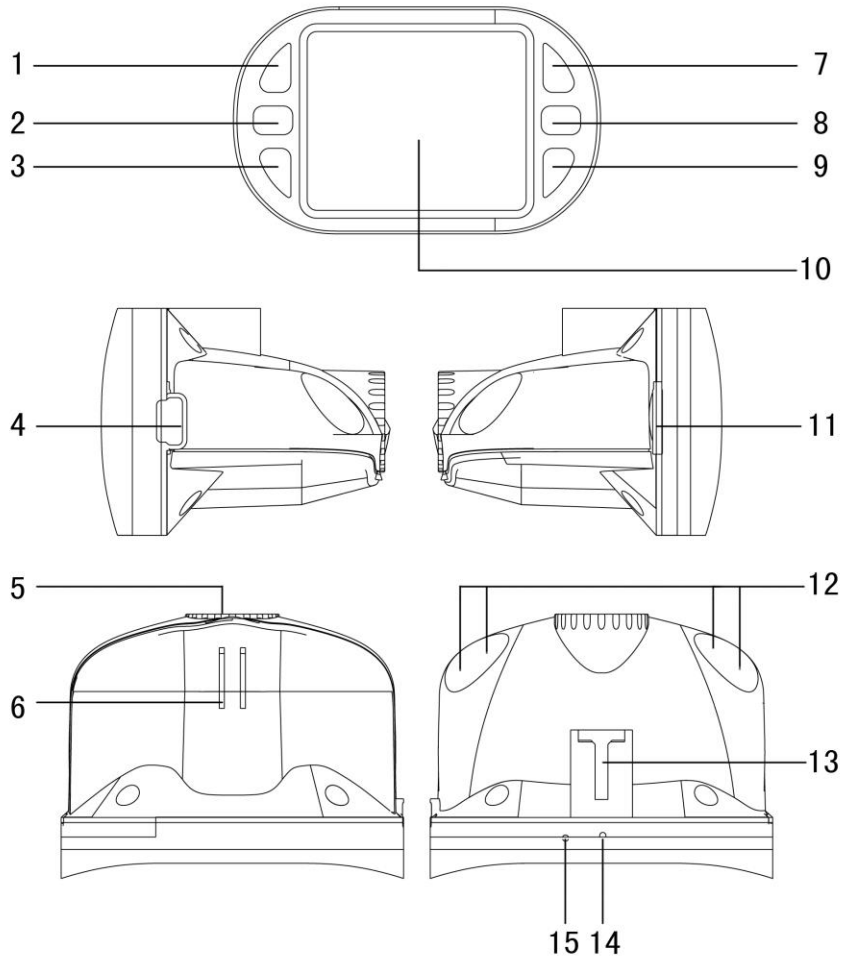


User Manual

Product description:



- | | | |
|--------------------|----------------|------------------------|
| 1) UP button | 2) MENU | 3) DOWN button |
| 4) USB interface | 5) Camera | 6) Speaker |
| 7) OK button | 8) MODE | 9) Power button |
| 10) Display screen | 11) TF slot | 12) Night Vision light |
| 13) Bracket hole | 14) Reset hole | 15) MIC |

Button and interface function description:

- 1) UP button
 - Short press on this button in standby and recording status can zoom in digital.
 - Choose up function in MENU item.
- 2) MENU button
 - Shortly press on this button to show the settings menu.
- 3) DOWN button
 - Short press on this button in standby and recording status can zoom out digital.
 - Choose down function in MENU item
- 4) USB data interface
 - Connect to PC with data cable for Data transfer
 - Connect to external power to charge battery or provide working power.
- 5) Camera
 - 120°wide-angle Lens;
- 6) Speaker
 - Video playback, voice monitor, operating sound warning
- 7) OK button
 - Confirmation button for video recording and taking photo;
 - In recording mode, press this mode to start video recording, re-press to stop;
 - In photo mode, short press to take a photo.
 - In menu mode it means confirmation button.
- 8) MODE
 - Short press on this button to shift among “photo mode, REC mode or playback mode”
- 9) POWER ON/OFF
 - Power switch: continuous press for power on/off, shortly press for night vision light on/off.
- 10) Screen

View window

11) TF slot

Slot for memory card

● 12) LED flash light

The night vision light can be turned on by pressing the "POWER" button.

● 13) Mounting

Install the device at vehicle front window with the adapter

● 14) Slot for Reset

Use this to restart when crash

● 15) MIC

Special function description

- Support recording start and shutdown synchronization with auto and save the video files after connect to the car power supply

- G-sensor function

When gravitational acceleration reach $6g(1g=9.80m/s)$, the video will be saved in the form of EVE File automatically. This file won't be deleted

- Seamless loop recording, don't leak second

- SOS file

When recording short press "M" to enforce saving the current video, when cycle recording, the file won't be deleted

REC/photo operation features

- Power on/off

Long press on "power on/off" button to start, the Indicator light will shine when power is on

Then long press again on "power on/off" button to shut down and the indicator light will go out

Notice: video device will automatically power off after warning of low battery

- REC mode

Short press on “M” button shift to REC mode, REC icon is on the top left corner

Short press on “OK” mode to start recording, flashing red dot on REC icon indicate the recording is on the way

- Photo mode

Short press on “M” button shift to photo mode, a photo icon is on the top left corner

Then short press on “OK” button to take a photo, screen flash one time means photo completed

- USB mode

Connecting USB to PC, press on DVR, on the USB menu there are two modes to choose

1: USB-Disk Mode

Choose this mode you can save file of video or photo.



2: PC-Camera Mode

Choose this mode DVR will be used as an USB Web Cam for real time video chat or photo taking.



- Video/photo playback and delete

1. Power on the DVR and press record button to stop recording.

2. Short press ON/OFF button twice to enter playing model.

3. Press  button or  button to choose the recorded file to play back or review.

4. If want to delete the file, press menu button after stop playing files, then enter the delete mode.

5. Press  button or  button to choose the “delete” or “format”.

6. Press menu button and it will close the operation.

REC operation options

- Resolution

Use this option to set the video mode, the greater detail of the image contains, the greater storage space required.

DVR recording resolution supports the following six modes

1080FHD 1920 x 1080



1080P 1440 x 1080



720P 1280 x 720

WVGA 848 x 480

VGA 640 x 480



QVGA 320 x 240



In the recording function menu, press   button to select 'Resolution' option and press the OK button to enter the sub-menu,

press the   button to select camera resolution, press the OK button to confirm and return to menu.

- Loop Recording



If the memory card is full recording of the earliest file will be deleted. loop recording feature will automatically put the current time from the oldest part of the image file deleted to get some space, through this way to make the recording continues.



In the recording function menu, press   button to select the 'loop recording' option and press the OK button to enter the sub-menu,

press   button to select Off / 1 Minute / 3 Minutes / 5 Minutes, then press the OK button to confirm and return to menu.

- EV

EV values can be adjusted according to different light conditions, you can maximize the screen brightness.



In the recording function menu, press   button to select 'EV' option and press the OK button to enter the sub-menu,

press   button to select +2.0 / +5 / 3 / +4 / 3 / +1.0 / +2 / 3 / +1 / 3 / +0.0 / -1 / 3 / -2 / 3 / -1.0 / -4 / 3 / -5 / 3 / -2.0, then press the OK button to confirm and return to menu.

- Motion Detection



When turned on motion detection function, the sensor will sense change of an object, the DVR will automatically start recording when object moving, recording process, if there is moving object, DVR will stop recording after 5 seconds.



In the recording function menu, press   button to select the 'Motion Detection' option and press the OK button to enter the sub-menu,

press   button to select On / Off, press the OK button to confirm and return to menu.

- Audio



The video recording could be set up with sound or without sound.



In the recording function menu, press   button to select 'Audio' option and press the OK button to enter the sub-menu,

press   button to select On / Off, press the OK button to confirm and return to menu.

- Date Stamp

Turn on this function, time label will appear in a video side.

In the recording function menu, press   button to select 'Date Stamp' option and press the OK button to enter the sub-menu,

press   button to select On / Off, press the OK button to confirm and return to menu.

- G-sensor



When the gravity acceleration reaches ($1g = 9.80 \text{ m} / \text{s}^2$), DVR will automatically save the video of the accident, they were protected file will not be deleted.



In the recording function menu, press   button to select the 'G-sensor' option

option and press the OK button to enter the sub-menu,

press   button to select 2G / 4G / 8G / Off, press the OK button to confirm and return to menu.



- Button Sound



In the recording function menu, press   button to select ' Button Sound ' option and press the OK button to enter the sub-menu,

press   button to select On / Off, press the OK button to confirm and return to menu.

Camera operation options

- Timer

In the camera options function menu, press   button to select the ' Timer ' option, press the OK button to enter the sub-menu,

press   button to select Single / 2S Timer / 5S Timer / 10S Timer, press the OK button to confirm and return to menu.

- Resolution

Use this option to set the size of the shooting image, the greater detail of the image contains, the greater storage space required.

Camera supports the following resolutions

12M 4032 x 3024

10M 3648 x 2736

8M 3264 x 2448



5M 2592 x 1944

3M 2048 x 1536



2MHD 1920 x 1080

VGA 640 x 480

1.3M 1280 x 960



In the camera options function menu, press   button to select the ' '



Resolution ' option and press the OK button to enter the sub-menu,

press   button to select the desired resolution, then press the OK button to confirm and return to menu.



- Sequence



Open this function to support continuous shooting five images.

In the camera options function menu, press   button to select ' Sequence ' option, press the OK button to enter the sub-menu,

press   button s to select On / Off, press the OK button to confirm and return to menu.



- Quality



In the camera options function menu, press   button to select ' Quality ' option and press the OK button to enter the sub-menu,

press   button to select Fine/ Normal / Economy, then press the OK button to confirm and return to menu.

- Sharpness





Use this option to adjust the different image effects and sharpness.

In the camera options function menu, press   button to select the ' Sharpness ' option, press the OK button to enter the sub-menu,

press the   button to select Strong / Normal / Soft, press the OK button to confirm and return to menu.





- White Balance

Based on the current lighting conditions, use this option to adjust the hue. Use this option to correct color difference under different lighting conditions. When the white balance is set to Auto, DVR will automatically compensate for different lighting

conditions In the camera options function menu, press   button to select the ' White Balance ' option, press the OK button to enter the sub-menu, press the   button to select Auto / Daylight / Cloudy / Tungsten / Fluorescent, press OK button to confirm and return to menu.





- Color

You can choose to shoot standard and bright colors of image effects, Special effects like retro shades of black and white images are optional.

In the camera options function menu, press   button to select the ' Color ' option, press the OK button to enter the sub-menu, press   button to select the color / B&W / Sepia, then press the OK button to confirm and return to menu.





- EV

EV values can be adjusted according to different light conditions, you can maximize the screen brightness.



In the recording function menu, press   button to select ' EV ' option and press the OK button to enter the sub-menu, press   button to select +2.0 / +5 / 3 / +4 / 3 / +1.0 / +2 / 3 / +1 / 3 / +0.0 / -1 / 3 / -2 / 3 / -1.0 / -4 / 3 / -5 / 3 / -2.0, then press the OK button to confirm and return to menu.



- ISO

According to different light conditions and select the corresponding ISO value.



In the camera options menu, press   button to select ' ISO ' option and press the OK button to enter the sub-menu, press   button to select Auto / 100 / 200 / 400, then press the OK button to confirm and return to menu.



- Anti-Shaking

In the camera options menu, press   button to select the ' Anti-Shaking ' option and press the OK button to enter the sub-menu,

press   button to select On / Off, press the OK button to confirm and return to menu.



- Quick Review



In the camera options menu, press   button to select the ' Quick Review ' option and press the OK button to enter the sub-menu,

press   button to select 2 Seconds / 5 Seconds, press the OK button to confirm and return to menu.

- Date Stamp

Turn on this function, time label will appear in a video side.

In the recording function menu, press   button to select ' Date Stamp ' option and press the OK button to enter the sub-menu,



press   button to select On / Off / Set Date/Time, then press the OK button to confirm and return to menu.

REC/photo operation settings

- Set Date/Time



Select Settings menu to enter the time, date settings, you can switch between the year / month / day / time back and forth

In setting function menu, press   button to select ' Set Date/Time ' option and press the OK button to enter the sub-menu,



press   button to adjust the year / month / day /, then press the OK button to confirm and return to menu.



- Auto Power Off

In setting function menu, press   button to select ' Auto Power Off ' option and press the OK button to enter the sub-menu,

press   button to select Off / 2 Minutes / 5 Minutes / 10 Minutes, then press the OK button to confirm and return .



- Language



In setting function menu, press   button to select ' Language ' option and press the OK button to enter the sub-menu,

press   button to select English / French / Spanish / Portuguese / German / Italian / Simplified Chinese / Traditional Chinese / Russian / Japanese / Polish. press the OK button to confirm and return to menu.


- Light Frequency



Set the appropriate current Light frequency.

In setting function menu, press   button to select the ' Light Frequency ' option and press the OK button to enter the sub-menu,

press   button to select 50Hz / 60Hz, press the OK button to confirm and return to menu.



- Screen Saver



In setting function menu, press   button to select ' Screen Saver ' option and press the OK button to enter the sub-menu,

press   button to select 1 Minute / 3 Minutes / 5 Minutes / Off, then press the OK button to confirm and return to menu.

- Light Set



Infrared night vision lights up at night to support the role of light, effectively within 0.5 m



In setting function menu, press   button to select ' Light Set ' option and press the OK button to enter the sub-menu,

press   button to select On / Off, then press the OK button to confirm and return to menu.

- Image Rotate

When need to flip the screen,


in the setting function menu, press   button to select ' Image Rotate ' option, press the OK button to enter the sub-menu,

press the   button to select On / Off, then press the OK button to confirm and return to menu.

Note: just flip the screen, DO NOT support Flip of recording video

- Format

Formatting will erase all data.



In setting function menu, press   button to select ' Format ' option and press the OK button to enter the sub-menu,

press   button to select Cancel / Confirm, and then press the OK button to confirm and return to menu.



- Default Setting

Use this function to reset all settings back to the default values.

In setting function menu, press   button to select the ' Default Setting ' option and press the OK button to enter the sub-menu,

press   button to select Cancel / Confirm, and then press the OK button to confirm and return to menu.

- Firmware Version

In setting function menu, press   button to select the ' Firmware Version ' option and press the OK button to enter the sub-menu and view the current software version number of DVR.

Press the OK button to return to menu.

Battery instruction

- Battery indicator for charging status

Batterieanzeige für den Ladestatus



Full battery



slightly low battery



low battery



battery empty

- Charging

The red indicator light up when charging, the entire charging time is about 180 minutes, and the red indicator light automatically off when charging completed.

A. Working by the built-in Li-ion battery

Charging way: (1) Charging by the car charger

(2) Charging by connecting to computer by USB cable

B. Working by the USB car charger

When the car powers on, the DVR will start recording automatically; 10 minutes after the car powers off, the DVR will save the files and power off.

Notice: Video instrument can only use 5V car power supply, or it may cause device damage.

This products Car power can only be used in 12V/14V

When working by car charger, we have to close the DVR by long pressing the ON/OFF button or cutting of the power of the device.

Remark: when appear crash because of improper operation, you can remove battery or press “reset” button to restart.

Products specifications

Features	HD camera, HD video recording
LCD screen size	1.5LTIPS
Camera	120 A + grade high-resolution ultra wide - angle lens
Language	Russian, Japanese、 French, Italian, German, Spanish, English, Chinese (simplified) and Chinese (Traditional), Korean, etc...
Files formats	AVI
Recording video format	M-JPEG
Color	Standard
Continuous loop video	seamless loop recording, don't leak second
Automatically power on/off	Support auto ignition boot, turn off shutdown
Motion Detection Function	Support
Time synchronization	Support (Y/M/D/H/M/S)
Carrier media	Built-in memory (total: 64 MB)
Photo mode	5 million
Photo format	JPEG
Memory card	micro SD (max 32GB)
MIC	Support
stereo Built-in	Support
Infrared night vision	Support
Video output	AV-OUT / HDMI
Video format	PAL / NTSC

Current frequency	50HZ/60HZ
USB function	1: USB-Disk 2: PC-Camera
Power interface	5V 800mA
Battery	300mAh Built-in

Trouble shooting:

➤ **For problems in normal operating situation, please try these methods below:**

- **Can't take photo and recording**
Check if the micro SD card has enough space or is locked?
- **Automatically stop when recording**
Use the compatible high-speed micro SD card with SDHC because of big HD video data, the high-speed micro SD card have identifying of C4 and C6
- **Appear "files error" when replay photo or video**
Uncompleted files because of TF card storage error, please use formatting function to format your TF card
- **Unclear video**
Checks if there are any dirt or fingerprint; and use lens paper to clear the camera Lance.
- **Black image when recording sky or water scene**

Scenes with big contrast will influence the automatic exposure function of camera; you can adjust "EV" in setting mode to correct.
- **Color is not perfect in cloudy day and outdoor light**
Set the "Light set" function to automatic
- **cross stripe interference in image**
Because of wrong "light frequency", please set it to 50Hz or 60Hz according to the local power supply frequency
- **Crash**
Restart by pressing shortly on" RESET" button after crash