

720P two-way high-definition digital wireless DVR monitoring system instructions



We appreciate your purchase of our company's Visual Safety Assistance System for vehicles and mechanical equipment. In our commitment to enhancing operational efficiency and ensuring the safety of both personnel and machinery, we adhere rigorously to the IATF1649 quality standards. Our management system prioritises the use of industrial-grade raw materials, employs meticulous product design, and utilises cutting-edge detection equipment to consistently deliver dependable quality. Our products are compliant with international standards, including those of China MA, Europe, the United States (FCC, CE, E-MARK)



IATF/16949



ISO 9001:2016



System characteristics

- ★ The digital wireless vehicle display adopts 7 inches 1024x600 high definition LCD screen and high temperature resistant ABS material.
- ★ DVR monitor has built-in TF card Max 256G Video recording and auto-loop covering .
- ★ 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 300 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.
- ★ Tow screen display, display mode can be set arbitrarily.
- ★ The display supports tow channels of wireless digital video reception.
- ★ The reversing scale shows the safe operation of auxiliary reversing.
- ★ Monitor complete and compact design, shockproof level is comply with GB/T 2423.10-2008.
- ★ 720P 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.
- ★ 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.

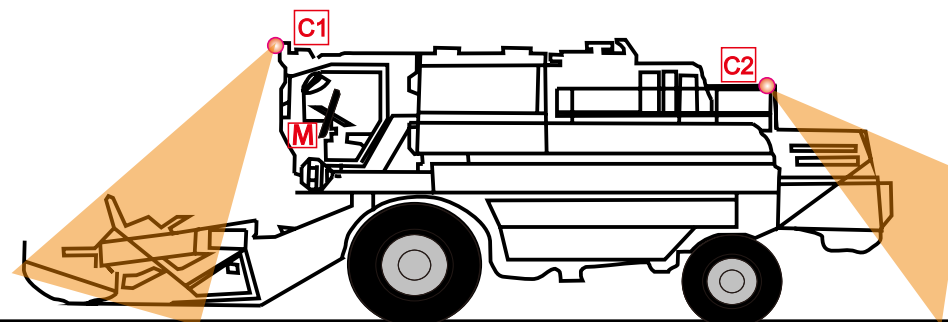
warning

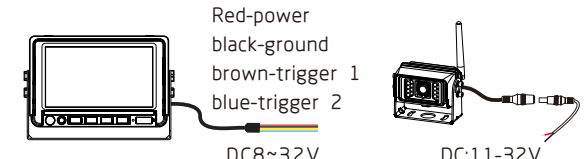
The maintenance of the system must be maintained by professionals. Please do not disassemble and improve the system at will.

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.

Installation schematic



M	MONITOR	MONITOR	WIRELESS CAMERA
C1	FORWARD-CAMERA	 <p>Red-power black-ground brown-trigger 1 blue-trigger 2</p> <p>DC8~32V</p> <p>DC:11-32V</p>	
C2	REAR VIEW-CAMERA		

Packing accessories



U-shaped bracket

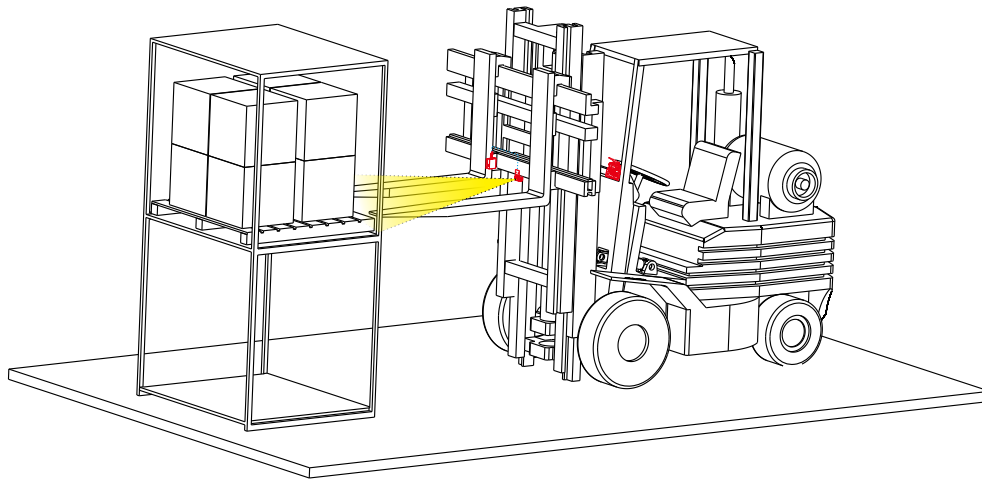
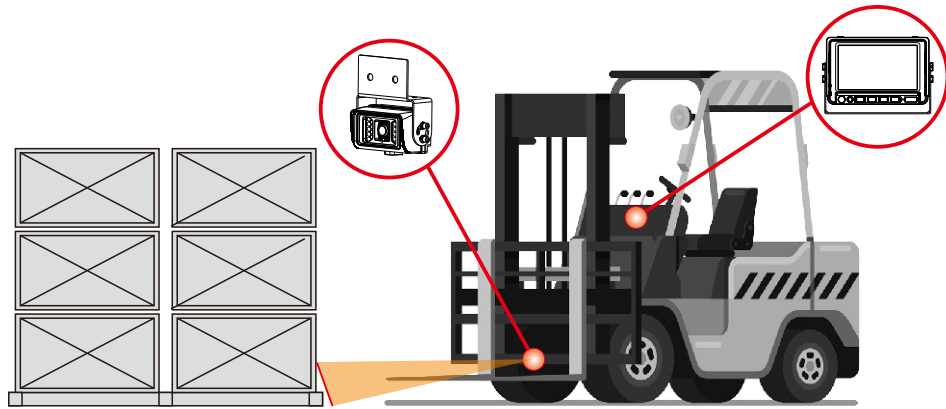


Power Cord

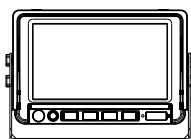


Antenna

Installation schematic



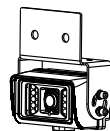
MONITOR



Red-power
black-ground
brown-trigger 1
blue-trigger 2

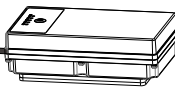
DC8~32V

WIRELESS CAMERA

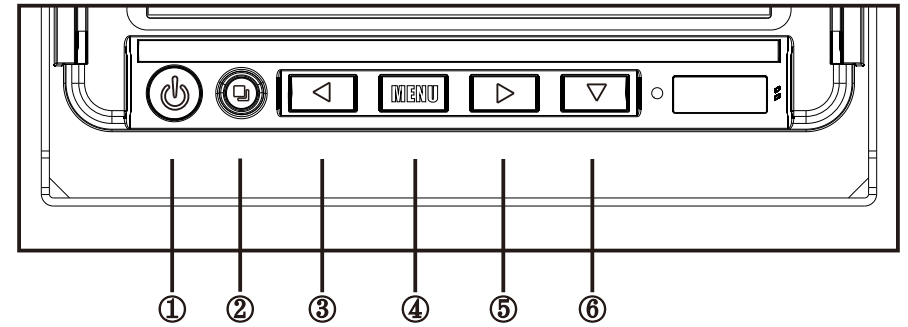








DC12V

MOBILE POWER



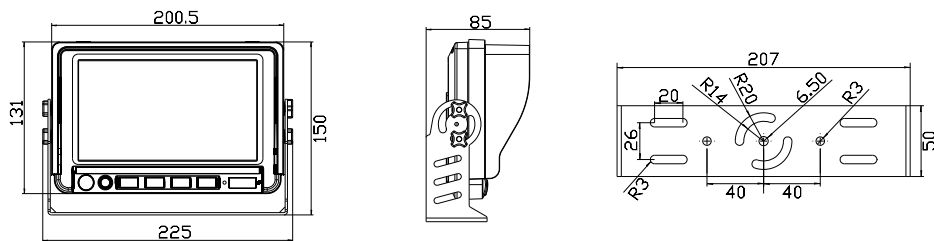
monitour button description



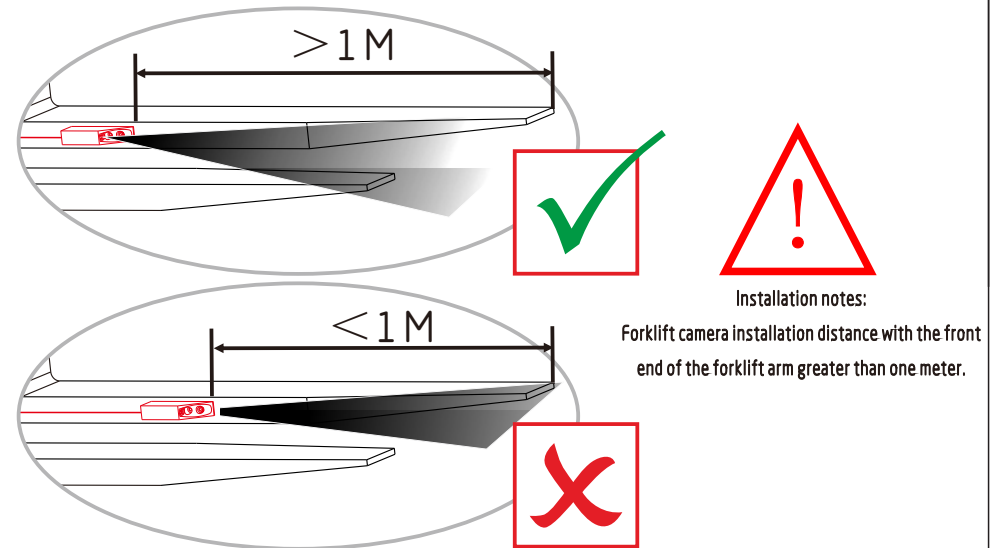
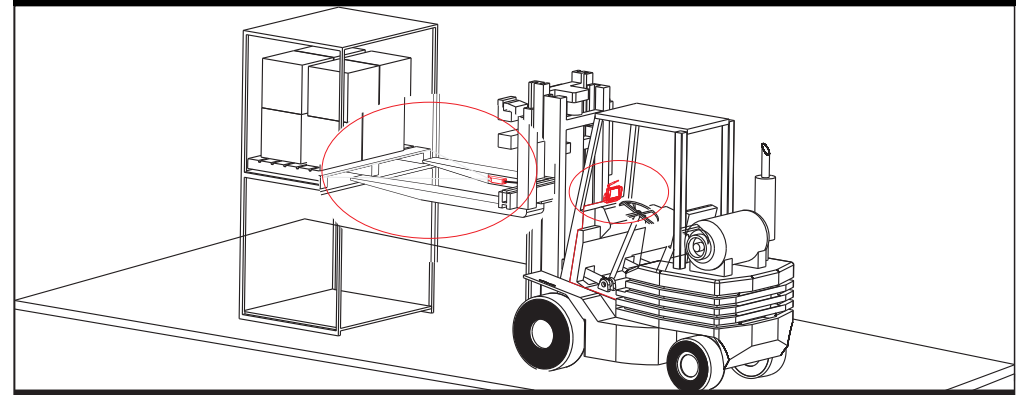
- ① -power key,
power key: On/off, on does not light, off red light
- ② -Confirm Key,
confirm key: menu option parameter adjustment confirm.
- ③ -Left Key,
Left key: Used for left adjustment of menu item parameter options,
- ④  Menu-Menu Key/Return Key,
Menu Key: press the MENU key to enter the main page of the MENU item. Press the left and right option keys to select.
Return key: menu options in the state, press 2 seconds to return to the previous level of menu options.
- ⑤ - Right button,
Right button: Used to right adjust menu item parameter options,
- ⑥ - Down key/Channel switch key,
Down key: for adjusting the parameters of menu items,
channel switch key: channel screen switch display.

Technical parameter of monitor

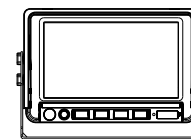
Monitor device	MWHD-772MD
LCD display size	7-inch IPS HD screen
Frequency range	2400 ~ 2483.5MHz
Receiving sensitivity	≤-86dBm(1MHZ QPSK MD300RE)
Effective Pixels	1024(H)*600 (V)
Viewing angle (LR/UD)	L/R: 85/85 U/D: 85/85
Contrast ratio	800:1
LED brightness (cd/m ²)	600
Receiving range	300M (Open distance)
Video format	AVI
Storage method	TF card storage(Max~256G)
Throw the load	DC 24+174V/350ms
Operating temperature	-20℃~+70℃
Storage temperature	-30℃~+80℃
Power Supply	DC 8~32V (5W Max)
Shape size(L x W x T)	225*150*84(mm)(Sunshade cap with bracket)



Installation schematic

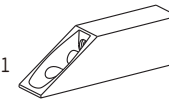


MONITOR

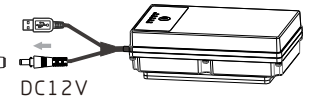


Red-power
black-ground
brown-trigger 1
blue-trigger 2
DC8~32V

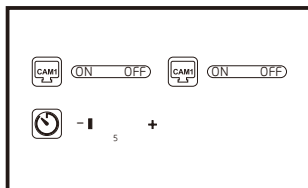
WIRELESS CAMERA



MOBILE POWER

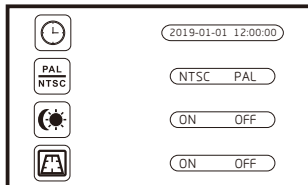


Monitor menu operation instructions



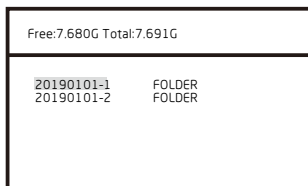
5) Automatic switch mode settings:

1. Set up CAM1/CAM2 channel automatic switching mode to turn on and off;
2. Set CAM1/CAM2 channel automatic switching mode time value 5~45, Default state: 5S.



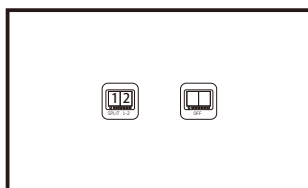
6) Function settings:

1. System time setting is consistent with the time when the video is saved
2. Switch between NTSC and PAL, Default state: NTSC;
3. Set up the LED screen environment light source mode to turn on and off;
4. Reversing scale setting: set up CAM2 channel reversing scale open and close.



7) Saved file playback:

1. Recording storage files can be played through this menu item;
2. The file name can be quickly viewed through the file name;
3. File name 20190101-1: 20190101 represents the recording time and suffix -1/-2 represents the video file of the CAM1/CAM2 channel.



8) Multi screen mode display settings:

1. Settings screen can be switched to two-screen display open by default.

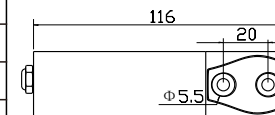
The video file is in AVI format. The video recording in a single channel takes about 100MB in 10 minutes, and the video in one hour is about 600MB. When the picture quality is low, the memory is smaller.

⚠ Precautions:

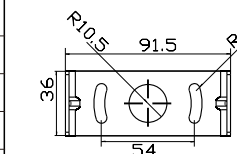
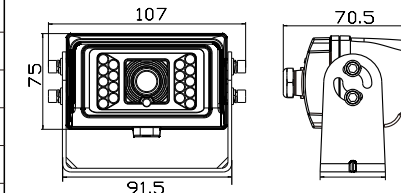
- 1) Press and hold the CAM.S button for 3 seconds to start or stop the DVR display recording function;
- 2) The DVR monitor starts the automatic REC recording, and does not record in the standby state;
- 3) The DVR monitor TF card displays a small yellow icon at the top of the screen when the TF card is working normally. When no TF card is inserted, there is no display. When the TF card is abnormal, the error white character is displayed. When the TF card is full, the Fullp character is displayed. 2.56G TF card;
- 4) When the DVR monitor receives unstable signal from camera, there is an image in the video detection for 10s to continue recording, and if no image is detected within 10s, the recording will be automatically stopped;
- 5) When the display is in the Play page in the OSD menu, the switch and the reverse trigger have no effect, and exiting this page can operate normally;
- 6) Reverse trigger which delay TRIG1/TRIG2/default 6S cannot be set.

Camera parameters

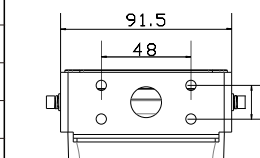
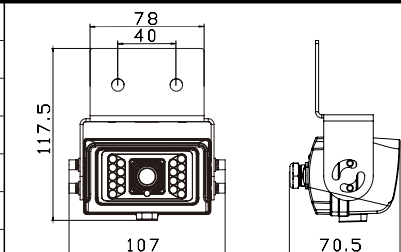
Camera	CWHD-231M
Transmitting power	18dBm
Image sensor	1/2.9" colour CMOS
Effective Pixels	1280(H)X960(V)
Resolution	720P
Minimum illuminance	1 LUX
Viewing Angle	52°
Waterproof grade	IP69K
Shockproof grade	5G
Power Supply	DC12V
Shapesize	126.5(W) x 37(H) x 24.5(D) mm



Camera	CWHD-151
Transmitting power	18dBm
Image sensor	1/3.7" colour CMOS
Effective Pixels	1280(H)X960(V)
Resolution	720P
IR-CUT	Automatic switching
Minimum illuminance	0 LUX (Infrared light on)
Viewing Angle	120°
Waterproof grade	IP69K
Shockproof grade	5G
Power Supply	DC11~32V
Shapesize	107(W) * 75(H) * 70.5(D) mm

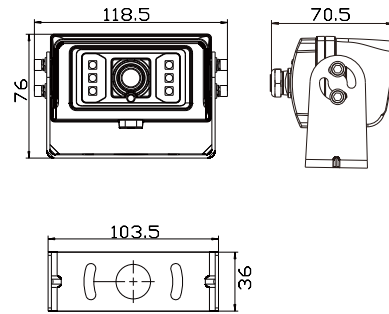


Camera	CWHD-15A1
Transmitting power	18dBm
Image sensor	1/3.7" colour CMOS
Effective Pixels	1280(H)X960(V)
Resolution	720P
IR-CUT	Automatic switching
Minimum illuminance	0 LUX (Infrared light on)
Viewing Angle	120°
Waterproof grade	IP69K
Shockproof grade	5G
Power Supply	DC11~32V
Shapesize	107(W) * 117.5(H) * 70.5(D) mm

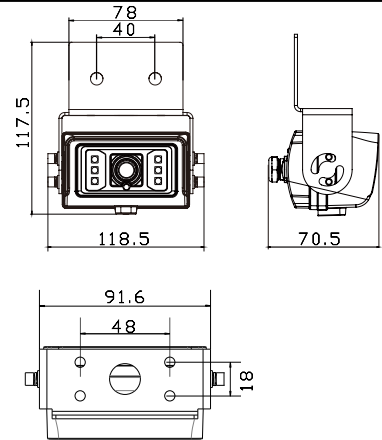


Camera parameters

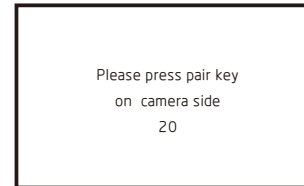
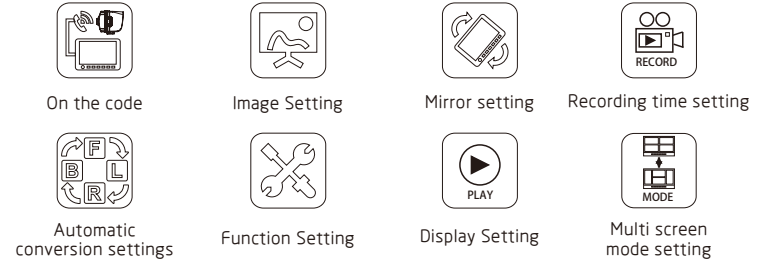
Camera	CWHD-161
Transmitting power	18dBm
Image sensor	1/3.7"colour CMOS
Effective Pixels	1280(H)*960(V)
Resolution	720P
IR-CUT	Automatic switching
Minimum illuminance	0 LUX (Infrared light on)
Viewing Angle	120°
Waterproof grade	IP69K
Shockproof grade	5G
Power Supply	DC11~32V
Shapsize	118.5(W) * 76(H) * 70.5(D) mm



Camera	CWHD-16A1
Transmitting power	18dBm
Image sensor	1/3.7"colour CMOS
Effective Pixels	1280(H)*960(V)
Resolution	720P
IR-CUT	Automatic switching
Minimum illuminance	0 LUX (Infrared light on)
Viewing Angle	120°
Waterproof grade	IP69K
Shockproof grade	5G
Power Supply	DC11~32V
Shapsize	118.5(W) * 117.5(H) * 70.5(D) mm

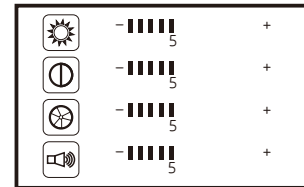


Monitor menu operation instructions



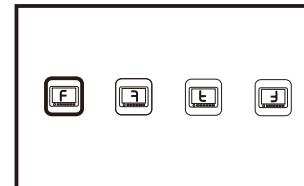
1) Code Pairing:

Enter the menu ,select code pairing option, start pairing the wireless signal code and countdown 20 seconds, please press pair key on camera side or connect(or reconnect) the power of the camera within the time, wait few seconds, code paired up and image display successfully



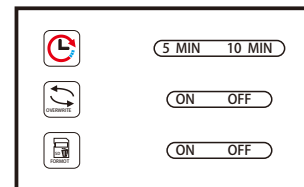
2)Image settings:

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)Mirror settings:

Set the four states of the CAM1/CAM2 channel image:
 Positive image, mirror image, vertical flip image and vertical flip mirror,Default state: Positive image.



4)Video storage time setting:

1. Recording file package storage time can be set to 5 MIN or 10MIN;
 2. Set the CAM1/CAM2 channel auto-jump to turn on and off.
 3. TF card formatting settings, the data stored in the TF card after formatting will be cleared,