

# 1080P high definition digital wireless system manual



IATF16949:2016



ISO 9001:2008



Thank you very much for purchasing our company's visual safety assistance system for vehicles and mechanical equipment. To improve operational efficiency and provide security for personnel and machinery, we strictly follow the IATF 16949 quality. The management system, the product adopts the industrial grade raw material plan design, and the advanced detection equipment provides reliable. Sex and stability. Products conform to China MA, Europe and the United States FCC, CE, E-MARK, Japan and other international standards.

## System characteristics

- ★ Digital wireless on-board display adopts 7-inch 1024x600 LCD with high resolution, and its shell is made of high-temperature PC material and aluminum alloy.
- ★ The display has wide range of voltage input DC8V-32V, which is widely used for vehicle and machinery safety monitoring.
- ★ The display has built-in 2.4G wireless reception and wireless reception range up to 100 meters (open distance).
- ★ The display built-in power reverse polarity protection circuit design, effectively prevent human error operation damage equipment
- ★ The display backlight has built-in constant voltage and constant current circuit protection design, and the service life is extended.
- ★ The display OSD menu can be set up separately for each camera to flip up and down.
- ★ The display of single screen channel can set up automatic cycle switching mode.
- ★ Display multi screen display, display mode can be set arbitrarily.
- ★ The display supports four channels of wireless digital video reception, and can display single picture, two picture, three picture and four picture mode.
- ★ The reversing scale shows the safe operation of auxiliary reversing.
- ★ The complete and compact structure design of the display has 5G seismic strength.
- ★ 1080P Digital HD wireless car camera shell uses aluminum alloy design, anti fog and waterproof level IP69K;

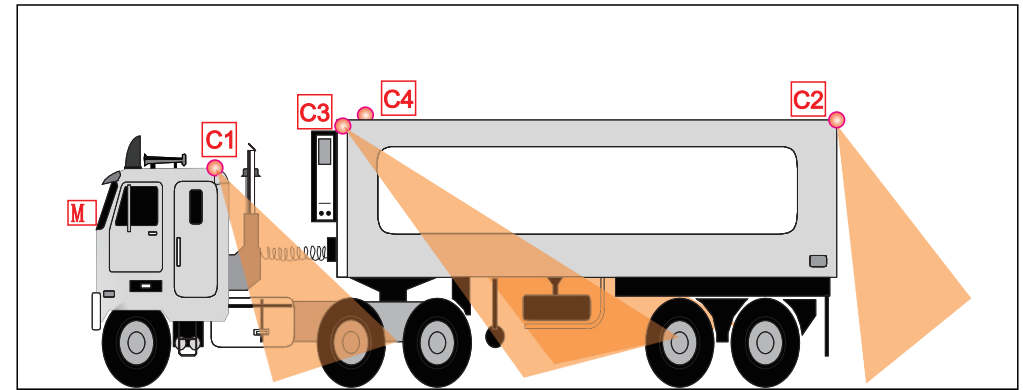
## Matters needing attention

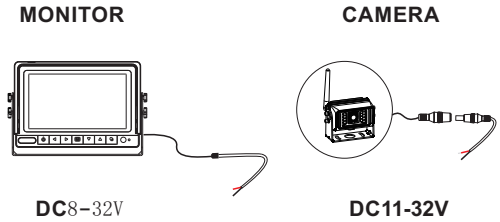
- ★ Before using the company's products, read the instructions about functions and so on.
- ★ The red and black power cables of the display are respectively connected to the main power supply of the engine of vehicle equipment, and the voltage range is DC8-32V.
- ★ After installation, ensure all connections are secure and reliable.
- ★ The monitor is not waterproof, and the monitor should not be placed outside.
- ★ Do not arbitrarily disassemble the camera housing, so as not to damage the waterproof function.
- ★ When cleaning cameras and monitors, the main body should not be cleaned with corrosive chemical cleaners to avoid damage to the shell.

### warning









The maintenance of the system must be maintained by professionals. Please do not disassemble and improve the system at will.  
 This product system is only a visual auxiliary function for vehicle mechanical equipment operation safety, and is not responsible for safety accidents.  
 This manual is for reference only. If there are no details and changes, without prior notice, the final interpretation will be owned by the company.

## Schematic diagram of system installation



M	MONITOR	 <p>MONITOR DC8-32V</p> <p>CAMERA DC11-32V</p>
C1	Forward camera	
C2	Rear camera	
C3	Left camera	
C4	Right camera	

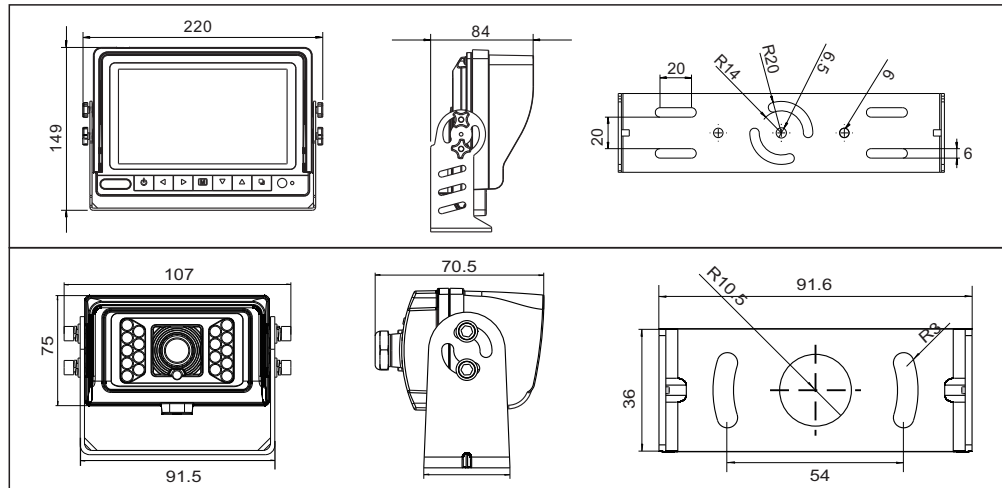
## Applicable vehicles

1	Sedan				
2	Truck				
3	RV / SUV				
4	Bus / school bus	1	2	3	4
5	Heavy truck				
6	Engineering car				
7	Agricultural machinery	5	6	7	8
8	Forklift				

## Camera technical parameters

Camera	Digital wireless infrared waterproof camera
Emissive power	18dBm
Image sensor	1/2.9" colour CMOS
Valid pixel	PAL:1920(H)X1080(V)
Definition	1080P
IR-CUT	Automatic switching
Minimum illuminance	0 Lux (Built in 18PCS infrared light to turn on)
Viewingangle	110°
Waterproof grade	IP69K
Shockproofgrade	5G
Workingvoltage range	DC11~32V
Shapesize	107(W) x 75(H) x 70.5(D) mm

## System size drawing



## Enclosure



## Monitor key press instructions

①	Power	
②	Left key	
③	Right key	
④	Mune	
⑤	Single channel switching	
⑥	Nc	
⑦	Confirm key/Multi-screen switching	

## Monitor technical parameters

Display device	Color LCD monitor
LCD display size	7"
Frequency range	2400 ~ 2483.5MHz
Receiving sensitivity	≤ -86dBm(1MHZ QPSK MD300RE)
Resolution	1024×(RGB)×600
Viewing angle (LR/UD)	L/R: 85/85 U/D: 85/85
Contrast ratio	800:1
LED brightness (cd/m <sup>2</sup> )	600
Response time (ms)	25
Receiving range	100M (Open distance)
Throw the load	DC 24+174V/350ms
Working temperature	-20℃~+60℃
Storage temperature	-30℃~+70℃
Input power supply	DC 8~32V (5W Max)
Waterproof grade	IP68
Shape size (L x W x T)	220X149X84(mm)(Sunshade cap with bracket)

## Monitor menu operation instructions



Code Pairing



Image Settings



Image Flip



Multi-screen settings



System Settings



Automatic Jump



Reversing Ruler



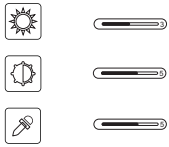
Video Settings



Play Settings

Please press pair key  
on camera side  
20

- 1) The code set:  
Enter the menu and select the code matching option menu and press the confirm button to start the code matching, and the code matching will be displayed, Characters Please press pair key on camera side 20, code time The countdown is 20 seconds, and the camera is powered on and waits for 5 to 10 seconds. The display and the camera will automatically code, The image is displayed normally.



- 2) Image set:  
Enter the menu, select the image settings options menu, press the confirmation button to enter the image settings:  
1. Brightness setting: 0-9 (left / right key adjustment step size)  
2. Contrast settings: 0-9 (left / right key adjustment step size)  
3. Color settings: 0-9 (left / right key adjustment step size)  
4. Volume control: 0-9 (left / right key adjustment step size)

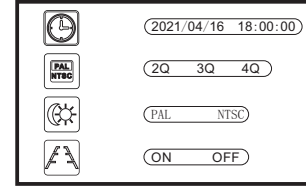


- 3) Image rollover settings:  
Set the four states of the CAM1/CAM2/CAM3/CAM4 channel image:  
Positive image, mirror image, vertical flip image and vertical flip mirror, Default state: Not mirrored.

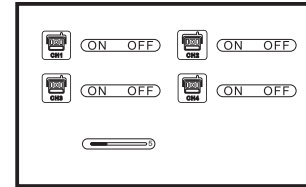


- 4) Multi screen mode display settings:  
1. Set the screen to be displayed when switching to multi-screen. Five modes select 1/2 two pictures, 3/4 two pictures, 2/3/4 three pictures, 1/2/3/4 four pictures, and H-type 1/2/3/4 four pictures;  
2. Can be set to open and close, the default state to open, the display mode is 田 four screen.

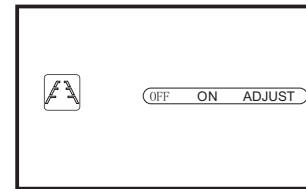
## Monitor menu operation instructions



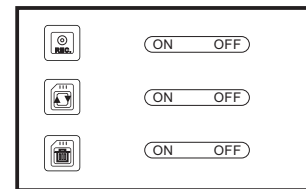
- 5) System settings:  
1. Switch between NTSC and PAL, Default state: NTSC;  
2. Set up the LED screen environment light source mode to turn on and off;  
3. Reversing scale setting: set up CAM2 channel reversing scale open and close.



- 6) Automatic switch mode settings:  
1. Set up CAM1/CAM2/CAM3/CAM4 channel automatic switching mode to turn on and off;  
2. Set CAM1/CAM2/CAM3/CAM4 channel automatic switching mode time value 5~45, Default state: 5S.



- 7) Reversing ruler:  
1. Reversing priority: CAM2>CAM3>CAM4>CAM1  
2. Reversing delay: 5S by default;  
3. Reversing ruler setting: Set the CAM2 channel to turn on and off the reversing ruler;  
4. The default CAM1 screen is on when it is turned on.



- 8) Video settings:  
1. REC recording;  
2. Automatic coverage;  
3. Format settings.



- 9) Play settings:  
1. Play files;  
2. One channel is 1080P, four channels is 720P;  
3. AVI format video file format.