

# USER MANUAL



Thank you for choosing our automobile data recorder!

This is HD automobile data recorder of The Internet of Things, with the following features:

(1) Highly-integrated GSM, GSP, G-SENSOR, with more comprehensive functions, more control means, be able to achieve back-stage management;

(2) Mobile telephone communicating function, which is able to achieve vehicle real time monitoring –be able to monitor the current position of the car from Internet or mobile phone;

(3) G-sensor, Message (MMS) trigger, more comprehensive and more convenient control;

(4) 3.0" high-definition touch screen, with more convenient operation;

(5) Vibrating on video, suitable for emergency record after leaving the car: Auto on recording function: after parking, flameout and leaving the car, if your car are collided, the automobile data recorder will automatically start up and start recording to record what has happened for you.

(6) With GPS module, it is able to completely record wheelpath: with the specialized software of the attached CD, the driver can connect to Google map or Baidu map through Internet to present wheelpath on the map and to trace the driving route of the vehicle while watching videos on the computer.

(7) Real-time continuous recording, without leaking seconds, makes the evidence collection more reliable;

(8) Exclusive encryption protection to protect your individual privacy;

In order to better perform the maximum efficacy of the automobile data recorder, please read this manual carefully before use (If the design and specification of the native and the attachment are changed, no further notices are provided.)

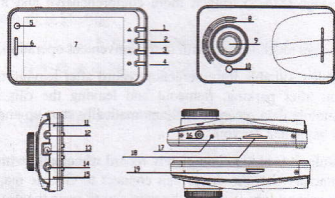
**FTP functions need customers have their own FTP server, this function set by text message.**

**Message content:3,301,FTP  
IP,FTP folder,FTP USER,FTP  
PASSWORD**

**Text query:3,300**

## ■ Product structure

1. Emergency key
- 2.OK/Recording key
- 3.Direct dialing key
- 4.Dialing key
- 5.Indicator light
- 6.Receiver
- 7.Display screen
- 8.Speaker hole
- 9.Camera lens
- 10.LED supplementary lighting
- 11.Microphone
- 12.AV connector
- 13.DC connector
- 14.GPS connector
- 15.Microphone
- 16.Power button
- 17.Reset key
- 18.SIM card slot
- 19.TF card slot



## ■ Begin to use automobile data recorder

### ■ Battery charging

Use the vehicle power supply attached to the machine to charge.

During the charging, the green indicator light for charging is on; after the charging is completed, the green light will be off automatically.

### ■ Memory card(TF Card) preparation

Requirements for TF card: the machine requires the capacity of the TF card to be above 4 GB, and the speed above CLASS4.

If the memory card is used on the machine for the first time, format is required. Format will delete all the data in the memory card forever, including the protected videos, and the data is irreparable. Therefore, please back up important data before formatting the memory card.

### ■ Phone card(SIM Card) preparation

If you need to use the function of communication and backstage network administration of the native machine, you need to insert SIM card.

Only 2G network can be used on the native machine. Please make sure that the network service provider of the SIM card supports GPRS.

The native machine does not support hot plug SIM card. In order to avoid damaging the SIM card, please plug SIM card when the native machine is power off.

### ■ GPS antenna and notes for installation

When you need to accomplish GPS position and backstage management, please connect the GPS antenna to the GPS connector of the machine. The GPS antenna is

inspired with strong magnet which can be attached to metal like iron. The antenna is required to face up, otherwise, the positioning effect of the satellite will be seriously influenced.

### ■ Set up the angle of the machine

Please set up the angle of the machine so as to obtain the pictures and effects that you need.

### ■ Car charger:

*The output voltage of the car charger adapt to the native machine is DC\_9V 2A, which is different from that of ordinary car charger. Applying the equipment to other mobile unit is strictly prohibited so as to avoid damaging your equipment because of the overtop voltage.*

### ■ Reset of the native machine

When the native machine is under abnormal condition because of misoperation, press reset button and then start up, and the native machine can recover to normal.

## Basic operation of the automobile data recorder

### I. Startup and shutdown mode:

1. Start up and shut down manually. Press power supply key for a short time, and the machine will start up. The machine records automatically after startup. Press the 3S button for a long time, the machine shuts down.
2. If it is connected to the car charger, it will start up and shut down automatically along with the turning on and turning off of the car. It will record automatically after startup.
3. Vibrating startup: After the unlocking of this function, it will start up and record automatically if there is vibration under power-off condition. If it is not connected to the car charger, in order to catch more events, it will stop and power off automatically after recording a section so as to save electricity and TF card capacity.

### I. Operating mode and switchover

Insert SIM card and TF card. The machine will turn to camera shooting condition automatically and begin to record after startup. At this time, the screen will display the symbol and signal strength of SIM card on the above part.

1. After the startup of GSM, you can enter into the dialing menu by pressing the dialing key. Under such mode, you can achieve phone dialing communication. By pressing direct dialing key, you can directly dial out the presupposed number.
2. Under the mode of PREVIEW, press the power up key for a short time, you can switch between the four modes: recording mode, photographing mode, AVI playback and photo playback.
3. System setup: under AVI mode, you can enter into system menu and conduct all kinds of setup by touching.

## II. System setting

Main menu	Submenu	Description
Resolution	640 x 360/1280 x 720	Set up the size of the recorded video

Time_Setup	YYYY/MM/DD HH:MM:SS	Set up the date and hour
Format	Y/N	Execute the format of the memory card
Standard-definition television	NTSC/PAL	Set up the TV-output format
Warning tone	ON/OFF	Set up the buzzer button
Record	ON/OFF	Set up recording or not
Language	English/Simplified Chinese/Traditional Chinese/Russian	Set up the language used
LCD Default	Normally on/30S/60S	Auto screen off setting
Automatic video protection sensitivity	Low/General/High/Off	High and low setting for Video protection sensitivity
Frequency	50HZ/60HZ	Optical Frequency setting
LED	Auto/On/Off	LED setting
GPS_Time_Zone	+12~-12	Correct time service with correct time zone setting
GPRS_Mode_Setting	1.G-sensor + FTP+ SMS 2.G-sensor+MMS 3.FTP Mode	GPRS transmission mode setting
Dialing Setting	Number setting	Onekey dialing or MMS sending presupposed number
Auto on settings	Low/General/High/Off	Vibrating on sensitivity setting
Default setting	Y/N	Recover to the default setting

#### IV. Recording and file protection mechanism

After startup, the machine will automatically start up recording. Meanwhile, you can press OK key to stop or start recording.

File protection mechanism:

1.G-SENSOR auto-induction protection. The sensor will take the sensitivity set by the user as the criteria. When the car vibrates to a certain degree, it will lock and protect the files automatically.

2. Manual mode: you can press emergency key to lock and protect the current document during the recording. When not recording, under other modes, by pressing emergency key, you will start up the recording and lock and protect the recording.

#### V. Photographing and playback mode

Under recording mode, shortly press the power key, the machine enters into photographing mode. You can take photos by pressing the OK key.

Under recording mode, press power key twice, it enters into AVI playback, which is able to play the videos of the machine.

Under the recording mode, press the power key for three times, it enters into photograph playback, which is able to check the pictures in the machine.

#### VI. Phone function

After the startup of GSM, you can dial any phone numbers under dialing mode, or dial the presupposed numbers by direct dialing key.

#### VII. Vehicle backstage management and monitoring mode

Through the highly-integrated GSM, GPS and G-SENSOR, the machine can carry out real-time monitoring of the car by various means and see the driving state and driving route of the car. The GPS coordinates are sent to the designated website every 2 minutes to achieve real-time car position tracing. The mode is a natural mode, which will proceed with only SIM card and GPS positioning.

Some of the following modes requires the GPS setting or MMS control.

1. FTP MODE send the current picture of the car back to the designated server every 10 minutes.

3.G-sensor + FTP+ SMS:

When there is collision or vibration, whose range reaches the set trigger of G-SENSOR, it will send the current picture of the car to designated server. After the pictures are transmitted successfully, the machine will send messages to the designated phone number.

4. G-sensor + MMS

When the G-SENSOR is triggered, it will send the current picture of the car to a designated phone by means of multimedia message. Meanwhile, it will send the current coordinate information to the phone by means of messages.

5.Text message +FTP+SMS:

The user can send the number 1 to the SIM card in the machine. After the machine receives the message number, it will send the current number of the car to the designated server. After it is successfully transmitted, the machine will send a message to the designated phone number.

6. Text message +MMS

The user can send the number 2 to the SIM card in the machine. After the machine receives the message number, it will send the current picture of the car to a designated phone by means of multimedia message. Meanwhile, the machine will send messages to the designated phone number.

7. Text message +GPS coordinate

The user can send the number 0 to the SIM card in the machine. After the machine receives the message number, it will send the current coordinate of the car to a designated website so that the owner can check the position of the car in time.

#### VIII. Message setting and query

Due to the different telecom service providers in different regions and different servers used by different users, you should get information about GPRS and FTP server of the telecom service provider before usage so that the setting will be convenient. Only after the successful setting can the uploading function of MMS and

FTP be realized.

#### MMS setting:

3,200 Inquire the MMS setting information, the semicolon should be semicolon in English.

3,220,APN,MMSAPN,CURL,PROTO,PORT set up MMS configuration

3,221,APN set up APN

3,222,MMSAPN set up MMSAPN

3,223,CURL set up CURL

3,224PROTO set up PROTO

3,225,PORT set up PORT

#### FTP set up:

3,300 Inquire FTP configuration information

3,301,FTP Address, FTP Folder, FTP Account, FTP Password

Set up FTP configuration information FTP address IP,FTP route and folder, FTP log-in user name. FTPLog-in password.

After the setups are completed, and the format meets the requirements, messages will be sent to inform the successful setup. But the message is only concerned with the setup format. Whether the setup content is correct needs the user's confirmation.


#### IX. Inquiry of cluster management IMEI code

On the uniform network management platform, multi-machine management can be achieved. Every machine has a unique identified IMEI code. The user can obtain the IMEI code returned by the machine by sending the number 4 to the machine. The data sent by different machine can be distinguished by the IMEI code.

#### X. Illustration for file read and user software

In order to use TF card efficiently and achieve the encryption reading function of TF card, this machine has made special treatment to the file system of the TF card, which can only be read out by means of attached software. The software also has functions such as G-sensor, reproduction of the GPS trace.

#### Read and play the recording files

Click , and file appears, open the selection menu.


Disk: Read out all the content in the designated TF card.

File: Import and play the designated files that have been saved in the PC.


Route: Import AP to all the recording documents of the designated PC files.

Password: When inserting TF card, if the card is under encryption, then it cannot be read out unless you enter password here.

After the selection of the above routes, click "apply", you can go back to AP and play the video.



Click  control the playing status:

slow-acting/stop/play(suspend)/fast-acting can be achieved respectively from left to right.


Click  control can select the twin lens channel of the video: twin lens/front lens/back lens. (Limited to the documents recorded with twin lens)

When playing the video, by clicking , you can save the current frames as pictures.

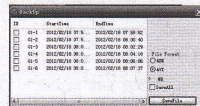
#### Keep recording documents on file

Tick  the frame before the needed video, then click , and the video is saved to the designated place.



Two types of files: to save the whole video document and to save an episode of the video.

If you want to save the whole video, choose  to save the document.



If you want to save the designated part of the video, choose the corresponding video before the group number.



#### File deletion:

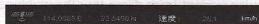
Select the needless recording , click , and choose "Yes" to delete the deleted recording when the "Yes/No" option appears.


#### File repair:


During the recording, the problems with the card or the sudden power lost will lead to the damages  of the current recording files. At this time, you can use  to repair the file.

#### GPS position and application


The application is required to satisfy the following two conditions: successful GPS position when recording and the connection to network. When GPS position succeeds, the above part of AP will display the indicator of longitude and latitude, as well as the moving speed.



At this time, click  to start up or shut down the map.

In this mode, you can switch between map and 3D map by means of choosing the options at the upright corner. And by means of dragging  to the map, you can photograph the actual streetscape (the function needs the support from GOOGLE. To obtain the details in specific regions and countries, please contact GOOGLE.)

GOOGLE global KML application:

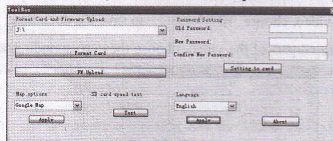
By clicking  , you can download the GPS positioning data, and save it as \*.KML document. And by means of Google Earth

(<http://www.google.com/earth/index.html>),

the whole driving route can be reproduced.

#### The use of toolkit

By clicking  , you can enter into toolkit and achieve such practical functions as SD card format/software uploading to SD card/speed test of SD card/map selection/AP language selection and user password setup.



Password setting: To meet the requirements for privacy, users can encrypt the TF card. After the encryption of the TF card, the recorded video can only be opened with password.

#### ■ Product features

- Highly-integrated GSM, GPS, G-SENSOR with more comprehensive functions: it can not only tell you where you are but also tell others where you are. It is a new generation of The Internet of Things communication vehicle data recorder which is smarter and more manageable.
- Built-in GSM mode makes mobile phone communication possible.
- Vibrating startup recording is suitable for emergency recording after the car leaves.
- 3.0"high-definition touch screen makes operation more convenient.
- Built-in microphone/speaker
- When the car starts up, the machine start the recording function automatically.
- The delay start function can prevent the pulse current from damaging the machine at the moment of starting up the car.
- GPS scanning positioning can reproduce the vehicle trace and makes everything grasped.
- Gravity SENSOR
- The encryption of the video protects the user's privacy by setting passwords.

#### ■ Technical specifications

LCD screen size	3.0" high-definition touch screen
Camera lens	A front 110 degree high-definition wide-angle lens + waterproof rearview lens
Optional language	English/Simplified Chinese/Traditional Chinese/Russian
Video format	AVI
TF memory card slot	TF
Microphone/speaker	Built-in
Vehicle power supply DC input	9V 2A
Battery	Built-in polymer lithium battery
System requirements	Windows 2000/XP/Vista/Windows 7

**Note:** The modification rights of design and specification of the product are reserved. No further notice will be conducted.

#### Accessory list

1.car charger;2.vehicle mount ;3. back splint;4.instruction book 5. GPS antenna.

**Note:** The accessory list should take the actually- packed accessories as criteria.