Powered by

*The Bullseye*

User Manual

# Contents

# Getting Started

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**Please charge the device via wall or USB for at least 12 hours before use.**
 If the battery does not have full charge the unit may not function optimally.

# Overview

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The Bullseye is a high definition dash mounted video recording device integrated with in built GPS tracking and accelerometer readings. It can record full high definition at 1920 x 1080 pixels with a 5 mega pixel sensor. It can store up to 32GB of video footage onto a class 6 or higher MicroSD card.

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## Disciaimers

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- Do not operate or view the display of this product whilst driving. Such action may result in a car accident. The Crash Diary is here to increase road safety, not the opposite.
- Depending on your g-sensor sensitivity settings, an accident with impact lower than a certain degree of acceleration may not result in a locked video file. Please be aware of this and save any video files as a backup
- In case of recording person's voice without permission, you will be liable for legal responsibility. The Crash Diary is sold in good faith and not intended for any criminal misuse
- Crash Diary will not be held responsible for damage caused by negligence, careless and improper management of the user
- Do not store the Crash Diary in direct sunlight when not in use. Be sure to stow away in a compartment in your vehicle when not in use.
- Undue or improper treatment and/or storage of the Crash Diary will result in void of warranty

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# Technical Specifications

- Ambarella A2S60 chipset
- 5100 CMOS  sensor
- Product Size(LxWxH)

    115.6mmx50.2mmx31.6mm

- Video Image Resolution:    **1920×1080 full high definition (FPS30)**

    **720P60:1280x720 (FPS60)**

- Built in GPS tracking chipset
- Built in Accelerometer sensors
- Crash protection
- Seamless continuous recording
- Automatic startup/shut down.
- Memory card capacity:    32GB
- File format: Video:    MOV H.264
- LCD:    2.7 inch(960*240) 16:9
- Digital Zoom:    8x
- Exposure Compensation:  Auto/-2.0 to + 2.0

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# Technical Specifications

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- Shutter Speed:            1/2~1/4000s
- USB Port:                 USB 2.0
- HDMI:                     Supported
- Support system:      Windows 7/XP SP3/Vista/8 & Mac 10.4 or above
- 500mAh Li-ion battery
- Language: English/Chinese/Russian/Korean/Japanese

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# Key Function



1. WiFi/GPS Port
2. Menu
3. Mode/Emergency
4. UP/Mute/Zoom+
5. Down/EV/Zoom-
6. Playback Enter/Quit
7. MIC Switch
8. Power On/Off ;
   Short Press Power On
   Long Press Forced Power Off Button

9. Record / Photo / OK
10. DC In Port
11. USB Port/AV Output
12. HDMI Output
13. Lens
14. Red Charging LED
15. Blue Indicator Light (Recording)
16. Yellow Indicator Light
    (Only for GPS version)
17. TF Card Slot
18. Car DV Reset

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# Battery and charging

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This device uses a miniUSB cable to charge. This may be from the 12V/24V cigarette lighter port in your vehicle or also from a computer using a USB port or a common phone/digital camera charger with the same plug.

When using the device in the car it is recommended to use the car charger at all times as recording in 1080p drains a lot of power. It is also recommended to fully charge the device via USB before taking into the car to ensure longevity of the battery. Please also make sure you use the charger supplied in the box. A car charger with more than 5V may damage your device.

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# Battery and charging

Plug the charger into the DC IN port on the mount.

DC IN
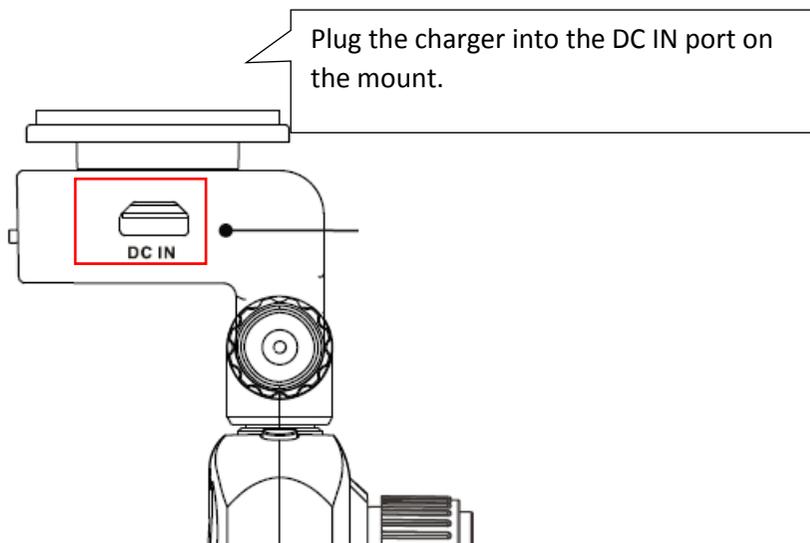
## Operation

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Pre-Start Check
1. Ensure the window mount is properly secured onto the window and that it has been placed in an area which will not have objects hindering vision.
2. The memory card in the device should be Class 6 or above and has been formatted prior to inserting into the device.
3. Car charger has been plugged in.

Camcorder Mode:
1. Press the REC button to start the video recording, and then press REC button to stop the video recording. During the process, a red REC should appear on the screen. See next section for menu items to better suit your application.

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# Operation (continued)



Please format your SD card before use.
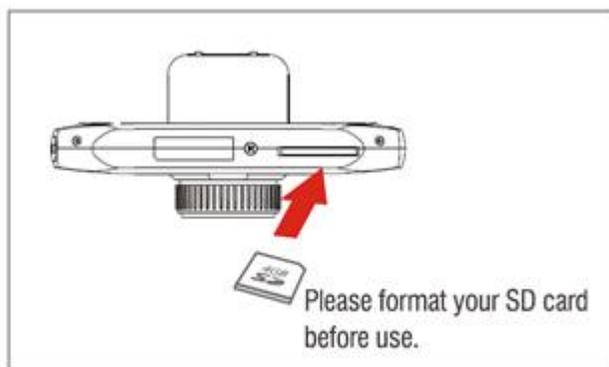
Removing the Stand - hand pinch bracket exit slot can be directly (without moving any snaps).
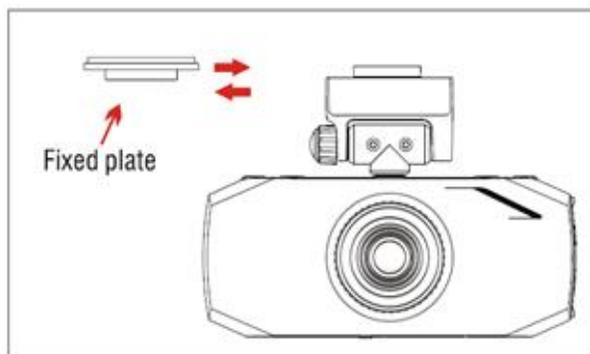


Fixed plate

Install the fixed plate in the appropriate location of your car, then left aligned with the slot to install.

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# Operation (continued)

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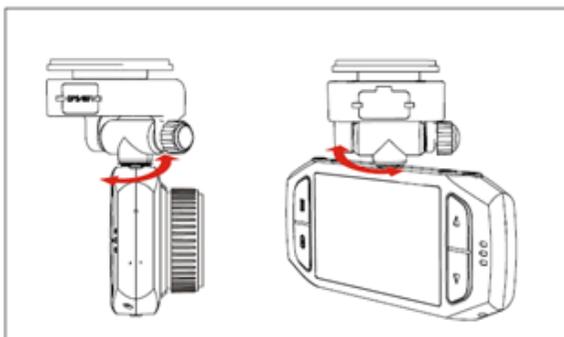


**Left and right rotation:** when adjust left and right angle, you can rotate the angle of the device directly (the maximum angle is 200)
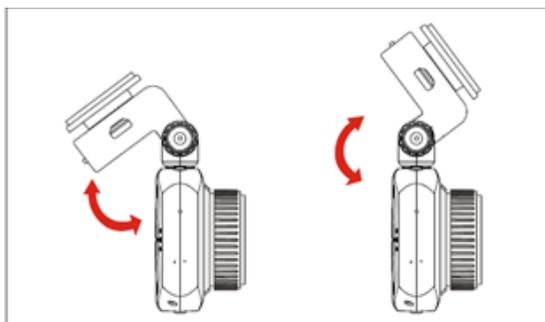


**Up and down rotation:** first, loosen the nut, adjust up and down to the appropriate angle (the maximum is 180), and then tighten the nut

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# Menu Options

**Menu Operation**

image param(capture mode)

**Photo size**

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

MENU Button Menu【Photo size】【2M(1920X1080)】【3M(2304X1296)】

**Self timer**

Self timer is used to set the time of selftimer-capture.

MENU Button Menu【Self timer】【On】/【3 seconds】/【5 seconds】/【10 seconds】

Video Options(Video mode)

**Burst**

Burst option can be used to set the number of selftime-capture.

MENU Button Menu 【Burst】【3Pics】/ 【2Pics】/ 【1Pic】

**Video 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 Menu【Video resolution】【1920x1080 30P】/【1280x720 60P】/【1280x720 30P】/【640x480 30P】

**Loop recording**

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 Menu【Loop recording】【Off】/【3 minute】/【5 minutes】/【10 minutes】

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

**Shut Down Delay**

When vehicle power cable connecting to vehicle, the Car DVR will be delayed shutdown under the setting after vehicle power off.

MENU Button Menu【Shut Down Delay】【ON】/【OFF】

**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】/【ON】

**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. [OFF] sensitivity means G Sensor function is OFF, so the drive recorder will not automatically set the data to protection mode, and manual setting will be needed.

MENU Button Menu【G_Sensor】【Off】/【High】/【Media】/【Low】

**Volume**

Adjust the volume of build-in speakers of the host device.

MENU Button Menu【Volume】 Setting Value:【0】 /【1】 /【2】 /【3】 /【4】 /【5】 /【6】 /【7】 /【8】 /
【9】 /【10】

**Microphone**

Microphone turn on and turn off

MENU Button Menu【Microphone】 【ON】 /【OFF】

**Flicker**

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

MENU Button Menu【Flicker】 【50Hz】 /【60Hz】

**Auto Power Off**

When the drive recorder stop recording, if "AUTO POWER OFF"was set, it will automatically shut off after going through the set time.

MENU Button Menu【Auto power off】 【Off】 /【1 minute】 /【3 minutes】 /【5 minutes】

**Lcd Off**

Setting LCD can,when activated LCD screen can automatically off when no operation.

MENU Button Menu【LCD OFF】 【Off】 /【1 minute】 /【3 minutes】

**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】

**GPS**(Only for GPS version)

Setting GPS can choose to activate or disable GPS function.

MENU Button Menu【GPS】 【ON】 /【OFF】

**Time zone**(Only for GPS version)

Setting Time Zone, can automatically set the time zone.

MENU Button Menu【Time Zone】 Setting Value: 【0】 /【1】 /【2】 /【3】 /....../【10】 /【11】 /【12】 /
【-1】 /【-2】 /【-3】 /....../【-10】 【-11】 /【-12】

**Number Plate Stamp**

Setting PLATE STAMP,can choose to show car number or no show when playing video.

MENU Button 【System Setup】 Menu【Number Plate Stamp】 【OFF】 /【ON】

**Number Plate Set**

Setting Number Plate Set, can choose to record car number or not record car number during recording.

MENU Button Menu【Number Plate Set】 Setting NUMBER: 【0】 /【1】 /【2】 /....../【7】 /【8】 /【9】 /
【A】 /【B】 /【C】 /....../【X】 /【Y】 /【Z】

**Date/Time Stamp**

Through this function, you can select whether to show time and date during recording.

MENU Button Menu【Date/Time Stamp】 【On】 /【Off】

**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.

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# Menu Options (continued)

**Language**

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

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

Press Mode Button to switch

**Format Storage**

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 Menu【Format Storage】【No】/【Yes】Press OK Button to process

**System Reset**

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

MENU Button Menu【System Reset】【No】/【Yes】

**Version**

View the firmware version of the drive recorder.

MENU Button Menu【Version】

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

**Playback**

Before video playback, please transmit the picture to your monitorand use the remote controller to operate.

Press playback to enter video playback mode.

**Preview :**

Up Button: Previous Clip;

Down Button:  Next Clip ;

OK Button:  Play Video ;

Mode Button:  Unlock File/Lock File

**Play :**

Up Button: Previous Clip

Down Button: Next Clip

Menu Button:Delete file

Delete the single video clip currently selected. Playback button Select video Press Menu button【Delete file】【Delete】/【Yes】Press OK button to process.

Up(long pressing) Fast Rewind

1/2X; 1/4X; 1/8X ; 1/16X ; 1/32X

Down(long pressing) Fast Play

2X; 4X; 8X; 16X; 32X Pause

◆**Remarks**

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.

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# Instructions for Viewing The 'Bullseye' Video Files With GPS Trackback

This manual has been written for users of Windows OS.

If you wish to view the standalone video footage without GPS playback we recommend viewing the videos using VLC player. VLC can be downloaded for free from http://www.videolan.org/vlc/. Note that you can still view the speed stamp (speed stamp must be 'on' in settings at the time of recording footage) on the standard video player.

Here are the steps to following in order to simultaneously view your dash camera footage with your location on Google maps. Follow the instructions carefully to setup the software correctly.

## Instructions

1. To be able to play video records, your computer **must** have the appropriate codecs and software.

   We recommend that you download the latest **K-Lite Codec Pack**. If you are unsure, choose the assembly "Mega", it will play all

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video formats. K-lite is constantly improving its codec pack and fixes compatibility. It is not recommended to install any more codecs, because they may conflict with each other and video can stop playing completely.

http://codecguide.com/download_kl.htm

If you have a 64-bit system, you still need to install the 32-bit version of the codecs.

*The GPS player is integrated into the firmware. When the device is connected to the computer, the player will automatically copy to the SD card.*

2. Power on the device. Ensure the SD card is present in the device.

3. Use the USB cable provided to connect the device to your PC. Please connect the cable into the microUSB slot on the **SIDE** of your device. It will not connect through the 'DCIN' port that you use to charge the device whilst in use.

4. Find the SD memory device in 'my computer'. You may see an automatic notification asking if you would like to open the folder, in this case press yes. At this point you will need to have an active internet connection.

5. Find the folder 'HDplayer' in the device memory, open the folder and then open the HDplayer.exe

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# GPS Menu options

In the menu panel:
"▶/◐" play  "◐" pause 1/2 1x 2x 4x speed up or slow speed
"■" stop to playe video;
"▦" add video file into the play list;
"▬" delete the video file from the play list;
"◙" refresh the play list;
"▤"copy the file to a positon the user want;
"■" delete the file permently.

In the"File" list:
There are"open", "refresh the file list", "clear file list" "exit" in the file list
"open" has same function as"▦";
"refresh the file list" hase same function as "◙";
"clear file list" is used to clear all the files from list, and don't delete the files;
"exit", the player will closed after press the button.

In the "Playback" list:
There are "play/pause","stop", "full screen", "capture picture" in the list
"play/pause" is same with "▶/◐"
"stop" is same with "■" ;
"full screen" is used to let the video window display as full screen.
"capture picture" is used to let the user capture a picture from the video.

"x","y","z" is used to show the gsensor data.
Speed unit have "kph" and "mph" two options, kph is kilomiters per hour and mph is miles per hour.

! Our player only support videos that recorded by our DVR to show the map.
! The video recorded by our DVR can be copied to computers, and don't have GPS log file.

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