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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.

The manufacturer reserves the right to change the technical specifications without prior notice.

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 equipment 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

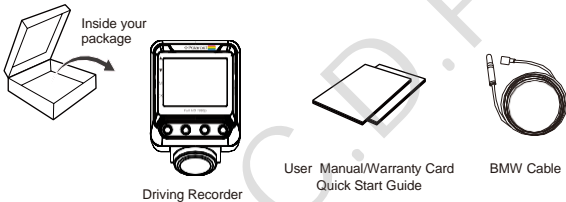
Thank you for purchasing this advanced Driving Recorder. This device is specifically designed for real time video and audio recording.

1.1 Features

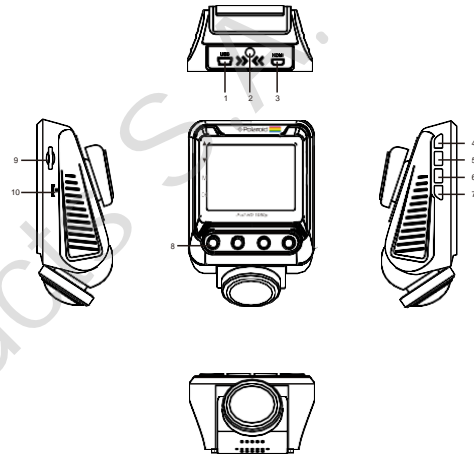
- Full HD Panoramic Driving Recorder
- FHD 1920 X 1080p @30fps
- 5 Mega pixel CMOS Sensor
- 2.5" LCD color screen
- 360° Panorama, 360° dual screen mode, 220° wide angle lens, F/1.8
- Built in Wi-Fi function
- 3-Axis G-Force sensor
- Built in WDR (Wide Dynamic Range)
- Super night vision function
- Seamless looping recording
- Motion Detection
- Support Parking Mode (24hrs)
- Support up to 64GB Class 10 Micro SDHC
(Suggest to use Micro SDHC 95 MB/s R, 60 MB/s W)

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

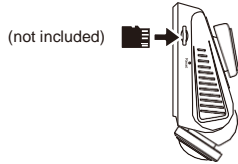


1	USB Slot	6	Menu / Mode button
2	Power-line export	7	REC / OK button
3	HDMI	8	IR LED
4	Lens Up button	9	TF Card slot
5	Down button	10	Reset button

2 Getting Started

2.1 Inserting the Memory Card (not included)

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



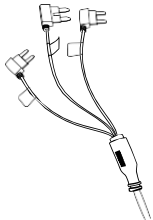
To remove the memory card, push to eject the memory card out of the slot.

Note:

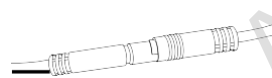
1. Do not remove or insert the memory card when the device is turned on.
This may damage the memory card.
2. Please use a Class 10 or higher rating Micro SD card, max. up to 64GB.
(Suggest to use Micro SDHC 95 MB/s R, 60 MB/s W)
3. Please format the micro SD card before the initial use.
4. When removing 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

2.2.1 Connecting to Power (Recommend for professional installation)

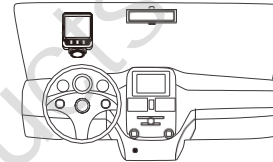


← Yellow wire (BAT+) connect to the vehicle's battery anode.
Red wire (ACC) connect to ACC.
Black wire (GND) connect to ground.



← Connect the male connector to the female connector.

2.2.2 Installing in Vehicles



← Tear off 3M sticker and glue to the front glasses, adjust the lens adown, make sure the LCD shows front view and left / right / rear windshield under 360° dual screen mode.

2.3 Powering the Device On / Off

2.3.1 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 change to parking mode.

2.3.2 Manual Power On / Off and Reset

2.3.2.1 Manual Power On / off

Long press OK button **OK** to power on,
long press the OK button **OK** for 3 seconds to power off.



2.3.2.2 Reset the Device




In case the device fails to function normally due to unknown causes, press the reset button waiting or power off, and then long press **OK** button **OK** for 3 seconds power on.



2.4 Set the Date/Time


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

2.5 Mode Selection

The default setting is **Video Mode** , Long press **Menu** button **OK** can switch to **Still Capture Mode** , **Playback Mode** .

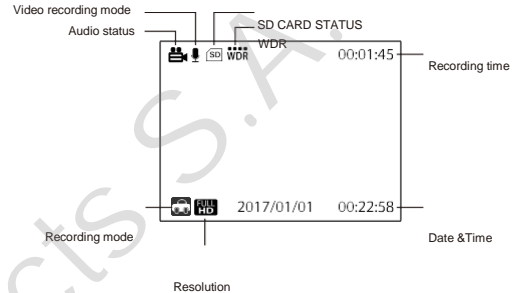
3 Using the Driving Recorder

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 change to parking mode.

3.1.1 The Recording Screen



3.1.2 A Key Protection

Start a key protection function, do the following:

During recording, press **Menu** button **M** to protect current video, the **lock** icon  will be shown immediately on the screen, the current video is created as a new file, which will be protected to avoid being overwritten by normal cycling recording. (The default setting for a video is 3 minutes), the next video will unlock automatically and can be overwritten by normal cycling recording if the SD card is full.

3.1.3 Parking Mode

3.1.3.1 When the vehicle engine is turned off, the camera will automatically switch to the parking surveillance mode.

3.1.3.2 The display prompts to switch to 360° dual screen mode and a "P" word will appear in the lower left corner of the display.


3.1.3.2 Manually rotate the lens adown, it will start to record 360° dual screen parking surveillance video with 5 frames per second.

3.1.3.3 In dark environment, the camera will automatically turn on the infrared LED to fill light, and switch to black and white video recording.


3.1.3.4 When the vehicle battery voltage is at 12V, it will automatically protect the current video and power off, in order to save enough battery to start the vehicle.

3.1.3.5 Every hour has beep sound to remind driver while recording.

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 video protected automatically and cannot be overwritten by normal cycling recording.


3.1.5 Switch Recording Mode

Press **up** button  to switch between 360° dual screen mode and 220° ultra-wide angle mode.







3.1.6 Audio On/Off

In the video mode, press **down** button  can turn off / on the audio.

3.1.7 Turn on the Wi-Fi

In the video mode, long press **down** button  can turn On / Off the Wi-Fi.


3.1.8 Video Menu Operation

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


3.1.9 Video Mode Menu Options



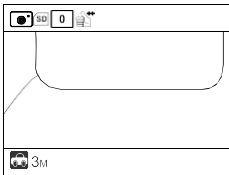
Main Menu	Function List	Description	Available Option
Setting	Mode	Setting for video mode.	2 in 1/ Panorama 220 / Round Mode
	Loop Record	Setting for enabling automatic loop record and the video time. Off - The recording will stop when the SD card is full. 1 Minute / 3 Minutes / 5 Minutes - Select to 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
	G-sensor	Setting for the sensitivity of G-sensor to detect collision to protect the recording video. OFF - Disable the G-sensor function. Level1-Level4 - The higher sensitivity the collision will be detected easier. The default setting is Level4.	OFF / Level1 / Level2 / Level3 / Level4
	Date&Time	Set the date and the time. Change the format of the date and time is displayed on the screen: YY/MM/DD - Year, Month, Day MM/DD/YY - Month, Day, Year DD/MM/YY - Day, Month, Year	YY/MM/DD / MM/DD/YY / DD/MM/YY
	Screen 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 mode for the LCD. This is the default setting for this option. 1 Minute / 3 Minutes / 5 Minutes - The driving recorder automatically powers off the LCD after 1 Minute / 3 Minutes / 5 Minutes of inactivity or during video recording. Note: If enabled, the driving recorder continues to record video even when the LCD is shut off. Press any button to power up the LCD.	OFF / 1minute / 3minutes / 5minutes
	Language	Select the desired OSD language.	
	MIC	Setting for activating audio in the video On - This enables the audio recording. This is the default setting for this option. Off - This records video without audio .	On / Off
	Format	Formats the inserted micro SD card. Yes - Selecting this option completes the format process. Exit - Select this to abort the format and return to the previous menu. Warning: ALL Video and photo lens are be permanently deleted and CANNOT be recovered once the memory card is formatted .	Yes / Exit







	 Default setting	This option sets the driving recorder to the original factory default settings. And displays the current rewre number of the driving recorder. This information may be important for service and support communications.	Yes/Exit
--	------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

3.2 Taking Picture

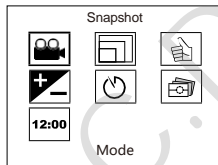
To take a picture make sure the **Capture Mode**  is selected. Press the **REC** button **OK** to take a picture. The pictures are saved in TF Card.

3.2.1 Capture Screen



					
Capture Mode	SD CARD STATUS	Exposure Value	Photo Quality	Record Mode	Resolution

3.2.2 Capture Menu Options



Main Menu	Function List	Description	Available Option
Snapshot	Mode	Setting for video mode.	2 in 1/ Panorama 220 / Round Mode
	Resolution	Set the photo resolution.	12M / 8M / 5M / 3M
	Quality	Set the photo quality. Excellent - This option generates the best quality for the picture. Good - Normal quality. Normal - Poor quality.	Excellent / Good / Normal
	EV	Manually compensate for low or bright light levels. The more negative "-in scale, the darker the Photo appears. The more positive "+", the lighter the recorded video appears. 0 is the neutral setting for this option and is the default value.	-2~2
	Self Snapshot	Set the shooting time. Off - The drive recorder will taking picture at once. 3 seconds / 5 seconds / 10 seconds - The driving recorder will taking picture in 3 seconds / 5 seconds / 10 seconds.	Off / 3 seconds / 5 seconds / 10 seconds
	Photo Burst	Set to activating burst shooting Off - Disable to burst shooting photos. This is the default setting. 3 Image / 5 Image / 10 Image - Enable the driving recorder to burst shooting 3 Image / 5 Image / 10 Image.	Off / 3 Image / 5 Image / 10 Image
	Time Stamp	Setting for the indication of date and time stamp on the pictures. Off - No date or loop is displayed on the photo. Date - Only date is displayed on the photo. Date / Time - Date and time is displayed on the photo.	Off / Date&Time / Date

3.3 Playback Mode

3.3.1 Playing Videos

Long Press **Mode** button **M** switch to playback mode, press **Up / Down** button **▲▼** to review videos, press **REC** button **OK** to playing video, then press **REC** button **OK** to pause the playing, press **Mode** button **M** to stop playing.

3.3.2 Play Video Screen



		20170301_151643.mp4	00.05
Video	Video folder	File name	Record Time

3.3.3 Viewing Pictures

In the Playback mode, Press **Menu** button **M** to enter menu setting, and press **Up / Down** button **▲▼** to select Folder, hen press **OK** button **OK** to enter sub menu, press **Up / Down** button **▲▼** to select snapshot file.

3.3.4 Playback Menu Options



Main Menu	Function List	Description	Available Option
Playback		Folder Select - Select Normal/Event/Snapshot file. Normal - Store normal cycling recording videos. Can be overwritten. Even - Store A key protection videos and G-sensor protected videos, cannot be overwritten. Snapshot - Store the pictures.	0-10
	Folder Select		

	Delete File	A single video or photo to be deleted from the micro SD memory card per action.	
	Delete Folder	Delete the folder include normal / event / snapshot.	

3.3.5 Deleting Files

Long press **mode** button **M** switch to Playback mode press **Menu** button **M** to enter Playback menu press **Up / Down** button **▲▼** to select Delete, then press **OK** button **OK** to select Delete Current, press **OK** button **OK** to enter sub menu, press **Up / Down** button **▲▼** to select OK, then press **OK** button **OK** to confirm the erase.

To delete all the files in the SD card, including videos, pictures and any other files, please format the SD card.

Note: Deleted files cannot be recovered. Ensure the files have backup before deletion.

4 HDMI Interface

Connect the device to the high definition Television Set by the HDMI cable, switch the TV set to the HDMI status. In this case, the LCD will be turn off, all the operation manual and display will be showing in the TV screen. However, the operation procedure will all be the same as the display showing in the LCD screen.

5 Wi-Fi Connecting

The camera built-in Wi-Fi allows you to connect to your mobile devices via the App. The specific steps are as follows:

1. Install the App on your mobile devices.

1.1 Android system search keywords "OTCam" to download and install on Android market, Baidu mobile guards and other security market.

1.2 IOS system search keyword "OTCam" to download and install on APP Store.

1.3 Power on the camera and turn on Wi-Fi, search the hotspot ID from Wi-Fi list

in your mobile devices and then enter the password to connect it.

Hotspot ID: DVR360-WIFI

Hotspot password: 87654321

Open the App after connection, then you can control the camera through your mobile devices.

6 Specifications

LCD display	2.5"IPS high definition panel
Image sensor	5MP COMS Sensor
View angle	360° Panorama, 360° dual screen mode, 220° wide angle lens, F/1.8
Video resolution	1440 x 1080 30fps 1920 x 1080 30fps
Photo resolution	3M
Video format	MP4
Photo format	JPG
Memory	Support up to 64GB Class 10 Micro SDHC
Microphone	Built-in
Speaker	Built-in
G-sensor	Yes
Power source	BMW Cable 12V Power supply
Video compression	H.264
Wi-Fi	Support (802.11b/g/m)
Interface	Mini USB port, TF card slot, HDMI
Operating temperature	0°- 45° C
Dimensions	69x104x52mm

7 Frequently Asked Questions

7.1 Micro SD card does not display or cannot read.

- Make sure using class 10 (on or above) Micro SD card.
- Format Micro SD card before using.

7.2 Cannot power on or crash.

- Check the power connection ensure the indicator light of car charger turns on, connect to the camera charging about 30 minutes.
- Remove the Micro SD card and reset the camera, then press power button power on the camera.

7.3 Automatically stops recording when recording.

- Check whether the video recorded in the camera playback mode is fully protected.
- Make sure cycle recording function has been set, and Micro SD card has been formatted.

7.4 The camera preview screen has horizontal streak interference.

- According to the local power supply frequency, set the corresponding 50HZ or 60HZ.
- It is a normal phenomenon that in the event of generator power generation may lead to horizontal streak more obvious.

7.5 When computer plays recorded videos, the video is not coherent.

- Copy the recorded videos from Micro SD card to the computer hard drive.
- Replace the Micro SD card according to the actual situation.

7.6 The recorded video is fogged.

- Check the lens film is take off, or the lens or windscreen of vehicle may not clean. If the problem remains, try to restart the camera. The problem is still not resolved, then please contact our authorized dealers.

7.7 When connect to Wi-Fi the camera temperature rise up is normal phenomenon.

Friendly reminder: If the problem cannot be solved, please contact our authorized dealers will provide after-sales service to customers directly, including return, replacement and technical support.