Haloview

User Manual

M7612

7'' FHD 1080P DVR MONITOR

Please read all instructions carefully before using, and keep the manual for future reference.

Contents

❶ Precautions

● Storage and Keeping

1. Do not expose the monitor to excessive heat or cold. The storage temperature of this device is -30~+80℃, and the operating temperature is -20~+70 ℃. The humidity is RH90% under.
2. Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places.
3. Never use this device in environments with excessive moisture, dust or smoke.
4. Avoid dropping or striking this device.
5. Avoid using 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 unit.

⚠ Warning

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

⚠ Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very common phenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, 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 void the warrantee.

● 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.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

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 dispose of electrical and electronic equipment.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual couldvoid your warrantee and neccessitate expensive repairs.

● Declaration of conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
la FCC (Comisión Federal de Comunicaciones). El funcionamien to está sujeto a dos condiciones:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

❷ Product Features

1. IPS monitor with wide angle view and high resolution display.
2. Picture can be adjustable for Horizontal, Vertical, Mirror and Normal viewing.
3. Select from 8 languages selectable.
4. Automatic back light for buttons.
5. Multiple video formats: 1080P25/1080P30/720P25/720P30/PAL/NTSC.
6. Up to 2 camera inputs.
7. Operates from 10 -32V. Supports 12V or 24V automobile battery.
8. On-board speaker.
9. Support max 2 cameras and PIP mode.
10. Support 2 cameras recorded with 1080P or 720P.
11. Support playback in monitor.
12. Support one-click capturing.
13. Support split mode

❸ Technical Specifications

1. 7" IPS Color monitor with digital panel.
2. Audio output: 1W.
3. Loudspeaker: one 15 x 24mm round loudspeaker.
4. Power supply: Automobile storage battery (DC 10-32V).
5. Power consumption: about 8W.
6. Outline Dimension:164.9mm x 100mm x 5.7mm.
7. Pixel pitch: 0.15mm(W) x 0.15mm(H).
8. Resolution: 1024 x 3(RGB) x 600.
9. Contrast: 800:1.
10. Brightness: 900cd/m².
11. Viewing angle: U/D: 85°; L/R: 85°.

⚠ **Special Notice**

All specification are subject to change without notice.

❹ Accessories

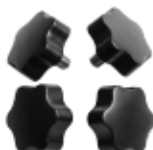|	
U-Support Bracket X 1	Center Mount Bracket X 1
Sun Shield X 1	(Optional)
Angle Adjustment Screws X 4	User Manual X 1

⚠ **Special Notice**

Accessory supply may be different for different application.

❺ Parts Identification

- Press OK button to enter menu item or save user settings.
- Press OK button-shortcut to start/stop recording.
- Long press OK to capture a picture.

IPS panel

Power indicator
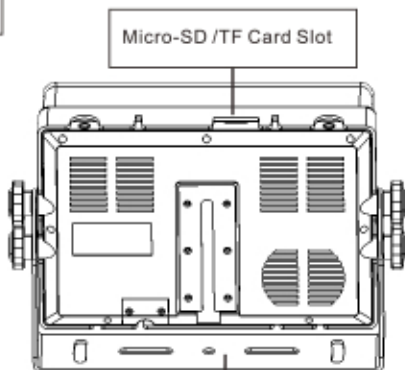
Loudspeaker

Light sensor

- Short press for channel selections.
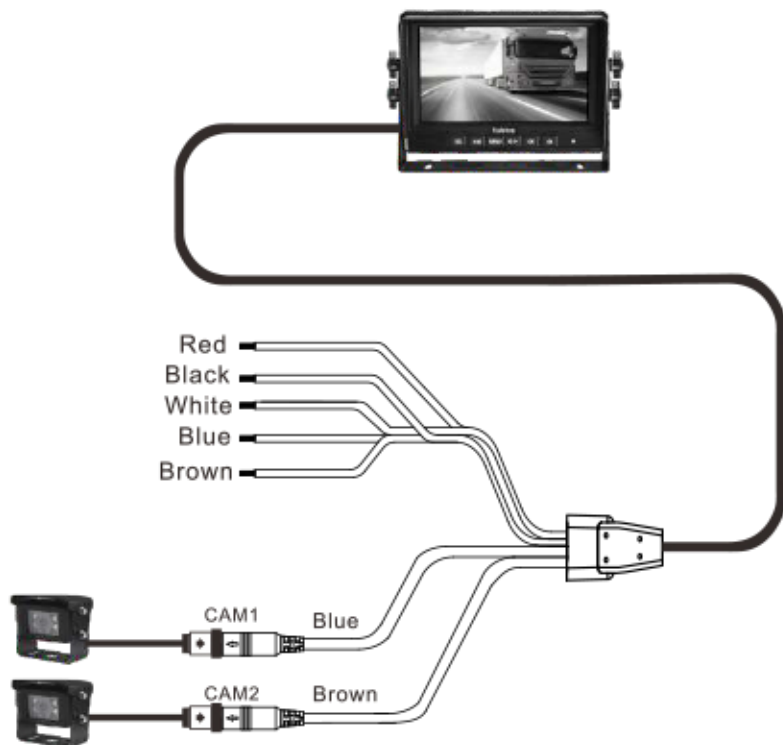- Press and hold 3s, change rotation to normal.

Brightness decrease

Menu

Brightness increase

- Short press to standby
- Press and hold 3s to turn off panel.

Micro-SD /TF Card Slot

Mounting bracket

⑥ Installation

① Blue 4pin male for Camera 1.
② Brown 4pin male for Camera 2.
③ Single red wire to power wire of DC 10-32V.
④ Single black wire to GND.
⑤ Single brown wire to positive power wire of the back-up light.
⑥ Single white wire to other positive power wire.
⑦ Single blue wire to positive power wire of left or right light.

Red
Black
White
Blue
Brown

CAM1   Blue

CAM2   Brown

Notice:
Triggering function deactivated when monitor standby.

❼ Menu

1.01 Button Function

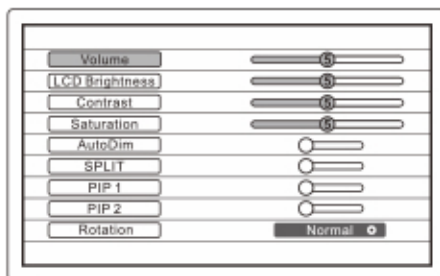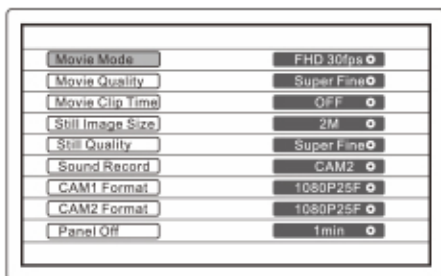| Button	Function
SEL	Function 1: Short press for channel selections Function 2: Press and hold for 3s to switch from rotation to normal
◁☼	Decrease brightness
MENU	Enter menu or return to previous menu
☼▷	Increase brightness
OK	Function 1: start/pause recording Function 2: long press to capture a picture Function 3: enter menu and confirm setting
⏻	Function 1: Short press to standby Function 2: Press and hold for 3s to turn off the monitor

1.02 Menu
Press MENU button

PICTURE   RECORD   PLAY

PARK-LINE   FORMAT   SETTING
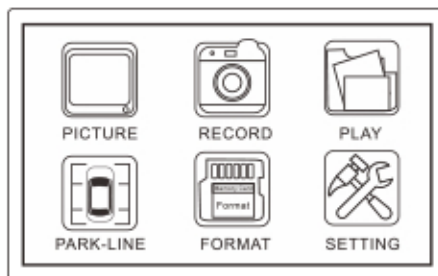
1.03 PICTURE
Press OK to enter PICTURE setting

Volume	⑤
LCD Brightness	⑤
Contrast	⑤
Saturation	⑤
AutoDim	○
SPLIT	○
PIP 1	○
PIP 2	○
Rotation	Normal ✲

1) Press OK to enter Volume setting, press ◁✲ or ✲▷ to decrease/increase volume, press OK to confirm.

2) Press OK to enter Brightness setting, press ◁✲ or ✲▷ to decrease/increase brightness, press OK to confirm.

3) Press OK to enter Contrast setting, press ◁✲ or ✲▷ to decrease/increase contrast, press OK to confirm.

4) Press OK to enter Saturation setting, press ◁✲ or ✲▷ to decrease/increase saturation, press OK to confirm.

5) Press OK to enter Auto Dim setting, press ◁✲ or ✲▷ turn ON/OFF, press OK to confirm.
Notice: When Auto Dim is ON, monitor will automatically decrease brightness in low light to protect your eyes.

6) Press OK to enter Split setting, press ◁✲ or ✲▷ to turn ON/OFF, press OK to confirm. When two cameras are connected to the monitor and Split is turned on, press SEL button to switch from CAM1/CAM2/Split Mode circularly.

7) Press OK to enter PIP1 setting, press ◁✲ or ✲▷ to turn ON/OFF, press OK to confirm. When two cameras are connected to the monitor and PIP1 is turned on, press SEL to switch from CAM1/CAM2/PIP1 circularly.

8) Press OK to enter PIP 2 setting, press ◁✲ or ✲▷ to turn ON/OFF, press OK to confirm. When two cameras are connected to the monitor and PIP2 is turned on, Press SEL button to switch from CAM1/CAM2/PIP2 circularly.

9) Press OK to enter Rotation options. Press ◁✲ or ✲▷ to select NORMAL\MIRROR\ FLIP\MIR-FLIP, press OK to confirm.
Notes: When Mirror is selected, menu will be mirrored at the same time. Press and hold SEL button to return to Normal.

1.04 RECORD
Press OK to enter RECORD

Movie Mode	FHD 30fps ⚙
Movie Quality	Super Fine ⚙
Movie Clip Time	OFF ⚙
Still Image Size	2M ⚙
Still Quality	Super Fine ⚙
Sound Record	CAM2 ⚙
CAM1 Format	1080P25F ⚙
CAM2 Format	1080P25F ⚙
Panel Off	1min ⚙

1) Press OK to enter Movie Mode, press◁⚙ or ⚙▷to select FHD 30fps/HD 30fps, press OK to confirm.
Notice: If choosing FHD 30fps, the recorded video resolution is 1920X1080 with 30fps. IF choosing HD 30fps, the recorded video resolution is 1280X720 with 30fps.

2) Press OK to enter Movie Quality, press◁⚙ or ⚙▷to select Super Fine/Fine, press OK to confirm.
Notice: If choosing Super Fine, the recorded video has bigger size with higher resolution.

3) Press OK to enter Movie Clip Time, press ◁⚙ or ⚙▷ to select 1min/2min/3min/5min/ 10min, press OK to confirm.

4) Press OK to enter Still Image Size, press ◁⚙ or ⚙▷to select 2M/1.2M, press OK to confirm.
Notice: If choosing 2M or 1.2M, the captured picture will be about 2MB or 1.2MB.

5) Press OK to enter Sound Record, press ◁⚙ or ⚙▷ to select CAM1/CAM2/OFF, press OK to confirm.
Notice:
1. When choosing CAM1, Sound of recorded videos and real time video will come from CAM1.
2. When choosing CAM2, Sound of recorded videos and real time video will come from CAM2.
3. When choosing OFF, there will be no sound for recorded videos and real time video.
4. When connecting one camera, please switch to corresponding channel to play sound.

6) Press OK to enter CAM1/CAM2 Format, press ◁⚙ or ⚙▷to select 1080P25/ 1080P30/720P25/720P30/PAL/NTSC/AUTO, press OK to confirm.

7) Press OK to enter Panel Off options. Press ◁⚙ or ⚙▷ to select Never/1min/5min, press OK to confirm.
For example, if choosing 1min, the monitor will automatically turned off after 1 minute with no operation.
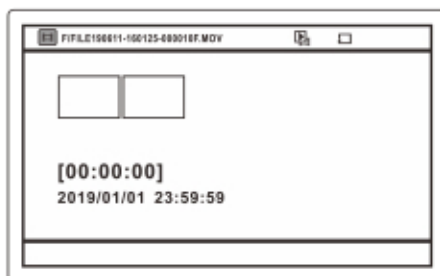Press Power button again to turn on monitor.
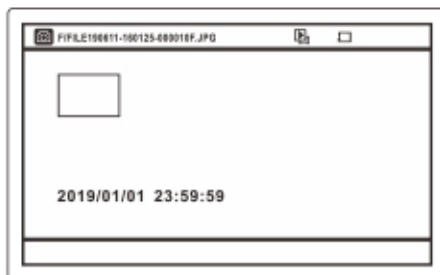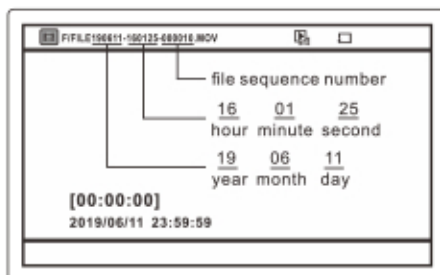
1.05 PLAY
Press OK to enter PLAY menu
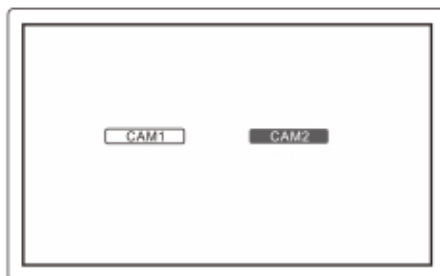
1) Press ◁☼ or ☼▷ to select CAM1/CAM2, and press OK to find all recorded files of CAM1/CAM2.
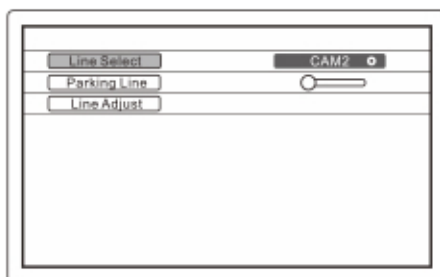
2) Shown as below:

Press ◁☼ or ☼▷ to select a recorded video and press OK to play.
Press and hold MENU button to play a captured picture.

F:/FILE190611-160125-600016.MOV

— file sequence number

16   01   25
hour minute second

19   06   11
year month day

[00:00:00]
2019/06/11 23:59:59

1.06 PARK-LINE
Press OK to enter PARK-LINE MENU

Line Select   CAM2 ⚙
Parking Line   ⊙━━
Line Adjust

1) Press OK to enter Line Select option, press ◁⚙ or ⚙▷ to select CAM1/CAM2, press OK to confirm.
   Notice: If choosing CAM1, park line only display in CAM1. If choosing CAM2, park line only display in CAM2.

2) Press OK to enter Parking Line options, press ◁⚙ or ⚙▷ to turn ON/OFF Parking line, press OK to confirm.
   Notice: If parking line is turned off, CAM1 and CAM2 will not display parking guide lines.

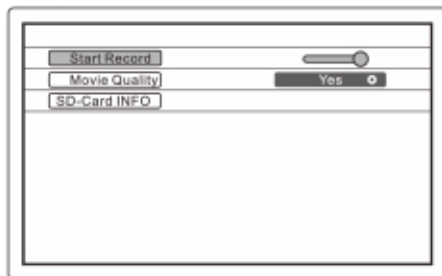3) Press OK to enter Line Adjust options as shown in below figures:
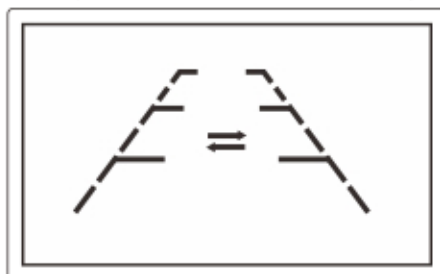
Press ◁☼ or ☼▷ to adjust parking guide lines horizontally, press OK to switch to line vertically adjustment.
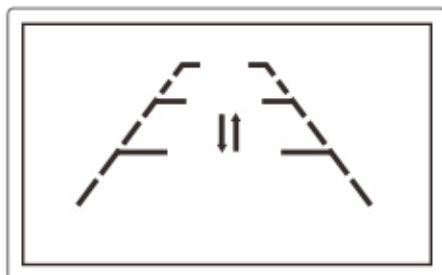
Press MENU button to exit.

1.07   FORMAT
Press OK to enter FORMAT MENU

Start Record	
Movie Quality	Yes
SD-Card INFO	

1) Press OK to enter Start Record, press ◁☼ or ☼▷ to select ON/OFF, press OK to confirm.
   Notice: press ON to start recording, press OFF to pause recording.
   Or, users can easily start/pause recording by pressing OK button.

2) Press OK button to enter Format SD-Card options. Press ◁☼ or ☼▷ to select YES/NO, press OK to confirm.
   Notice: If choosing YES, SD card will be formatted. It is recommended to format the SD card before using.
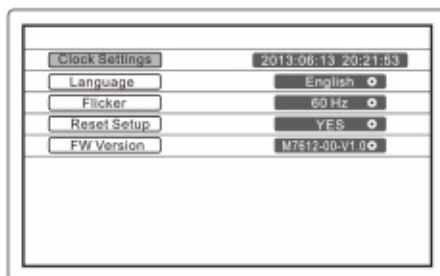
3) Press OK to enter SD-Card INFO options.
   When two cameras connected, please refer to below table for recording times under different image mode:
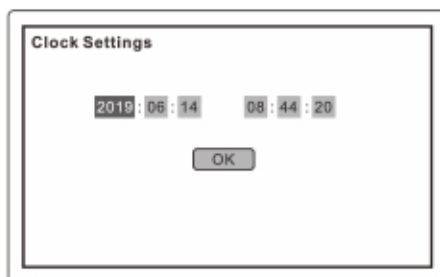
	8G	16G	32G	64G	128G	256G
HD 30fps	2.5 hours	5 hours	10 hours	20 hours	40 hours	80 hours
FHD 30fps	1.25 hours	2.5 hours	5 hours	10 hours	20 hours	40 hours

1.08 SETTING
Press OK to enter SETTING MENU

Clock Settings	2013:06:13 20:21:53
Language	English
Flicker	60 Hz
Reset Setup	YES
FW Version	M7612-00-V1.0

1) Press OK to enter Clock Setting

Clock Settings

2019 : 06 : 14   08 : 44 : 20

OK

2) Press OK to enter Language options. Press ◁☼ or ☼▷ to select English/
   Spanish/Portuguese/Russian/German/Italian/French/Dutch , Press OK to confirm.

3) Press OK to enter Flicker options. Press OK to select 50Hz/60Hz, press OK to
   confirm. Refer to below table for setting of Flicker.

Flicker	COUNTRY
50Hz	Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, China, Cyprus, Czechoslovakia, Denmark, Dubai, Egypt, Finland, France, Germany, Gibraltar, Greece, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Jordan , Kuwait, Luxembourg, Malaysia, Netherlands, New Zealand, Norway, Sultanate of Oman, Poland, Portugal, San Marino, Saudi Arabia, Singapore, Spain, Sweden, Switzerland, Turkey, United Kingdom,
60Hz	Bolivia, Canada, Chile, Colombia, Costa Rica, Ecuador, Japan, South Korea, Mexico, United States

4) Press OK button to enter Reset Setup. Press ◁☼ or ☼▷ to select YES/NO,
   press OK to confirm.
   If choosing YES, all settings return to factory default.

5) Press OK to see FW Version.

⑧ Troubleshooting

The symptoms described below do not necessarily mean a failure within the display. Please check the following items before you initiate request for repair.

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 picture	Check whether AV cable is properly connected. Check whether CAM1 or CAM2 Format setting correct. For example, if CAM1 format is 720P/25fps and it is mistakenly set 1080P/25fps in the monitor, no picture will be displayed.
No sound	Check whether Sound Record is turned OFF.
Dark picture	Check whether brightness and contrast are adjusted correctly; Check whether the environments temperature is too low.
No color	Adjust the color settings.
No image	Check the power supply and power on again.
After connecting video, video becomes green screen	Short press power button to restart the monitor.

CAMERA SPECIFICATION

Model No.: CA612

Image Device	1/2.9" CMOS	
TV System	PAL (1080P/25fps)	NTSC (1080P/30fps)
Effective Pixels	1920 (H)*1080 (V)	
Horizontal Sync Frequency	28.125 kHz	33.750 kHz
Vertical Sync Frequency	25 Hz	30 Hz
Electronic Shutter	1/25~1/50,000 Seconds	1/30~1/60,000 Seconds
Scanning System	Progressive Scanning	
Sync. System	Internal	
Resolution	1080P	
Video Output	AHD, 1.0Vp-p, 75 Ohm	
Gamma Consumption	0.45	
AGC	Auto	
S/N Ratio	Better than 52dB	
White Balance	Auto	
BLC	Auto	
Power Supply	DC12V	
Waterproof rating	IP69K	
Viewing Angle	130°	
Audio	Yes	
Minimum Illumination	0 Lux with IR ON	
Night vision distance	8~10m	
Image mode	Mirror	
SMART IR-CUT	Yes	
Operating Temperature	-20℃ ~ 70℃, RH90% MAX	
Storage Temperature	-30℃ ~ 80℃, RH90% MAX	