THIRD EYE--Vehicle Recorder

User Manual

Thank you for choosing our product。This manual should be read before the product is activated. For safety purposes, users are advised to correctly operate the product according to this manual.

Product overview

Thank you for choosing our vehicle recorder.

Our vehicle recorder also be called the third eye, it is a video that used to record your driving process, including images, voices, balance of the vehicle, speed, location and the status after or before accidents. It will help to investigate the reasons behind collisions, impact, and sudden acceleration accidents through the records. Users can play the recorded scenes on a PC, with the provided player software.

■ Functions

◆ 2ch.Camera

With internal cameral(1.3M, CMOS，horizontal viewing angle 110 degree, WDR) and external camera, these two cameras can record at the same time.

（WDR：Wide dynamic display technology, redusing dazzle caused by light at night）

◆ Voice prompt funtion

Machine strats，SD card detection

◆ Built in GPS

Time, Date, Vehicle Speed, Direction, and GPS Coordinates (Latitude/Longitude) are overlaid onto the video image. Excellent software for post-event analysis with integrated Google Maps for route tracking, and option to export directly to Google Earth!

◆ Built in G-sensor

Reflects 3D balance of the vehicle.

◆ H.264 compression,　MPEG4 file format

H.264 professional monitor compression, won't lose any data. MPEG4 file format, can be played in the standard software. Video, audio, vibration, speed, location can be covered in the software at the sametime.

◆ Audio recorder

Built-in Mic., to record voice.

◆ TV out

Display devices like car DVD，LCD etc. can be connected.

◆ Successive files

The files stored continuously, it will not miss recording every second.

◆ Save on SD Memory Card (up to 16GB)

When the storage of the SD card is full, it would over write the oldest saved file to save and store the new file.

◆ **Outage save**

When the car collision cause death, or car stalled normal fire, the equipment will continue to record after 30 seconds, then shutdown after saving the video files.

◆ **Emergency event recording**

When the car happened to crush or suddenly brake, the equipment will save the data in the events folder as an emergency event. Event without physical impact to the vehicle from an accident the device able to record and saved event by pressing emergency button. (manual event is saved as emergency event and length are same as 'shock ' event.

Contents

 Security

1. Notice for safety

1) Do not use water or volatile chemicals when cleaning the inside of the car or the product.This may increases the risk of product damage, file, and electric shock.

2）Avoid causing the product severe impact and immersing it in a foreign substance.

3) If the user is in a tunnel or is driving at night, video recording cannot work properly. Intense backligths also affect the image quality of the video.

4) Do not relocate the product arbitrarily. This may cause GPS communication error.

5) Refer all servicing to qualified service personnel. We take no responsibility for any damage or problems caused by arbitrarily repairing or modifying the product.

6) Window tinting can also affect video quality. Users should check the recorded imagery before operating the product, if their cars have tinted windows.

7) Do not cover the product when using other electronic devices. This may cause GPS communication failure.

8) Do not approach magnets. This may cause machine fault.

9) Before taking out the SD card，insure the recorder is lay off. This may cause stoppage and data loosing.

10）Do not insert foreign body into the SD card slot.

11）Use recommended SD card，we take no responsibility for quality of SD card. And SD card belongs to consumable items, it may lose efficacy for a long use.

12）Power socket should be pulled up if the car not be used over 3 days.

13）Facility must be closed during installing (Insert the power plug when the installation is over).

14）Do not manipulate or stare at the product while driving. This may increase the risk of automobile accidents.

15）The product should be fixed on the windshield tightly, make sure driving safety.

16）Temperature, humidity, dust, severe shock may cause machine fall.

17）Built-in battery, belongs to consumable items, it may lose efficacy for a long use.

18）Make sure to use the proper voltage .（12V-36V）

19）Make sure installation of the product will not influence driving safety.

20) Do not install the product or change function while driving in order to prevent traffic accidents from occuring.

21) Do not use this product in dangerous conditions where smoke or a burning smell is detected. In such cases, deactivate the product and contact an agency. Remove dust in the cigar lighter socket periodically, for it may result in a fire hazard.Check frequently whether the product is installed firmly. If the product falls from its place, it may injure passengers or cause damage to the product.

22) Only use the cable and automobile electric power provided, as instructed. If not, this may cause product damage, fire, and electric shock.

23) Electric quantity may reduce due to without using for a long time, to make the recorder work properly, it would be a long time when the battery is filled.

24) Do not use the SD card supplied with the product for any other purpose. If the SD card is used for another purpose or other files are stored in it, fatal errors may be caused. SD cards compatible with the product can be allowed, but using different SD cards may result in product malfunction. In such cases, the user is responsible for the problems.

Note： We do not take resposibility for any damage caused by an accident or carelessness.

2. Package contents

Check the objects in the packing box before using the product, if there is missing, please contact the dealer.

Purchase on selection:
1* External camera
1* SD card
1* SD card reader

3. Name and function of each part

The back
1 In 2 Out 3 Reset 4 Power 5 LED 6 Mic 7 Up 8 Enter 9 Down
(1)video input   connect external camera
(2)video output   connct external monitor
(3)reset   applicable when the recorder has system fault
(4)power connector port   power supply of the recorder, please use the standard power source
(5)power/recording LED   status indication
(6)Micphone   record voice
(7)button   switch the video input (press once，built-in camera record；press again，external camera record；press once more，two camera record at the same time.)

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(8)button　swith the video output (press once，switch to the picture of the other camera.)

(9)button　enmergency record　（press one second）, enter into main menu(press three seconds)

(10)SD Card slot　Before use,please insert SD CARD

Disconnect the power cable or turn off the engine before Inserting or removing the SD card. The user should format the SD card before when using a SD card not supplied by the manufacturer.

(11)Cradle socket

(12)Front Camera

Periodically clean the lens for clear video image，to avoid lens damage ，clean with a soft cloth.

(13)Speaker

（14）GPS antenna port

Connect with GPS antennas，to receive signal normally ,make sure the screw is tightened up before installation.

4. Menu setup

Press (9) button for 3 seconds, enter into main menu as the picture below（When enter into the interface, you can hear deng's sound three times, after entering into main menu interface, (7) button　upward, （8）button　confirm/exit　(9) button downward ）
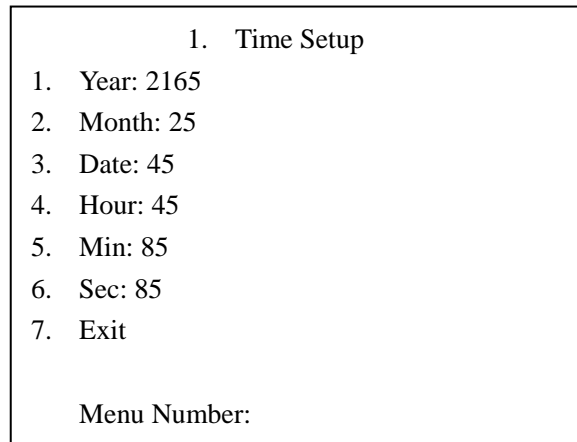
```
Main Menu
1.  Time Setup
2.  Record Setup
3.  Camera Setup
4.  SD card Info
5.  ETC Setup
6.  Exit

Menu Number:
```

1, Time Setup   2, Record Setup   3, Camera Setup   4, SD card Info   5, ETC Setup   6, Exit

➢ Time Setup
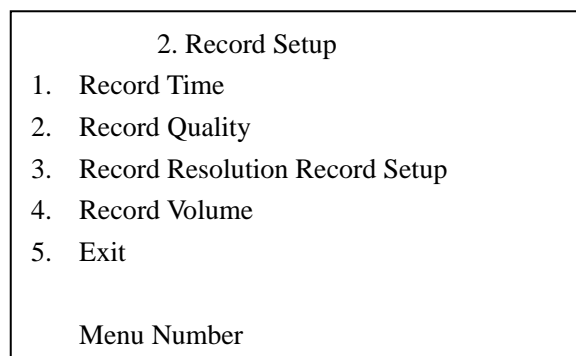✧ Press comfirm/exit botton，enter into time setup interface. (you can hear deng's sound two times)

```
                1.   Time Setup
1.   Year: 2165
2.   Month: 25
3.   Date: 45
4.   Hour: 45
5.   Min: 85
6.   Sec: 85
7.   Exit


     Menu Number:
```

✧ Press comfirm/exit botton，enter into year setup interface，set the year by pressing the up and down button, press comfirm/exit botton to exit.

```
   1.1      Change Year


Current Year: 2165
```
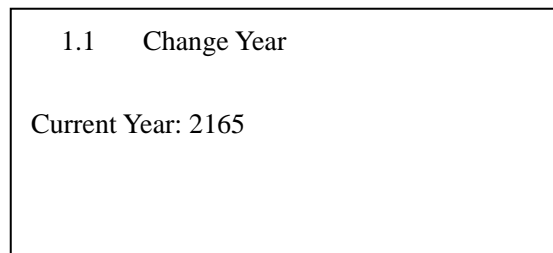
✧ Other setments has the same theory

➢ Record Setup
✧ Select the Record Setup at the main menu interface，enter into record setup interface

```
               2. Record Setup
1.   Record Time
2.   Record Quality
3.   Record Resolution Record Setup
4.   Record Volume
5.   Exit


     Menu Number
```

✧ Record hold time setup: 1 min，5 min，10 min；

```
   2.1 Set Record Time
1.  1 Minute
2.  5 Minute
3.  10 Minute


   Menu Number:
```

✧ Record Quality setup

```
   2.2 Set Record Quality
1.  Low
2.  Normal
3.  High
4.  Exit


   Menu Number:
```

✧

✧ Record Resolution Record Setup

```
   2.3   Set Record Resolution
1.  VGA
2.  QVGA
3.  Exit


   Menu Number:
```

✧ Record Volume Setup

```
   2.4   Set Record Volume
1.  Volume Up Level 2
2.  Volume Up Level 1
3.  Normal
4.  Volume Down Level 1
5.  Volume Down Level 2
6.  Exit


   Menu Number:
```

➢ Camera Setup

✧ Select the Record Setup at the main menu interface，enter into camera setup interface

```
              3. Camera Setup
1.   Brightness
2.   Flip
3.   Mirror
4.   Frame Rate
5.   Power Frequency
6.   Exit


     Menu Number:
```

✧ Brightness setup

```
              3.1    Set Brightness
1.   Dark Level 2
2.   Dark Level 1
3.   Nomal
4.   Bright Level 1
5.   Bright Level 2
6.   Exit


     Menu Number:
```

✧ Flip setup
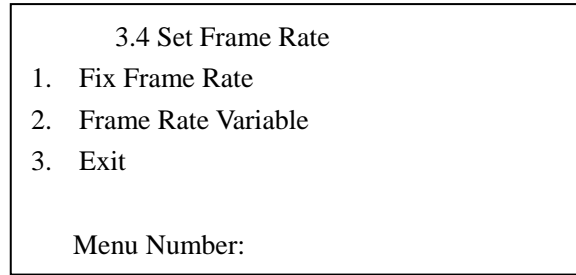
```
              32.   Set   Flip
1.   Flip off
2.   Flip On
3.   Exit


     Menu Number:
```
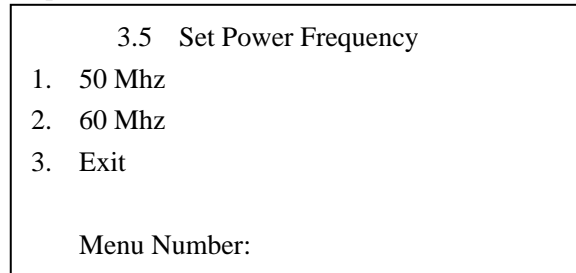
✧ Camera Mirror Setup

```
              3.3 Set Mirror
1.   Mirror Off
2.   Mirror On
3.   Exit


     Menu Number
```

✧ Camera Frame Rate Setup（1，fixed frame rate；2，variable frame rate）

```
          3.4 Set Frame Rate
1.   Fix Frame Rate
2.   Frame Rate Variable
3.   Exit


    Menu Number:
```

✧ Power frequency setup

```
          3.5   Set Power Frequency
1.   50 Mhz
2.   60 Mhz
3.   Exit


    Menu Number:
```

➢ SD card information
✧ Select the SD Card Info at the main menu interface，enter into SD card information interface

```
          4. SD Card Information
1.   Total Size
2.   Free Size
3.   Format
4.   Exit


    Manu Number:
```
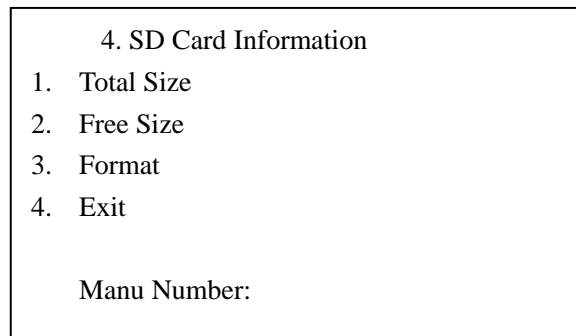
✧ Check total size of SD card

```
    4.1   Total Size

SD Card Total Size is 1883 MB

Press any key to return
```
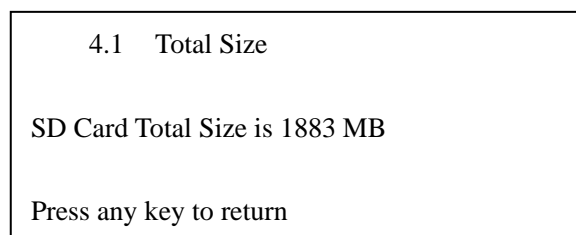
✧ Check free size of SD card

```
    4.2   Free Size

SD Card Free Size is 329 MB

Press any key to return
```

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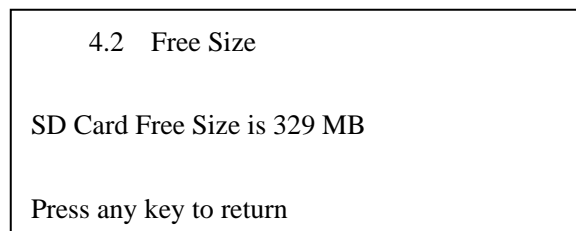
◇ SD card faomat

```
        4.3   SD card Format

    Do you want to format?
1.  No
2.  Yes
3.  Exit


    Select number:
```

➢ Etc setup
◇ Select the Etc setup at the main menu interface，enter into setuo interface

```
     5.   Etc Setup
1.  Set Acceler Trigger Level
2.  Set UTC Time
3.  Get Firmware Version
4.  Update Firmware
5.  Exit

    Menu Number:
```

◇ Sensitive of accel trigger setup

```
      5.1   Trigger Level
1.  Trigger Level low
2.  Trigger Level Middle
3.  Trigger Level High
4.  Exit

    Menu Number
```

◇ Set UTC Time

```
     5.2   Change UTC Time

  Current UTC Time: 8
```

Users must set the UTC time according to the Timezone, or the time would be inaccuracy.

◇ Get firmware version

```
     5.3   Get Firmware Version

  Current Firmware Version

  Lib 1.01. BL_20100812.Third Eye
```

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> Update Firmware

Can used to upgrade functions of the product (need manufacturer provide upgrade file, for free)

Update Instructions

Copy the update program to the SD card, then insert the card into the product. Enter into the main menu, select 5.ETC Setup, and then select 4.Update Firmware, product can automatic updates.

Note:

Do not remove the power cable and do not turn off the engine，power off during the update process may cause fatal error.

reset: After finishing all the previous operations and power on, but this vehicle recorder still do not record, please use a little pin press button (3), it will work normally when the machine restart. If it stil do not work, please contact the local dealer.

5. Installing instructions

Turn off the engine before installating, and make sure that the windshied is clean.

> Recommended installation position：

It would be best to fix the product at the back of rearview mirror of the frond glass, to avoid affecting your sight. If could not, fix it on the left or ringht side of the rearview mirror.

> Designsketch for integral installation

The illustration above should be ajusted according to different cars.

> Detailed description for installation

✧ fix the mount with the body，as the image mounted on holder like a drawing to the body.（tear off the clear film at the bottom before using, or it can not attracted to the glasses）

✧ Remove all foreign materials on the window where the product will be attached to.

✧ Securely attach the product to the window.

✧ Connect cables of each part.

Note: To avoide influencing beauty and clean of the car, do not let the cable show up.

GPS antanna must be installed vertically and upward.

6. Operation instruction

➢ Before operation

Before operating, please follow the sketch to let each part come together and mount this vehicle recorder to the most suitable place.

Insert SD Card, and this product will start working simultaneously when the cigarette lighter connected and the car started.

Be sure the power light is ON, when starting up the engine.If the power light does not light up, check the connection between parts. Remove dust or foreign substances near the cigarette lighter

socket.

Note: please make sure this vehicle recorder be settled stably.

➢ Operation Functions

	LED	Mark
Power on	Ren lighting	Car DVR is starting
Recording	Blue flash lighting	
Press button 7	Green flash lighting	
Press button 8		
Press button 9 one time	Green flash lighting	
Press button 9 2 sec.	Green lighting	
SD card missing	Green flash lighting	Please insert SD card

7. Internal and external cameras setting

Internal and External Camera Mode: default

Internal Camera Mode: press the Up button once

External Camera Mode: press the Up button once

Internal and External Camera Setting for the External Monitor (Only 2CH working is effective):

Press the botton (8) once, the external body camera mode is enabled.

8. Specification

Item	Specification	
Double camera	WDR CMOS Sensor(Angle:140)	
Video	640*480 @ 30fps(1Ch.)/15fps(2Ch.)	
	320*240 @ 30fps(1Ch.)/15fps(2Ch.)	
Audio	Inernal Mic.	
GPS	Inernal GPS Module	
Event	G-sensor(3-Axis).EMR Button	
Memory	SD Card Memory (1/2/4/8/16GB)	
Compressed Format	H.264	
Interfaces	Power (DC 12-36V)/SD Card slot/TV-in/TV-out	
Power	Power DC12V-DC36V	
	Backup Li-Polymer battery	
Operating temperature	-10℃~70℃	
Storage temperature	-20℃~75℃	
Dimensions	90*50*25mm	
Weight	98G	
Saving Time		
SD card Capacity	Front or External camera	Front + External camera
1GB	75 min.	37min.
2GB	150 min.	75min.
4GB	300 min.	150min.
8GB	600 min.	300min.
16GB	1200 min.	600min.

Note: according to the differences between holders, brands of memory cards, and other settings, the measurements of files and the image amount can be took will be different.

9. Rules for maintenance, repair and use

-The device should be mounted inside the windshield of your car. Thus events can be recorded while driving

-Avoid electric shocks and do not damage the camera's circuit

- Do not attempt to loosen the screws..

-Lens protection: clean with a soft damp cloth, do not use solvents.

-Do not store the camera in extreme cold or hot place.

-During transporting, keep away from excessive shocks and fallen.

-When camera work in higher voltage and temperature, do not run, otherwise the system could be permanently damaged.

-In case of any failure, do not continue to operate the camera.