This product adopts high-performance chip, provides high definition video and seamless dynamic image. The product has passed strict authentication of European CE and America FCC, which supports FHD1080P full high definition camera shooting. Please read the manual carefully before using and properly keep it. We hope this product can meet your requirements and establish a long-term service relationship with you!

I. Illustrations of Appearance and Functions:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power key</td>
<td>6</td>
<td>Reset key</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Menu/Mode key</td>
<td>7</td>
<td>USB port</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Up Key</td>
<td>8</td>
<td>Rear camera port</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Down key</td>
<td>9</td>
<td>TF card slot</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ok key</td>
<td>10</td>
<td>GPS output interface (optional)</td>
<td></td>
</tr>
</tbody>
</table>
1. **Power key**

   Function 1: power on & off function
   In switch-off state, press and hold this key long for 3s to power on this device, then it will automatically start to work. In switch-on state, hold this key long for 3s to switch off with video file automatically saved.

   Function 2: turn on/off screen
   In standby state, press the Power key shortly to turn the screen off and again to turn the screen on.

2. **Menu key/Mode key/ Emergency Lock Key**

   Function 1: Mode switch
   In standby status, press Mode key can realize switch among different modes (video recording/photograph/replay).

   Function 2: Menu function
   In standby state, press Menu key shortly to enter the main menu function setup list, press the UP/DOWN key shortly to choose your desired option and then press the OK Key shortly to confirm. After setup, press the Menu Key shortly until you exist from men setup. (Menu setup is the same in video mode, image mode and playback mode.)

   Function 3: emergency lock function
   In video recording mode, if you want to protect current video from being covered, short press Menu key to start emergency lock function, there presents files lock icon on the bottom right of the screen at this moment, which shall keep the video of accident occurred 10 seconds before and
after 20 seconds as a special video and this 
video will not be covered.

3. Up Key/Fast Backward/ Motion Detection/Camera switch
   Function 1: Page upward
   In menu setup and replay mode, this key is 
to page upward.
   Function 2: fast backward
   In replay mode, short press Up Key can 
realize fast backward.
   Function 3: motion detection
   In standby status, long press 【Up Key】
can switch to motion detection mode and again 
can exit this mode.
   Function 4: camera switch
   It will automatically display dual cameras after 
connecting external rear camera. In video 
recording mode, short press Up Key can realize 
switch among four display modes: front camera, 
rear camera, picture in picture and split-screen 
presentation; in photo- graph mode, short press 
Up Key can switch front camera and rear camera.

4. Sound Recording/Down Key/Fast Forward/Parking Monitor
   Function 1: turn off sound recording
   In video recording mode, short press Down 
key can turn off sound record. Microphone 
on the bottom right of screen becomes a 
prohibition icon, which means sound 
recording function has been turned off. 
Short press Down key again can turn it on, 
the icon shows sound recording is turned on.
   Function 2: page downward
In menu setup and replay mode, this key is to page downward.

Function 3: fast forward
In replay mode, short press Down key can realize fast forward.

Function 4: parking monitor
In standby mode, long press Down key can turn on/off parking monitor function.

5. Video Key/Image key/OK key
Function 1: Turn on/off video recording
In video recording mode, short press Ok key to start video recording and again to stop recording.
Function 2: Take pictures
In photograph mode, short press OK key can take a picture.
Function 3: file play

In file browsing mode, short press OK key can play video.

Function 4: Confirm
In video recording mode/photo mode/replay mode, press the Menu key shortly to enter the main menu mode, press the UP/DOWN Key shortly to browse and the OK Key to confirm.

II. Installation instructions
1. Shut off the automobile engine.
2. Insert the TF card into the card slot of the device.
   [Note] Please use high-speed TF card (above Class 6) with capacity not less than 512MB and supporting 32GB maximally.
3. Fix the recorder on the original rearview mirror of automobile.
4. Plug car charger into automobile cigarette lighter.

5. Connect the USB port of the recorder with the on-board charger with the charge extension line.

[Note] In wiring, lay the charge extension line along the edge of the windshield.

6. Install the rear camera at the back of automobile, pay attention to direction when installing. Wiring can be along the roof of vehicles. After finishing installation, connect the plug to rear camera interface of the recorder.

7. Adjust the position of the camera and make sure it levels with the ground.

8. Start the engine and check if the recorder is installed correctly.

[Note] When the recorder is installed correctly, the system work indicator and the charge indicator will be on (or off after the battery is fully charged), the video indicator will flicker and the recorder will be activated into the recording state. Be sure to check if the picture on the screen is normal. If the picture is reverse, adjust it by switching the positive/negative phase of the camera.

III. Brief introduction of function

1. Use automatic recording function
Start the engine of the vehicle, then the recorder will automatically start, the charge system and the charge indicator will be on and the video indicator will flicker. Stop the engine, then the recorder will automatically
save the recording content and stop automatically. The recorded video will be stored in the TF card by segments. When the TF card is full, the early video will be covered. The recording time interval may be set up in the menu and chosen from 2mins/3mins/5mins.

**[Notice]**

a. If any gear in "2/3/5" is chosen, the recorder shall cover the previous recorded video when TF card storage is full;
b. Video of front and rear camera are respectively saved in “DCIMA” and “DCIMB” folder of TF card.

2. **Use manually recording function**
Press the Power key for 3s of the recorder, then the recorder will be activated and start automatic recording and the video indicator will be on and flicker. Press and hold the Power key again for 3s, then the recorder will automatically save the record and then power off.

3. **Use shooting function**
In power-on state, press the Mode key shortly to enter the image mode. In such case, the icon in the left upper corner of the screen will change from video recorder to image taker; press the Ok key shortly again to take pictures. To switch to video mode, press the Mode key shortly for twice.

4. **Use motion detection function**
In the standby state, long press Up Key to enter motion detection mode. The machine shall enter camera shooting state when the
lens senses the motion of objects. If it fails
to sense motion of objects for 5 seconds, the
device shall stop video recording. If you
want to exit motion detection mode, long
press Up Key for 3 seconds before
recording the video can exit motion
detection mode.

5. Collision sense function
There’s built-in collision sensor (G-sensor)
in the recorder. If serious vehicles collision
occurs, the recorder will lock the recorded
video of accident occurred and save it as a
special video, meanwhile, there presents
lock icon on the upper left of screen. The
locked video shall not be covered.

Note:
a. The name of the locked video file is
time/date+SOS while that of a
common video file is time/date.
b. Collision sensor (G-sensor) supports
sensitivity adjustment, which can be
changed and set in setting menu by
users as actual needs.

6. One key lock function
This machine is equipped with one key lock
function, which can lock the video needs to
be saved instead of cyclic covering. In
videoing, press the Menu key shortly, then
the DVR will lock the desired video and the
name of the locked video file will be
time/date+SOS.

7. Date/Time Setup
In standby state, long press the Menu key to
enter the system setup menu; press the
UP/DOWN key to move the cursor to the option of date setup. Then press the OK key shortly to confirm and enter the setup menu. Press the Mode key shortly to switch the options of date, the Up/Down key to adjust time and the OK key to exit and save the set time.

**Note:** For the effective recording of the date and time for the traffic accident, be sure to set correct time before use.

**8. Function of One-key Mute**

In working state, press the Down key shortly, then the microphone icon in the bottom left corner of the screen will turn white, indicating that the video and audio synchronization has been off. In such case, the recorder will record only video rather than audio; press the Down key shortly again, then the microphone icon in the upper part of the screen will turn colorful, indicating that the video and audio synchronization has been recovered.

[Tip] The setup will be saved automatically and thus it is unnecessary to set mute for the next startup.

**9. U-disc Mode**

Connect the recorder to the PC USB port with data cable, then the screen will display the optional modes of disc and camera. Press the Up/Down key to choose the option of disc and press the OK key shortly to enter U-disc mode.

**10. Replay**

In power-on state, press the Mode key
shortly for twice to switch to replay mode. Press the up/down key shortly to find the desired file, press the OK key shortly to play the file. To exit, press the Mode key again.

11. Visual image of automobile reversing
First of all, car charger must be connected to the recorder. Black and red line on the pulling camera need to be connected to backup light. Plug the car charger in can automatically start video recording state. If a car is in reverse gear at any state, it will present reversing image. After finishing visual rear view, the recorder returns to video recording mode automatically.

12. Parking monitor
When parking monitor function is on, in the state of power-off, if there’s slightly vibration of automobile, the recorder shall start and take video automatically. If the automobile is in a status of flameout, the recorder shall save recording for 20 seconds and then power off.

Answers to Common Questions
1. Why is the device often restarted?
Answer: 1) Firstly check if the device has activated the parking monitoring function. If yes, inactivate it.

2) The failure of the TF card may result in the restart of the device. Please format or replace the card.
2. Why does the recording device resume to record after several seconds?
Answer: Check if the motion detection has been acted (check if there is one small figure on the upper right of the screen). If yes, please inactivate it (hold the [Up] key for 3s) or format the TF card.

3. Why is the device unable to turn on?
Answer: 1) Check if the power cord is normal, if the car charger works and if the charging LED on the car DVR works.

2) After unplugging the TF card, reset the device, press the On/Off key to check if the device can turn on.

4. Why is the video unclear?
Answer: The lens is unclean or the windscreen is not clean enough. Clean the lens or the windscreen.

5. Why is the device unable to have circular recording?
Answer: 1) Check if the device has been set as circular video mode or has restored to factory settings.

2) The TF card has too many broken blocks and the HD video to be saved to the card is too large, so the device cannot have circular video. Please format or replace the card.

6. Why does the image have the disturbance of horizontal lines?
Answer: According to the local power supply frequency, set the frequency as 50Hz or 60Hz. (50Hz for China and 60Hz for foreign countries).
### IV. Products specification

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in image sensor</td>
<td>120W</td>
</tr>
<tr>
<td>Lens angle</td>
<td>170°</td>
</tr>
<tr>
<td>Resolution of rear camera</td>
<td>720×480</td>
</tr>
</tbody>
</table>
| Video resolution               | 1080P(FHD1920×1080), 25FPS  
                                  | 720P(HD1280×720), 30FPS  
                                  | VGA(640×480), 25FPS |
| Image resolution               | 1M(1280×960)   
                                  | 2M(1600×1200)   
                                  | 5M(2592×1944)   |
| Store and compressed method    | H.264          |
| Video format                   | MP4            |

<table>
<thead>
<tr>
<th>Image format</th>
<th>JPEG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>-30°C~70°C</td>
</tr>
<tr>
<td>temperature</td>
<td></td>
</tr>
<tr>
<td>Operation</td>
<td>0°C~50°C</td>
</tr>
<tr>
<td>temperature</td>
<td></td>
</tr>
<tr>
<td>Operation</td>
<td>15-65%RH</td>
</tr>
<tr>
<td>humidity</td>
<td></td>
</tr>
<tr>
<td>Capacity of</td>
<td>Supports capacities as</td>
</tr>
<tr>
<td>storage card</td>
<td>large as 32GM</td>
</tr>
<tr>
<td>Standard voltage</td>
<td>DC5V</td>
</tr>
</tbody>
</table>