

Video File Storage Reference

Video Nature	Video Size (10mins)	8G	32G	64G	128G	256G
Normal	110M	12h	48h	96h	192h	348h
Standard	220M	6h	24h	48h	96h	192h
High	330M	4h	16h	32h	64h	128h
Super	440M	3h	12h	24h	48h	96h

1080P/720P Quad View DVR Backup Rearview System User Manual



IATF 16949



ISO 9001:2015



Product Characteristics

- ★DVR monitor: 7" high resolution LCD monitor of 1024x600, housing of thermalstability material ABS+PC.
- ★DVR monitor built-in TF card storage, max support 256G, auto circulate record and overwrite.
- ★DVR monitor support wide voltage: DC11V-32V, suitable for all vehicular or machinery applications.
- ★DVR monitor support multi display mode(12 selective spilt-viewing modes).
- ★DVR monitor's back light equip with constant voltage/current circuit, prolonging monitor's life span.
- ★DVR monitor built-in over/under voltage protection.
- ★DVR monitor built-in power saving mode, optimize power and component usage.
- ★DVR AHD1/AHD2/AHD3/AHD4 support mirror image, up-down image and 90°/270° view orientation transformation.
- ★DVR AHD1/AHD2/AHD3/AHD4 support parking line ON/OFF.
- ★DVR monitor complete and compact design, shockproof level is comply with GB/T 2423.10-2008.
- ★Waterproof Level of HD camera is IP69K.

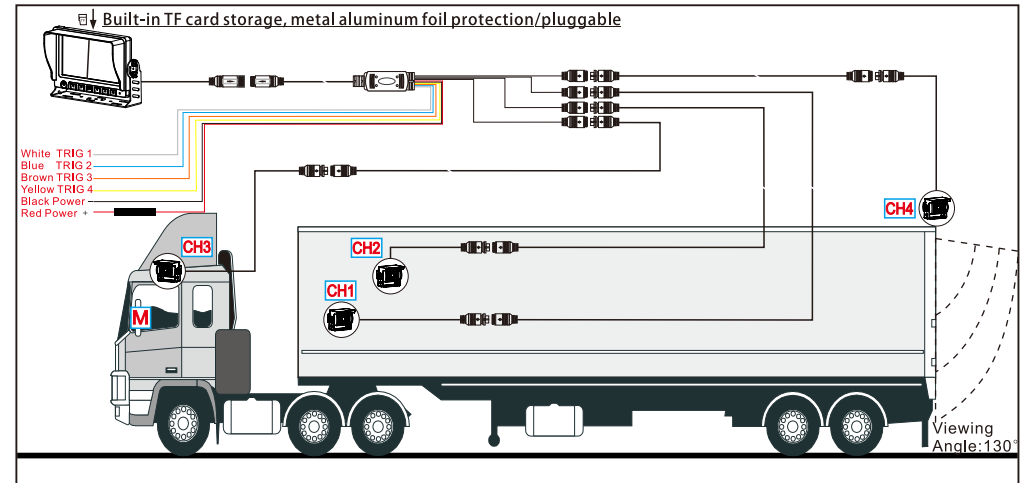
Notification

- ★ Please read this user manual before operation.
- ★ Bare wire(red & black)of monitor connect with power supply "+" "-" respectively, voltage range from DC8~36V.
- ★ Ensure all connections are sound are secure after installation.
- ★ Do not put the monitor outside for use. Do not block the exhaust hole on the housing for heat dissipation.
- ★ Do not disassemble the camera housing without authorization, lest damage the waterproof function;
- ★ Do not clean the main body with corrosive chemicals when cleaning cameras and monitors to avoid damaging the housing.

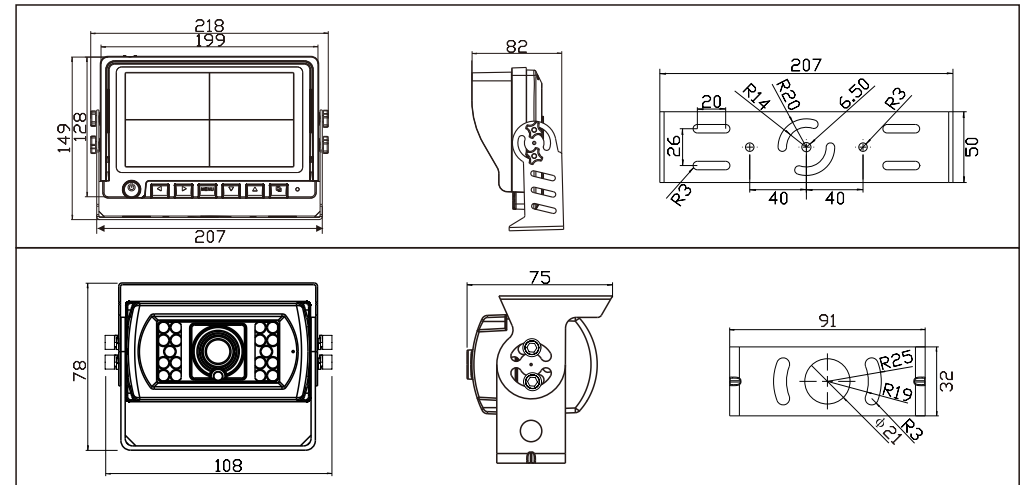
Warning

Under no circumstances should you attempt to repair or modify any electrical equipment unless you are qualified to do so. Always leave this to the experts! This manual only serves as the vehicle visual safety assistance for mechanical equipment, we will not responsible for any potential accident!
This manual is for reference only. If there is any ambiguity or change, our company reserves the right of final interpretation.

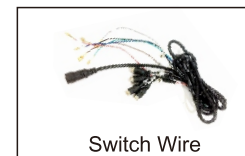
Installation Diagram



Dimension



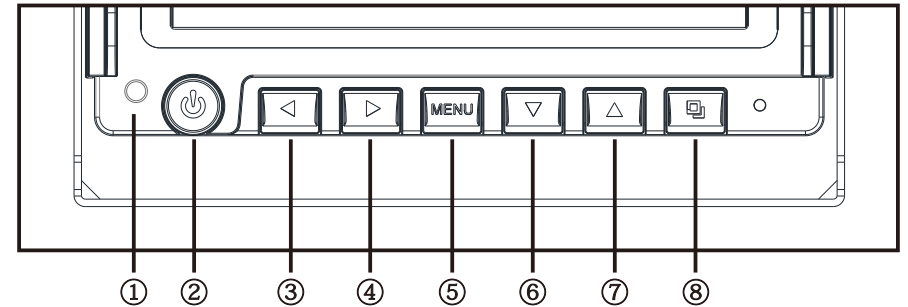
Accessories



Technical Data

Display	TFT Color LCD Monitor
Monitor	7" Digital
Resolution	1024 × (RGB) × 600
Viewing Angle (LR/UD)	L/R: 80/85 U/D: 80/85
Contrast Ratio	500:1
LED Brightness(cd/m ²)	600
Color System	PAL/NTSC (Auto)
Display Mode	Single/spilt/ triple/ quad view
Video Signal Input	4 CH support 1080P/960P/720P/CVBS mix signal input
Storage	TF Card (Max:256G)
Video Format	AVI
Operation Temperature	-20℃~+70℃
Storage Temperature	-30℃~+80℃
Power	DC 11~32V
Dimension(L x W x T)	218X149X82(mm) (including bracket and sun visor)
Camera	HD Waterproof Camera
Image Sensor	1/3 Color SONY
Effective Pixels	1920(H)x1080P(V)/1280(H)x960(V)
Usable Illumination	0LUX (Built-in 18PCS IR LED ON)
IR-CUT	Day / night mode switch automatically
Viewing Angle	130°
Waterproof Level	IP69K
Shockproof Level	10G
Operation Temperature	-20℃~+60℃
Storage Temperature	-30℃~+80℃
Operation Voltage	DC12V
Dimension	108C (L) X78 (W) X75 (H)

Monitor Button Instructions



① ○- REMOTE CONTROL UNIT

Remote Controller: receive infrared remote control operation instructions.

② POWER

Power: ON/OFF

③ ◀-LEFT/HOT KEYS

Left: left options.

Hot Keys: shortcut key for switching to display CH 01.

④ ▶-RIGHT/HOT KEYS

Right: right options.

Hot Keys: shortcut key for switching to display CH02.

⑤ MENU-MENU/ CONFIRM/RETURN

Menu: press MENU key for 2 sec to enter interface, LEFT or RIGHT key for selection.

Confirm: confirm MENU options settings.

Return: press MENU key for 2 sec to go back to previous menu options.

⑥ ▼-DOWN/HOT KEYS

Down: down options.

Hot keys: short key for switching to display CH03.

⑦ ▲-UP/HOT KEYS

UP: up options.

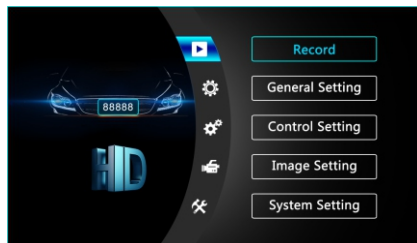
Hot Keys: short key for switching to display CH04.

⑧ ◻ - MULTI-PICTURE DISPLAY SWITCH

Multi-picture Display: Double/Triple/ Quad view, all 12 modes for selection.

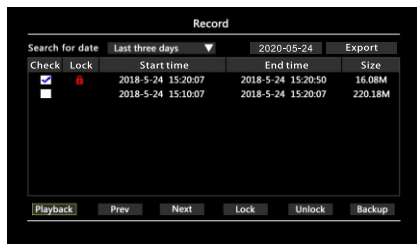
Monitor Operation Instructions

Menu Page



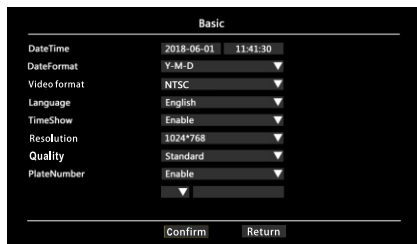
Home Page:
Press MENU for 2 sec to enter for selection, press MENU key for 2 sec to go back to the previous screen.

1. Record Setting



Searching by latest 3 days / one week / fortnight / a month.
Video can be playback and backup from saved video files.
Select needed file for backup by External USB flash drive, pull out flash drive after backup program processed.
Note:
Video files will be stored automatically every ten minutes, and files stored in each channel will be saved separately in the locked state. The locked file will not be automatically overwritten when memory is insufficient. Select the unlock item if it is necessary to unlock.

2. Basic Setting



Date Time: set system Date and Time;
Date Format : year - month - day, month - day - year, day - month - year three modes. Default mode: year - month - day;
Video format: Set CVBS signal system, PAL/NTSC;
Language : Chinese/Traditional Chinese/English;
Time Show: Allow to turn on/off system time display;
Resolution: 800*600, 1024*768, 1280 * 720, 1920 * 1080;
Quality: ordinary/standard/HD/UHD.
The higher the video quality, the more memory it takes up.
Vehicle information: enter the plate number of the equipment, for easy identification;
Note: Select "OK" to save after setting changed.

3. Control Setting



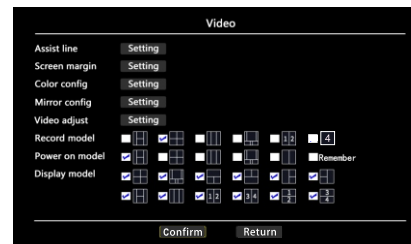
Video output: Intelligent output/always output /Trigger output
Delayed switching: select time 1 sec /2sec /15 sec ;
Display priority: Set trigger single channel picture priority;
Blue background: Set blue screen background on / off;
Auto sequence: Set CH01 / CH02 / CH03 / CH04 single channel automatic switching screen Time 1 second. 2 seconds ... 15 seconds or closed;
Border color: in gray/black/red/green/blue/none;

Monitor Operation Instructions



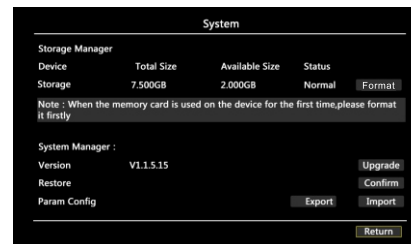
Record for park: After the flame-out, the device will continue to be in the recording state, which can be set directly
Close or prolong the time to close, the delay time is 10 minutes / 30 minutes / 1 hour / 1 hour / 2hour / 6hour / 12hour / 24hour:
Audio recording: Recording can choose microphone or camera to collect audio, if you do not need to choose to close;
Channel Title: set the channel title display, you can choose CH01.CH02.CH03.CH04 / Left.Right.Front.Back / Close three modes;
Note: After the parameter adjustment is modified, select the determined item to save.:

4. Video Setting



Guide line: Turn on/off guide line of AV1/AV2/AV3/AV4.
You can choose gray/black/red/green/blue to display when it is on.
The position of guide line is adjustable.
Screen Margins: adjust the margins on the left and right sides of quad view modes;
Color Configuration: press UP/DOWN to adjust the brightness, contrast, saturation and sharpness of any channel.
Mirror config: mirror/reversal setting, of 90°/270° rotation;
Video adjust: screen display area of single channel can be adjusted arbitrarily;
Record Model: 6 modes can be selected for video recording;
Power on Model: 5 options or power off memory mode can be selected;
Display model: 12 modes can be selected freely to display.

5. System Maintenance



Device information: TF card storage capacity is displayed.
System management:
Software version: version of the software program, which can be upgraded through TF card or external USB flash drive.
Restore Settings: the equipment can be restored in case of wrong settings. Restore all Settings to default values upon confirmation.

Attention:

Make sure the voltage range is within 11V ~ 32V, otherwise the monitor can not be run properly if the power supply voltage of the equipment is lower than 11V or higher than 35V during installation. Monitor will shut down automatically when the power supply voltage of the equipment drops to 11V or rises to more than 35V in the process of use, under-voltage/over-voltage protection circuit will be ON.