# QUICK GUIDE

FOR YOUR

SW010

Recording indicator

Speed

GPS

Battery indicator

Loop Indicator

Motion Detection

Microphone

Digital Camera Automatic balance

FULL HD

2014/12/09

001:20:59   11:56AM

Time & Date
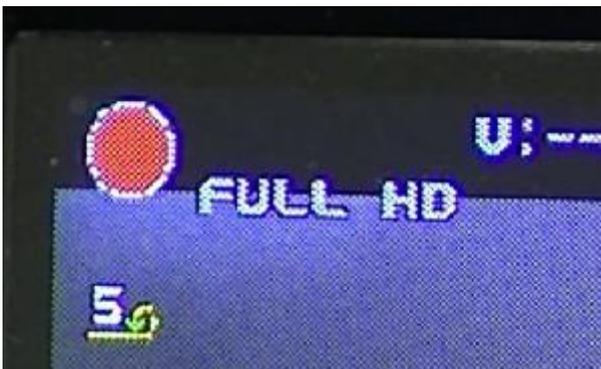


This picture shows the camera is Recording



This picture shows the camera with the recording Paused

Picture 1

This is the GPS windscreen module, the power must be inserted into this usb port to enable the gps option.

Picture 2

This is the top of the camera (from left to right) computer usb port - AV output - Microphone

AV Output - This is used to connect the camera to a television that does not have the HDMI port, This lead is included in the kit.

Picture 3

The left side of the camera, you can find a power button, this is used to manually turn the camera ON and OFF

Picture 4

This is the external SD card slot, if you wish to upgrade your memory this expansion slot can be used.
Takes up to a 32gb micro sd class 6

Picture 5

This port is used to connect your camera to the television using the HDMI lead included in the kit.

### RECORDING

This screen shows your device switched on and recording

The red ball in the top left will pulse to show it is recording.



### PAUSED RECORDING

This screen shows your device switched on and the recording has been PAUSED.
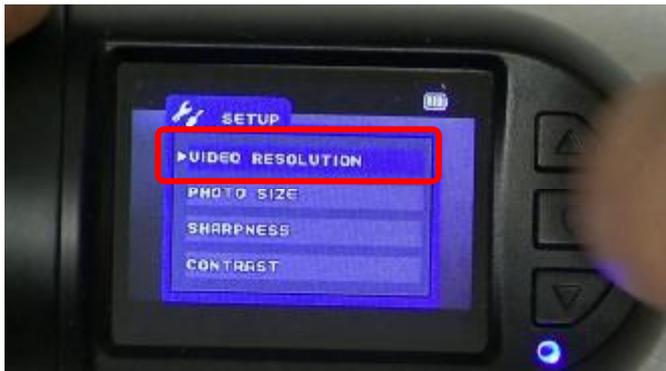
You can PAUSE this device by pressing the OK



**When the camera has been PAUSED this will now allow you to enter the menu.**

**PRESS and HOLD the UP arrow key, the menu will appear**

**When in the menu, use the UP and DOWN arrow keys to highlight the options and PRESS OK to enter that option.**



### Video Resolution

Press OK to enter video resolution , and using the UP and DOWN arrow keys make your selection and press OK to to confirm.

1920x1080 is the highest HD recording quality
VGA is the lowest recording quality

**We recommend -  1920 x 1080**



### Photo Size

This option allows you to alter the digital camera picture size

From 0.9 Megapixel to 4 Megapixel

**We recommend -  4 megapixel**

## Sharpness

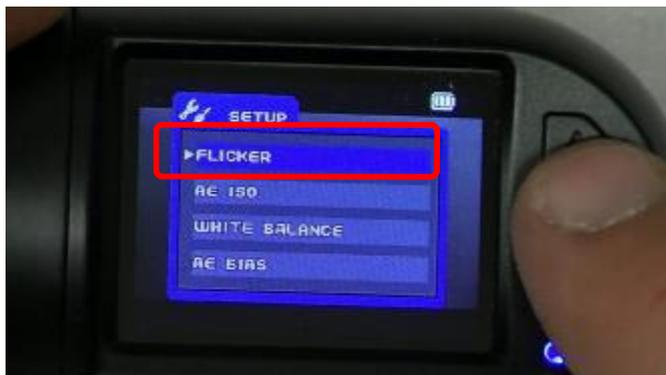This option Lets you alter the sharpness of the video and digital Pictures,

We recommend this is set to AUTO

## Contrast

This option lets you change the contrast of the video and digital pictures.

We recommend this is set to AUTO

## Flicker Rate

This option lets you change the flicker rate of the device. European countries use 60Hz .
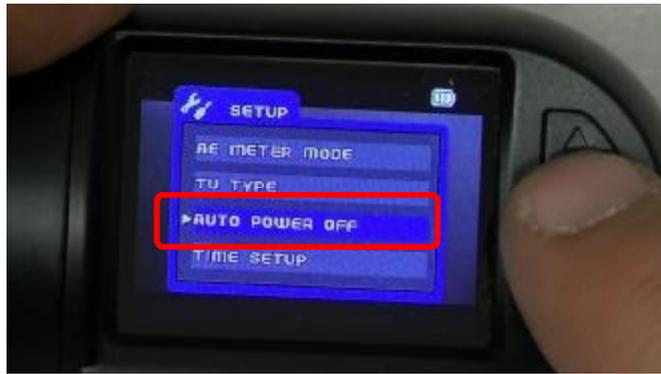If you are unsure  please set this option to AUTO

**Tv Type**

If you want to connect your camera to a analogue television, you may need to change this setting.
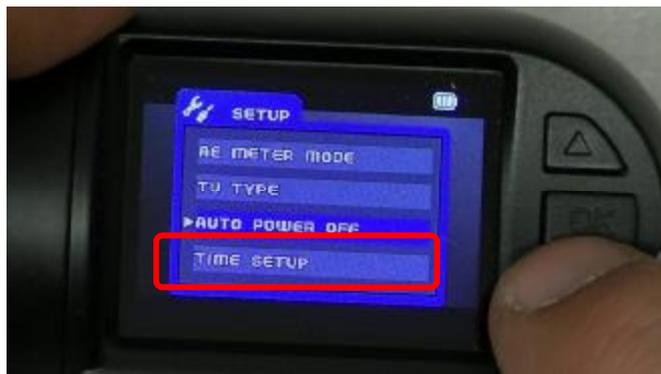
PAL is the most common type used in the UK

**Please see page 3 picture 2 of the "quick guide"**



**Auto Power Off**

This option lets you set a timer to power down the camera when the camera is removed from the power source.
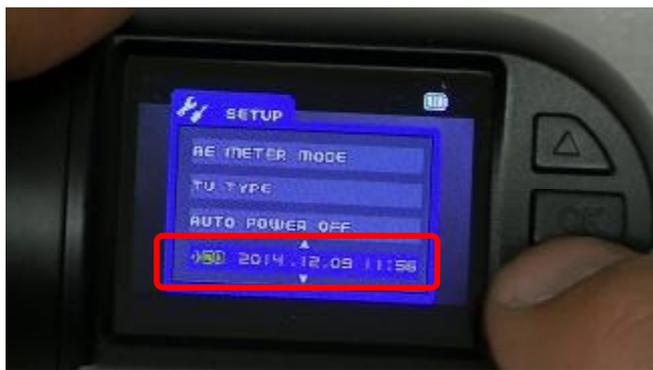
When in the OFF position the camera will remain on until the battery is depleted.



**Time Set Up**

This option lets you set the date and time of the device.

Please note, that when the GPS is connected, the device will obtain the time automatically from satellites.



**Time Set Up Cont..**

The 1st set of digits in yellow is the time zone, this has to be correct for the GPS to obtain the time settings.

British standard time +00

British summer time +01
Use the UP and DOWN arrows to navigate and OK to confirm



**Time Set Up Cont...**

When you press OK the yellow box will move across the screen to the next setting.

Time Zone—Year—Month– Day—Hour—Minutes

### Date Time Display

This options stamps the data into the video file.

So when playing the video file back the date and time will be displayed

### Loop Setting

The Loop setting feature allows the device to recycle the memory card.

We recommend a 5 minute loop setting, every 5 minutes the camera will make a new video file, when the card is full the camera will automatically delete the oldest video and recycle the recordings.
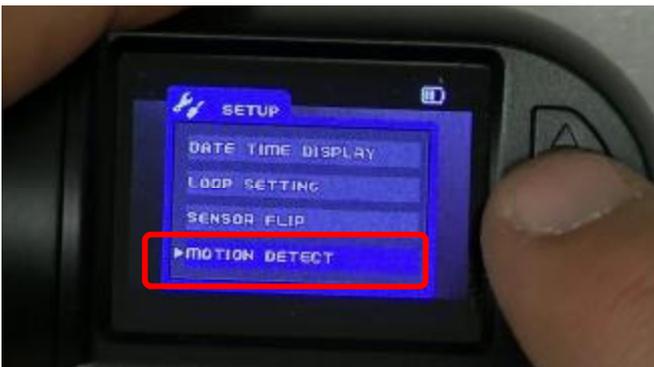
Please note in the OFF position when the card is full the camera files will have to be deleted manually
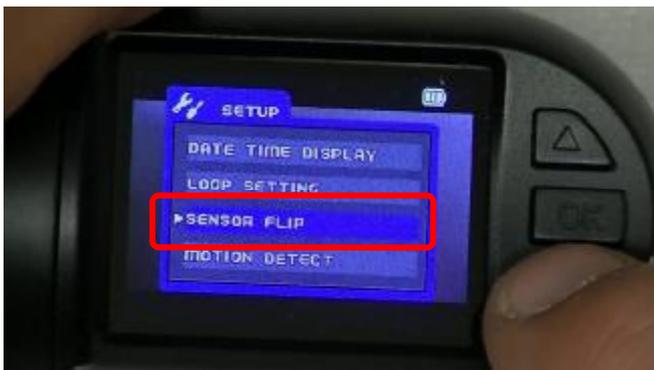
### Sensor Flip

This allows the camera to be installed 180 degrees so the screen and camera are showing the correct way.

This function is only used in certain installs

### Motion Detect

This function is used in a CCTV install, where the camera is in sleep mode until the lens detects movement, when this happens the camera wakes and starts recording.

**This function is NOT used if the camera is being used as a drive accident camera**
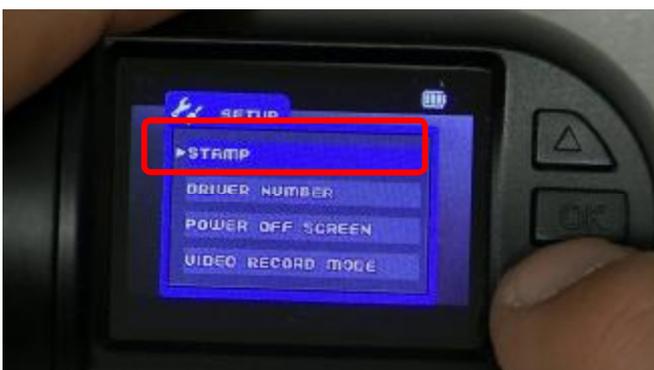
### Stamp

This function allows more data to be inputted into the video file.

We recommend GPS DATA so the speed and gps data is stamped into the video file along with the time and date

**Driver Number**

This function allows a name-vehicle reg to identify the

Use the UP and DOWN arrows to choose a Letter or Number and press OK to confirm, this will then move to the next icon on the screen.



**Power Off Screen**

When the device is switch on the screen can be set to automatically switch off and go into screensaver mode.

We recommend 1 minute , after 1 min the device will switch off the screen so it does not distract you whilst driving.

If switched to the OFF setting, the screen will remain on.
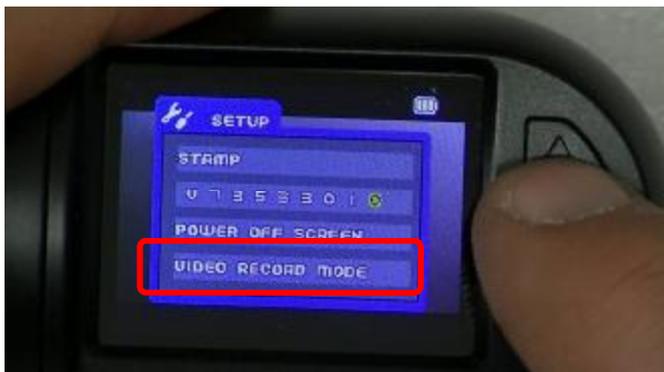


**Video Record Mode**

This function lets you choose if the camera records

Video and audio or just video
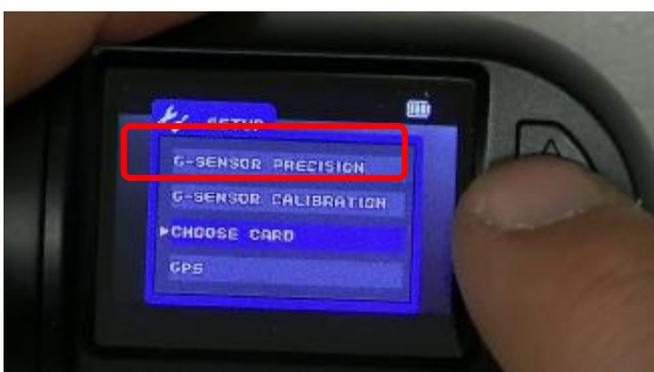


**G Sensor Precision**

G Sensor is a shock sensor, which activates at front/side or rear accident, it then locks the video file for safe keeping.

This can be set from 2g up to 5g

We recommend this being set at 2g , this can be altered later if required.
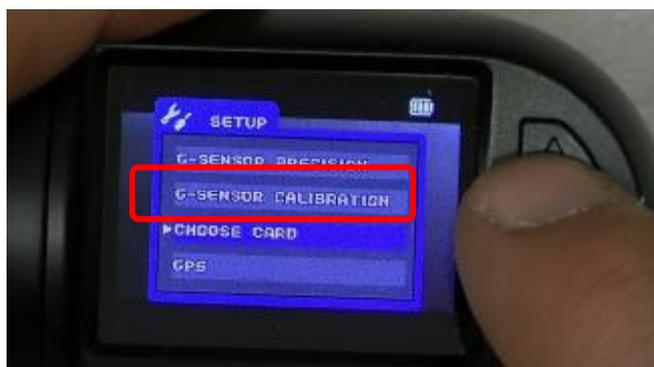


**G Sensor Calibration**

This function needs to be run once installed in your vehicle,

This will calibrate the device, choose YES and keep the camera and vehicle still, while the camera calibrates.

**G Sensor Calibration Cont..**

Please wait for this screen to calibrate

This will take only a few seconds

**Choose Card**

This camera comes with a 8GB onboard memory , but if you would like to upgrade the card you can purchase a 32GB card class 6 and install into the SD card slot as shown in picture 4 on page 2.
Then choose the OUTTER CARD in the menu.

**Please see page 3 picture 4 in "quick guide"**

**GPS**

To enable the GPS function on the camera the camera GPS needs to be set to OPEN, if in the CLOSE position the GPS will not work.

**Please see page 3 picture 1 in the "quick guide"**
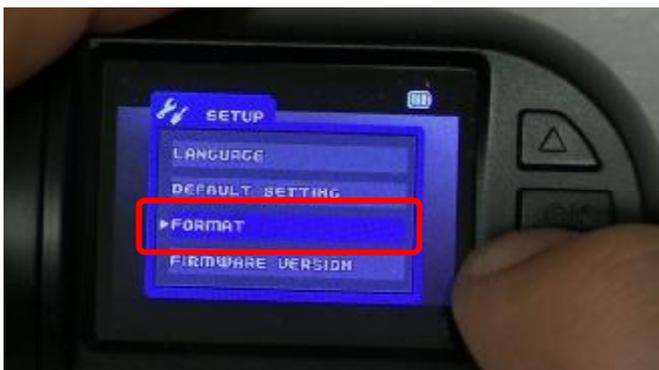
**Format**

This function formats (deletes) all videos and photos on the internal and external memory

Please remember to back up your data before using this function
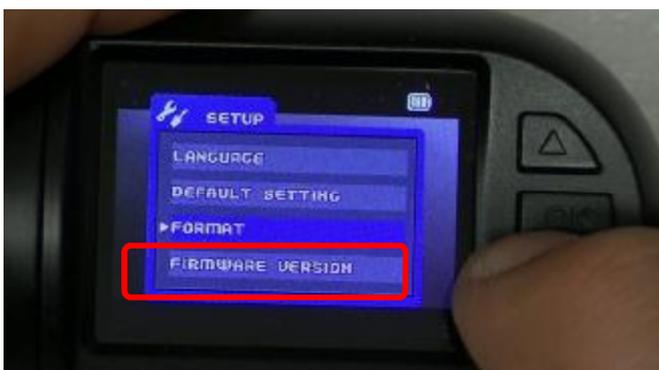
**Firmware**

This function gives information about the firmware version on the camera

**REVIEWING VIDEO AND PHOTOS**

To view videos and photos  stored  on the device

In PAUSE mode PRESS and HOLD the DOWN arrow button

Use the UP and DOWN arrow keys to choose the video

File you wish to play.

PRESS the OK button to confirm

To view the photos stored on the device

PRESS and HOLD the DOWN arrow key

To go back to the main screen,

PRESS and HOLD the DOWN arrow key

Then PRESS OK to resume recording
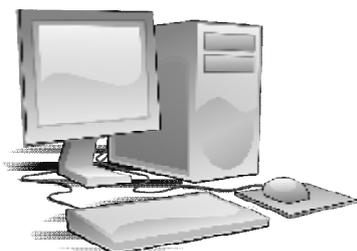
# HOW TO CONNECT YOUR CAMERA TO YOUR COMPUTER AND SOFTWARE

# Installing the software

1.  Plug the usb lead into the camera using the port on page 3 picture 2

2.  Plug the usb lead into your computer and wait for the computer to configure

3.  "Auto Play" should appear (if not please go to "my computer" to locate the device)
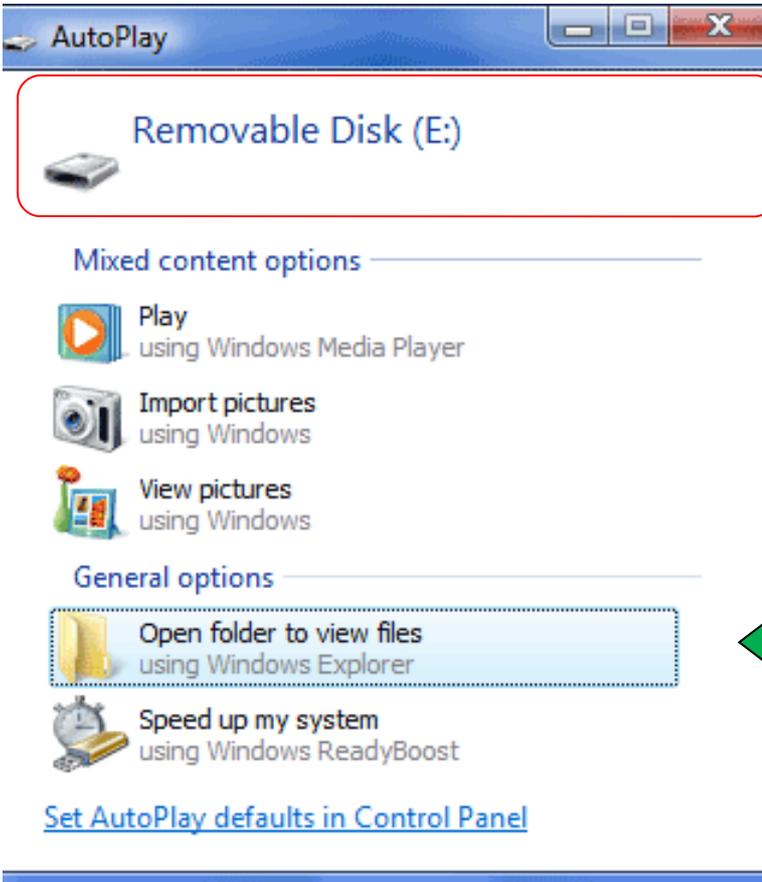


**Please Note the drive Letter**

4. Click Open folder to view

5. Double Click on the folder called "Player"

6. Now you will see the software called "SILENT_WITNESS.exe"

7. Double click on the "SILENT_WITNESS.exe" software

All software and manuals are available at www.silentwitness.co.uk

This will now load the software



Browse folder will appear on the screen

- Using the file menu locate the drive Letter and double click

- Double Click "Removable Disk E"

- Double Click DCIM folder

- Double click 100MEDIA Folder

This will now display all the video files within the folder

Highlight all the video files and then click OPEN

This will open them into the software

**Please Note internet connection is needed**

**For Google mapping**

Your Video plays here

Google Maps Shows here

LONGITUDE

LATITUDE

000.000000

000.000000

Your video files

Highlight and play

Or double click

Your Speed

G Sensor

Snapshot

File Menu

Skip Back

Skip Forward

Delete

Volume

Rewind

Play

Fast forward

# SILENT WITNESS

# User's Manual

# SW010

Please Read This Manual Carefully Before Using

Please keep for future reference

# Preface

About the Manual

Thank you for choosing our product!

In order to easily use your product, we attach a detailed user's manual with the product . Please read it carefully before operation to get the best from your digital video recorder.

If there is a difference between the manual and recorder, please take the recorder as standard. We reserve the right to change content or technical rules without prior notice. In addition, the manufacturer reserves the right to change technical specifications without prior notice.

We are not responsible for any data loss and personal damage caused by misuse of software or hardware, maintenance, battery replacement or other unforeseen circumstances, we are also not responsible for any indirect loss caused by this .Besides, we can't control the misunderstanding of users for this manual, so ,we won't be responsible for the accidental loss in the use of manual and the third-party claims   arising from the use of the product .

If the actual accessories in packaging doesn't match the attachment items , please take the actual accessories as standard. NOTICE: - Please note that this device is 12-24v with a 5v output, please do not remove any adaptors and install direct to a 12-24 battery.

## About your DVR

This device is designed to capture video whilst you are driving and in the event of an accident to help protect you and your passengers. With the video footage collected you can prove what really happened and you do not have to rely on witness statements.

## G-Sensor

Your device has a G-Sensor, this is designed to tell the device that a event has just happened, when the G-Sensor has been activated it will automatically duplicate the current video file and place it into a un-delectable folder for protection.

In the unfortunate event of an accident, if you believe accident has not activated the G-Sensor (depends on G-Sensor setting) you can manually lock the file by pressing the down arrow key, just for your peace of mind.

The G-sensor can be set from 2g up to 5g this setting depends on the vehicle and roads you drive on.

As default the device is set to 2g but for larger vehicle such as HGV's and off –road vehicles this setting may need to be increased.

# Product Features

- 130 degree ultra wide angle lens .
- 1920x1080P FULL HD high quality resolution.
- 4 mega pixels.
- 4X digital zoom, still image 8X zoom.
- 1.5 inch high resolution LCD, can watch while recording.
- Advanced H.264 video compression technology.
- GPS, record the latitude and longitude data automatically.
- Google map, to review your car tracking, speed and G-sensor info.
- G-sensor, once device detects collision, the current file would be protected.
- Seamless continuous recording will not miss any data.
- Automatically recording (stop recording) after car power on (off).
- Support AV out/ HDMI
- Upgraded software to improve recording under dark environments.
- 30/60 frames per second for smooth video flow.
- Automatic circulating video recording, being able to set the record time for each file.
- 1.5 inch screen to help you to watch video while make video recording in driving.
- Improve time & date display, no need to reset when re-starting.
- Screenshots function, can capture the video screen while video recording and reviewing.
- Easy operation.
- Built in 8 GB card, upgradable up to 32GB class 6
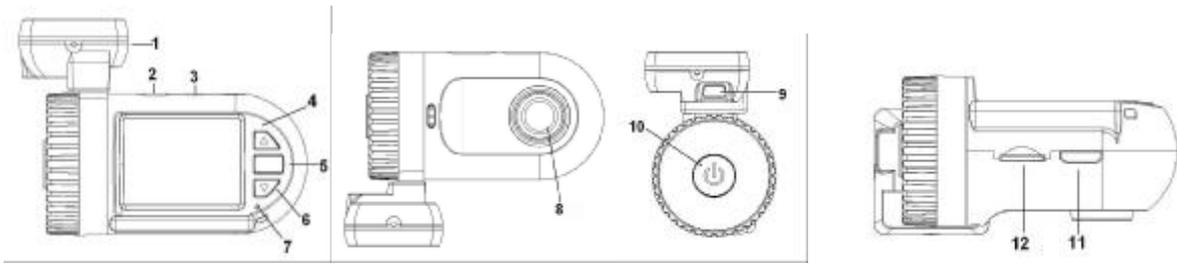


1. GPS unit : With 3M adhesive a semi-permanent fixture to the vehicles front window.
2. USB port 1: Connect to the charger and computer by USB
3. AV port
4. Menu Button: Press and hold for Menu; short press for UP /Last file; while recording, press for mute.
5. OK Key: Short press for start recording, long time press to take a picture; in menu, press to confirm.
6. Playback Button: Long press for Playback; short press for down /next file. While recording short press manual locks the video file.
7. Light indicator:
8. Lens
9. USB Port 2 (Support power by charger)
10. Power Button: Short press for power on; long press 2 seconds for power off; press for 8 seconds for reset.
11. HDMI port
12. SD card expansion slot

# Display

**ICON**   About the indication of each icon and symbol, see the table below.

| | | | |
|---|---|---|---|
|  | Video Mode |  | Start recording |
|  | Camera Mode |  | Take a picture |
|  | Supply light(off) |  | Battery |
|  | SD Card |  | Motion Detection |
| V:-------MPH | Car speed monitor after GPS is linked to a satellite. |  | White Balance (Auto) |
|  | USB connecting |  | Protected file |
| FULL HD /1080P/720P | Resolution | 2008/01/01<br>01：07AM | Date and Time Display |
|  | loop recording time (1 min) |  | GPS connected |

## Light indicator

Red ----charging

Blue -----stand by

Red/Blue--- Recording while charging

Blue flashing-----recording

# MENU

**This DVR is already pre-set, although    you can choose your own personal settings**

  How to configure your device

• Power on the device. if the  is flashing press the OK button to pause recording,

  the ball will now change colour, to grey.

• Press and Hold the UP arrow, this will enter the menu list.

• To navigate through the menu use the UP and DOWN arrow keys, and to enter the category press OK.

• To alter setting inside the category's use the UP and Down arrow keys and OK to confirm.

_____

   • **Video resolution:** Video Mode, Choose the video quality setting to record ((recommend FULL HD)

1920x1080p – 1440 x 1080p – 720p60 – 1280 x 720p – wvgap60 – wvgap30 - vga

   • **Photo size:** Photo mode, Choose the quality of still photos ( M = Megapixel)

0.9M, 2M, 3M, 4M

   • **Sharpness:** Alters the sharpness of the camera

   • **Contrast:**   alters the contrast of the cameras

   • **Flicker:**   alters the flicker rate PAL=50hz NTSC=60hz

   • **White Balance:** Photo mode

AUTO/Sunny/Incandescent/fluorescent/cloudy

   • **TV type:**

NTSC/PAL

   • **AUTO power off:** The amount of time the camera will stay on after the power has been disconnected (charge depending)

1 min / 3 min / 5 min /OFF

   • **Time Setup:** Set the Time, Time Zone and Date

UK time zone +01 British summer time Standard +00

   • **Date time display:** Imprints the data into the video file    (recommend Date and Time)

Date time/off/date&time

   • **Loop setting:** The length of each video clip (recommend 5 min)

1 min / 3 min / 5 min / OFF   Please note if you choose the OFF setting, once the recorder has filled the card, the card will need to be cleared before it continues to record. Please see page 7 loop recording

   • **Sensor Flip:** Lets you turn the camera 180° for different installations

   • **Motion detect:** The camera will only record when it detects movement in front of the lens (This function is normally use when the camera is powered from a 24hr power source.)

off/on

   • **Time Stamp:** Will imprint this date into the video file (recommend    GPS Data for standard use)

Driver Number/OFF/Date/Time/Date time/Gps Data

   • **Driver number:** Add a 9 digit number or name to the camera

   • **Power off screen :** Screen saver (recommend 1 min)

Off /1 Min /3 Min /5 Min (in the OFF position the screen will remain on)

• **Video record mode:** Choose to record video with audio or just video

Video and audio / video only

• **G-sensor precision:** The G force needed to activate the G Shock Sensor (see page 2 for details)

2G / 2.5G / 3G / 3.5G / 4G / 4.5G / 5G / CLOSE

• **G-sensor calibration:** Calibrates the camera for the G Shock Sensor

Yes / No

• **Choose card:** Choose the internal memory card or External SD slot

Inner / Outer

• **GPS**

• **Language :**

English/Russian/Chinese

• **Default setting**: This function will restore all the settings to the factory defaults.

Yes/No

• **Format:** This function will delete all data on the SD cards

Yes/no

• **Firmware:** Information about the firmware installed


**To exit the menu, Press and hold the UP arrow key, and Press OK to resume recording.**


**Notes for Installing the device**


• Always find a suitable place on the windscreen which will not obstruct your vision or cause an MOT failure.
The compact size of this camera is ideal to be installed close and tight behind the rear view mirror.


• PLEASE NOTE: Always offer the camera into position and check via the screen before removing the 3M tape
and securing it to the glass


• Installing a External SD card

⑴ Insert the SD card in the correct direction , the wrong direction may damage the card .

⑵ Please use a Class 6 SD card. (this is identified by the number inside the printed circle)

⑶ If the SD card format is not recognized by the dvr, you will need to format the card

(4) To protect your SD card, please turn the camera off before inserting or removing the SD card.

# Operations Guide

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## Charging
• This dvr can be charged by the cars power and also can be charged by connecting it to a computer .

• When connected to the cars power source, the dvr will turn on automatically , when turning off the vehicle the dvr will also turn off after a small delay.

## Taking Pictures
• In standby mode, press and hold the OK key to take a photo.
• During video recording, press the OK key to take a photo.

## Playback the video and reviewing the pictures.

• Power on the device. if the  is flashing press the OK button to pause recording,
  the ball will now change colour to grey.

1. Press and hold the Down arrow key to enter the Video files.
2. Press and hold the Down arrow key again to enter the Photo files.
3. Press and hold the Down arrow key again to Exit the Files.

• Use a short press on the Up and Down arrow keys to navigate through the files and OK to confirm/Play/Pause.
  Long press on the Down arrow to go back to video/photo files.
• When a file is highlighted with a Yellow square use the Up arrow to take you into the **"File menu"** for further options.

**Protected Files:** These files marked with a  can not be over written and have to be manually deleted or unlocked.

### Format:
To format the card, enter the menu , navigate to "FORMAT" press OK , Choose YES and Press OK

**Copy function for backup video in the "File Menu"** Video clip can be copied between external and internal storage, then you can make a back up to pass to the Police or Courts when producing evidence.

## Loop Recording:
The camera will record a segments of 1-3-5 minute video, this is called a Loop recording.
This dvr has a built in 8GB for the video.
Example
If the camera is set to a 5 minute loop recording a 8GB card will hold up to 28 five minute videos files,

And when it reaches the end of the sd card (it's 28<sup>th</sup> video file) I will automatically delete video file number 1 and then number 2, and cycles through the sd card, deleting and writing video files.

If the camera Loop setting is set to the OFF position then the camera will record 1 continuous video file until the card is full. The camera will then display "CARD FULL" and will stop recording, this file will then have to be taken off the card to the computer or the card formatted to enable it to record again. Please see page 6 Format

**Stamp:** Time /Date/ Date time/GPS data /driver number/off

1. After you choose a stamp, when you start recording, the stamp will   be written into your video file automatically. When you playback the video, you can see the stamp (video footage 1).

 **Video Footage 1**



**GPS**

1).Power on your DVR, the satellite search   start automatically. When GPS signal is located, this icon  will be showed on the display. When GPS signal is located, the DVR will auto record your GPS entry the SD card.
If the satellite is not found the icon will have a red "no action" symbol around it.
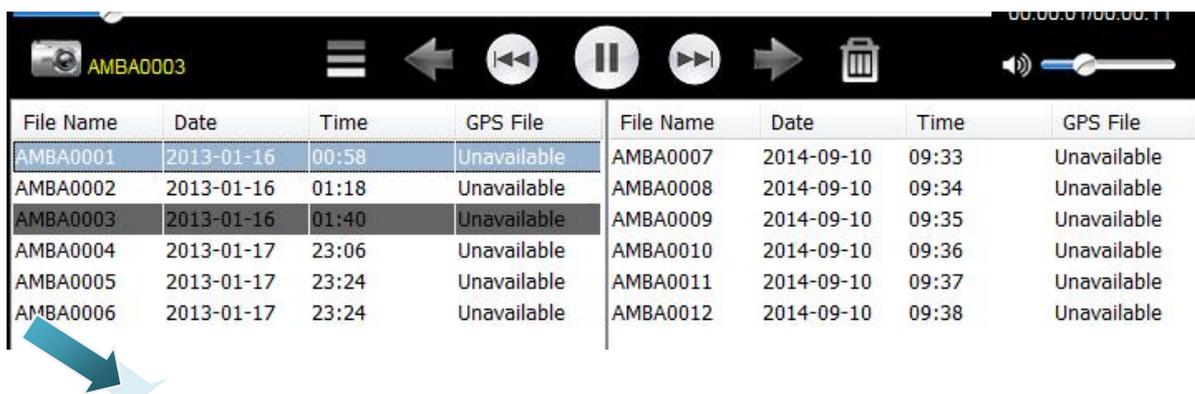
## SOFTWARE

1. Connect the camera / SD card to the computer.
2. Open the disk from "my computer" or "auto play"
3. Open the "player" folder
4. Double click "GPSPLAYER.exe" and the software will now open
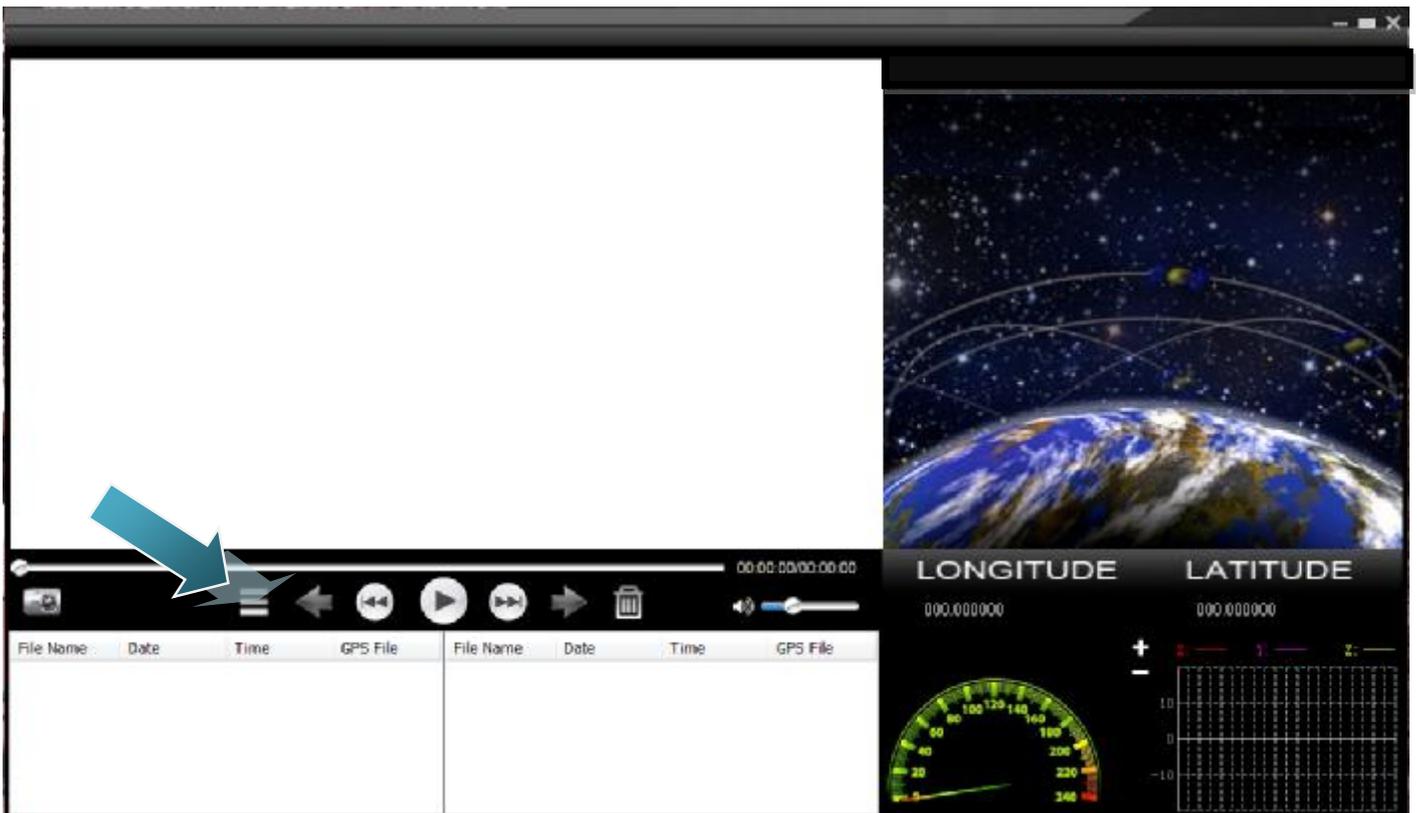


5.Click the ▤ symbol
6. Locate your Camera / SD card and double click to open the file
7. Open DCIM folder and then single click on the 100Media folder and click OK

**This will now load all the data and video into the software ready for you to view**



| File Name | Date | Time | GPS File | File Name | Date | Time | GPS File |
|-----------|------|------|----------|-----------|------|------|----------|
| AMBA0001 | 2013-01-16 | 00:58 | Unavailable | AMBA0007 | 2014-09-10 | 09:33 | Unavailable |
| AMBA0002 | 2013-01-16 | 01:18 | Unavailable | AMBA0008 | 2014-09-10 | 09:34 | Unavailable |
| AMBA0003 | 2013-01-16 | 01:40 | Unavailable | AMBA0009 | 2014-09-10 | 09:35 | Unavailable |
| AMBA0004 | 2013-01-17 | 23:06 | Unavailable | AMBA0010 | 2014-09-10 | 09:36 | Unavailable |
| AMBA0005 | 2013-01-17 | 23:24 | Unavailable | AMBA0011 | 2014-09-10 | 09:37 | Unavailable |
| AMBA0006 | 2013-01-17 | 23:24 | Unavailable | AMBA0012 | 2014-09-10 | 09:38 | Unavailable |

8. Choose a video file by double clicking the file

# Specification

| Image Sensor | 1/2.7 CMOS 2.0 Mega-pixel sensor |
|---|---|
| Display | 1.5″TFT（650×240 pixels） |
| Chip | Ambarella |
| GPS Module | GPS Logger |
| Memory | SD card up to 32 G |
| Lens | 4X fixed focus |
| ISO | Auto |
| Still images | Format：JPEG（EXIF2.2）、DCF<br>Image resolution：0.9M、2M、3M（Software）、4M（Software） |
| Videos | Format：H.264 (MOV)<br>Resolution： 1920×1080 30fps、>>> |
| Zoom | Video：4X Digital Zooming(1440*1080P)<br>Playback still image：Digital Zoom 8X (Maximum) |
| Audio | Built-in microphone/ speaker(AAC) |
| Exposure compensation | -2.0EV~+2.0EV |
| Loop Recording | OFF, 1 mins,3 mins,5mins |
| Auto Power Off | OFF, 1 min, 3 mins, 5mins |
| Auto Screen off | OFF, 1 min, 3 mins, 5mins |
| PC Interface | USB2.0（High-speed） |
| Output | HDMI , Audio-Video output |
| AV Output Format | NTSC/PAL |
| Battery | Built-in polymer battery 3.7V, 350mAh. |

| RESOLUTION | 8 GB CARD Min | 32 GB CARD Min |
|---|---|---|
| 1440 x 1080 | 90 | 360 |
| 720P60 | 90 | 360 |
| 1280 X 720 | 126 | 504 |
| WVAP60 | 126 | 504 |
| WVAP30 | 210 | 840 |
| VGA | 270 | 1080 |

# Troubleshooting

If you run into problems , please refer to the following solutions.

- **Can't record a video or takes pictures**

    Please check and make sure the card has enough storage space. Please see page 7 for formatting your SD card

- **Stopped automatically while recording**

    Because the data is high-definition video, please use a high-speed SD card - High-speed card will be signed with "C6".

- **If prompted "File Error" while playback the video or image**

    This is because the SD card has the wrong data format, resulting in the file error, use "Format" in Menu, to format the SD card..please see page 7

- **Image is blurred**

    Please check the lens, for fingerprints or dirt.

- **Image has horizontal stripes interference on TV play back**

    This is due to the wrong setting of "Flicker" .Please check the local power supply frequency, reset the Flicker: 50 Hz/60 Hz. If your tv is Pal please set the device to 50hz Ntsc systems require 60hz.

- **It does not start automatically recording when powering on the vehicle**

    Please make sure the loop recording is set 1/3/5 mins, and not OFF, it won't auto start recording when loop recording is OFF, please also check you have not paused recording, Press OK button to see the red ball in the top right of the screen, please also check the "motion detection" is also off.

- **The machine keeps automatically recording**

    Please check the motion Detection, check for this icon on the screen. When the Motion Detect is ON, it will auto start recording when a moving object appears within the range of the camera; please see page 7 Motion Detect

- **Auto power off setting does not work**

    Please ensure that motion detection is turned off, if the motion detection is turned on, the machine will always be in standby mode, the machine will not automatically shut down until the power goes (when connected to a permanent power source.)

- **The camera is unresponsive**

    Press and hold the power button for 10 seconds or more, release the button and the camera will restart.

- **If prompted "Card Full"**

    Please check your SD card, if the card   is full please transfer the date to a device or format the sd card.
    Also check the "loop setting" in the file menu if this is switched to OFF the card will have to be manually deleted each time, if a time option is chosen the camera will re-write over the video files.