

7 inch BSD car blind spot monitor **Operation Manual**

- Please read this manual carefully before use.
- The company reserves the right to interpret the instructions.
- Product appearance shall be subject to the real object.
- Product technology or software upgrades are subject to change without notice

Preface

Thanks for your support. Our company stick the management philosophy of “Quality First, Honest Based!”, and based on meeting customer’s requirement and supplying high quality products, perfect after–sales service as our purpose, be absorbed in offer the best products.

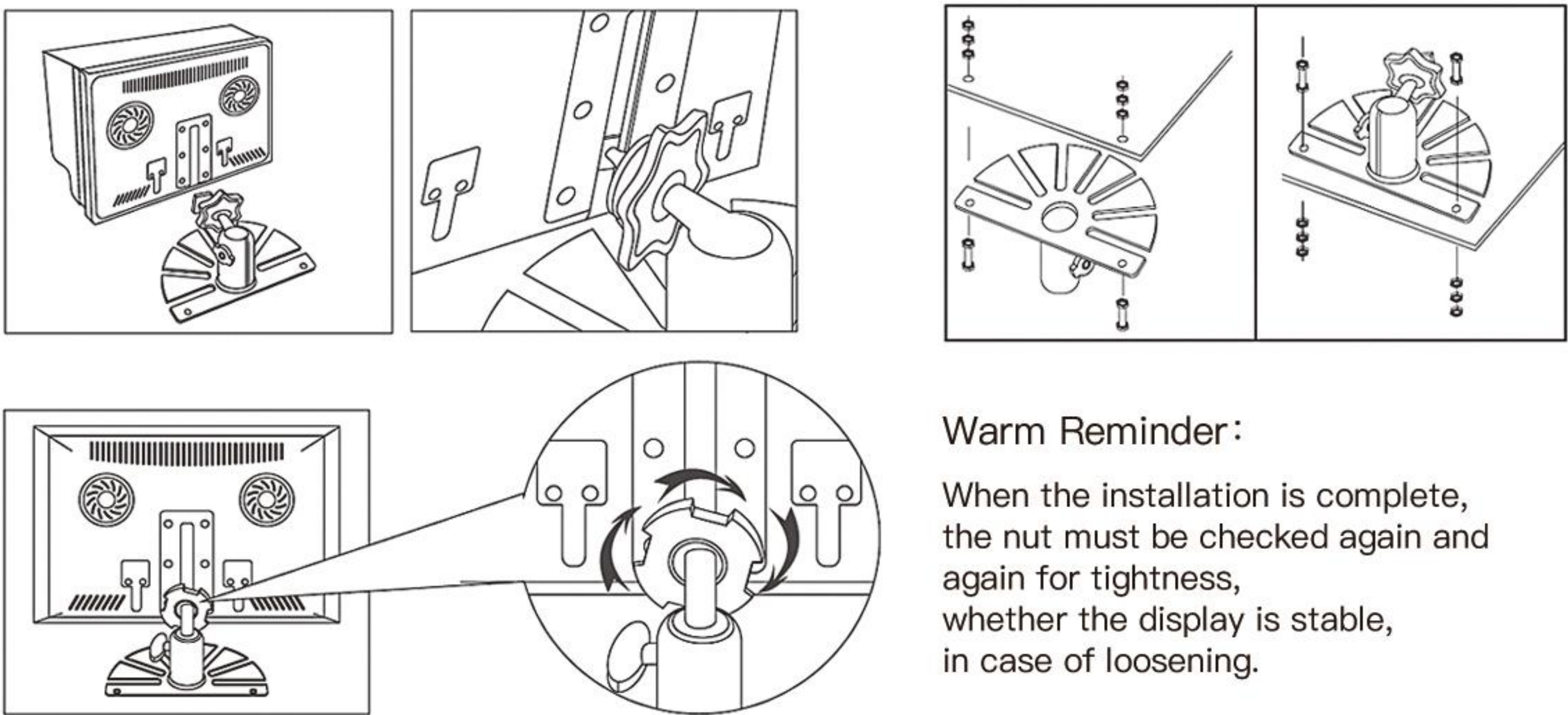
To ensure long–term trouble–free service of the products, please read this manual carefully before using the product.

Notes:

- 1. Do not try to open the covers. It is a high precision product. Please close the power in time if anomalies.
- 2. Do not use organic solvent clear the covers, to avoid it peel off painting.
- 3. Do not enforce to the lead wire, to avoid damage or poor connect.
- 4. Keep the product out of the dirty, direct sun, high temperature and humidity condition.
- 5. Protect the product from fall down and shock.
- 6. Please wiring as diagram strictly, if wiring wrong will lead product can’t work and even damage vehicle electrical system.
- 7. Do not use any affect operation of driving.
- 8. Do not let the product working at higher or lower than the suitable temperature of machine.

7.2 Plastic/MetalBracket Installation

- 1) Firstly fixed the bracket via the screws, the screws of the top need lock to nut of under.
- 2) Secondly put the metal buckle piece on the top of the fan–shaped bracket into the notch at the back of the monitor.
- 3) Move the bracket to the proper location. 4) Screw down the nut of bracket, until the monitor fastening.



Warm Reminder :

When the installation is complete, the nut must be checked again and again for tightness, whether the display is stable, in case of loosening.

六. Warranty and Service

Dear User:

First of all, thank you for choosing our products. In order for us to better serve you, before purchasing Please read this instruction carefully and keep it properly. Our company will provide you with a one–year quality guarantee Service (free warranty for one year) The warranty location is our factory.

User notice

For the following situations, the customer service center will charge a certain material cost or maintenance labor fee as appropriate when performing repairs.

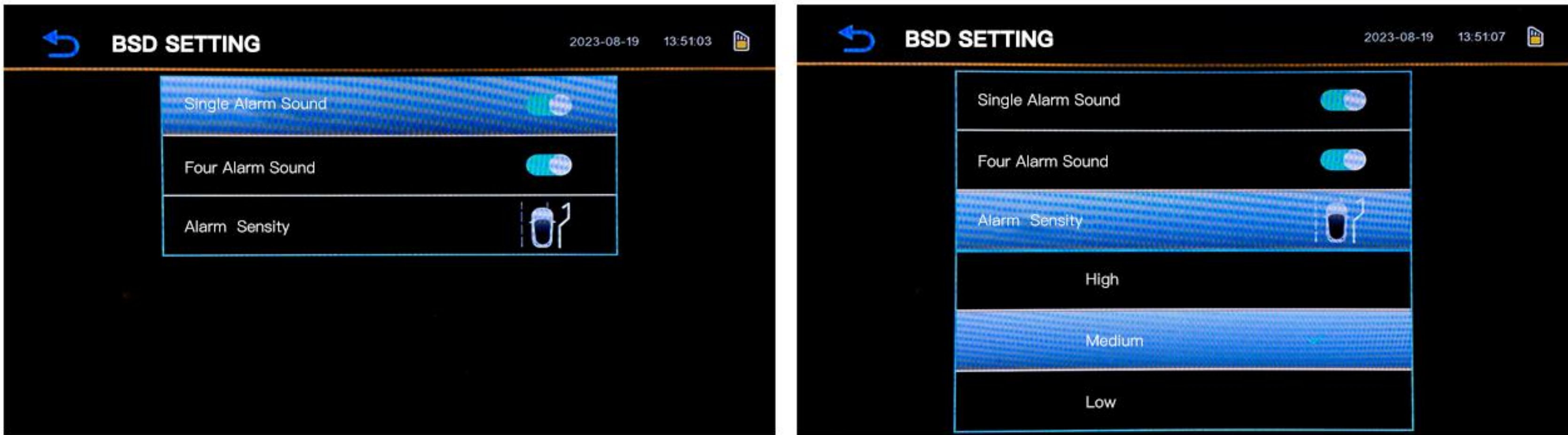
- ❶ The product or its parts have exceeded the one–year warranty period.
- ❷ Faults caused by the buyer during transportation and unloading.
- ❸ Failure caused by disassembly, repair and modification of the product without the authorization of the manufacturer.
- ❹ Faulty machine after customer’s own modification or installation of other functions.
- ❺ Failure caused by not following the usage and precautions written in the instructions (for example: broken screen/cutting of leads/ not connecting wires according to the instructions).
- ❻ If the product warranty certificate cannot be presented or the product warranty certificate presented is inconsistent with the product or has false records, we will not be responsible for free services.

Our company reserves the final right to interpret this warranty.



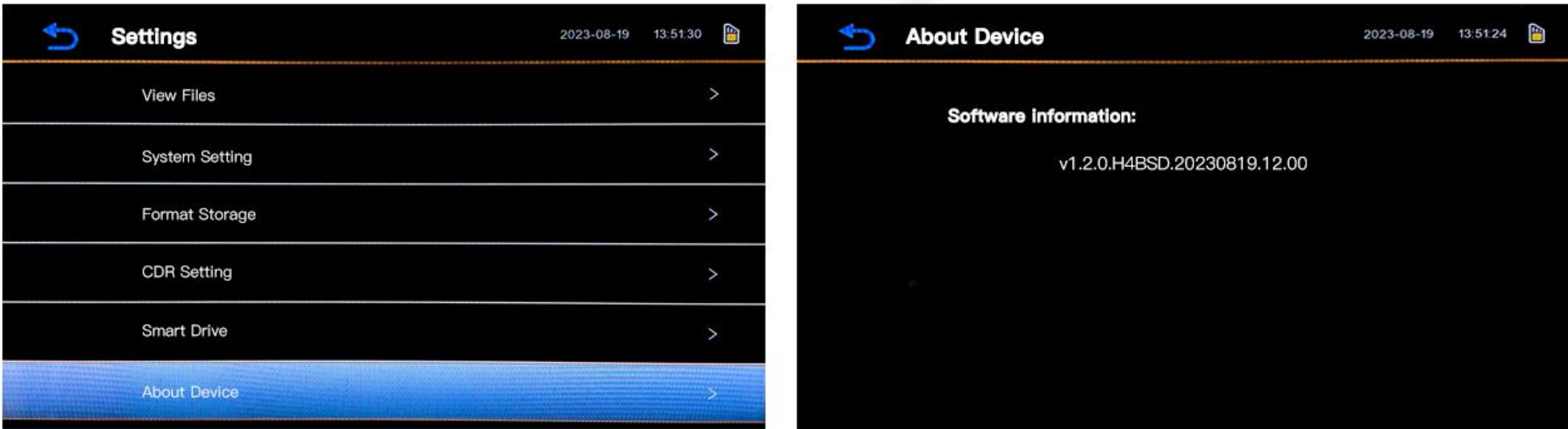
For the sake of safety, please do not watch the video while driving, except driving assist video!

Settings: Alarm sound and alarm sensitivity can be set on/off as required



6.6 About Device

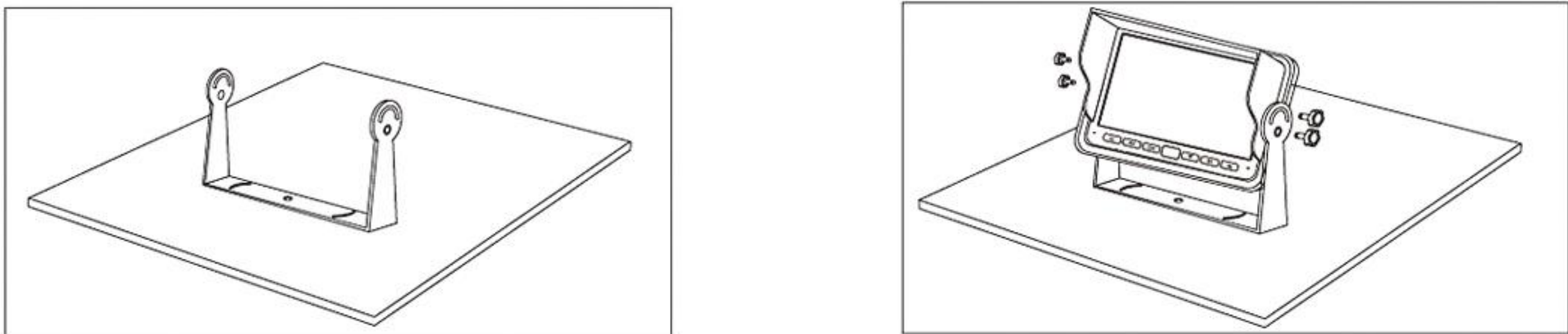
Press the M key on the panel or the remote controller to enter the system menu, move to about device setting with AV key, press the M key to confirm, and then select through the AV key for the submenu to be modified, press the ▲ ▼ key to adjust the parameters. after modification, press the M key for 3 seconds to exit the menu interface.



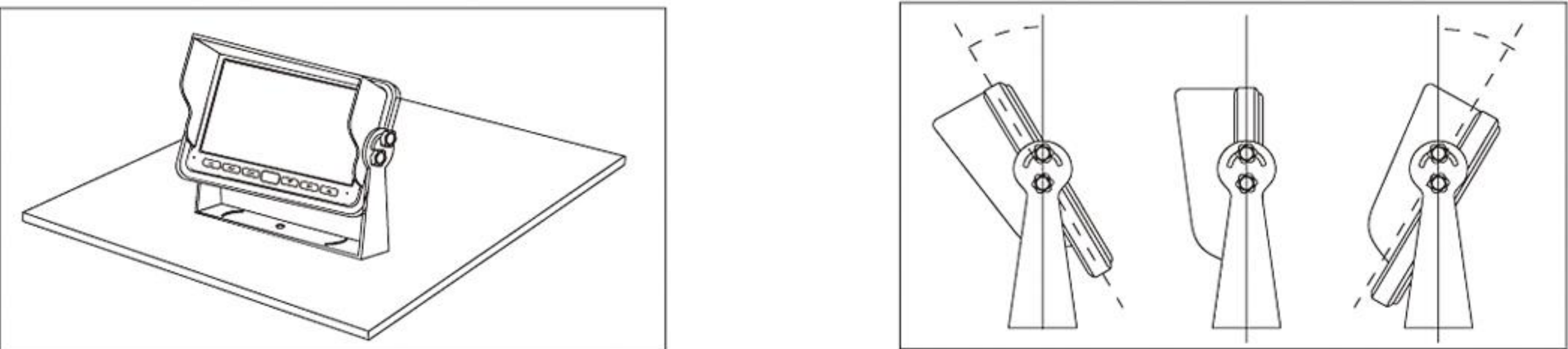
七. Bracket Installation

7.1 U-Bracket Installation

1) Use the serew fixed the U-bracket. Put the monitor into the bracket, adjust angle and locking it.



2) Finished the installation. Adjust the angle forward 30° to backward 30° User can adjust a suitable angle by oneself.



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—. Product Parameters

- 1) 7-inch digital high-resolution display with aluminum alloy casing
 - 2) The voltage input range of the display is DC 10.8–36V, which is widely applicable to the alarm monitoring and video recording of various vehicles and mechanical equipment in the blind area.
 - 3) AI algorithm is built in the display, which can be used to capture pedestrians and vehicles in the left, right and reverse rear view display screens. when pedestrians and vehicles are in the blind area, the alarm sound will be given and the pedestrian danger mark will be displayed in the upper right corner of the screen. remind drivers to pay attention to driving safety. (Reversing rearview alarm detection will only respond when reversing is triggered)
 - 4) The display can manually adjust the BSD alarm area of left, right and reversing rear view.
 - 5) The display can close and open the area alarm reminder box.
 - 6) The display can close and open the identification box of "vehicle and pedestrian" captured by the general lens.
 - 7) The display can turn off and on the BSD function of the "left and right" channels
 - 8) The display can turn on and off the "single screen alarm and four split screen" alarm sound.
- alarm sensitivity is divided into high, medium and low
three levels, different levels trigger alarms with different response speeds
- 9) The built-in light sensor of the display can sense the external light intensity, so that the screen can be automatically adjusted according to the external light.
- screen brightness to prevent the screen light from dazzling the driver at night
- 10) Design of reverse polarity protection circuit for the built-in power supply of the display
 - 11) Display backlight built-in constant voltage and constant current circuit protection design, longer service life
 - 12) Support simplified Chinese, English, Dutch, French, German, Japanese menu language selection
 - 13) Support four-channel AHD720P–PAL/NTSC, CVBS–PAL/NTSC signal input display
- (Unified signal system is required, and mixed connection is not supported)
- 14) Support one audio input recording (optional)
 - 15) Support the following 5 picture display modes

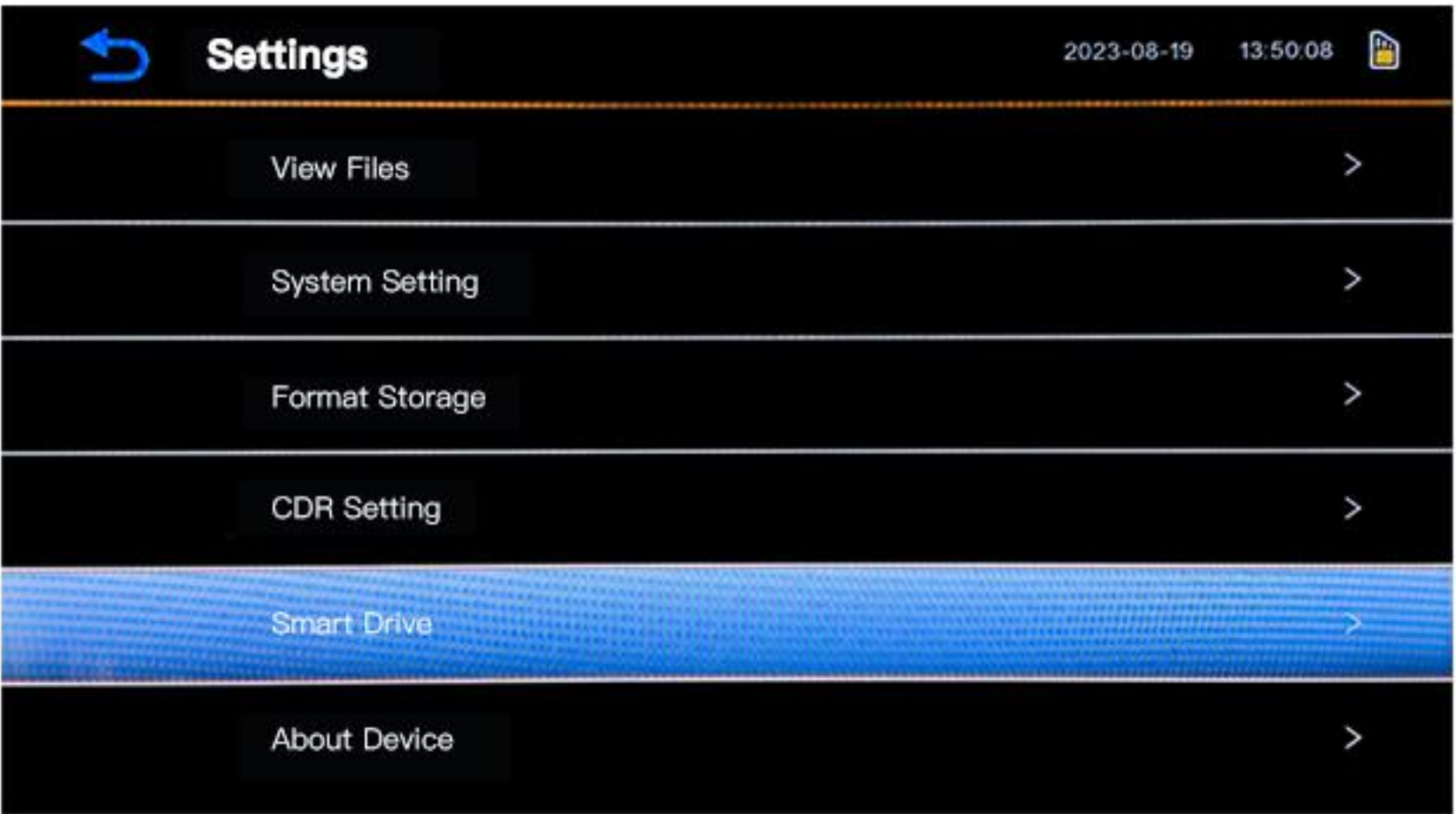


- 16) Display supports four-channel independent setting mirror display, reversing auxiliary line on/off, reversing trigger delay of 0–10 seconds.
- 17) Display supports online playback of video files, and can also be backed up to the computer for playback.
- 18) Display supports the function of time-lapse video recording, and the time is off, 1 hour, 12 hours and 24 hours.
- 19) Display supports turning on and off the video watermark, and the video will record the time watermark into the video file.
- 20) UPS power supply technology, accidental power failure can also keep all the files being recorded intact
- 21) Support SD card 128G video recording at most
- 22) Video resolution: 1280 * 720P
- 23) Video compression format: H.264
- 24) Video storage format: TS format of MPEG–2 standard

Reversing scale: can be set to open/close as required
System selection: 720–P/720–N/CVBS–P/CVBS–N

6.5 Smart Drive

Press the M key on the panel or the remote controller to enter the system menu, move to smart drive setting with AV key, press the M key to confirm, and then select through the AV key for the submenu to be modified, press the ▲ ▼ key to adjust the parameters. after modification, press the M key for 3 seconds to exit the menu interface.

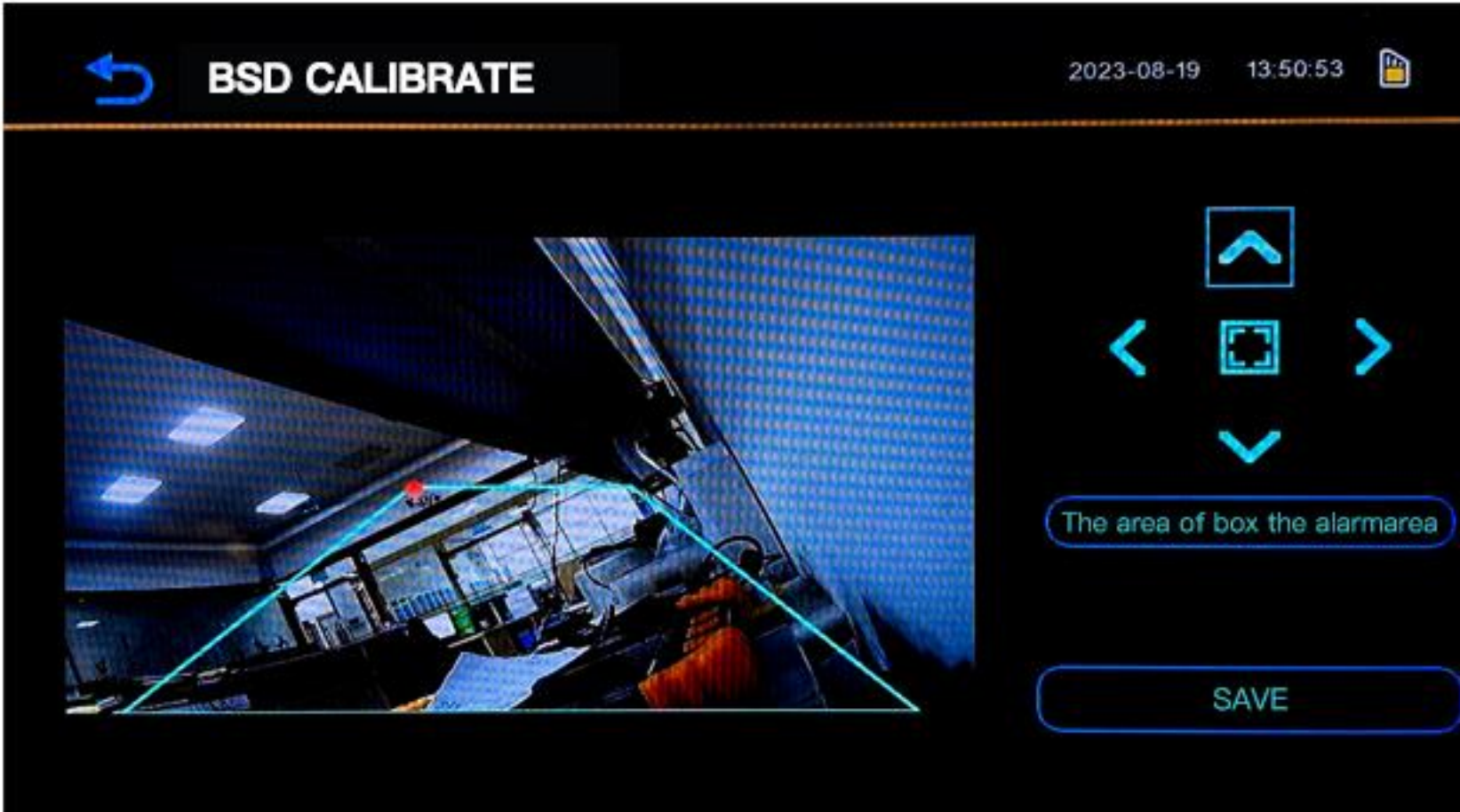


- Red reminder box:** it can be turned on/off as required (red filling warning is displayed when pedestrians or objects enter the detection area)
- Vehicle assist:** can be set on/off as required (green identification box is automatically displayed when the vehicle enters the viewing angle range)
- Pedestrian assistance:** can be turned on/off as required (blue identification box is automatically displayed when pedestrians enter the viewing angle range)
- Left BSD switch:** can be set on/off as required (alarm when the left is close to an obstacle)
- Right BSD switch:** can be set on/off as required (give an alarm when the right side approaches an obstacle)

Calibration: The left/right/rear visual angle blind area range can be adjusted as required. Select the view through the ▲ ▼ key, and press the M key to enter the interface.

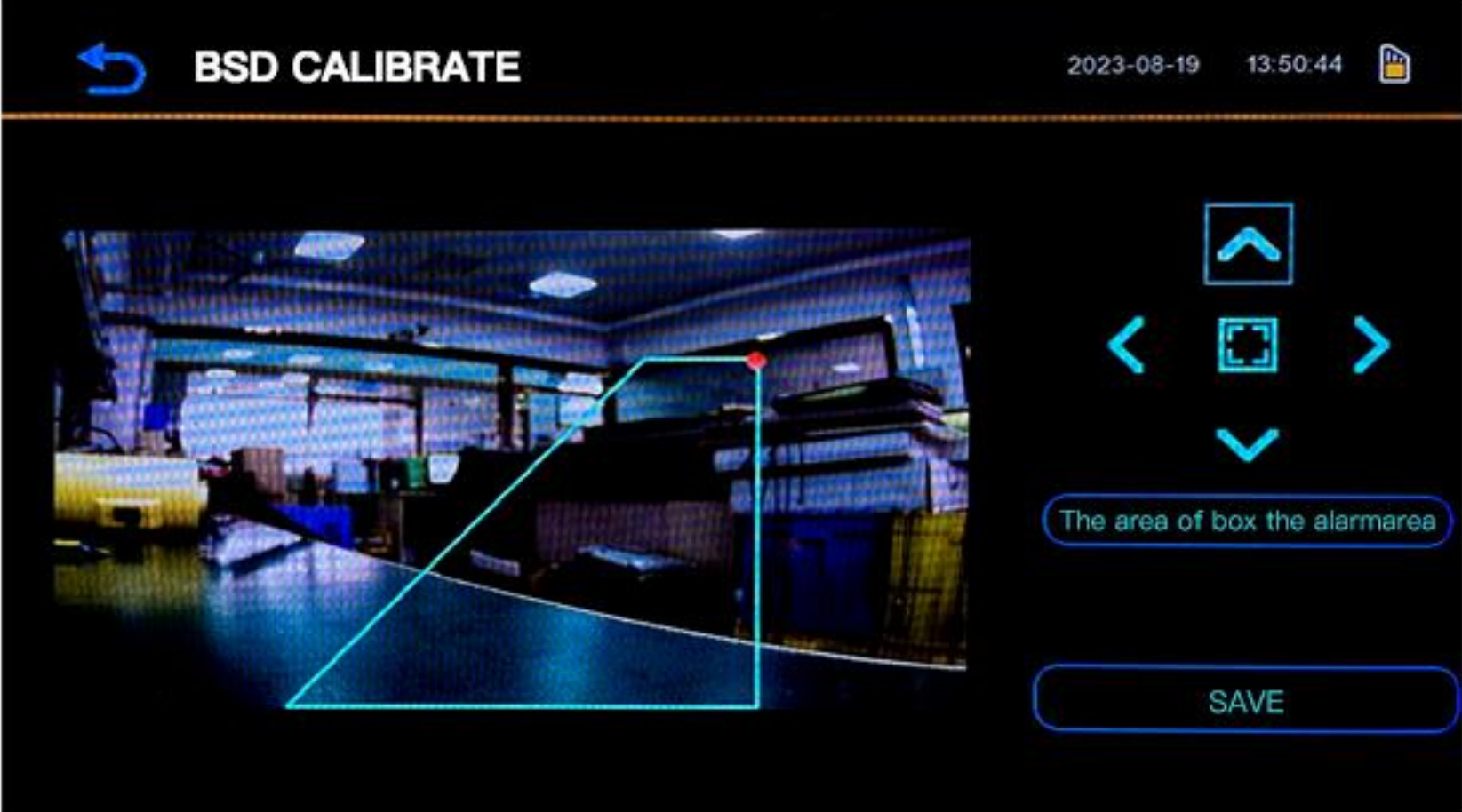
Calibration interface

Rear dead zone adjustment view



Left Dead Zone Adjustment View

Right dead zone adjustment view



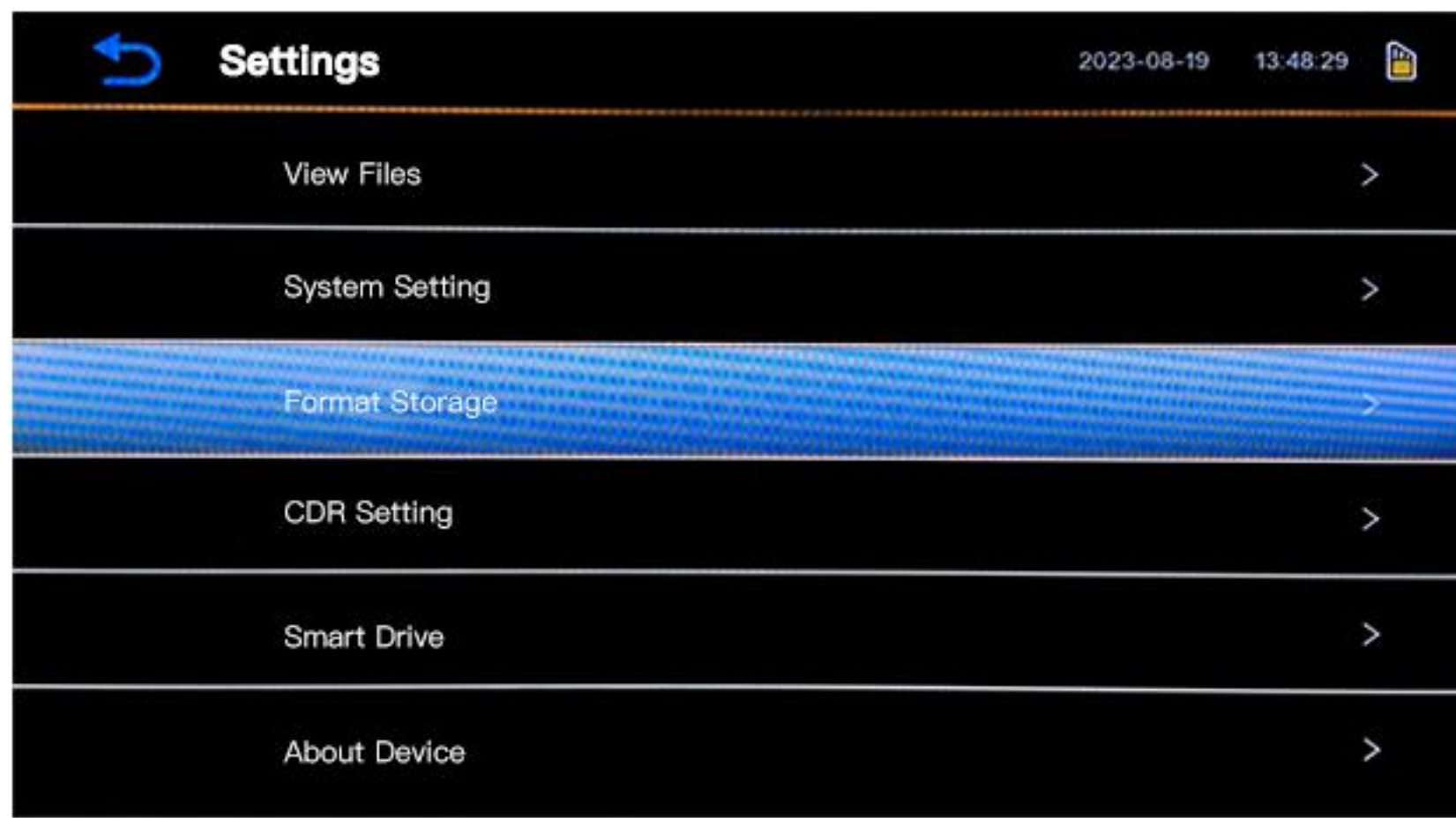
After entering the interface, press the ▲ ▼ key to select the direction, and then press M to confirm the adjustment of the blind area.



Factory recovery: restore the original settings of the system
Video switch: open/close the video switch
Touch tone: Turn on/off touch tone
Language: The monitor supports multi-language settings
(Simplified Chinese, English, Dutch, French, German, Japanese)

6.3 Format Storage

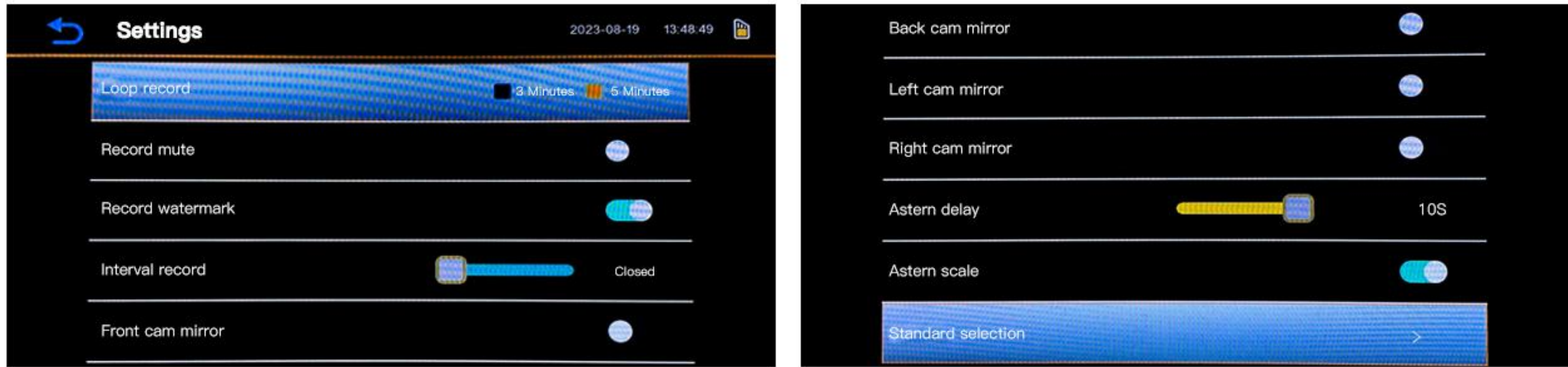
Press the M key on the panel or the remote controller to enter the system menu, move to the format storage through the AV key, and press the M key to confirm the modification. press and hold the M key for 3 seconds to exit the menu interface.



Tips:
It cannot be restored after formatting please operate with caution.

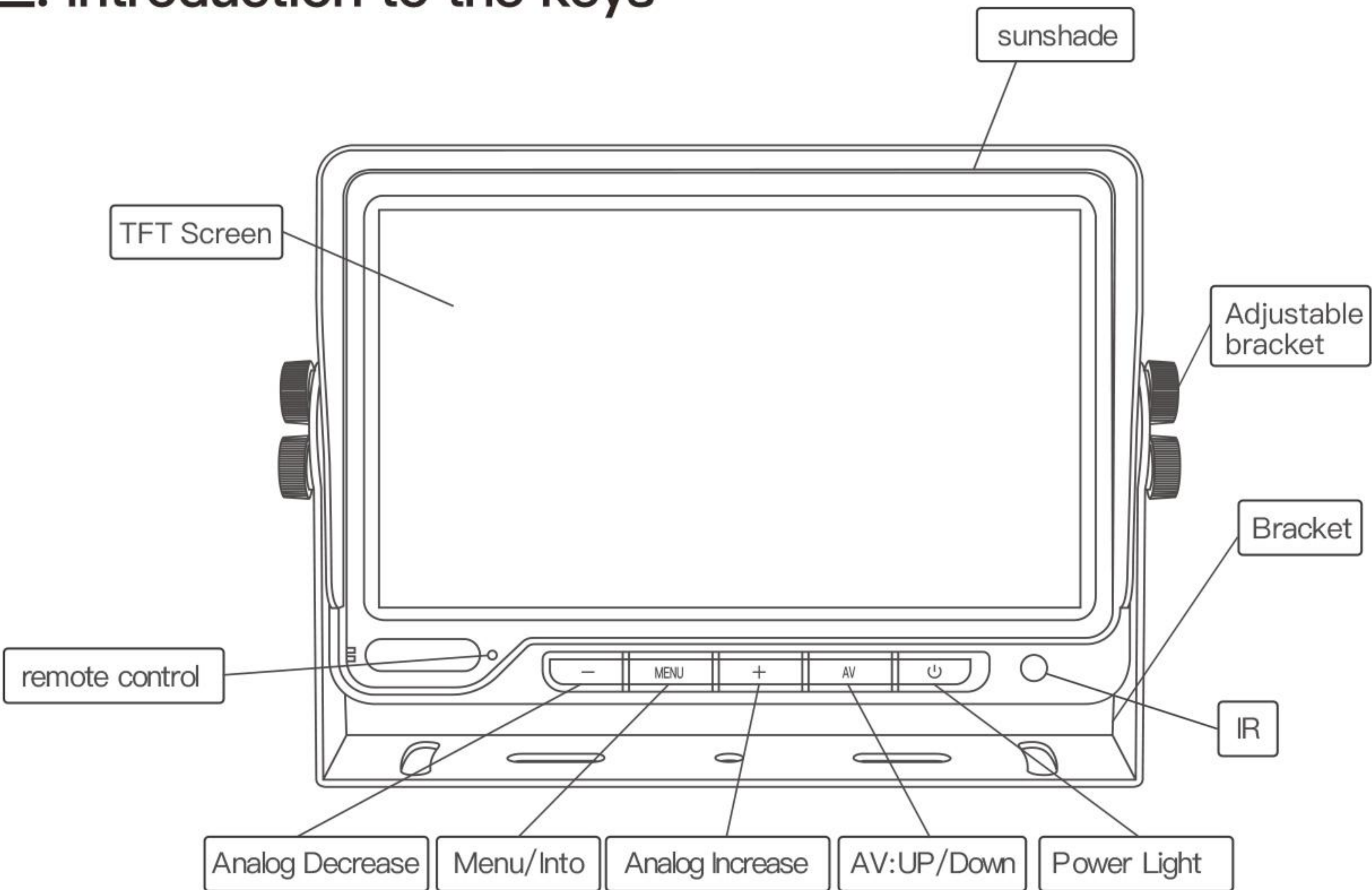
6.4 CDR Setting

Press the M key on the panel or the remote controller to enter the system menu, move to CDR setting setting with AV key, press the M key to confirm, and then select through the AV key for the submenu to be modified, press the ▲ ▼ key to adjust the parameters. after modification, press the M key for 3 seconds to exit the menu interface.



Loop record: the video recording duration of 3min/5min can be automatically adjusted and selected.
Record mute: You can set to turn on/off the video mute as required.
Record watermark: You can set to turn on/off the time watermark displayed on the video screen as required.
Interval record: The time length of 1/12/24H time lapse video recording can be controlled by adjusting the value.
Front cam mirror: it can be turned on/off as required (the left and right images of the front view lens are flipped after being turned on)
Back cam mirror: it can be turned on/off as required (after turning on, the left and right mirror images of the rearview lens are flipped)
Left cam mirror: it can be turned on/off as required (the left and right mirror images of the left view lens are flipped after being turned on)
Right cam mirror: can be turned on/off as required (after turning on, the left and right mirror images of the right view lens are flipped)
Astern scale: 0 ~ 10 S can be set as required to extend the time of reversing observation.

二. Introduction to the keys



三. Specification parameters

Screen size	7 inch TFT Digital LCD
Color system	PAL/NTSC
Display pixels	1024X3(RGB)X600
Brightness/contrast	450cd/m2 / 500: 1
Viewing angle	85/85/85/85(L/R/U/D)
Video input	Supports Quad AHD720P–PAL/AHD720 P–NTSC, CVBS–PAL/CVBS–NTSC signal input display
Maximum storage	128G
Detection distance	Maximum 15 meters for pedestrians and 40 meters for vehicles
Language menu	Simplified Chinese, English, Dutch, French, German, Japanese
Mode of operation	11 key remote control / panel key operation
Operating temperature	–20℃ ~ 70℃, RH95%MAX
Storage temperature	–30℃ ~ 80℃, RH95%MAX
Operating voltage	DC10.8V~DC36V
Software upgrade	This machine supports upgrade via SD card

四. Functions of remote controller

Do not clean the product. Remove the insulation sheet before use.
Take care to protect the infrared transmitter, as dirt or wear will affect the reception, and do not touch the surfaces

- 1 Channel switching

2 Power switch

3 Move menu up

4 Volume down
Analog decrement

5 Volume plus
Analog plus

6 Move the menu down

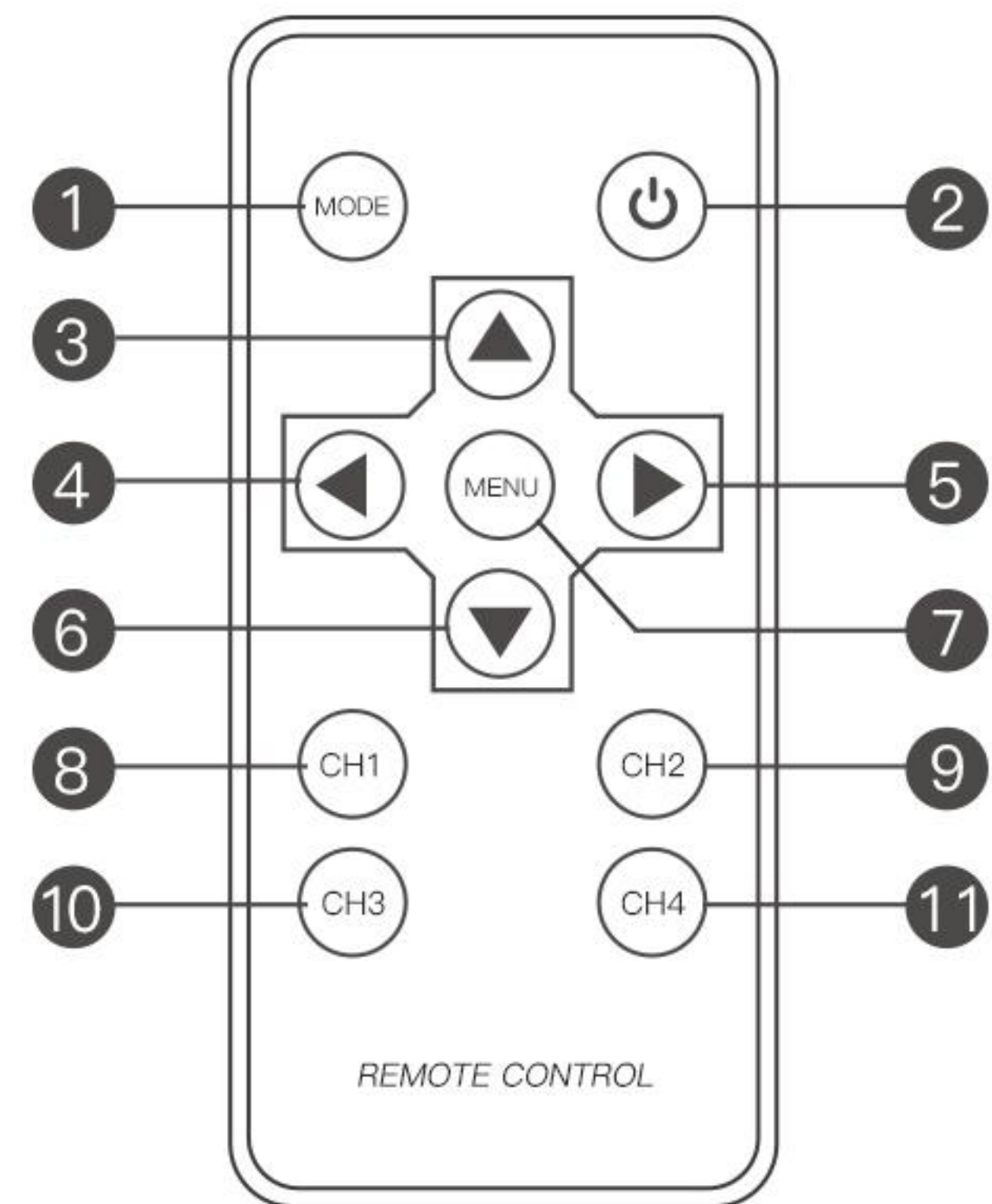
7 Menu

8 CH1 video

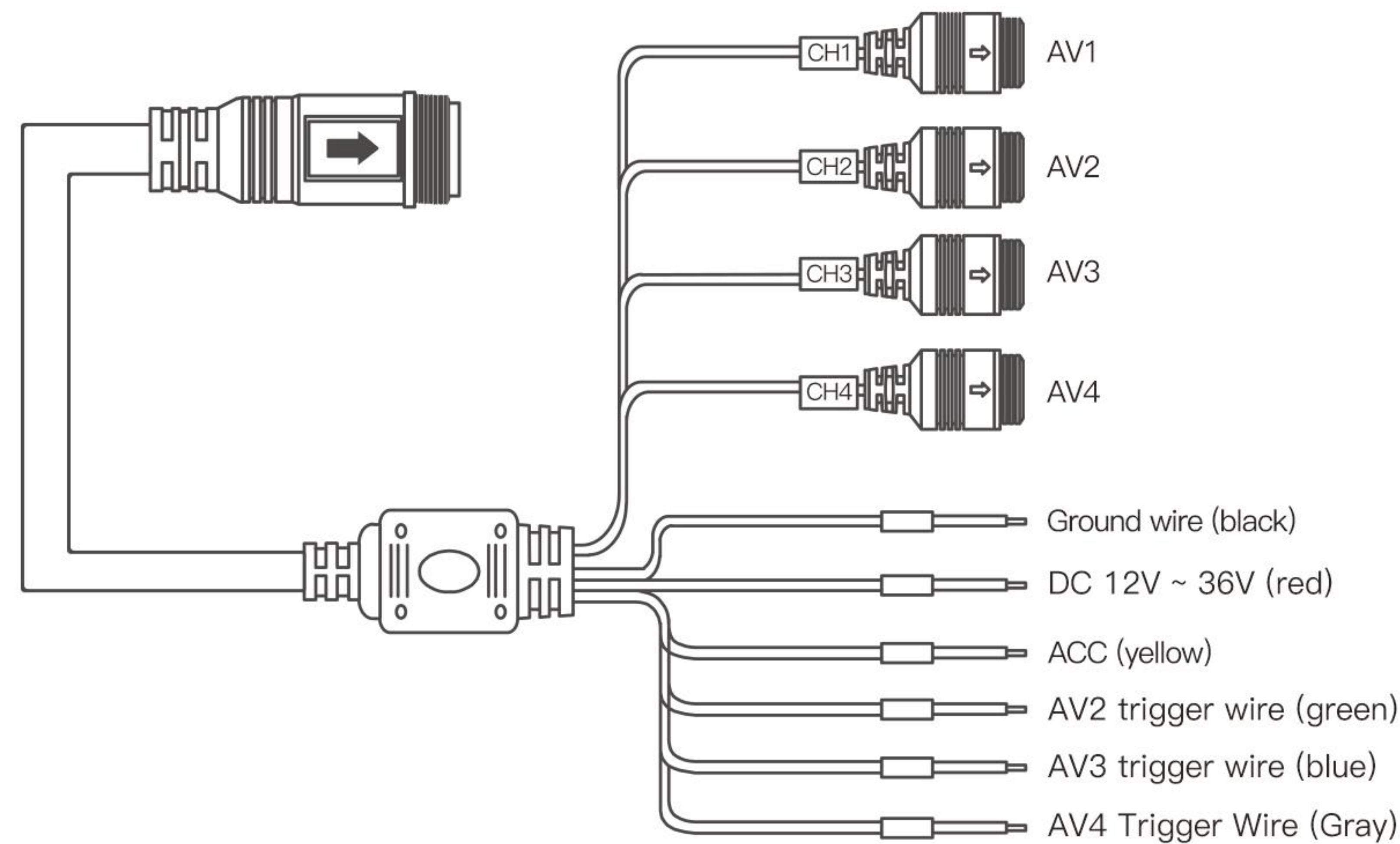
9 CH2 video

10 CH3 video

11 CH4 video



五. Wiring instructions

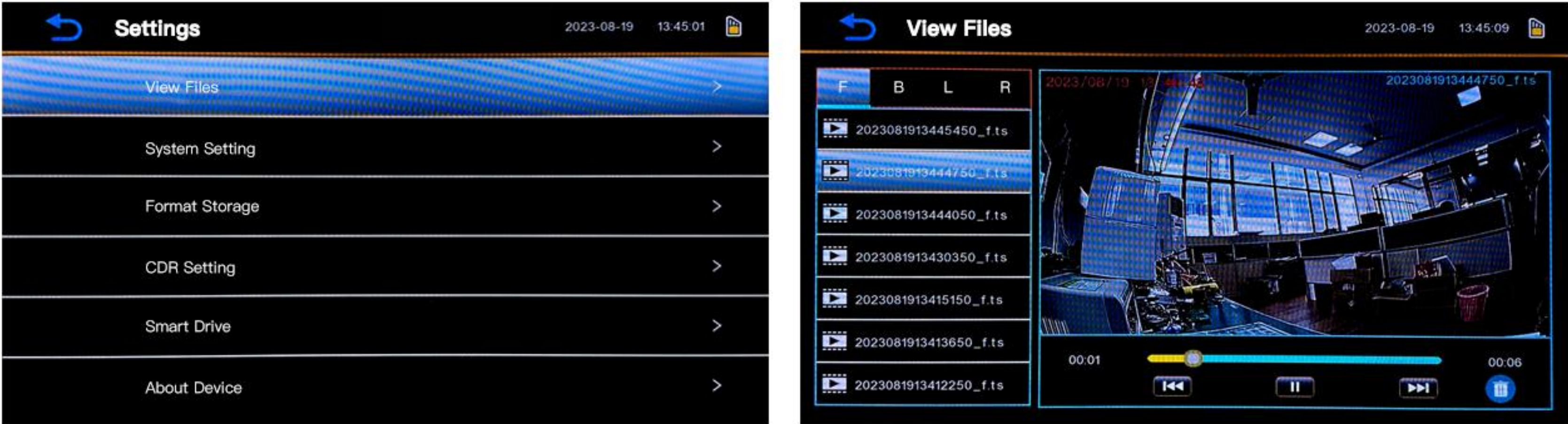


Please connect in strict accordance with the wiring diagram, If the connection is wrong, it may cause Machine failure or damage to the vehicle's electrical system.

六. System Main Menu

6.1 View Files

Press the M key on the panel or the remote controller to enter the system menu, move to view files setting with AV key, press the M key to confirm, and then select through the AV key for the submenu to be modified, press the ▲ ▼ key to adjust the parameters. after modification, press the M key for 3 seconds to exit the menu interface.

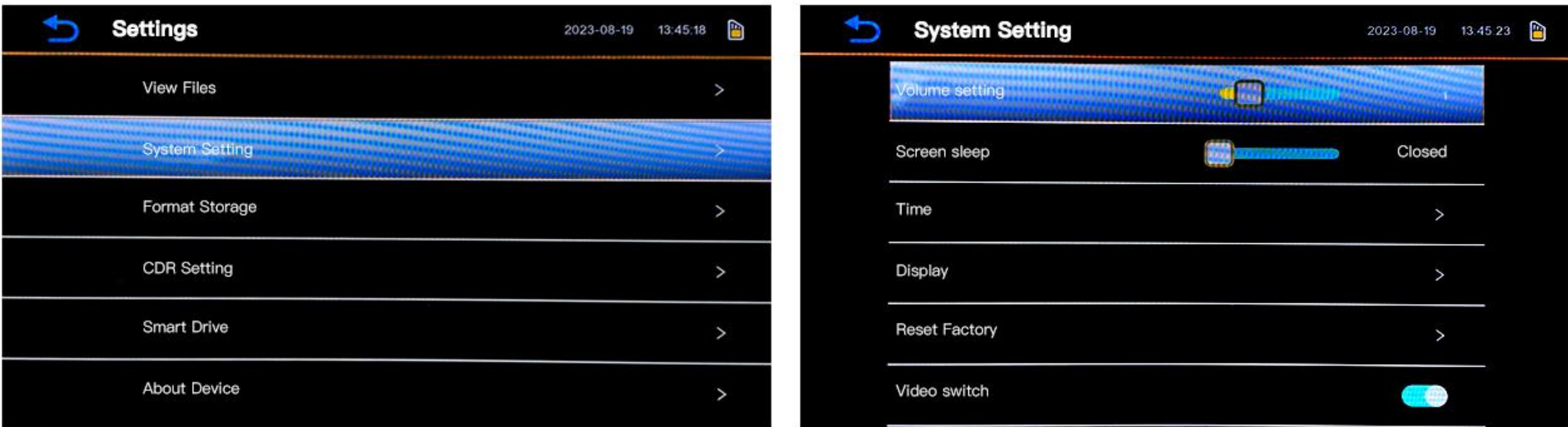


After entering the setting, you can select the video screen you want to watch by moving the AV key, and press M to confirm.

⏮ Go back ⏸ Play/Pause ⏭ Fast forward 🗑 Delete

6.2 System Setting

Press the M key on the panel or the remote controller to enter the system menu, move to System Setting setting with AV key, press the M key to confirm, and then select through the AV key for the submenu to be modified, press the ▲ ▼ key to adjust the parameters. after modification, press the M key for 3 seconds to exit the menu interface.



Volume setting: The output volume of the display 0 ~ 4 can be controlled by adjusting the value.
Screen sleep: The sleep time of the monitor 10/30/60s can be controlled by adjusting the value.
Time: The year, month, day and time of the system can be adjusted and set
Display setting: adjust picture brightness, contrast, saturation, Vcom and photosensitive switch

