



USER GUIDE HDVR400L



Introduction

Thank you for purchasing the Gator HD Digital Video Recorder 400L. This product is designed to provide high definition recording of your trips for security and evidence in the case of an incident. Being portable, this convenient and durable multi-vehicle driving recorder can be used in a variety of situations for video recording.

Product Overview

This product is a Full HD Digital Car driving recorder, it can record high resolution video as well as high resolution pictures, using a micro SD card as the storage device which is ultra-small, power saving, easy and convenient to carry anytime. Compared with the traditional video, this product is exclusive design, elegant appearance, does not affect the overall appearance, humanized design concept allows you to enjoy the noble class treatment!

The DVR has a recording resolution of up to 2560x1920P and it can also shoot 16 mega pixel still images. The DVR uses a Micro SD card as storage because it is compact, power-saving and easy to carry. The DVR can also use the HDMI interface to transmit your media directly to a high-definition LCD TV for high-resolution playback.

Product Features:

- 170-degree ultra-high definition wide-angle lens.
 - 2560 * 1080P Super HD resolution.
 - Compression technology with advanced H.264 photography.
 - HDR (High Dynamic Range imaging)
 - 2.7-inch 16:9 high-resolution LCD screen.
 - Lane Departure Warning System
 - Looping Recording
 - G-Sensor Function
 - SOS Lock Function
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- Do not put the DVR into a damp working condition; The DVR down not has any waterproof function.
 - Do not try opening the shell or trying to repair the DVR by yourself. If the accessories for the DVR have any problems, please take it to an authorized repair agent for repair.
 - Do not use a chemical substance, clean solvent or cleaner to clean the DVR, please use a moist soft cloth if you would like to clean the DVR.
 - Do not use the DVR under conditions where dust and density is too large, to avoid affecting the video.
 - Please care for the environment, do not discard this machine randomly; do not throw the DVR into a fire, as it may explode.
 - Please pay attention to cleaning the lens surface, use a moist soft cloth to clean the lens before use, to avoid poor video footage.

Package Components:



HD DVR 400L



Mounting
Bracket with
Charger



USB to Mini USB



Car Charger



USER GUIDE HDDVR400L



4G Micro SD
Card



HD DVR 400L
User Guide

Product Structure:



- 1) TV-OUT
- 2) USB Port
- 3) Bracket Connection
- 4) HDMI Out Port
- 5) HD Camera Lens
- 6) Power Button
- 7) Up/Left Button
- 8) Menu Button
- 9) OK Button

- 10) Mode Button
- 11) Down/Right Button
- 12) Reset
- 13) Indication Light
- 14) SOS Emergency Button
- 15) LCD
- 16) Micro SD Slot
- 17) MIC
- 18) Speaker

Button Instructions

Power Button:

When the DVR is turned off, press it once to turn it on. While the system is on, hold down the power button to turn it off.

MENU Button:

Pressing this button once will open the menu. Pressing the menu button again while in the menu will change to the second settings tab.

OK Button:

The OK is used to start recording in video mode. Pressing the button again in video mode will stop the recording. In photo mode, the OK button is used to take a picture.

The OK button is also used to select a setting in the menu.

Up/Left Button:

The up/left button is used while in the menu to move the highlighted area for selecting. The up/left button can also be used to mute the MIC on the fly, either during standby or recording.

Down/Right Button:

The down button is used while in the menu to move the highlighted area for selecting.

MODE Button (Mode Switch):

Press the mode button to switch between video mode, photo mode and the file browser interface.

HDMI Port:

The HDMI port provides a HD output interface using the mini HDMI to HDMI cable provided that can be plugged into a HDMI in supported device.

Micro SD Slot:

Where the Micro SD card is inserted (Max size is 64GB).

USB Interface:

The USB port can be used to charge the device or be connected to a computer for data transmission.

Reset:

To hard reset the device in the case of a system jam or crash.

SOS Emergency Button:

Pressing the SOS Emergency lock button while recording will activate file protection (A yellow triangle will be present if activated).

Power Indication Light:

When the device is turned on, a red indicator will light up. When the device is recording, it will be flashing red. When the device is charging, the light will glow blue.

Battery Charging Indication Light:

After connecting the DVR through USB, the indication lamp will glow blue meaning it is charging. The light will automatically turn off after fully charged.

MIC:

Audio receiver for video recording.

AV Out:

Analogue Out that can be connected to a TV using a composite cable (Not included)

Extra Functions**G-sensor Function:**

The G-sensor function activates in the case of a car accident by determining the gravitational acceleration ($1g = 9.8 \text{ meters/second}^2$). When this function activates, the DVR will save the accident footage in a non-deletable file in order to protect the footage. The G-sensor sensitivity can be adjusted to Off/High/Medium/Low in the settings menu.

SOS Function:

Press the SOS button while recording in order to lock the currently recording video file so it is non-deletable file (A yellow triangle will be present if activated).

Auto Power On/Off:

When turned on, once power is connected to the device, like when you start your car up, the DVR will automatically turn on and start recording. When the power is disconnected, or car is turned off, the DVR will automatically save the file and shutdown.

Basic Instructions for Video and Photo Operation

Powering on and off the device:

To turn on the DVR press the power key once, the red indication lamp will be light up if it is connected to a power source. To turn it off, hold down the power button and the device will turn off.

WARNING: The device will automatically turn off once the battery hits critically low levels.

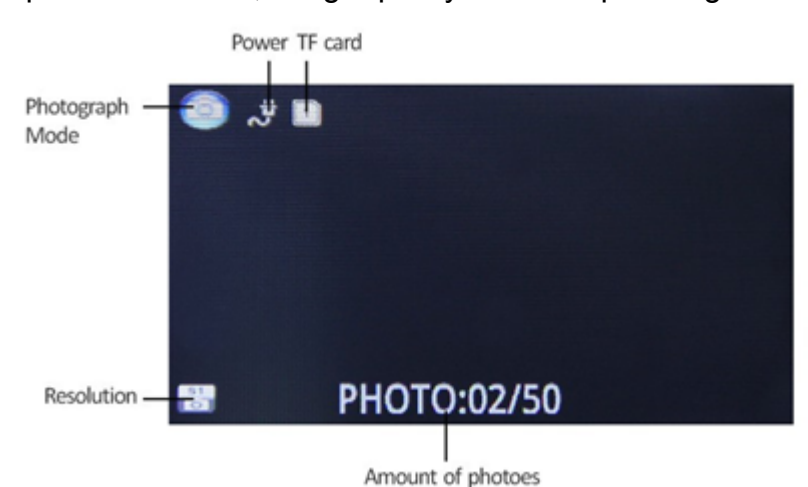
Video Mode

Press the Mode button to switch to video mode if not already. To start recording in video mode press the OK button to start the recording. You know it is recording by the red circle indicator on the top right corner of the LCD. To stop the recording, simply press the OK button again.



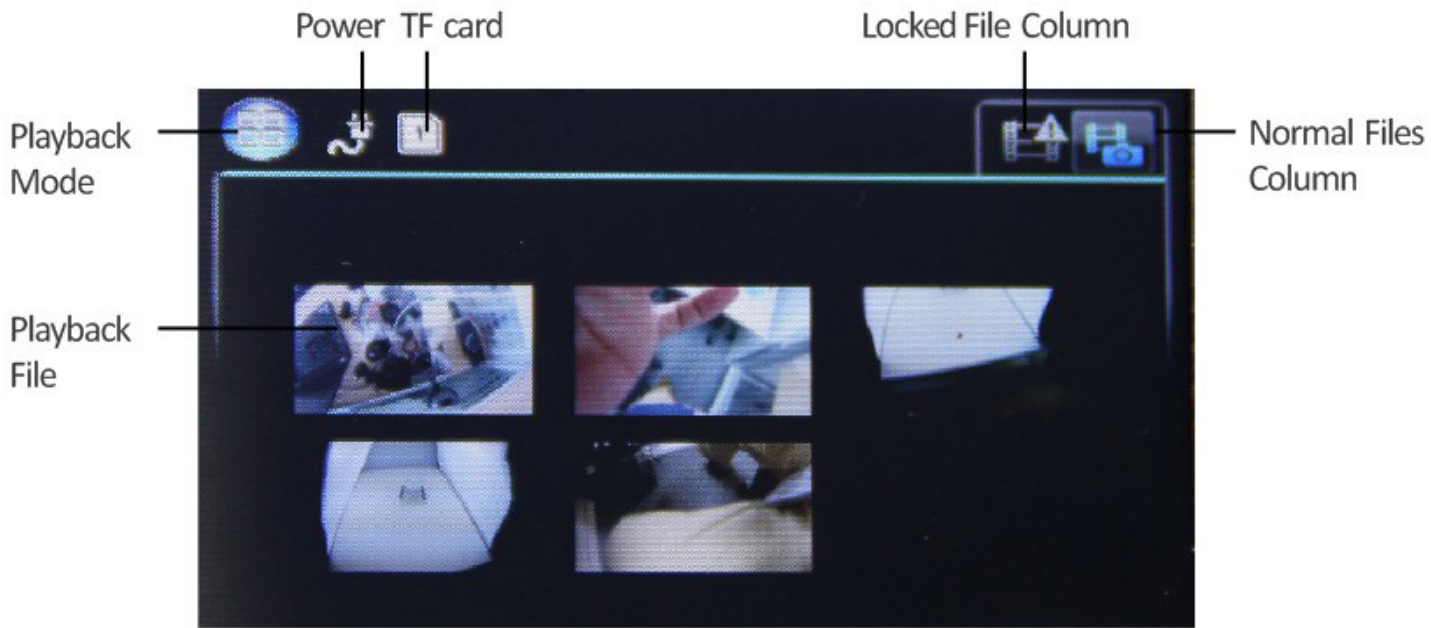
Photo Mode

Press the Mode button to switch to photo mode. There is a camera icon at the top left corner of the LCD to signify you are on photo mode. To take a photo, press the OK button. The screen will flash and make a camera sound when a picture is taken. Pressing the Menu button in photo mode will allow you to adjust the photo resolution, image quality and stamp settings.



Video/Photo Playback

Press the mode button until you get to a black screen with thumbnail representing your recorded files on the SD card. Using the arrow buttons, you can choose between all files or locked files. The locked files column only shows files that have been locked. The normal files column shows all files. Press the OK button to select a column. To select a file for playback, use the arrow buttons to select a file and then press the OK button to play. Pressing the Menu button will give the option to change the playback mode settings or delete the file. Simply press the Mode button again to return to video mode.



Menu Settings

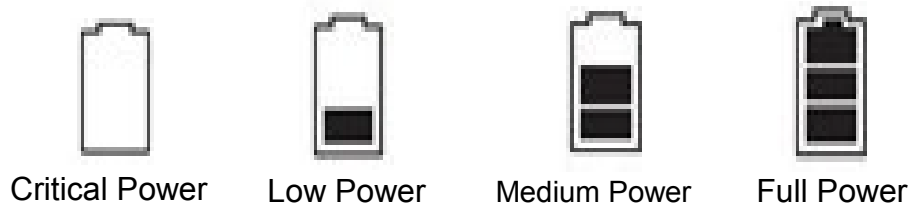
Press the Menu button to get into the menu settings. You can navigate the settings menu by using the Up/Down buttons. To change or edit a selected setting, press the OK button. Press the menu button again to get out of the menu settings.

USB Mode

When connecting a USB cable with the PC, the DVR will automatically go into USB mode. This allows you to transfer your videos to your PC.

Battery Instructions

Please see below illustration for battery the capacity indications.



When the DVR is charging, a red indicator on the DVR glows red. The DVR takes about 3 hours to fully charge. When the DVR hits full charge, the red indicator will turn off.

The DVR can be charged multiple ways:

1. Using the power adapter for charging.
2. Using the provided micro USB cable to connect to a USB interface for charging.
3. Using the provided car charger

Menu setting features explained

Before we begin, firstly there are two things that must be done before using the DVR.

Go into the first menu (**Video menu**) and scroll down using the up/left and down/right arrow buttons on the bottom of the DVR until you get to the 'Motion Detection' setting, now highlighted in blue. When setting is highlighted, press the OK button, on the bottom of your DVR, and select motion detection to '**OFF**'. This feature must be set to 'off' if you wish to use your DVR as a loop recorder/crash DVR.

Second, press the menu button again until the cog in the top right is highlighted in blue (**SETUP MENU**). Scroll down using the up/down arrow keys until '**Auto Power Off Setting**' is highlighted in blue. Then press the OK button to select this setting to '**OFF**'. This feature must be set to off if you wish to use your DVR as a loop recorder/crash DVR as the **Auto Power Off Setting** will turn the DVR off completely and this setting is only meant to work with the motion detect feature.

Your DVR is now in loop record mode and we can go ahead and setup the rest of the menu selections.

Video Resolution: The recommended resolution should be set at 'HDR 1920x1080 30P 16:9' in order to get the best quality footage.

Image Quality: The recommended setting is S.Fine (Super Fine) in order to get the best quality.

Meter Mode Settings: The recommended setting is centre.

Anti-flicker: This feature allows the best recording in conditions where street lights and ac lighting is used. The Australian standard frequency is 50HZ so it should be set to '50hz'.

Stamp Setting: This feature will allow you set whether to have Date, Time and/or Driver ID stamped on all your footage produced by your DVR.

Loop Record Setting: This feature allows you to set the size of the blocks your DVR will record before saving and creating a new block. We recommend the DVR to be set to '3' minute blocks.

LDWS Detect: Set whether you would like Lane Departure Warning System (LDWS) on or off.

LDWS Calibration: Press the arrow buttons to adjust the purple line. To adjust the red line, press the Mode Button. Adjust the red line to edge of the bonnet and the purple line to set the distance to the car in front of you.

G Sensor: This feature allows you to set the sensitivity of the Gravity sensor in the DVR. We recommend this be set to 'Medium' to help stop false or irrelevant readings.

Motion Detect: This feature is for activating you DVRs motion detect feature when you want your DVR to record if it detects movement such as people who are walking past you vehicle or set on when you have your car in an unprotected area.

NOTE: When this feature is activated, your DVR will not loop record and your card will fill up until your DVR says 'CARD FULL'.

Mic: This Feature will allow you to turn the DVRs recording sound on or off. If you want to stop the DVR recording sound in the cab of your vehicle, set this feature to 'off'.

Parkmode: Parkmode is very similar as a G-SENSOR function, but only when the car is motionless, and the car is parked. The DVR will record an incident when the car gets physically knocked or moved.

Press the menu button again until you see the following Spanner and screwdriver. **(SETUP MENU)**

Language Setting: Allows you to choose from a selection of languages that include: English, Simplified Chinese, Traditional Chinese, Russian, Polish, Dutch, Czech and German.

Card Volume: This simply states the total size of your SD card, how much it has used and how much is left.

System Mode: We recommend this be set to 'PAL' as PAL is the Australian standard line frequency and will work on any TV when playing back your footage on TV via provided HDMI cable.

Driver ID Setting: This feature allows you to put the name of the vehicle user or number plate in the DVR. You can adjust this by using the arrow buttons to select the position and then press the OK button to allow you to select the character. You can change the character by using the arrow buttons. Press the OK button again to go back to changing the position. Press the Menu button to finish.

Time Setup: This feature will allow you to change the year, month, day and time. To change the date simply press the OK button on the selected date and then use the arrow keys to go up or down. Press the OK button again save that setting and allow you to move onto the next date.

Format: This feature allows you to format/delete all the files off your micro SD card and also reinstalls your DCIM directory and DVR software on your SD card so the micro SD card can operate with your DVR free of errors.

Default Setting: This feature will reset all your settings and return your DVR to the factory standard settings.

Auto Power Off Setting: This feature will turn you DVR off after 1, 3 or 5 minutes and will turn your DVR off completely so we suggest this feature always be set to **'OFF'**.

BackLight Off Setting: This feature will turn your LCD off after 1, 3 or 5 minutes but will continue to record regardless. This feature is useful for night driving as having the LCD on could be a distraction.

Delay Off: If you want your DVR to keep recording for the specified time of 15, 30 or 60 seconds after you turn your ignition off in your car, then set this feature to either 15, 30 or 60 seconds. If you want your DVR to power off as soon as you turn your ignition off, then set this feature to 'Off'.

Beep Sound Setting: Allows you to turn the beeping sound on or off.

Version Info: This simply shows the firmware/software employed by the DVRs hardware.

Product Specification

Product Feature	HD Camera, HD Recording
G-sensor	Built-in(Used to save the file in case of an emergency, and cannot be deleted if the collision of vehicles happen)
LCD Size	2.7" LTPS LCD 16:9
Lens	170 Degree A+HD Ultra Wide Angle
Language	English/Simplified Chinese/Traditional Chinese/Russian/Polish/Dutch/Czech/German
Video Format	MOV
Video Resolution	21:9 2560x1920 25/30P, 16:9 2304x1296 25/30P, 16:9 1920x1080 25/30P, 16:9 1280x720 50/60P, 16:9 1280x720p 25/30P
Video Codec.	H. 264, Audio: AAC
Loop Recording	Recording with seamless
Auto turn on/off while car power on/off	Supports turn on while car starts and turn off while car turns off.
Motion Detection	Supported
Year/Month/Day/Hour/Minute	Supported
Still images	Photo resolution: 16MP
Photo Format	JPEG
Memory Card	Micro SD (up to 64GB Max)
MIC	Supported
Built-in Speaker	Supported
TV Output	PAL/NTSC
Frequency	50HZ/60HZ
USB Function	1. Storage 2. Charging
Power Interface	5V 1.5A
Battery	180mAh built-in battery

Frequently Asked Questions

Under normal operating conditions, if there are problems with the device, please refer to the following methods to resolve.

Cannot take pictures or record video?

Please check whether there is enough space on the micro SD card or internal storage.

Stopping automatically while recording

Due to the high amount of HD video data being recorded, please use a high speed micro SD card. To tell if you have the required high speed card, check if it has the 'Micro SDHC' logo on the SD card and the C4, C6 or C10 somewhere on the card.



Fuzzy/dirty image

Please check if the lens is filled with dirt or fingerprints and clean carefully. Please clean lens with cloth before shooting.

Horizontal stripes interference in the image

This is due to the wrong setting of light frequency error, please set the frequency to 50HZ as it is the Australian standard frequency.

The DVR is jammed or not responding

Please reset the device by pushing in the reset button on the underside of the DVR.

SD getting full quickly in DVR

Turn off motion detect in the settings menu and then format card.

Why does battery go flat in the DVR?

The DVR's battery must be frequently charged once a week if the car is not in use.

Why does the time and date reset?

The time resets when the DVR's battery is flat. Make sure the DVR is always charged in order to keep date and time.

Why is the battery not charging in the car?

Please check and make sure that there is power in the cigarette lighter socket of your car.

Why does the DVR turn off after 1-5 mins?

Please check the settings and make sure that 'auto turn off' in the menu settings is set to 'off'

Micro SD card not recognised by DVR

Format card in the DVR's menu setting's before use.



Technical Assistance

If you need assistance setting up or using your Gator product now or in the future, call Gator Support.

Australia

TEL: 03 – 8587 8898

FAX: 03 – 8587 8866

Mon-Fri 9am – 5pm AEST

Please retain this user guide for future reference.