What's in the Box?

- Mount
- Manual
- Micro SD Card
- USB cable
- Car Charger (include the adapter 12V/24V transfers to 5V)
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Introduction

Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer's warranty.

Thank you for purchasing Car black box (DVR) from our company. In order to help you operate it correctly, please read this instruction carefully before using. We hope this product can satisfy your demand and can provide long-time service to you.
Product pictures and function:

1. Lens
2. Night vision lights
3. Bracket
4. Speaker
5. LCD screen interface
6. Menu button
7. Video / camera (OK) button
8. Up button
9. Down button
10. Power / Mode button
11. Work (blue light), charging (red light) and video (blue light) indicator
12. 2.0 inch display
13. MIC hole
14. TF card slot
15. AV output
16. HDMI output
17. USB interface
18. Reset hole
**Functions**

**Power button:** shortly press for power on; After power on, shortly press to turn on/off night light; long press for power off.

**Up/Down button:** Under record/camera mode, it is used for focuses adjustment; Under function list, it is used for function selection; under video/camera mode, it is used for files selection. Under video playback state, shortly press for volume increase/reduce; long press for forward/fast reverse.

**Menu button:** Under video recording, long press MENU key to turn on/off night vision lights.

**Indicator light:** Blue light will long brighten after the device is power on; Blue light will be flash when recording; Red light will long brighten when charging. Red light will be off after battery is full.

**REC/OK button:** under record/camera mode, the button is used for starting recording/taking picture; Under function state, it is used for function confirmation; Under video preview state, it is used for play/pause.

**Two Charging modes:**

A) Using built-in rechargeable polymer battery

Charging way: 1) Connect with car charger, 2) Connect USB cable to a computer for charge.

Red indicator light will brighten during charging, will be off after battery is full. The battery icon on the screen will become charging icon.
B) Car charger
After the vehicle is started, the device will automatically enter the recording mode, it can be charged while recording. After car power off, the device will shutdown in 10 seconds and save the files automatically.
You also can manually turn off the camera, the recorded files will be saved automatically.
Note: The machine can be only compatible with car charger of output 5V!

Function Description:
Record / Camera / Playback function.
A) Record mode
Short press power button, then press OK button or connect to car charger to start recording. (note: please plug into TF card before using), then the red dot will flash on the top left of the screen, the recorded files will be saved in TF card, press OK button to stop recording, and the red dot on the top left of the screen disappeared.
B) Camera mode
Power on and press MODE button to enter camera mode. Press OK button to start taking picture.
C) Playback mode
Power on and press MODE button twice times and it will enter Playback mode. Press Up/Down to select the files you want to preview,
Press OK button for “Play/Pause”. During playback, short press Up/Down button to volume increase/reduce, and long press Up/Down button to fast forward/fast backward. (Note: Under playback mode and enter into the fast forward/fast backward, it's a normal phenomenon if the video paused temporarily, as it will need a little buffering time for the video decoding.)

**USB / PC Camera mode:**
Connecting the device to a computer by USB cable, the device's display will pop up "Mass storage" and "PC Camera".
A) Press up / down button to select "Mass storage", then press OK button to enter into USB mode, open file of My Computer, it appears removable disk. All files of icons are stored in the folder named DCIM, you can copy files to the computer. (Note: some video playback software in the computer does not support thumbnail mode, so it appear the thumbnail of video corruption / green screen phenomenon, but it does not affect the video normal playback)
B) Press up / down button key to select the ‘PC Camera’, press OK button to confirm to enter into PC CAMERA mode

**Focus function:**
Under the camera or record mode, press UP/DOWN key, then the screen will show the icon of FOCUS zoom, and press UP/DOWN to choose the Zoom multiple (1-4).
ABOUT / HDMI output test:
After power on, please connect DVR to LED TV by A/V cable or HDMI cable, then the device will automatically switch to playback mode; Meantime, the DVR's screen don't show anything, only TV shows menu operation. (Note: A/V and HDMI can not be used at the same time).

G-SENSOR (collision sensor):
The device is automatically recording after car charger is plugged into. It measures the gravity sensor by dynamic acceleration due to gravity, and could sense the moving direction (Left - right - front - back) and the vibration of collision of the vehicle. If the occurrence of serious vehicle collision, "lock" icon displays on the upper left screen, the collision sensor would be triggered soon. White lock icon means DVR will start to record with a recycle time after the accident happened, and this video will not be removed or overwritten, then it returns to normal working state. In case of serious collision of the vehicle, the device automatically start the collision induced and incidents video will be an important files saved, can serve as an evidence or proof (This file will not be overwritten or deleted).
Setting the Menu functions

Turned on, press the MENU button to enter the camera mode setting interface, press Down button to enter the option, Press Up/Down buttons to select the listed settings, press the OK button to enter the set function parameter interface, then press Up / Down to select their specific parameter, and finally press OK to exit.

1) Resolution: 1080FHD (1920*1080) 720P 60FPS (1280*720) 720P 30FPS (1280*720) WVGA (848*480) VGA(640*480)

2) Loop recording: OFF, 1minutes, 3 minutes, 5 minutes

3) WDR: Full-time opening

4) Exposure:  +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

5) Motion Detection: Off / On

6) Record Audio: Off / On

7) Date stamp: Off / On (Time watermark of video recording)

8) G-sensor: Off, High, Middle, Low

Power on, press MODE button to enter the camera mode, press the MEMU button to enter the camera settings interface, press Down button to enter the option, Press Up/Down buttons to select the listed settings, press OK button to enter the set function parameter interface, and then press Up / Down buttons to select specific parameters, press the OK button to exit.
1) **Capture mode**: single shoot  2 seconds pacemaker  5 seconds pacemaker  10 seconds pacemaker

2) **Resolution**: 12M (4032*3024)  10M (3648*2736)  8M (3264*2448)  
   5M (2592*1944)  3M (2048*1536)  2M HD (1920*1080)  
   VGA (640*480)  1.3M (1280*960)  

3) **Continuous shooting**: Off/ On  

4) **Image quality**: High, Medium, Economy  

5) **Sharpness**: Strong /Standard/ Soft  

6) **White Balance**: Auto/ Daylight/ Cloudy/ Tungsten/ Fluorescent  

7) **Color**: Normal/ Black and white/ Brown  

8) **ISO**: Auto  100  200  400  

9) **Exposure**: +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  

10) **Anti-shaking**: Off/ On  

11) **Date stamp**: Off, Date, Date / Time (Time watermark of taking pictures)

Power on and Press Mode twice and enter into playback. And press MENU button and enter the setting interface of the playback. Press the down button and enter the list. Choose the setting functions using Up/Down button, press OK button and enter the interface of setting the function. Then Press up/down button choosing the specific the parameter and press OK.
Settings

to confirm.

1) Delete: Delete current, Delete All.
2) Protection: Locking current   Unlock current   All locking   Unlock all
3) Slide show: 2 seconds   5 seconds   8 seconds

Under Recording Mode or Camera Mode, press the MENU button again, DVR will enter the setting interface, press Down button to enter the option, Press Up / Down button to select their specific parameter, and finally press the OK button to exit.

1) Date / Time: Press Up/Down button to select the date / time, press OK button to enter the setting interface, press the OK button to select the year / month / day / hour / minute / second, press Up/Down to adjust, finally press OK button to exit.

Up/Down button are used to adjust the time and date, press OK button to enter the next setting, when all setting is finished, press OK button to exit.

Note: before setting time, press Up/Down to select: [year / month / day], [date / month / year] and [month / day / year].

2) Auto power off: off, 3 minutes, 5 minutes, 10 minutes

3) Key tone: Off / On

4) Language: English / Simplified Chinese / Traditional Chinese / Japanese / Russian / French / German / Italian / Spanish / Portuguese

5) Frequency: 50HZ   60HZ
6) Screen saver: off, 3 minute, 5 minutes, 10 minutes.
7) IR LED: Off/ On
8) Imagine rotation: On/ Off
9) Car plate: AAAAAAA
10) Format: SD card (Select SD card, press OK button to enter, press Up/Down button to select Cancel/Ok again, then press OK button to exit.)

11) Default settings: Press the OK button to enter, press Up/Down buttons to select the cancel/confirm, press the OK button to confirm.
12) Version: press OK button to enter, display the current version.
1. Please only use the 5V output to charge the device, otherwise will cause damage.
2. Make sure TF card plug in right direction, if the direction is incorrect, it may damage the camera and TF card.
3. Please use standard SDHC high speed TF card with mark “C4” or “C6” tag.
4. If TF card is not compatible with the device, the card may not be read. Please format the TF Card by the DVR device.
5. To save the battery power, please set the time of turning off the screen and auto power-off in the menu, then the camera will be automatic power-off and in the mode of screen saver in the set time when no any operation.
6. When the Li-polymer is in low level, the screen will show the words and icon of "Low Battery". At this time, please charge the device. Otherwise the device will automatically save files and turn off in 2 seconds.
7. When you need to reset the device, press the RESET button, DVR will automatically.
### Specifications

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<td>Video Output</td>
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<td>Video</td>
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<td>Memory Card</td>
<td>Memory Card: 32M ROM; Support SDHC TF Card up to 32GB</td>
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<td>HDMI</td>
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<td>Motion Detection</td>
<td>Support</td>
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<td>Filling Light</td>
<td>4 infrared night vision lights</td>
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<tr>
<td>Battery</td>
<td>600mAh 3.7V lithium battery</td>
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</table>
Simple Troubleshooting Answer
In normal operating conditions, if the product has problems, please refer to the following solutions:
* **Can not take pictures, photography**
  Please check TF card whether there is enough space, whether locked.
* **When shooting video, it will automatically stop**
  Due to huge amount data of high-definition video, please use high-speed TF card which is compatible with SDHC, usually the high-speed TF card is with the mark of C4 or C6.
* **When playback pictures and video, appear "file error" prompt**
  This caused by error saved information. Please use "format" function of the device to format the TF card.
* **No image is displayed on a high-definition TV screen**
  Please confirm HDMI cable plug is properly connected, TV is set to the correct HDMI status.
* **The images is hazy**
  The lens is not enough clean, please check if the lens is dirt, or with finger prints, please wipe lens cleanly by lens paper before taking picture.
* **Fill light can't be enabled**
  In the case of lower battery, fill light can't be enabled.
* **The image is with horizontal stripes interference.**
  Due to set the wrong light frequency, please set as "50Hz" or "60Hz" according to the local power supply frequency.
* When screen saver, pressing POWER button can not wake up the screen
Because POWER button is for night lamp On/Off shortcut button at this time, you can not simultaneously achieve two functions, so pressing POWER button can not wake up the screen. But pressing any other buttons can wake up the screen.
Warranty

One Year Warranty
Rear View Safety, Inc. warrants this product against material defects for a period of one year from date of purchase. We reserve the right to repair or replace any such defective unit at our sole discretion. Rear View Safety, Inc. is not responsible for a defect in the system as a result of misuse, improper installation, damage or mishandling of the electronic components. Rear View Safety, Inc. is not responsible for consequential damages of any kind.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear and tear, this damage is due to abuse, improper maintenance, neglect or accident; or the damage is due to use of the Rear View Safety, Inc. system after partial failure or use with improper accessories.

Warranty Performance
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