

Battery Warning

- ❖ Never dismantle, crush, or pierce the battery, or allow the battery to short-circuit. Do not expose battery being placed in high temperature environment, if battery leaks or bulges, stop continue to use.
- ❖ Always charge using the system. Risk of explosion if battery is replaced by an incorrect type.
- ❖ Keep the battery out of reach of children.
- ❖ Batteries may explode if exposed to open fire. Never dispose of batteries in a fire.
- ❖ **Never replace the battery on your own; have the dealer do it for you.**
- ❖ Disposed of used batteries observing local regulations.

Notes on Installation

1. Please measure the front windshield viewing area, make sure not to block driver's front view, install the camcorder below the rearview mirror (the central, higher right position of the front windshield). And we recommend that the sky and the land occupied by the screen 50%, fix the car holder and then adjust the camcorder so that the lane is aligned with the screen. Proper installation enables the camcorder to maximize the efficiency also can enhance the accuracy of LDWS.
2. Make sure that the lens is within the wiping range of the windscreen wiper to ensure a clear view even when it rains.
3. Do not touch the lens with your fingers. Finger grease may be left on the lens and will result in unclear videos or pictures. Clean the lens on a regular basis.
4. Do not install the camcorder on a tinted window. Doing so may damage the tint film.
5. Make sure that the installation position is not hindered by the tinted window.
6. This product is suitable for light windshield or light color heat-resistant film windows, it will affect video quality if install it on the dark windows or dark heat-resistant film windows.
7. Use the products of the attached power charger only, please do not use other brand power charger, in order to avoid equipment burn or cause the battery explosion.

For more operation details, please refer to CD-ROM.

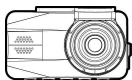
1 Introduction

Thank you for purchasing this advanced Car Camcorder. This product is specifically designed for real time video recording when driving. It also supports a HP rear camera. You might ask distributor for further information.

1.1 Package Contents

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

Car Camcorder



Bracket



CD-ROM



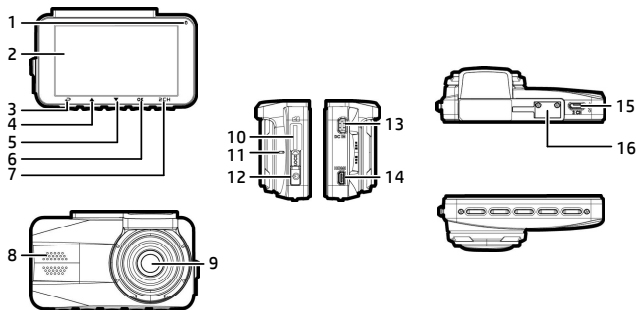
Quick Start Guide



Car Adapter



1.2 Product Overview



No.	Item
1	LED Indicator
2	LCD Color Screen
3	Menu / Back Button (☰ / ↩)
4	Add Speed Point / Up Button (📍 / ▲)
5	Snapshot / Down Button (📷 / ▼)
6	Emergency Recording / Confirm Button (⚠ / ⏹)
7	Switch Camera Button (🔄)
8	Speaker

No.	Item
9	Wide Angle Lens
10	Memory Card Slot
11	Microphone
12	Power Switch
13	Power Connector Port
14	HDMI Connector Port
15	Micro USB Connector Port
16	Bracket Socket

Note:

Please press the button (3~7) according to the diagram notice shown on screen.

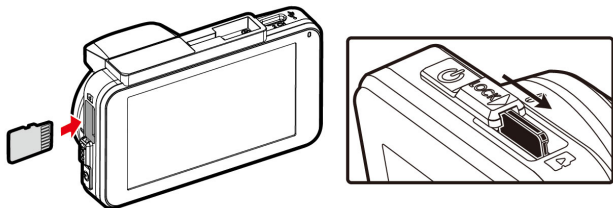
2 Getting Started

2.1 Storage Media

2.1.1 Insert the Memory Card

Insert memory card with the pins facing forward and the screen of the camcorder facing forward too, see the picture as below:

Also, insert the SD card into the camcorder until the lock can be smoothly slid. Card will be protruding in normal use, and damage may occur if pressed too hard. Please read the instructions carefully on the screen layer.



2.1.2 Remove the Memory Card

If the camcorder is power on, please power off first and wait for the procedure of switching off the camcorder completed before removing the memory card.

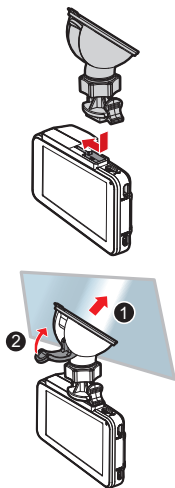
Note:

1. Do not remove or insert the memory card when the camcorder is turned on. This may damage the memory card.
2. Support SDHC class 10 and memory storage 16GB or above (support up to 32GB).
3. Please format the microSD cards before the initial use. The formatted file type for this camcorder is FAT32 file.

2.2 Installing in Vehicles

2.2.1 Mount the Camcorder to Windshield

1. Push the bracket into bracket slot on top of camcorder until a click sound is heard.
2. Connect the power cable then power on to enter preview screen and confirm the field of view. Then clean the surface of the windshield with alcohol to ensure that the adhesion surface is clean.
3. Remove the protective layer on the bottom of the bracket.
4. Release the lever of the bracket, install the bracket onto the windshield, then lock the lever to complete the installation.
5. Make sure the bracket is firmly installed onto the windshield.

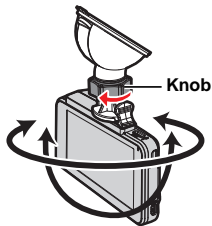


Note:

1. Do not install the camcorder on a tinted window. Doing so may damage the tint film.
2. This product is suitable for light windshield or light color heat-resistant film windows, it will affect video quality if install it on the dark windows or dark heat-resistant film windows.
3. Remove the protective layer on the bottom of the bracket.

2.2.2 Adjust the Camcorder

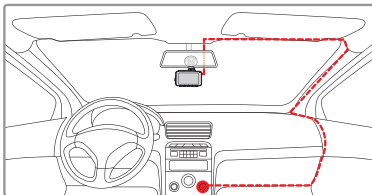
1. Loosen the knob to swivel the camcorder vertically or horizontally.
2. Then tighten the knob to make sure the camcorder is securely locked in place.



2.3 Connecting to Power

Use only the attached power connector for activating the camcorder and charging the built-in battery.

1. Connect one end of power connector to power connector port on the camcorder. USB port input: DC 5V / 1.0A.
2. Plug the other end of the car adapter to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the camcorder automatically turns on. Car charger input: DC 12 / 24V.




Note:

Please measure front windshield viewing area, so as not to block the driver's field of view, and install the camcorder under the driving mirror (upper central of the front windshield). And we recommend that the sky and the land occupied by 50% in the recording screen, please adjust the camcorder so that the alignment icon is aligning the driving lane. Proper installation enables the camcorder to maximize the efficiency and improve the accuracy of LDWS.

2.4 Initial Settings







Before using the camcorder, we recommend you setup the correct **Time zone, Date and Time**.

Note:

Please note that if you press the  button during recording, the system will stop recording and enter OSD menu. Make sure the recording is already stopped then continue operating the menu.

2.4.1 Set Time zone

To set the time zone, do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **Set Time zone**, and then press the  button for entering function menu.
3. Press the  button to set the current time zone, and then press the  button to complete setting.
4. Press the  button to return to recording screen.



City	UTC	City	UTC	City	UTC	City	UTC	City	UTC
Accra	0	Budapest *	+1	Houston *	-6	Melbourne	+10	Santiago	-4
Addis Ababa	+3	Buenos Aires	-3	Indianapolis *	-5	Mexico City *	-6	Santo Domingo	-4
Adelaide **	+9	Cairo	+2	Islamabad	+5	Miami *	-5	São Paulo	-3
Algiers	+1	Calgary *	-7	Istanbul *	+2	Minneapolis *	-6	Seattle *	-8
Almaty	+6	Canberra	+10	Jakarta	+7	Minsk	+3	Seoul	+9
Amman *	+2	Cape Town	+2	Jerusalem *	+2	Montevideo	+3	Shanghai	+8
Amsterdam *	+1	Caracas **	-4	Johannesburg	+2	Montreal *	-5	Singapore	+8
Anadyr	+12	Casablanca *	0	Kabul **	+4	Moscow	+4	Sofia *	+2
Anchorage *	-9	Chicago *	-6	Karachi	+5	Mumbai **	+5	St. John's **	-3
Ankara *	+2	Columbus *	-5	Kathmandu **	+5	Nairobi	+3	Stockholm *	+1
Antananarivo	+3	Copenhagen *	+1	Khartoum	+3	Nassau *	-5	Suva	+12
Asumcion	-4	Dallas *	-6	Kingston	-5	New Delhi **	+5	Sydney	+10
Athens *	+2	Dar es Salaam	+3	Kinshasa	+1	New Orleans *	-6	Taipei	+8
Atlanta *	-5	Darwin **	+9	Kiritimati	+14	New York *	-5	Tallinn *	+2
Auckland	+12	Denver *	-7	Kolkata **	+5	Oslo *	+1	Tashkent	+5
Baghdad	+3	Detroit *	-5	Kuala Lumpur	+8	Ottawa *	-5	Tegeucigalpa	+6
Bangalore	+5	Dhaka	+6	Kuwait City	+3	Paris *	+1	Tehran **	+3
Bangkok	+7	Doha	+3	Kyiv *	+2	Perth	+8	Tokyo	+9
Barcelona *	+1	Dubai	+4	La Paz	-4	Philadelphia *	-5	Toronto *	-5
Beijing	+8	Dublin *	0	Lagos	+1	Phoenix	-7	Vancouver *	-8
Beirut *	+2	Edmonton *	-7	Lahore	+5	Prague *	+1	Vienna *	+1
Belgrade *	+1	Frankfurt *	+1	Las Vegas *	-8	Reykjavik	0	Warsaw *	+1
Berlin *	+1	Guatemala	-6	Lima	-5	Rio de Janeiro	-3	Washington DC *	-5
Bogota	-5	Halifax *	-4	Lisbon *	0	Riyadh	+3	Winnipeg *	-6
Boston *	-5	Hanoi	+7	London *	0	Rome *	+1	Yangon **	+6
Brasilia	-3	Harare	+2	Los Angeles *	-8	Salt Lake City *	-7	Zagreb *	+1
Brisbane	+10	Havana *	-5	Madrid *	+1	San Francisco *	-8	Zürich *	+1
Brussels *	+1	Hong Kong	+8	Managua	-6	San Juan	-4		
Bucharest *	+2	Honolulu	-10	Manila	+8	San Salvador	-6		

Note:

1. If **Time Sync** is on, camcorder clock will be calibrated via satellite clock signal based on **Set Time zone**.
2. If satellite positioning is not successful, camcorder clock will run based on user defined time.

3 Using the Car Camcorder

3.1 Automatic Record

If the camcorder is connected to the vehicle power supply and slide the power switch, once start the car engine, the camcorder will automatically power on and start recording.


Recording will automatically stop when the engine is switched off.

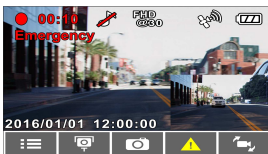
Note:

1. Some vehicle power supply would not turn on / off automatically with the car engine start, if the camcorder cannot automatically power on/off with the car engine, please manually connect the power supply with the vehicle power, and then power on, or manually power off the camcorder and then release the connector with the car power supply.
2. It can be configured to save a video file for every 1 or 3 minutes of recording.
3. All the videos and photos are saved in the memory card, if memory card is full, loop recording will be generally overwrite the oldest video file.

3.1.1 Emergency Recording

To start the Emergency Recording, do the following:

1. During Video Recording, press the  button to enter emergency recording mode, the “**Emergency**” message will be shown immediately on the upper left corner of the screen, and the recorded file will be protected.





2. The emergency video recording length is same as the recording interval setting. When the emergency recording length reaches the setting, the system will return to the general recording mode.

Note:

1. The emergency recording file is created as a new file, which will be protected to avoid being overwritten by normal cycling recording. A memory card can save up to 20 emergency video files if record interval time is 1 minute, and save up to 10 emergency video files if record interval time is set as 3 minutes.
2. The notice message of “**Emergency files are full**” will pop up on the screen when the emergency recording folder is full, and the later emergency files will be saved in the **Normal Video** folder which will be over written if memory is full. Thus, if you want to keep newest emergency video file, please manually delete the oldest files in the emergency video folder to release more capacity.

3.2 Picture in Video

You can also use this camcorder to take snapshots of the current scene.

1. In recording status, press  to capture recording screen shots from the front lens.
2. When the icon  shows in the central of screen, it means the screenshots is completed.



Note:

1. The screen shots image resolution quality is depending on the photo resolution setting.
2. The definition of picture in video by this product, the picture resolution is limited by the speed of the target object and changes in ambient lighting. The photograph function is better used for taking still pictures in accident scenes or when the car is stopped to wait for a traffic light.
3. It is available only for the front camera if user wants to take pictures during recording.

3.3 Driving Safety






The following driving safety function is for reference only.
Drivers are advised to exercise discretion based on actual road conditions.

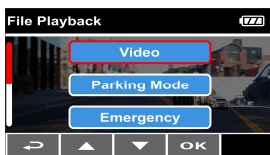
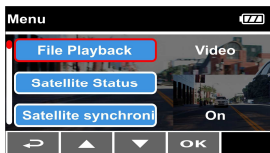
Menu option	Description
Speed Cam Alert	<p>If the Speed Cam Alert function is enabled, once your car's location is determined by GPS and approaches a speed cam, this product produces audible alert and screen message.</p> <p>Note: The speed cam alert function must have the speed cam datum from the country you use. The function will be void if the product is used in any others countries. Please consult with the shop you purchased if the function is void. There is no guarantee the speed cam datum will be included for the worldwide countries.</p>
Parking Mode	To monitor the vehicle when it is parked, you can activate Vibration Detection , or Motion and Collision Detection .
Collision Detection	If Collision Detection is activated, this camcorder starts emergency recording once it detects any collision.
LDWS	Once your car's location is determined by GPS and the LDWS function is enabled, this camcorder produces audible alert and screen message when you drive off of or change lanes at speeds over 70 km/h (43 mph).
FCWS	When FCWS is activated after satellite positioning, camcorder will issue audible alert and screen message when vehicle speed is above 60 km/h (37 mph) and the distance with the front vehicle is less than 15m.
FCMD	If FCMD function is enabled, the camcorder will determine it from front car about 0.3 ~ 4 meters. When the front object moves about 3 ~ 5 seconds and the car did not start to drive forward, the camcorder will issue audible alert and screen message.





3.4 File Playback

3.4.1 Playing Videos

Playback video record files as follows:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **File Playback**, and then press the  button for entering function menu.
3. Press the  button to select **Video / Parking Mode / Emergency**, and then press the  button for entering menu.








4. Press  button to browse video files, select the video file and then press  button to enter **Playback Mode**. If thumbnail shows  icon, it indicates that the file is dual-lens recording. In the recording mode, you can use  button to switch the front and rear lens recording file. (Rear Camera is not included in standard package. Please contact distributor for further information.)









5. Press the  repetitively to return recording screen.

3.5 Deleting Files




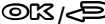
To delete file(s), do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **File Deletion**, and then press the  button for entering function menu.
3. Press the  button to select **Video / Parking Mode / Emergency / Picture**, and then press the  button for entering menu.

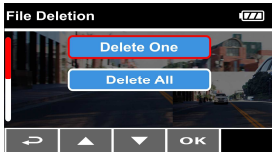
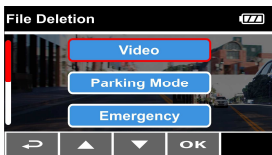
- **Delete One:**

- Press the  button to select **Delete One**, and then press the  button to enter the menu.
- Press  button to browse files, select the files you want to delete and then press  button to enter the menu.
- Press the  button to select item, and then press the  button to confirm or cancel the selection.


- **Delete All:**

- Press the  button to select **Delete All**, and then press the  button to enter the menu.
- Press the  button to select item, and then press the  button to confirm or cancel the selection.

4. Press the  repetitively to return recording screen.



Note:

1. Only front camera thumbnails will be display in Menu, if you choose to delete the file has the  icon, and then the files records with rear lens will be deleted. (Rear Camera is not included in standard package. Please contact distributor for further information.)
2. Deleted files cannot be recovered. Ensure the files have already backup before deletion.