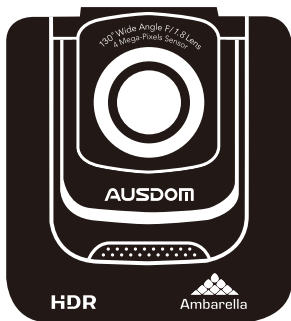


HD Car DVR Camcorder



Instruction Manual

AD 282

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Introduction

Thank you for purchasing this Car DVR Camcorder that is designed to capture Real- Time video of any events happening when you are driving outside. You can mount the DVR Camcorder on your car's windshield or dashboard. It has a 130° Wide Angle Lens for the best field of view and can record video in high resolution to ensure all the important events during the driving are recorded clearly. The DVR Camcorder utilizes memory cards (up to 64GB), allowing you to store many hours of video. Through the HD-Out interface, the DVR Camcorder provides you a stable, seamless and high-quality video image. This manual will give you the instructions and information about the DVR Camcorder. Please read it carefully before using the DVR Camcorder, and keep it available for future reference.

Package Contents

- AD282 DVR Camcorder Recorder *1
- Car Charger *1
- Mount Bracket *1
- Power/Transmission Cable *1
- User Manual *1



Features

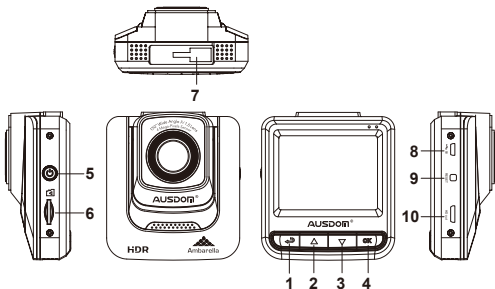
- Superior 130 degree wide viewing angle
- 2.4 inch TFT LCD display
- 7 layer glass lens
- Built in micro phone and/speaker
- Compatible with TF (microSD) memory card up to 64GB
- HD Out
- Loop recording
- Motion detection
- Seamless recording
- Auto screen saver (wake up screen by any button on panel)

- Select cycle (loop) recording time
- Image resolution up to 16M
- Warning before the camera will auto power off. Will auto-save videos when the power is low (before auto power off). Battery recharge reminder.
- Auto power on and video recording when auto engine started
- Time-lapse power off after disconnecting with car power
- Instant mute function
- Video restore function if damaged
- SOS recording, Loop recording functions
- Built-in G-sensor
- Parking Monitor: Collision or shaking will trigger automatic recording
- HDR
- Night Vision

Safety Precautions





- Do not expose the product to strong sunlight directly.
- Do not disassemble or modify the product by yourself. Contact the dealer for help when the product is failed to work.
- Do not press hard on the LCD screen that will cause the product malfunction.
- Only use the car charger or adapter supplied in the box to avoid malfunction or danger.
- Do not clean the product with cleaners containing strong acid or alkaline.
- Avoid using or storing the product in an extreme temperature environment. Working temperature is -20°C - 75°C (-68°F - 167°F) .
- Avoid using the product in the environment with strong magnetic wave or excessive vibration.
- Store the product away from moisture.
- Do not remove the SD memory card during operating to avoid the file damaged.
- Mount the product within the range between the windshield wipers to ensure clear visibility in a rainy day.
- To avoid the loss of data caused by improper operating, it is recommended to back up the data pre-saved in the SD card to a computer or other storage devices before using this product again.

Appearance



- | | |
|---------------------|---------------------------------|
| 1. Menu/Return | 6. Micro SD Slot |
| 2. Playback/UP/Mute | 7. Fixed sucker socket position |
| 3. Snap/Down/Lock | 8. USB Connector |
| 4. Recording/OK | 9. Reset Button |
| 5. Power On/Off | 10. HD out |

Function Buttons

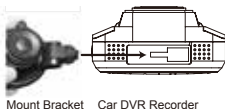
Mode				
Normal	Enter/Exit Settings	Enter Saved Video	Shooting	Recording
Recording		On/Off MIC	Lock	Start/Stop
Settings	Return	Previous	Next	Confirm
Playback	Return	Previous	Next	Stop

Mounting the Unit

1. Clean and dry the windshield area where you want to mount the unit.
(Refer to Picture 1)



Picture 1



Picture 2

Note: Dirty or moist glass will prevent the mounting bracket from firmly mounting onto the windshield.

2. Insert the mounting bracket into the mount socket located on the top of DVR Camcorder Recorder and slide sideways until the mounting bracket is mounted on the DVR Camcorder Recorder firmly. (Refer to Picture 2)

3. Turn the adjustment knob counter-clockwise to loosen and then adjust the DVR Camcorder Recorder to a suitable angle. (Refer to Picture 3)



Picture 3



Picture 4

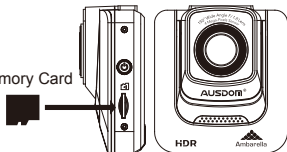
4. Find the best position on the windshield to mount the unit. Move the rotatable knob clockwise until you hear a click to ensure the unit firmly mounted on the windshield. (Refer to Picture 4)

Note: For the best field of view, it is better to mount the unit in the middle of the windshield near the rear-view mirror.

Inserting the Memory Card

1. Before starting to record, you have to insert a Class 6 or above micro SD card with up to 64GB capacity into the slot located on the side of the unit. (Refer to Picture 5)





Memory Card



Picture 5



Picture 6

2. Press  button to enter menu configurations, press the  or  button to select format item and press  button to start formatting the memory card. (Refer to Picture 6)

Note:

- Make sure the memory card has been formatted before the initial using.
- Do not remove the memory card during recording and firmware updating.
- You have to insert a memory card into the unit before connecting the unit to the power supply.

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

Connecting to Power

1. Connect the small end of the power/transmission cable to the USB connector located on the side of the unit.

2. Connect the other end of the power/transmission cable to the supplied car charger. (Refer to Picture 7)



Picture 7



Picture 8

3. Plug the supplied car charger into the car's lighter socket. (Refer to Picture 8)

4. The unit will power on and start recording automatically once you start the car engine.

5. When the car engine is off, the unit will keep on recording for 15 seconds, and then automatically power off after saving the recordings.

Note:

- The unit can be recharged by connecting to the car's lighter socket, PC or USB power supplier with the supplied cable. When the unit is connected to the PC for charging, please power the unit off to avoid any potential damage caused by high circuit.

- Before recording, the "Loop Recording" feature must be enabled and the unit must be connected to the power supply.

Only use the supplied car charger with 5V output to charge the unit. Non-compliant car charger will damage the unit and cause malfunction.

Power the Unit On and Off

1. **Power On:** Press the power button located on the side of the unit to power the unit on.

2. **Power Off:** Press and hold the power button located on the side of the unit for 3 seconds to power the unit off.

3. **Auto Power Off:** You have to enable the "Auto Power" feature in the menu configurations to process power auto power off Setting. The unit will automatically power off if no action is taken during the configured time.

Note: If the device ever 'crashes', you can press to the factory default settings and reboot.

Power Indication

The unit provides you a battery indication appeared on the upper left of the screen clearly so that you can understand the current battery status. (Refer to Picture 9)



Picture 9

Note:

- Whether the unit is in the power on or power off status that will not affect the charging.

- When the battery is running out of power (low power status), the unit will sound an alert tone and then power itself off immediately.

LED Indicators



The unit provides you the LED Indicators located on the right top corner of the unit that specifying the unit current status.

LED Status	Definition
Solid Red	Power on
Flashing Blue	Charging
Solid Blue	Charging completed
Flashing Red	Recording
Solid Red	Recording completed

Note: The unit will automatically power on and appear “USB connecting” when you connect the unit to the power supply with a USB cable for charging. The unit will power off automatically when you unplug the USB cable to stop charging.

Menu Configurations

Press  button to enter menu configurations.

Note: You can not configure the menu settings in the recording mode. Any operating in the recording mode, press  button to exit so that you can enter the menu configurations by pressing the  button.

Video Resolution

Set the resolution for recording video. As the resolution goes up, the image becomes clearer, sharper, more defined, and more detailed as well.

Values: 2560*1080 30P 21:9/2304*1296 30P 16:9/1920*1080 45P 16:9/HDR 1920*1080 30P 16:9/1920*1080 30P 16:9/1280*720 60P 16:9/1280*720 30P 16:9

Recycle Record

You can choose loop recording time from 4 options: Off/1 Minute/3 Minutes/5 Minutes . Loop recording time determines the length of the video recordings. For instance, if you choose “3 minutes” as loop recording time, the video recording will be saved onto a micro SD card as a 3 minutes’ video. When the storage of memory card is full, the oldest files will be overwritten automatically. Conversely, if this feature is disabled, it will stop recording when the memory card is full.

Values: 1 Minute/3 Minutes/5 Minutes/Off

Motion Detection

When the Motion Detection is active, any movement around the car's surrounding will be recorded automatically. Recording will automatically power off if nothing happened and moved during the monitor mode. Once anything is movement, the unit will start recording immediately.

Values: Off/On

Note: This feature works only when the camera is connected to a constant power supply.

Park Mode

When your car is parked , any shaking or hit on the car will trigger the unit to power on and record automatically , the video recordings will be locked and saved to the event folder set in the DVR Camcorder and won't be overwritten. Then The unit will automatically power off .

Values: Off/On

Image Quality

There are three quality values for the image quality. The value (ex. S. Fine) used less compression and has the highest quality.

Values: S. Fine/Fine/Normal

Mic Setup

Enable or disable microphone during video recording.

Values: Off/On

Stamp Setting

If you tickle Date, Time, Driver ID, those information will be recorded and displayed at the right bottom corner of videos as settings in Time, Date and Driver ID accordingly.

Values: Date/Time/Drive ID

G-Sensor Setting

When the car is detected vibration and collision, the built-in G-Sensor feature will automatically enter the emergency recording mode to lock the recorded images. A lock sign will appear on the right top corner of

the screen. Real-time locked files will not be overwritten by Loop Recording. This item allows you to adjust the sensitivity of the G-Sensor.

Values: Off/High/Medium/Low

Note: The default value of G-Sensor is Medium.

WB




The White Balance feature can boil down to the concept of color temperature. Color temperature is a way of measuring the quality of a light source. Adjust the white balance to get the colors in your images as accurate as possible.

Values: Auto/Incandescent/Sunny/Cloudy/Fluorescent

EV bias

-2.0EV, -1.7EV, -1.3EV, -1.0EV, -0.7EV, -0.3EV, 0.0EV (default), +0.3EV, +0.7EV, +1.0EV, +1.3EV, +1.7EV, +2.0EV

Time Setup

Set the current date and time. Use the   buttons to switch Y/M/D/H/M and click  button to confirm/save the settings.

Beep Sound Setting

You can enable or disable the sound of the buttons located on the unit .

Values: On/Off

Auto Power Off Setting

You can set the Auto Power Off time from 4 options: Off/1 minute/3 minutes/5 minutes, . The DVR will automatically power off since the time you complete the setting if no operating submitted.

Values: Off/1 minute/3 minutes/5 minutes

Backlight Off Setting

You can set the Backlight Off if you don't want the screen stay on all the way, once you complete the setting, the screen will power off automatically. You can Press any button to wake the unit up when necessary.

Values: Off/ On

FCWS/LDWS detect

Values: Off/ On
FCWS/LDWS calibration

Card Volume

The DVR Camcorder display the real-time capacity information of memory card.

Values: Total/Used/Reserved

Driver ID Setting

You can set those boxes with car plate number or driver name. Once you complete this setting, the car plate number or driver ID will be displayed on the video recordings.

Driving time warning

Values: off/1Hour/2Hours/3Hours/4Hours

Format

Press OK button to Format the memory card.

Values: OK/Cancel

Note: Please backup desired data before formatting the DVR Camcorder. You can backup the data to the PC (Win XP2/Vista/Win 7/Win 8/Win 10) via included USB cable and play the video saved in the Event/Normal file directly on the PC.

Default Setting




Press OK button to reset all settings to factory default values.

Values: OK/Cancel

Version Info

The DVR Camcorder displays the current firmware version.

Delete File

You can delete video recordings by pressing  twice to enter Delete File menu, then press  button to select the file (Event Video or Normal Video). Press  button to delete.





Values: Event/Normal

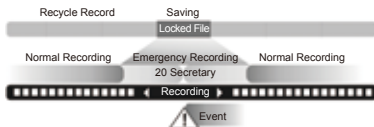
Video Recording

Normal Recording

After the car engine is started, the unit will automatically power on and start recording. You can configure the recording length for saving. As soon as the car engine is off, the unit will automatically save the current recording and power off.


Note:

- In the recording mode, you can press  button to enable /disable  the microphone function.
- In the recording mode, you can press and hold  button for 5 seconds to enable/disable HDR function. The HDR function avoid the video recordings being overexposed or underexposed.



Picture 10

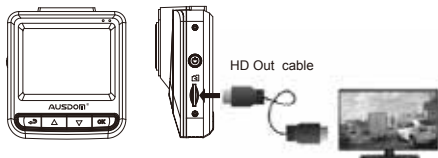
Emergency Recording

In the recording mode, the unit records the event for 20 seconds and saves it automatically. you can also press the  button to manually activate emergency recording. The recorded files are saved to event folder and are protected not be overwritten. (Refer to Picture 10)

Viewing on TV

You can connect the unit to a TV with the HD Out cable to view the video recordings. (Refer to Picture 11)

1. Power the unit on.
2. Set the unit to video playback mode.
3. Connect unit to TV with the HD Out cable.
4. Switch TV to HD Out mode.
5. Press the play button to view the recording video.



Picture 11

Specifications

Item	Description
Display	2.4 inch TFT LCD monitor
Lens	F/1.8, 130°wide angle
Resolution	- 2560*1080 30P 21:9 - 2304*1296 30P 16:9 - 1920*1080 45P 16:9 - 1920*1080 30P 16:9 - HDR 1920*1080P 30P 16:9 - 1280*720 60P 16:9 - 1280*720 30P 16:9
Video	MOV, H.264, HD Out interfacet
Audio Recording	On/Off
Motion Detection	On/Off
Image	16M Pixels, JPEG
Memory Card	Micro SD card up to 64GB
MIC/Speaker	Built in
Backlight Off	On/Off
Auto Power Off	Off/1 minute/3 minutes/5 minutes
USB Port	USB2.0
Battery Capacity	Built in 370mAh rechargeable lithium battery
Operating Temperature	-20 °C-45 °C
Storage Temperature	-25 °C-60 °C

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