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FHD 1080p Driving Recorder

DS231GSW

User Guide

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Federal Communications Commission (FCC) Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this device not expressly approved by ZIMING PLASTIC HARDWARE(SHENZHEN)CO.,LTD.may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement:

The transmitter must not be colocated or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Polaroid, Polaroid Pixel, Polaroid Classic Border Logo, and Polaroid Color Spectrum are trademarks of PLR IP Holdings, LLC, used under license. PLR IP Holdings, LLC does not manufacture this product. Fairyard Enterprises Limited will provide manufacturer warranty and support.

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About this Guide

The content in this document is for information purpose and is subject to change without prior notice. We made every effort to ensure that this User Guide is accurate and complete, however, no liability is assumed for any errors and omissions that may have occurred.

Battery Warning

- Always charge using the provided system. Improper handling of the battery may result in explosion.
- Never dismantle or pierce the battery or allow the battery to short-circuit.
- Batteries may explode if exposed to naked fire. Never dispose of batteries in a fire.
- Disposed of used batteries observing local regulations.
- Never replace the battery on your own, have the dealer do it for you.

Notes on Installation

- This product shall be installed near the rear view-mirror, at the center of windshield, if possible, for optimal viewing.
- Make sure that the lens is within the wiping range of the windscreen wiper to ensure a clear view even when it rains.
- A protective film on the lens will affect the video or photographic effect, remove the protective film before using the device.
- Do not touch the lens with your fingers. Finger grease may be left on the lens and will result in unclear videos or snapshots. Clean the lens on a regular basis.
- Do not install the device on a tinted window. Doing so may damage the tint film.
- Make sure that the installation position is not hindered by the tinted window.
- To use the contained car power adaptor only. In order to avoid equipment burn or cause the battery explosion, please do not use other brand car power adaptor.

Do not attempt to disassemble or alter any part of the device that is not described in this guide.

Caution

- Due to local laws and vehicles safety considerations, do not operate the device while driving.
- Set up time and date accurately before you use this device.
- This product gets warm when in use, this is normal.
- Do not place the device near a heat source or directly expose it to flame or heat.
- Never place the device in vicinity of equipments generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or data corruption and loss.
- The system is used only for non-commercial use, within the maximum limits permitted by applicable law. Our company does not accept any responsibility for any data loss during the operation.
- Improper use or operation of the product may result in damage of the product or its accessories and void the warranty.

Before you start using the system, it is assumed that you agree to the above statement.

1 Introduction

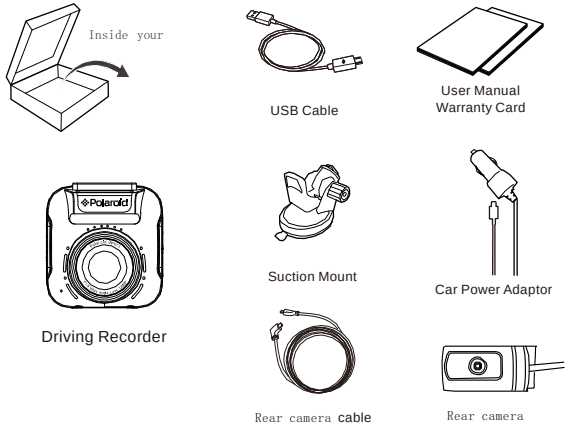
Thank you for purchasing this advanced Driving Recorder. This device is specifically designed for real time video and audio recording.

1.1 Features

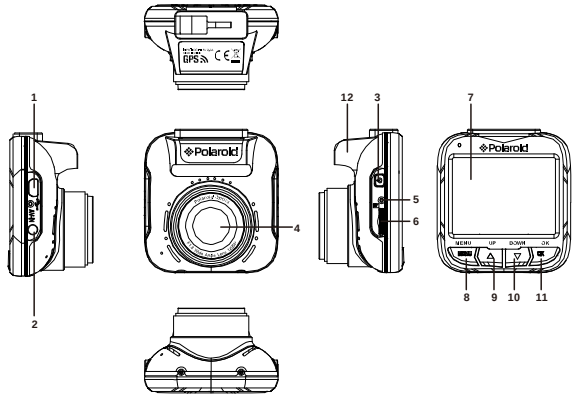
Full HD 1080p Driving Recorder
2.3" TFT Display
G-sensor Collision Recording Protection
Seamless Loop Recording
Support up to 128GB Micro SD Memory Card
Support GPS Journey Tracking

1.2 Package Contents

The package contains the following items. In case there is any missing or damaged item, contact your dealer immediately.



1.3 Product Overview

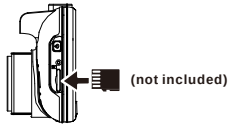


1	USB port	7	LCD
2	2.5mm headphone Interface Block	8	Menu/Mode button
3	Power button	9	Up button
4	Lens	10	Down button
5	Reset button	11	REC/OK button
6	TF Card slot	12	GPS

2 Getting Started

2.1 Inserting the Memory Card

Follow the direction indicated by the silk printing on the device to insert the memory card, a click sound is heard indicating the card is in position .

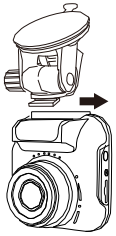


To remove the memory card, push to eject the memory card out of the slot.

Note:

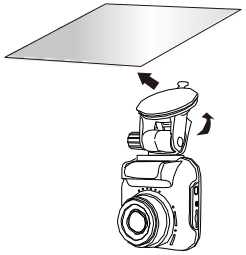
1. Do not remove or insert the memory card when the device is turned on. This may damage the memory card.
2. Please use a Class 6 or higher rating Micro SD card, max. up to 32GB.
3. Please format the micro SD card before the initial use.
4. When removing the memory card, be careful that the card may spring out and get lost. The memory slot has this spring-out feature for easy removal of the card.

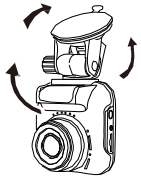
2.2 Installing in Vehicles



← Push the head of the mount into the device slot, make sure the mount is securely locked in place.

→ Remove the protective film from the suction cup, with the suction-cup laying flat, position the suction-cap on the windshield, and then press down the clamp to mount the holder to the windshield. Make sure the base is securely locked in place.



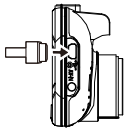


← Loosen the knob to swivel the device vertically. Locking knob, and confirm that the device is securely locked in place.

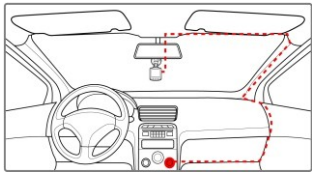
→ Rotating the device to have proper view.

2.3 Connecting to Power
Use only the attached car power adaptor for activating the device and charging the built-in battery.

1. Connect one end of power connector to USB port on the device.



2. Plug the other end of the power adapter to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the device automatically turns on.



2.4 Powering the Device On / Off
2.4.1 Auto Power On / Off
Once the vehicle engine is started, the device automatically turns on and recording (must have SD Card). After the car engine stopped, the device will automatically save the last recorded file and shutdown.

2.4.2 Manual Power On / Off and Reset
2.4.2.1 Manual Power On / off

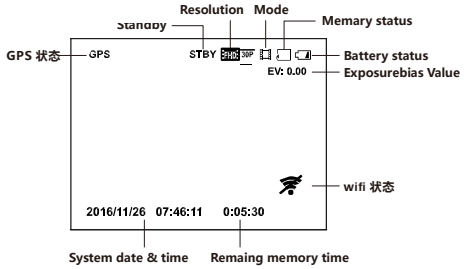
Press Power button ⏻ to turn it on. To power off the device press the Power button ⏻ with 3 seconds.

2.4.2.2 Reset the Device
In case the device fails to function normally due to unknown causes, press the Power button ⏻ with 10sec to restart the device.

2.5 Set the Date / Time
To set the correct date and time, press **Menu button** MENU to enter the menu setting, then press **Menu button** MENU change to General Settings Menu , then press **Up / Down button** ▲▼ to select Clock settings, press **REC button** OK to enter date / time setting, then press **Up / Down button** ▲▼ to adjust the value, press **REC button** OK switch to next setting, after finished all the settings, press **REC button** OK to back General Settings Option, press **Menu button** MENU to exit from menu setting.

2.6 Mode Selection
The default setting is **Video Mode** , Long press **Menu button** MENU can switch to **Still Capture** Mode , Video **Playing** Mode , **Picture viewing** Mode .

3 Using the Driving Recorder
3.1 Recording Videos
Before starting recording, please insert a SD card into the TF card slot. Press **REC button** OK to start recording, the video recording icon ● flashes on the screen. The recorded files are saved on the TF card. To stop recording, press **REC button** OK again.
With car power adaptor connected the device will automatically turn on and start recording when the car engine starts. When the engine stops, the device will automatically save the last file and turn off.



3.1.2 A Key Protection

During recording, press **Menu button** MENU to protect current video, the lock icon appears on the screen, the current movie clip will be protected and cannot be replaced (the default setting for a movie clip is 3-minute), the next movie clip will unlock automatically and can be replaced if the SD card is full.

3.1.3 Motion Detection

3.1.3.1 enter to General Settings to activate Motion Detection function(the default setting is Off, choose Low / Middle / High to activate the unction);

3.1.3.2 Set motion detection recording time in recording menu to select 5mins/10mins/30mins.

3.1.3.3 Long press Up button ▲ to enter motion detection mode on movie mode, the motion detection icon appears on the right side of the screen and start count backwards 10 seconds, then standby for detection, it will recording automatically once the device detected any motion in front of lens within 2.5m. The recording time depends on the

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Motion event REC time and the default setting is 5 second. The device will start next 5 second recording if any motion detected, press any button can

3.1.4 G-sensor Collision Recording Protection

When a collision is detected while recording, the default setting is the lock icon will appear on the right corner of the screen, then the current movie clip will be protected automatically and cannot be replaced.

3.1.5 Audio On / Off

During recording, press **Up button** ▲ can turn Off / On the audio.

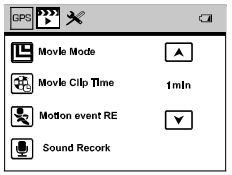
3.1.6 Front and Rear Camera Swich

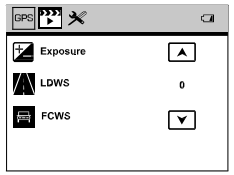
Recording mode, press down button ▼ can be switched front and rear camera.

3.1.7 Video Menu Operation

Press **Menu button** MENU to enter menu setting, press **Up / Down button**▲▼ to select sub menu, then press **REC button** OK to enter the setting, press **Up / Down button** ▲▼ to select the option, and then press **REC button** OK confirm. After finished the setting, press **Menu button** MENU third to exit menu setting.

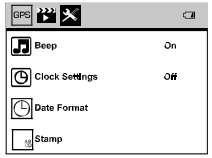
3.1.8 Movie Mode Menu Options

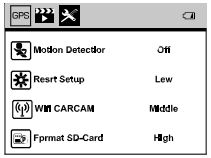


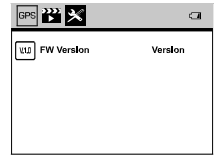


Main Menu	Function List	Description	Available Option
Movie Mode	Movie Mode	Setting for video resolution.	1920*1080 30fps 1280*720 30fps
	Movie Clip Time	Setting for enabling automatic loop record and the movie clip time. **Off** - The recording will stop when the SD card is full. **1 Minute/2 Minutes/3 Minutes** - Select to limit recording time per file. 3 Minutes, for example, the recording time for per file is 3 minutes. If 21 minutes of video is recorded, then 7 files of 3 minutes in length is created.	Off/1min/3min/ 5min/10min
	Motion event RE	Setting the recording time for detected motion in front while standby.	5sec/10sec/30sec
	Sound Recork	Setting for the indication of date and logo stamp on the video recorded. **ON** - Date and logo is displayed on the video. **Off** - No date or logo is displayed on the video.	On/Off
	Exposure	Manual compensation for low or bright light levels. The more negative "-" in scale, the darkerthe recorded video appears. The more positive "+", the lighter the recorded video appears. 0 is the neutral setting for this option and is the default value.	+2.0/-1.7/-1.3/-1/ -0.7/-0.3/0/+0.3/ +0.7/+1/+1.3/ +1.7/+2.0
	LDWS	Lane Departure Warning Systems **Off** - No warning tone when lane departure. **On** - When the GPS is positioned, driving speed of 60km / h or more, there will be warning when the deviation from the lane.	On/Off
	FCWS	Forward Collision Warning Systems **Off** - No warning tone when collision occur. **On** - When the GPS is positioned, driving speed of 60km/h or more, there will be warning when the distance less than 20 meters from front vehicle.	On/Off

3.1.9 General Settings Menu Options







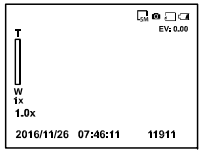
Main Menu	Function List	Description	Available Option
General Settings Menu	Beep	Setting for enable / disable the beep. **On** - Select this to enable audible beeps when setting the menu options. This is the default setting for this option. **Off** - Disables the audible system beeps.	On/Off
	Clock Settings	Set the system date & time.	
	Date Format	Set the format of the date or no stamp to show on the file.	YYYY MM DD/ MM DD YYYY/ DD MM YYYY
	Stamp	Setting for the indication of date and logo stamp on the video recorded. **Off** - No date or logo is displayed on the video. **Logo** - Only logo is displayed on the video. **Date** - Only date is displayed on the video.	Off / Date / Logo / Date+Logo
	Language	Select the desired OSD language.	English / 繁体中文 / 简体中文 /Russian
	Flicker	Set the suitable frequency.	50HZ/60HZ
	LCD Power Save	Manage the backlighting and presentation of the LCD. It is advisable to enable this feature to preserve battery power. **Off** - Select to disable power saving for the LCD. This is the default setting for this option. **1min/3min** - The driving recorder will automatically shut down the LCD after	Off / 1min / 3min
	Protect Level	Setting for the sensitivity of G-sensor to detect collision to protect the recording video. **Off** - Disable the G-sensor function. **Low/Medium/High** - The higher sensitivity the collision will be detectedeasier.	Off/High/Middle/Low

Motion Detection	Setting for activating the motion detection and the sensitivity. **Off** - Disable the motion detection. **Low/Middle High** - Select to enable the motion detection and the sensitivity.	Off/High/Middle/Low
Resrt Setup	This option sets the driving recorder to the original factory default settings.	Yes/No
WiFi CARCAM	Turn On/Off Wi-Fi hotspot.	On/Off
Fprmat SD-Card	Formats the inserted micro SD card. **YES** - Selecting this option completes the format process. **NO** - Select this to abort the format and return to the previous menu. **Warning**: ALL Video and photo les are be permanently deleted and CANNOT be	Yes/No
FW Version	This option displays the current firmware number of the driving recorder. This information may be important for service and support	

3.2 Taking Picture

To take a picture make sure the Still Capture Mode is selected. Press the REC button OK to take a photo. Taken photos are saved on TF Card.

3.2.1 Still Capture Screen



	5M			T W 1x 1.0x	2016/11/26 07:46:11	11911
Still Capture Mode	Resolution	SD card status	Battery Status	Zoom in/out	Date/Time	Remaining numbers to take photo

3.2.2 Zoom in / out

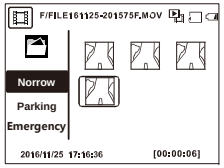
On the still capture mode, press **Up/Down button** ▲▼ to zoom in / out.

3.3 Playback Mode

3.3.1 Playing Videos

Long Press **Mode button** MENU switch to videos view mode, press **Up / Down button** ▲▼ to select the video to play, press **REC button** OK to playing mode, then press **REC button** OK again to start playing video. Press **REC button** OK can pause the playing, press **Mode button** MENU to back videos view mode, then press **Mode button** MENU again to back video recording mode.

3.3.2 Play Video Screen



	Norrow Parking Emergency	F/FILE161125-201575F.MOV	2016/11/25 17:16:36	[00:00:06]
Video Icon	Video Folder **Normal** - Save the normal traffic recording video, can be recycled, can be deleted. **Parking** - Save the motion detection video, can be recycled, can be deleted. **Emergency** - Save manual protected video and G-sensor protected video, cannot auto recycled and deleted.	File name	Date/Time	Record Time

3.3.3 Video Switch between the Front and Rear

Long press the Menu key **MENU** can switch between the front and rear camera for watching.

4 GPS Function

This product built-in GPS module, power on and waiting for 1 minute in outdoor, when GPS word on preview screen turned green, it means that the signal has been received, the recorded video can be tracked at this time.

4.1 GVP Player Operating Instructions:

Users can install the player directly on the computer with the accessory disc. When GPS is properly positioned, the information such as longitude and latitude provided by GPS will be recorded in the video of the product. When using GVP player, the player will play the video and also the latitude and longitude information link Google map / Baidu map shows the corresponding map location.

4.2 GPS Abnormal Warning Condition

4.1.2 GPS Abnormal prompts caused may by:

1. Adjacent lane spacing less than 50 meters.
2. Fixed camera removed but still prompted (notify seller or online feedback).
3. When the front corners have a fixed camera.
4. Continuous speed point spacing is less than 100 meters.
5. There is a fixed camera at the exit of the tunnel.
6. Multi-viaduct overlap.

Above six cases the system may be false positives, please pay attention to identification.

4.2.2 Impact of satellite signal reception are:

(1) Basement or tunnel (2) Under the viaduct

(3) Around High-rises (4) In the jungle or valley

Above four cases the product may not receive satellite signals or weak signal, please pay attention to driving according to regulations, in order to avoid security accidents or be photographed.

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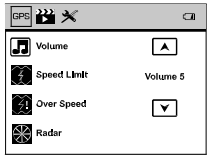
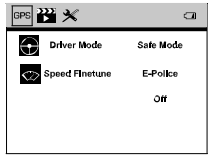
5 Warning Radar Setting





Main Menu	Function List	Description	Available Option
GPS GPS	Volume	Set the beep volume.	Off/Volume1-8
	Speed Limit	Set speed limited prompt **Off** - No warning tone during over speed **20km/h - 100km/h** - When the speed exceeds. **20km/h** - 100km/h there will be a warning tone.	Off/20km/h—100km//h
	Over Speed	Set the speed at which the over speed warning tone.	Off/40km/h-160km/h
	Radar	Set the radar detection sensitivity	High/ Super High/ Auto/ Off
	Driver Mode	Set a fixed point broadcast mode. **Nomal** - Broadcast fixed point and radar. **Electronic eyes** - Only broadcast speed test type and radar at fixed point, do not broadcast security type fixed point.	Safe Mode/ E-Police/Off
	Speed Finetune	Adjust the error data between the GPS positioning shows the current speed and each brand car dashboard display speed.	-6---6

6 Connecting WIFI

The camera's built-in Wi-Fi allows you to connect to the smart phone/tablet via the App. the specific steps are as follows:

1. Install App on your phone or tablet computer.

1.1 Android system can search keywords "wifi camera app" to download and install on Google Play, 360 mobile guards and other security market.

1.2 IOS system can search keyword "wifi camera a" to download and install on APP Store.

2. Turn on the recorder and then turn on the Wi-Fi, use mobile phones or flat-panel search for this Wi-Fi hotspot to connect;

Hot Name: SD_CarDV_WiFi

Hotkey Password: 1234567890

3. After the connection and then open the APP, you can use the app to remote control and set the function.

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7 Technical Specifications

LCD display	2.3" color TFT screen
Image sensor	4.0MP, 1/2.7" CMOS sensor
View angle	130°
Video resolution	1920*1080 30fps 1280*720 30fps
Photo resolution	5M
Video format	MOV
Photo format	JPG
Memory	Support Class 6 or higher rating Micro SD card, maximum up to 128GB
Microphone	Built-in
Speaker	Built-in
G-sensor	Yes
Power source	Built-in battery, car power adaptor
GPS	Positioning accuracy ≤ 10; Receiving sensitivity -159dB; Positioning time average cold start 42S/warm start 28S/hot start 1S; Receive frequency 1.57542GHz
Interface	Micro USB port, TF card slot
Operating temperature	0°~ 45° C
Dimensions	
Weight	