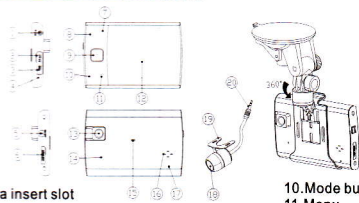


# **Road Safety Guard**

## **Instruction Manual**

**Thank you for purchasing Separate HD DVR from our company. In order to help you operate it correctly, please read this instruction carefully before using**

## Product Picture and Function



1. Separate camera insert slot
2. AV-OUT
3. USB Slot
4. Working Indicator (blue) Charging Indicator (red)
5. ON/OFF Power Switch (Turn on/off for 3 seconds/ turn on/off LCD for 1 seconds)
6. Micro SD Card Slot
7. Down button (Switch display picture for 1 second, adjust EV value for 3 seconds at REC and camera mode)
8. Up button (Turn on/off record sound at Rec mode)
9. Rec/Snap
10. Mode button
11. Menu
12. 3.5" LED Screen
13. Built-in Camera
14. Reset
15. Mount Fixed Hole
16. Microphone
17. Speaker
18. Separate Camera
19. Separate Camera Fixed Frame
20. TV-IN Plug

## Attached accessories

- Manual • Mount • USB cable • AV cable • Reverse trigger cable
- USB Car Charger (Include the adaptor which can 12V/24V transfers to 6V)

## Operate

Two power options:

### (A) Use Built-in Li-ion battery

DVR can be activated after it has been placed on the vehicle by pressing the ON/OFF power switch (5) for 2 seconds and turn off by pressing it again.

Charging: Connect with USB cable or car charger, the indicator will display red and convert to no light when it is full

Note: As the battery capacity is little and the power supply time is short, it mainly save the recording file and time after the car stops, please don't use built-in Li-ion battery for power supply in common.

### (B) Connect with USB car charger

DVR will record automatically when the car started, turn off and save the last file after the car stops.

Note: Please use the attached USB car charger to power the DVR.

## Separate camera installation and use

1. Connect TV-IN for separate camera to separate camera insert slot of main device

2. The separate camera can be installed anywhere inside the car

3. Reverse function use

Put the separate camera at the end of the car, one end 2.0 DC jack of Reverse trigger cable connect with Reverse trigger Slot, the other end red cable connect positive pole of reversing light of the end of the car (it is installed by specialized person). When the driver reverse, the screen display switch to the separate camera automatically and see the condition of the end of the car for reversing.

## Video Mode

DVR will enter into the defaulted recording mode when turned on, the work indicator

flash blue and indicate it is recording. The recorded files are saved in the Micro SD card. To stop, please press Rec button (9) or end when car stops, the work indicator won't flash.

## Camera Mode

Turn on the DVR and press Mode button (10) to enter into Camera Mode. To take photo by pressing Snap Button (9). At Camera mode, press Menu button (11) to enter into Menu to set the image resolution 1M/2M/3M by Up/Down button and Press Rec button (9) to exit after finish setting.

## Preview and Delete

Turn on the DVR and stop recording by pressing Rec button (9), then press Mode button (10) twice to enter into Preview Mode. Press Up (8) or Down (7) to select the previewed files. If it is video file, it can play or suspend by pressing Rec button (9), and stop playing by Mode Button (10). At the preview mode, if you want to delete the files, press the Menu button (11) to enter into the Delete mode and confirm to delete the current file (only can delete single file, if need delete all, please use format function).

## Function Setting

Turn on the DVR and press Rec Button to stop recording, then Press the Menu button (11) to enter into the setting interface. To confirm the operation, press the Rec button (9) and select by Up/Down for the following setting. Press Menu button (11) to exit after finished all the settings.

A. Basic set

1. Format: YES/NO. When select YES, it will Format Memory SD Card.

2. Date Set: Y/M/D H/M/S

Press Rec button (9) to enter into the date and time setting, then press up button (8) or Down button (7) to adjust the date and time, Y/M/D H/M/S switch by mode button, to enter into the next setting and confirm the setting by pressing Rec button (9).

3. Volume: From 0 to 7

4. TV- OUT: PAL/NTSC

5. Watermark: On/Off. When choose Off, Video will not have date and time display

6. Backlight: 15 seconds/30 seconds /60 seconds/ON. When select (15/30/60) seconds, the LCD will turn off automatically after 15/30/60 seconds of inactivity. If select ON, the LCD will turn on all the time.

7. Frequency: 50HZ/60HZ

8. Default Set: YES/NO. When choose YES, it will restore to factory-default setting



9. Version: Show the software version number


B. Rec Set

1. MP: Built-in camera HD(1280\*720Pixels) /VGA(640\*480Pixels) Separate camera 720\*480Pixels

2. RT: 1 minutes /2 minutes/5 minutes /OFF. When choose Off, the recording is not cycling.

3. Frame rate: 15FPS/30FPS

4. Record: ON/OFF. When choose ON, the icon above the LCD is , when choose Off, the icon above the LCD is .

5. Auto Detect: Choose ON (it will display  on the screen) /OFF. When choose ON, it will detect once per 5 seconds, stop recording if there is no object movement after 5 seconds and continue recording if there is object movement. The two cameras will record at the same time when in front of built-in camera has object movement, but two cameras won't record when just only in front of the separate camera has object movement).

6. PIP: ON/OFF. When select ON, the screen will display two cameras at the same time, one is larger, the other is smaller.

7. Record Mode: Double record/Front record/Back record  
Double record: Two cameras can record at the same time  
Front record: only Built-in camera record

- Back record:only Separate camera record
- 8.Boot Record:Yes/No.When choose Yes,DVR will record automatically when turn on, when choose Off,DVR won't record when turn on and record by press Rec button.
- C.Language: English/ Chinese Simplified /Chinese Traditional/ Korean/ Japanese / Russian.

## **USB Mode**

### **A.Download the file**

Connect the DVR with computer through USB cable and choose"USB-DISK". There will appear removable disk in MY COMPUTER . The recorded files are stored at the DCIM index,the recorded files for built-in camera are stored at the DCIMA folder,and the recorded files for Separate camera are stored at the DCIMB folder.

### **B.PC Camera,choose it to use PC Cam**

### **C.Rec-mode, choose it to take recording**

## **TV OUT**

Connect AV cable to TV,the yellow cable connect Video and the red cable connect Audio.

## **Notes**

1. Please insert TF card and format TF card before recording.
2. The DVR will record in cycle. When the storage medium is full, it will record from the beginning and erase over the previously recorded materials automatically.(In order please choose 1/2/5 minutes as the storage time.) If choose off, when the storage medium is full, it shows CARD FULL and stop recording.
3. When the battery capacity is low, DVR screen shows "Low battery" and turn off automatically.
4. Please use the attached USB car charger to power the DVR. It contains the adaptor which can convert 12V/24V to DC 6V.If the voltage over 6V, it will burn the DVR.
5. When press Rec button (9) could not stop recording,please check whether set the Motion.  
Detection is ON.If yes,please choose OFF.
6. Down button switch display picture and only shows picture change, but the recording mode won't change.
- 7.**Connect separate camera with the main device before turn on the DVR in order to avoid the separate camera is broken caused by instant current!**

## **Technical Specifications**

- 1.Video Resolution: Built-in camera HD(1280\*720Pixels) /VGA(640\*480Pixels)  
Separate camera 720\*480Pixels
- 2.Image Resolution: 1M(1280X960) /2M (1600X1200) / 3M (2048X1536)
- 3.Uninterrupted Cycle recording, No leakage seconds appears
- 4.Video Format:H.264 (MOV) Image format: JPEG
- 5.Power Supply: Rechargeable li-ion battery and 12V/24V car charger
- 6.Support TF card: 2GB-32GB(At least use Class 6 or above)
- 7.Microphone: can record sound
- 8.Interface: AV-OUT & USB2.0
9. Display:3.5" LED Screen
10. Two camera can record at the same time and any 5 Meters apart farthest place inside the car
- 11.360 degree rotation mount
- 12.Ajust EV Value

**No further notice will be given for any modification of the technical specifications**