Line



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





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

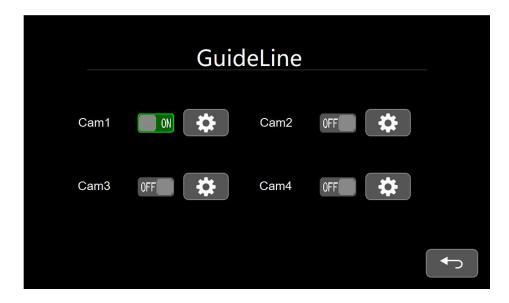


Indicates that currently the cursor can be adjusted up and down by left/right keys



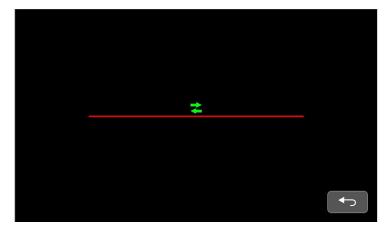
Indicates that currently the cursor size can be adjusted by left/right keys The OK key is used to switch between different modes

- The cursor position can be adjusted by sliding with one finger, and the cursor size can be adjusted with two fingers. The status of icons in the middle of the cursor does not affect the adjustment
- 8.3.10 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.

• The cursor can be adjusted by sliding on the screen with one finger, and the cursor size can be adjusted with two fingers. The status of icons in the middle of the cursor does not affect touch adjustment.

8.4 Standby



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

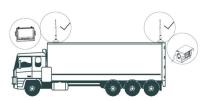
Shut down: similar to Screen Off mode, but does not respond to trigger signals

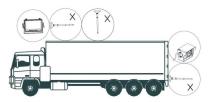
9. Installation Tips

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



9.2 Magnet based extension antenna should be attached on the top of the vehicle. Make sure there is no obstacle around or between 2 antennas.





9.3 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 20 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, 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 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.

10. Troubleshooting

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.		