

Bike BRO User Guide

Contents

1.0 WIRING DIAGRAM (3 Wire System)	3
1.1 WIRING DIAGRAM (4 Wire System)	4
1.2 DVR LAYOUT / OVERVIEW	5
1.3 COMPONENT LAYOUT	6
1.4 IMAGE ORIENTATION / LEVELLING	6
2.0 INSTALLATION	7
3.0 NORMAL OPERATION	8
3.1 Main Display	8
3.2 Powering ON / OFF	8
3.3 Recording Mode	8
3.4 Record Sound	8
3.5 Camera Preview	8
4.0 MENU SYSTEM	9
4.1 Menu Buttons	9
4.2 Video Menu	10
4.2.1 Video Size (Resolution)	10
4.2.2 Rec Sound	10
4.2.3 G-Sensitivity	10
4.2.4 Parking Mode	10
4.2.5 Brightness	10
4.3 Setup Menu 1 of 2	11
4.3.1 Format	11
4.3.2 Screensaver	11
4.3.3 Language	11
4.3.4 Auto Off	11
4.3.5 Sys. Reset	11
4.4 Setup Menu 2 of 2	12
4.4.1 Light Freq.	12
4.4.2 Date Input	12
4.4.3 Timezone	12
4.4.4 GPS INFO	12
4.4.5 Version	12



5.0 FILE SYSTEM	13
6.0 PC GPS Player Application.....	13
7.0 TROUBLESHOOTING.....	14

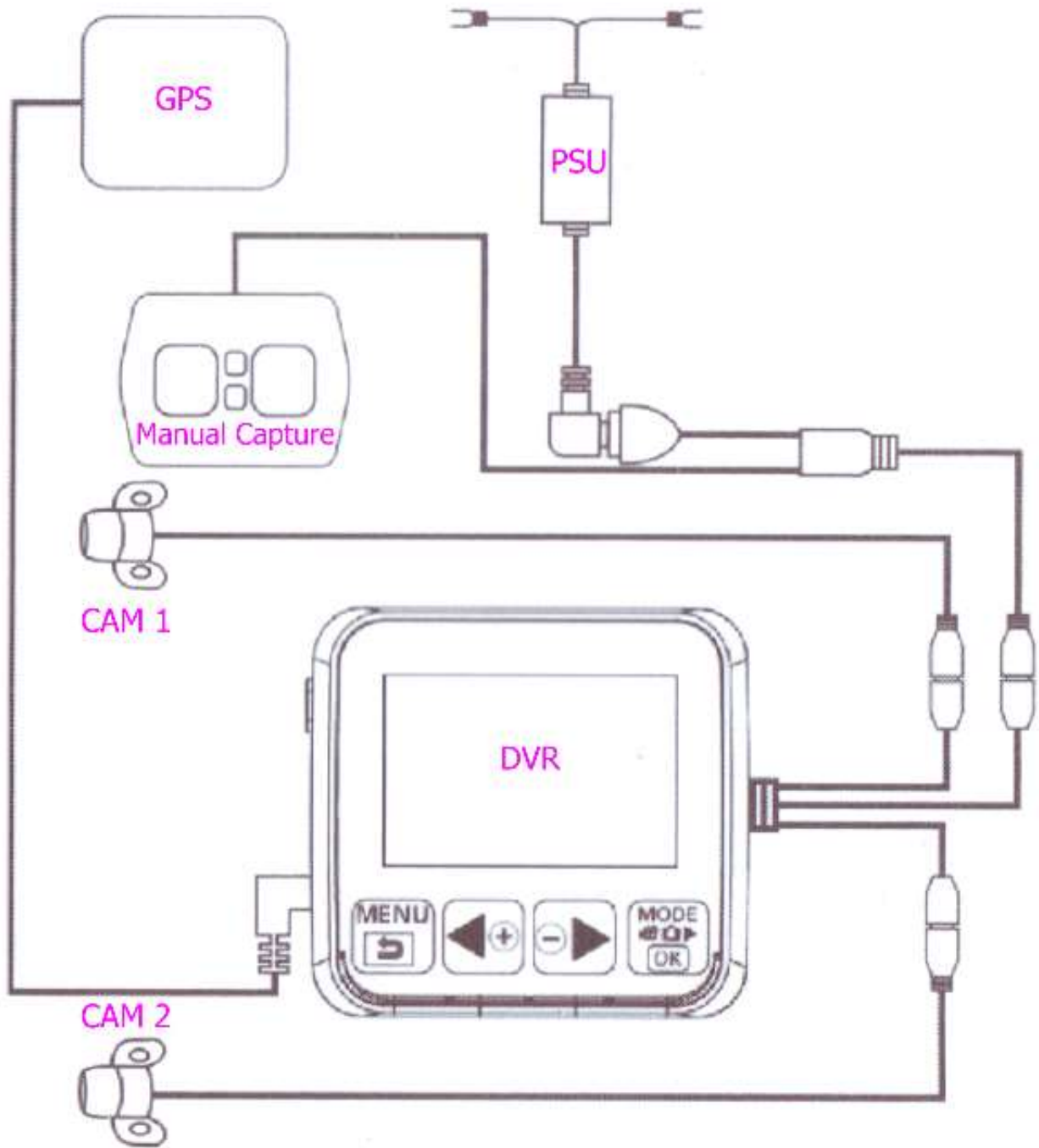
**** IMPORTANT NOTES ON SD CARDS ****

- 1) This DVR requires a Class 10 MLC Card, suitable for DVR use and capable of writing at least 14mb/s.
- 2) It is standard practise when using SD cards in DVR's to format the card periodically. For heavy use this can be typically every 2 weeks.
- 3) SD cards are a consumable items and have a finite number of write cycles. Depending on usage, we suggest replacing the card every 12 months.
- 4) Symptoms of an incompatible or worn SD card include: DVR stopping & starting recording erratically, sound out of sync with video, jumping video, sections of footage missing, blocking or graining of recorded image.
- 5) Only buy genuine SD cards from a reputable supplier. EBay is full of counterfeit cards.
- 6) Recommended cards:

Transcend High Endurance

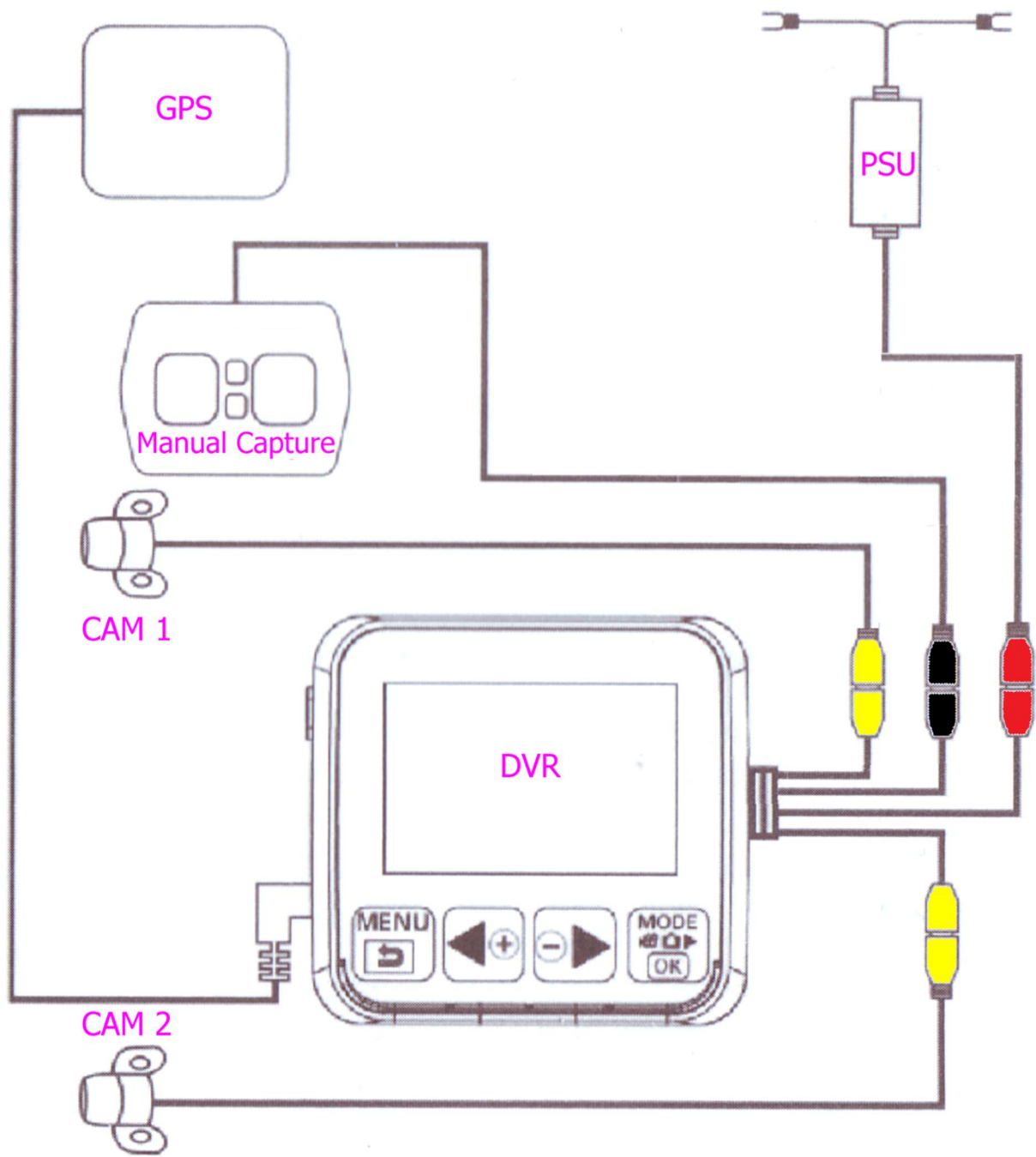
Lexar High Endurance

1.0 WIRING DIAGRAM (3 Wire System)



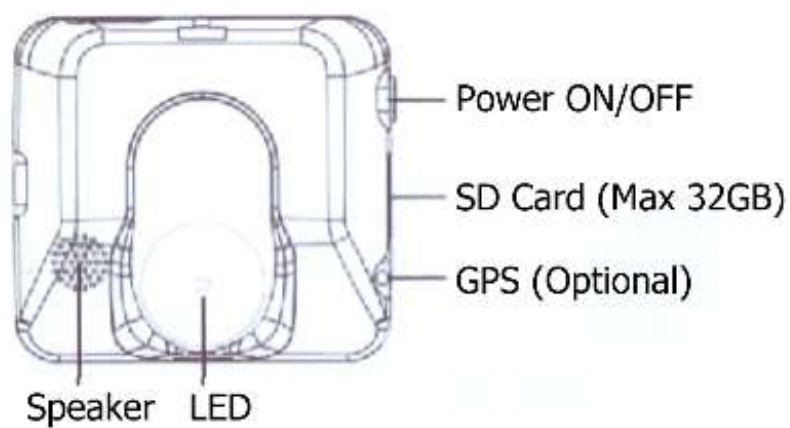
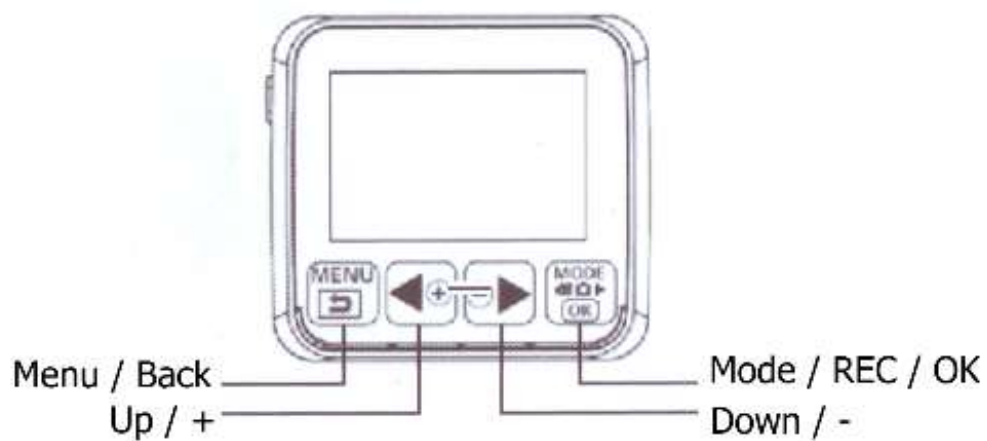
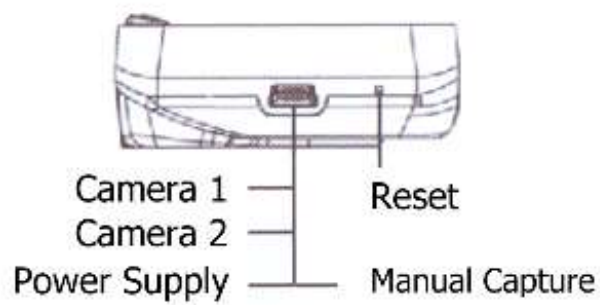
Note: GPS and Manual Capture button are optional extras.

1.1 WIRING DIAGRAM (4 Wire System)



Note: GPS and Manual Capture button are optional extras.

1.2 DVR LAYOUT / OVERVIEW

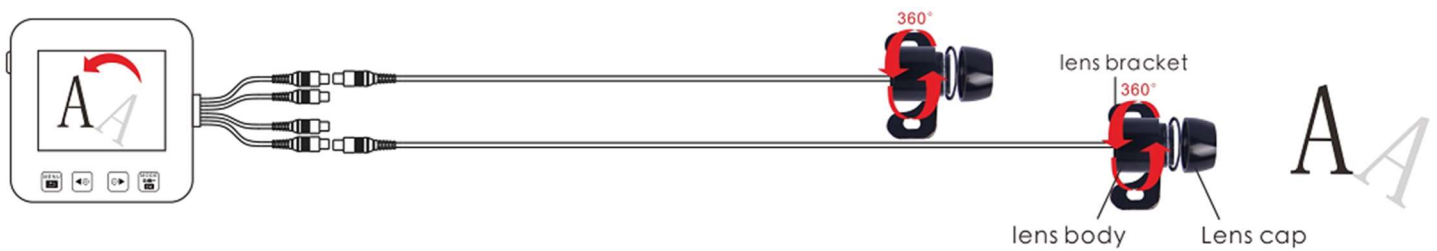


1.3 COMPONENT LAYOUT



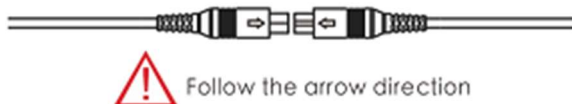
1.4 IMAGE ORIENTATION / LEVELLING

To adjust the camera image angle, unscrew the lens cap a quarter turn, then rotate the camera body to the correct orientation. Tighten the lens cap when done.



2.0 INSTALLATION

- Connect the system as shown in the Wiring Diagram above.
- It's advised to charge the DVR using the supplied USB cable before installing on the bike.
- Connect the PSU to a suitable accessory / switched battery feed.
- A headlight or taillight is a recommended "live" feed (Providing these are not monitored on the CAN bus like some modern bikes)
- NOTE: **DO NOT connect directly to the battery**, as the unit draws current even when switched off to charge the DVR internal battery and recording may continue even after the bike is parked. This could lead to a flat battery over time.
- Place the DVR unit under a seat, or panel in a dry area. The DVR is splash proof but **NOT** waterproof.
- Camera's, GPS, Manual Capture and connectors are all waterproof.
- GPS module ideally needs to see the sky and won't work under a seat. Some experimentation may be required to find the best place to locate the sensor on your bike. When the DVR has a GPS lock, the Lat / Lon is displayed on the screen and the word GPS stops flashing. The time and date for the DVR is taken from the GPS data, therefore the Timezone may need to be adjusted to correct any Daylight Saving Time differences.
- Line up the arrows on the connectors



- Be careful with the connectors, they contain very small wires and can be broken if roughly handled!



3.0 NORMAL OPERATION

3.1 Main Display



3.2 Powering ON / OFF

Press Power ON / OFF button on the DVR.

or

Press and hold the manual capture button for 2 seconds.

3.3 Recording Mode


Once setup, the unit will begin recording straight after power on.

NOTE: To enter the Menu System, the recording must be stopped first. Recording Time will go WHITE and show 00:00:00



Press  to START / STOP the recording.

3.4 Record Sound

Make sure Record Sound is ON in the menu system **AND** the sound symbol is not crossed out on the display!

A short press of  from the camera view screen toggles the sound ON/OFF.

3.5 Camera Preview

Pressing  or  changes the camera shown on the main screen.

4.0 MENU SYSTEM

NOTE: To ente the menu system recording must be stopped first by pressing the Mode button.



See Section 3.3 for more info.

Press and hold the Menu button  to enter the menu system.

4.1 Menu Buttons

In the menu system the buttons operate as follows:

BUTTON

FUNCTION



Back or Cancel, or Setting Menu (From Video menu)



Up / Down list options



Enter / OK

4.2 Video Menu



4.2.1 Video Size (Resolution)

HD	1280 * 720
D1	720 * 480
VGA	640 * 480

4.2.2 Rec Sound

ON, OFF

NOTE: Short press of MENU button will toggle sound recording ON/OFF when in the Main display.

4.2.3 G-Sensitivity

Off, High, Med, Low

Force required to trigger a G-event. High (3G), Med (2.5G), Low (2G). Causes an EVE_XXXX.avi file to be saved. See Section 5.0 for more info.

4.2.4 Parking Mode

ON, OFF

Reduces recording frame rate to 1 FPS after 3 mins of inactivity.
NOTE: DVR is still running and if left for long periods may discharge bike battery.

4.2.5 Brightness

1-20

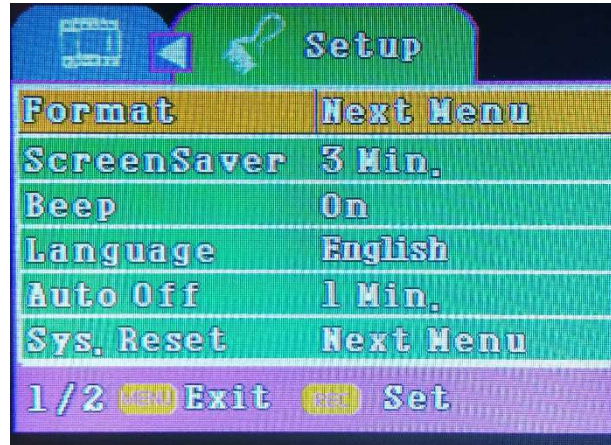
Allows each camera brightness to be adjusted.

NOTE: Pressing the Menu button



once from the Video Menu will take you to the Setup Menu's.

4.3 Setup Menu 1 of 2



4.3.1 Format

Cancel, Execute

Select Execute and press OK to erase and format the SD card.

4.3.2 Screensaver

OPEN, 1, 3, 5 min

Screen Blank time. OPEN = Screen ON permanently

4.3.3 Language

Various Languages

4.3.4 Auto Off

1, 3, 5 min, OFF

Switches off the DVR if the SD card is not inserted.

4.3.5 Sys. Reset

Cancel, Execute

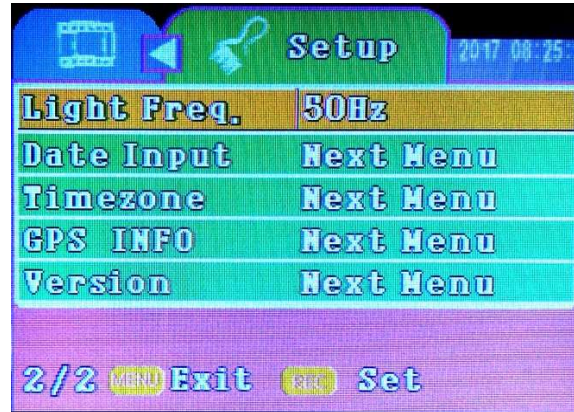
Restore to Factory defaults.

NOTE: Pressing the Menu button



once from the Setup Menu will exit the menu system.

4.4 Setup Menu 2 of 2



4.4.1 Light Freq.


60Hz, 50Hz

Shutter refresh rate

4.4.2 Date Input

Off, Set


dd / mm / yyyy
mm / dd / yyyy
yyyy / mm / dd

Menu button  to change field.

4.4.3 Timezone

Cancel, Set

GMT+/- 00:00


Menu button  to change field.

4.4.4 GPS INFO

Displays a bar graph showing number of satellites found and signal strength.

4.4.5 Version

C6,70321G3PCLG,EN

NOTE: Pressing the Menu button  once from the Setup Menu will exit the menu system.

5.0 FILE SYSTEM

The Card uses FAT32 and can be read by Windows XP/7/10 OS.

32GB SD Card give approximately 3 hours of video footage.

Files are stored with different prefixes according to the reason they were saved as follows:

FILENAME TYPE	REASON
EVE_XXXX.avi	G-Shock triggered event
REC_XXXX.avi	Normal recording
KEY_XXXX.avi	Manual Capture pressed

EVE_XXXX and KEY_XXXX files are not overwritten by loop recording. Once the card is full, the oldest REC_XXXX file is deleted and replaced with the current. Periodically erase the EVE_XXXX and KEY_XXXX files otherwise the card will become full, plus the loop time will decrease as the card fills with these events.

6.0 PC GPS Player Application

A PC application “GPS Player” is required to play the SD card video and GPS data and is available for free download at:

<http://www.nortek.co.uk/bike-bro-dual-camera-motorcycle-dvr/>

7.0 TROUBLESHOOTING

PROBLEM

No Sound

SOLUTION

Press MENU button and check sound icon on the screen
Check Rec Sound is ON in the Video Menu

Can't access menu's

Stop the recording first, see Section 3.3.

GPS wont lock on

Make sure GPS has a view of the sky.
Check GPS connection is pushed in fully.

Lots of EVE_XXXX saved

Check G-Sensitivity setting and change to "HIGH". Hard accelerating or braking can cause an event. The more powerful the bike, the higher the risk of false triggering, so the setting should be adjusted accordingly.

Jerky AVI file playback
or Sound / GPS out of sync

Use class 10 DVR suitable SD card. (Available from Nortek Bike Bro website)

Memory Full

Too many event files on the SD card. Reduce the G Shock sensitivity or switch it off. Too many KEY_ events from pressing the manual capture button.
Erase the SD card on a PC, or Format it from the menu system.

END OF DOCUMENT.