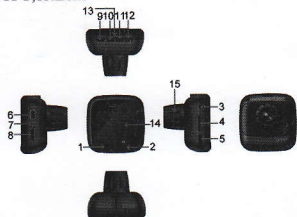# Automobile Data Recorder
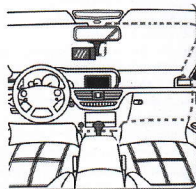
Car Black Box

## Product Structures

1. SOS emergency key，2. Camera/Video key, 3. Reset key, 4. TF card slot, 5. Power button，6. USB/Charger interface，7. Mic hole，8. HDMI/external GPS interface，9. Menu key，10. On key，11. Down key，12. Mode/OK key，13. LED indicator;14.TFT;15.Lens



## Preparation of initial use

### Equipment installation

1. Fix the vehicle power cable based on the specific environment inside the car, so as to avoid affecting the sightline. Install the recorder in the front of the rearview mirror as possible as you can, so as to obtain a more comprehensive perspective.
2. Do not install the equipment to somewhere distracting drivers' attention or blocking the line of sight.
3. For some cars still powered after flameout, the vehicle-mounted power supply must be off to avoid the issue of unforeseen circumstances after leaving the car.

### Memory card selection

1. Please use TF card of Class 6 or above,
Please use TF card with 8GB or bigger for keeping more complete records.
2. Please format this machine before the use of TF card.

### Software Setting

1. Language setting:  Press the Menu key to enter the main menu. Choose 🖼 for language selection. Press Ok to enter the language setting. Press the Up-Down key to select the desired language; and press Ok to confirm.
2. Time and time zone setup
When you first start using, please enter the "Clock Setup" from the system menu, set the current date and time.
Time zone setting: The machine has the GPS timing function. Once GPS is positioned successfully, the data and time will be automatically updated. In order to obtain the current timing, please choose the corresponding time zone under the system menu after

| Card Capacity | 1080P recording time |
|---|---|
| 32GB | 480 minutes |
| 16GB | 240 minutes |
| 8GB | 120 minutes |
| 4GB | 60 minutes |

understanding the time zone in your area.
3. Other personalized settings can be set in the system menu.

## Main function of the device and the basic operations

### Device on and off

Normal driving modes: after the vehicle-mounted power supply is connected and the car is started, the device is automatically on to record; the device is automatically off after the engine flamed out.

Manual Mode: You can manually press the power button to open or close the device.

### Recording Mode

When turned on, the recording automatically starts; press Ok key to stop and restart recording.
Loop record: when TF is full, the unprotected files will be automatically covered.



Emergency file protection: the device has a gravity sensor device. When the vehicle is in a certain degree of vibration, the device will protect the current recoding automatically, so as to avoid being covered. Meanwhile, the file for protection is named as SOS_XXXX. avi for distinction.
Manual protection  In addition to automatic protection mechanism, the device also provides a manual protection mechanism. In recording process, if the customer thinks the current recording needs protecting, please press SOS emergency key for manual protection. Press again，the current file protection will be canceled.
Automatic Screen off function: the device will automatically shut down the LCD backlight after working for 3 seconds, press any key and the backlight will be on again. The start of this function can be set in the system menu.
Note: Gravity sensor sensitivity can be set in the system menu.

### Photo mode:

In the recording mode, press the Mode key once into the camera mode; press camera/ video key to take a photo. Press Up and Down for digital zoom. Enter into the main menu, choose the image mode, and set multiple mode selections of image resolution, AWB, light sensitivity, special effect and so on.

### Playback mode

In the playback mode, press menu to perform the three following operations:  volume adjustment, file delete, file protection and un-protection.
Playback mode is divided into AVI playback and photo playback. In the record mode, press Mode key twice to AVI playback, press it again to photo playback.



### GPS function   through HDMI interface，GPS module selection
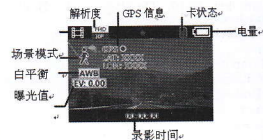
The device is equipped with GPS positioning module for synchronously recording the complete driving track information by the user.
When GPS is not successful, GRS information displayed on the screen is red and turned into green when it's successful. At the same time, the current latitude and longitude as well as the number of positioning satellites are displayed.
The player in the CD is used for playing video, as well as synchronically displaying the whole driving track and current position. The player can be used for Baidu / Google map switching.
It is suggested that the Baidu map is used in the mainland, others for Google map, so as to achieve better accuracy.
Note: The device does not support A-GPS function. The top of the device cannot be blocked by the buildings. In the underground car park and indoor environments, GPS positioning will not be available.