

## **USER MANUAL**

### **CAR BLACK BOX**

Instructions before use

This user manual will describe the usage of this product in details and at the same time provide comprehensive information including usage, operation, installation instructions and specification, etc. Please read the manual carefully and keep it properly.

We hope our product will satisfy your need and provide you with long-term services.

Product Guarantee

This product is approved by ISO9001:2000 International Quality Standard and certified with FCC, CE and SGS.

Our customers can use this product free of apprehension.

Copyright infringement Warning

Please note this product is for personal use only. The forms of usage should not offend or infringe international or domestic

Copyright laws and regulations. All recorded videos should be for personal use only. Please note that using this product for

Recording of occasions like shows, exhibitions or commercial activities will infringe others' copyrights or legislation rights.

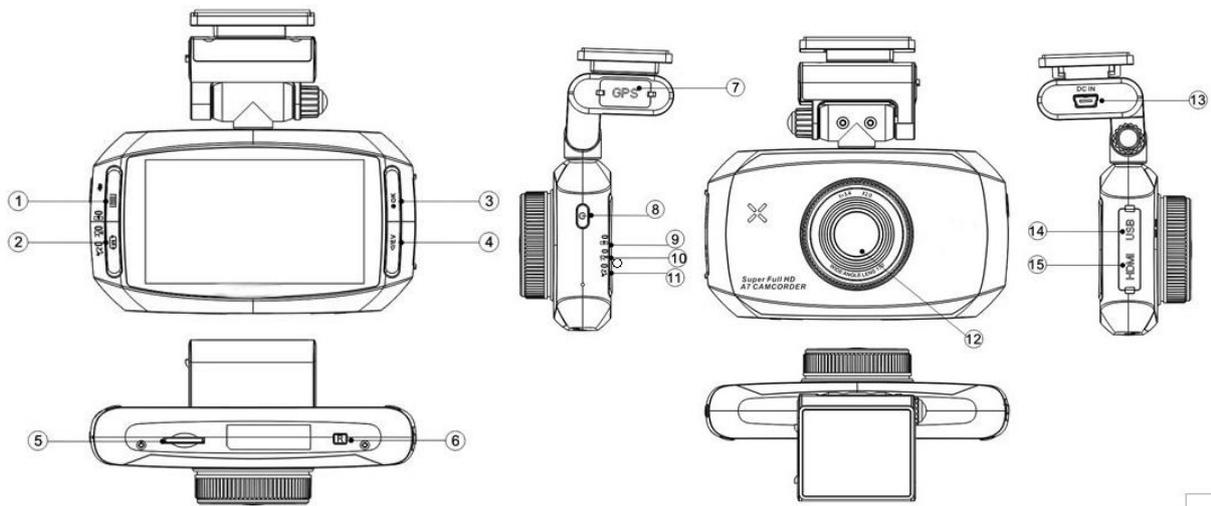
Check Product Accessories

Please check whether the following accessories are present before use,

1. Vehicle Power Cable (4M) x1
3. USB Cable x1
4. User Manual x1
5. Holder Cover x2

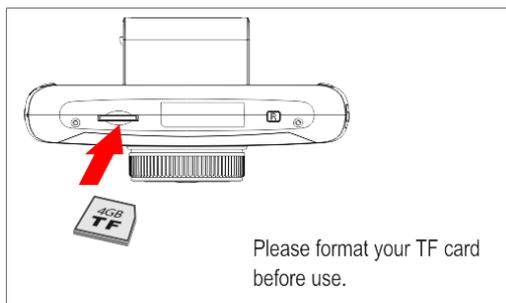
Product Structure

1. Menu /Mute
2. Mode
3. OK/Record/Shutter
4. Down/EV
5. TF Card Slot
6. Car DV Reset
7. GPS Port
8. Power ON/OFF
9. Red Light Indicator (Charging)
10. Blue Light Indicator(Recording)
11. Green Light Indicator (GPS)Optional
12. .Lens
- 13 . DC In Port
14. USB Port
15. HDMI Output



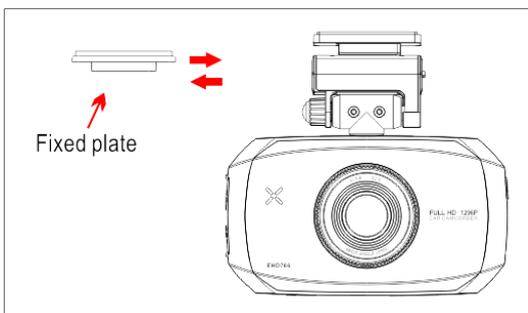
### Installation

Warning: Must use C6 or higher specification TF card (micro SD card).



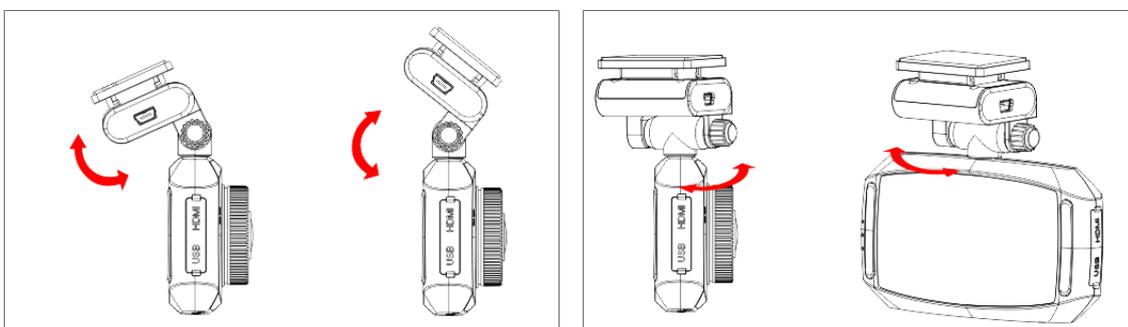
Removing the Stand - hand pinch bracket exit slot can be directly (without moving any snaps).

### The fixed plate and the machine installation



### Bracket rotation angle adjustment

If the recording position is not appropriate, it can be adjusted up and down or left and right.



Up and down rotation: first , loosen the nut, adjust up and down to the appropriate angle(the maximum is 180 ), and then tighten the nut

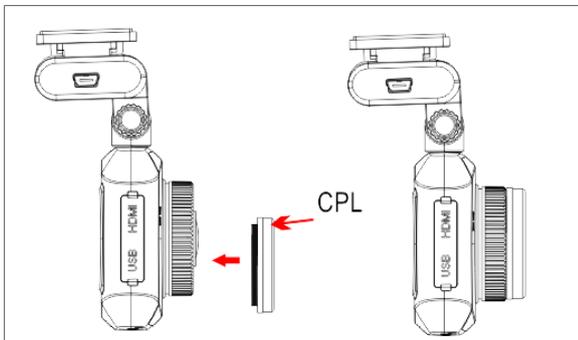
Left and right rotation: when adjust left and right angle, you can rotate the angle of the device directly(the maximum angle is 200)

Optional accessories mounting and removing

CPL installation and removing

Put the CPL to the Lens and move clockwise to install

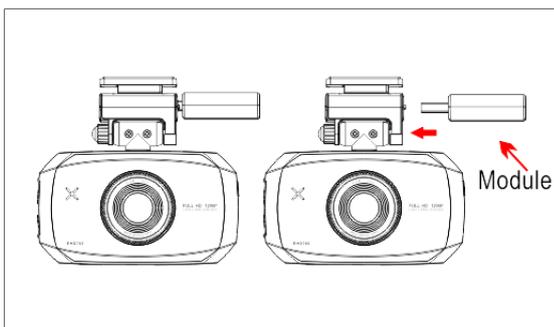
Turn CPL anti clockwise to remove



GPS module installation and removing

Insert the GPS module to the port

Pull the GPS module from the port



Transmit the video to LCD TV

You can also transmit the video from the drive recorder to your LCDTV at home to playback the data or adjust the setting.

The steps areas follows:

1. Your video equipment should have AV IN or HDMI ports.
2. Connect AV cable or HDMI cable (optional purchase) to the video equipment and the drive recorder.
3. Connect the home use transformer (optional purchase) to the drive recorder and the house power socket.
4. Adjust the channel of the video equipment to AV or HDMI.
5. Installation completed.

### **Photo size**

Photos resolution can be configured during capture. Higher value means higher resolution and better picture quality.

MENU Button Menu **【Photo size】【2.8M (2304X1296)】**

### **Menu Operation**

Press "Menu" Button active the Menu selection, "OK " button Enter sub-menu and confirm the selection left and right or up and down button to select the item.

### **Video Clip Mode:**

#### **Resolution**

Video resolution can be configured during recording. Higher value means higher resolution and better picture quality, and the storage capacity consumption will be relatively higher.FPS is Frame Per Second during recording. Higher FPS means smoother video.

MENU Button **【Video resolution】【2304x1296 30P】【1920x1080 30P】 【1280x720 30P】**

#### **WDR**

**Wide Dynamic Range (WDR) optimize the video quality under backlighting**

MENU Button **【WDR】【On】 / 【Off】**

### **Date Stamp**

Through this function, you can select whether to show time and License plate number and GPS rate information during recording..

MENU Button **【Stamp】【On】 / 【Off】**

### **Record Time**

Setting Recycle record can, under limited memory card, repeatedly use the new data to overwrite the old data, in order to achieve non-interrupted recording result.

MENU Button **【Record Time】【2 minute】 / 【5 minutes】 / 【10 minutes】 / 【Off】**

\*Setting Value. It means saving data every 5 minutes, relatively each cycle will overwrite 5 minutes of old data.

### **Motion detect**

In the view range , if there is any object move, it is detected and trig the car dv begin to record automatically.

MENU Button **【Motion detect】【Off】【5s】【10s】【30s】【60s】**

### **G-Sensor**

When there is a collision, with the help of the changes in XYZ curves, G Sensor or Gravity Sensor can determine the direction of the collision

and simultaneously set the recorded data to protection mode, and the data will not be overwritten by circulated recording. Adjust the

Sensitivity parameter of XYZ axles. so the drive recorder will not automatically set the data to protection mode.

MENU Button **【G-Sensor】【High】【Normal】【Low】【Off】**

### **Contrast**

Use to record and take photo, the measurement of different brightness level between the brightness light and the darkness dark in area of

light & Dark The more the scope, the more the contrast, and vise versa

MENU Button **【Contrast】【Normal】 / 【Hard】 / 【Soft】**

### **Sharpness**

Use to adjust the image sharpness. when not enough, it can be adjusted more clearer

MENU Button **【Sharpness】【Standard】 / 【Hard】 / 【Soft】**

### **WB**

Used to set different white balance when record and take photo, the object color change due to the light color, there is the different color

Temperature of photos taken under the different light situation

MENU Button **【WB】【Auto】 / 【Incandescent】 / 【D4000】 / 【D5000】 / 【Sunny】 / 【Cloudy】**

### **Light Freq**

Select 50Hz if the power voltage of the country is 220V. Select 60Hz if the power voltage is 110V.

MENU Button Menu **【Light Freq】【50Hz】 / 【60Hz】**

### **TV Out**

This setting can be adjusted when you use AV cable or HDMI cable to transmit the video to the monitor. Select local video specifications

NTSC or PAL to solve the problem of flicking pictures owing to inappropriate video format.

MENU Button Menu **【TV out】【NTSC】 / 【PAL】**

### **Date & Time**

Adjust the current date and time. (Drive recorder with GPS feature will automatically sync the standard date and time after positioning, no setting is required).

MENU Button Menu **【Date& Time】** Press "OK" key to enter setting Press, select Year, Month, Day, Time, Minute.

### **GPS**

Setting GPS can choose to activate or disable GPS function.

MENU Button **【System Setup】** Menu **【GPS】【ON】 / 【OFF】**

At video clip mode , you can enable /disable GPS functional , press "right/GPS" button will enable or disable GPS function .

If the GPS switch is on, the GPS icon and LED will flash when GPS searching the GPS information , after fixed the

GPS information, the GPS icon and LED will fix ON

### **TimeZone**

Set the time zone to the local code can be automatically synchronized to GPS time

MENU **【TimeZone】【-12】 / 【-11】 / 【-10】 / 【-9】 / 【-8】 / 【-7】 / 【-6】 / 【-5】【-4】 / 【-3】 / 【-2】 / 【-1】**

**【0】 / 【+1】 / 【+2】 / 【+3】 / 【+4】 / 【+5】 / 【+6】 / 【+7】 / 【+8】 / 【+9】 / 【+10】 / 【+11】 / 【+12】**

### **Beep**

Used to voice output of on/off on the button

MENU Button **【Beep】【On】 / 【Off】**

### **LED**

Select On or Off, you can control button LED display.

MENU Button **【LED】【On】 / 【Off】**

### **Screen Save**

The DVR time no operating, the screen automatically turns off, press any key to open

MENU **【Screen Saver】** Off/3 Min /5 Min

### **License plate**

After you set up your own license plate number, this number can be attached to the recorded video.

### **Language**

Use this setting to adjust the menu to your preferred language.

MENU Button **【Language】 【English】【简体中文】 / 【繁體中文】 / 【Русский】 / 【Korean】 / 【日本語】**

Press OK Button to process

### **Auto Power Off**

DVR is powered on but there is no record of the case, will shut down automatically after some time

MENU 【auto power off】 Off/3 Min /5 Min/10 min

### **Format**

This function will delete all data in the memory card including protected data. When the memory card is used for a long time, too

much data will reduce the access efficiency. This function will optimize the access speed of the memory card.

MENU Button 【Format】 【No】 【Yes】 Press OK Button to process

### **Default Setting**

This function will reset all settings on the drive recorder to default factory settings.

MENU Button 【Default Setting】 【No】 【Yes】

### **Version**

View the firmware version of the drive recorder.

MENU Button 【Version】

The version number during factory shipment will be considered as the original version.

### **Photo MODE**

Press MODE Button switch to photo capture mode , press Shutter button to capture a photo.

EV

If “EV” is adjusted to + side, you can avoid under-exposure, or dark objects as shooting against a bright background.

If “EV” is adjusted to - side, then you can avoid over exposure, or bright objects as shooting against a dark background or at night.

At video clip mode , press "down/EV" button change the EV setting , the EV value will be change loop .

【EV】 【-2.0】 / 【-1.7】 / 【-1.3】 / 【-1.0】 / 【-0.7】 / 【-0.3】 / 【0】 / 【+0.3】 / 【+0.7】 / 【+1.0】 / 【+1.7】 / 【+2.0】

Power

Power Button Long Press Power On/OFF

Mute

Menu Button Long Press Mute On/OFF

### **Playback**

Press "Mode" switch to playback mode .

DOWN Next Clip ; OK Play Video

### **Thumbnail View**

Left/Right/Up/Down to select video files

"OK" Button ----- Play Video

"Menu" button -----Delete files

Delete files: Delete the single video clip currently selected.

Event: Record the video clip or make photo for urgent event

Copy to Nand Flash: Only support to 256MB or above NandFlash Version, this feature can copy current video or picture into (Option)

Internal Flash for back up purpose .

Connecting to PC

Step 1 : Insert the memory card into drive recorder , and take out the short USB cable provided.

Step 2 : Connect the USB cable with the drive recorder, and connect the other end to the USB port of PC. The red light will start blinking.

Step 3 : Press and hold the USB switch on the host device for 2~3 seconds to change to USB mode, now the red and blue lights

will start blinking simultaneously.

Step 4 : The computer will show a removable disk, you can use this disk for data access in the memory card.