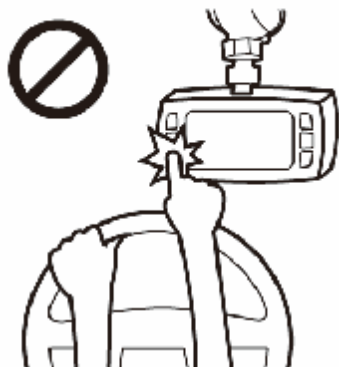




**CS9**

**User Manual**



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# Product Features



**New SONY STARVIS Sensor- ISO Sensitivity up to ISO 12800**  
Features a new SONY STARVIS CMOS sensor with improved sensitivity not only under normal lighting but also in low light and near infrared light condition.



**Dual Channel 1080P FULL HD**  
The front and rear view of your vehicle are recorded in 1080p FULL HD quality; moreover, the image captured at a 145° viewing angle at front and 140° in the rear for optimal coverage and clarity.



**Integrated 10 Hz GPS Processor**  
Integrated is the fastest 10 Hz GPS processor, that updates GPS data 10 times per second, recording your speed and location accurately. Date and Time automatically synchronizes with the atomic clock.



**Advanced WDR Technology - Stunning Videos in Any Light**  
WDR technology, well-balanced exposure for any condition. It makes night shots brighter and prevents overexposure to create the clearest image.



**Traffic Camera Alert**  
Remind you of approaching fixed speed camera locations and mobile speed camera “hot-spots” well in advance so you can slow down in time. Stay away from traps and always stay in control.  
\*Currently supported: US, CA, UK, NO, PL, NL, BE, AU.  
\*Traffic Camera Alert act as references and is for reference only, which does not act as an active radar detector. Please follow all traffic rules and drive safely.



**Parking Surveillance**  
Ensure your peace of mind by recording continually even when you have parked and left your car. Record and lock a file if unusual shock or motion is detected.  
\*DOD DP4 hardwiring kit required



### Support to 128GB Micro SDXC Memory Card

4X storage compatibility compared to predecessor models, supports up to 128GB with more than 18 hours of recording.



### DOD GPS Player

The DOD GPS Player generates 1080p video recordings with real-time driving data such as speed and location clearly at a glance.



### 145° Wide Angle of View

Wide angle, wide view, without distortion. The brand-new-designed optical lens captures images with ultra wide fields of view, covering up to 145 degrees, without pincushion or distortion.



### f/1.6 Large Aperture Glass Lens - Super Low-Light Performance

Equipped with f/1.6 large aperture, capturing better night shots than conventional f/2.0, and records clearly sophisticated details such as the license plate and others.



### 6G Sharp Glass Lens

6-Element sharp lens, made of 6 layers of glass, provides stunning clear and non-deformed images.



### G-Sensor Automatic Trigger for File Protection

When an impact or emergency brake occurs, the device will lock the current video files automatically. Important files will not be overwritten by loop recording.



### **Loop Recording**

When the storage space is full, it can automatically overwrite the unprotected files.



### **Path Analysis**

Calculate the distance, time and average speed of your journey from location A to B. It's a very economical and practical way to save your time and fuel consumption.



### **Circular Polarizing Filter**

Adjustable CPL filter suppress glare from windshield and manage reflection. Provides clear images with enhanced contrasts.

# Safety Precautions

## Product

- Do not disassemble, repair, modify your camera or power related accessories. For warranty service, please contact DOD Tech Support.
- Do not adjust or operate camera while driving.
- Avoid exposing your camera to extended periods of humidity and/or heat.
- Prolonged exposure may reduce the product's lifespan.
- Do not spray water or cleaning agents directly onto the camera.
- Fluids may cause fire, electric shocks, or malfunctions.
- Avoid installing camera where it may obstruct the driver's view or airbag deployment.

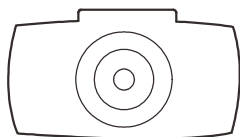
## Car Power Adaptor

- Use ONLY the DOD power adapter supplied with your unit.
- Other power adapters may create a safety hazard or damage the unit.
- Do not use damaged power adapters or cords. If damaged, please disconnect the power adapter and contact DOD Tech Support for assistance.
- Do not pull, insert, or bend the power cable using excessive force.
- Do not operate or handle the power cable with wet hands.
- In specified cars, the power may be constantly supplied to the device even the engine is turned off. This may drain the vehicle battery. The optional DOD DP4 kit equipped with low-voltage protection and is designed to prevent battery drain and reserve the minimum voltage required for cranking.

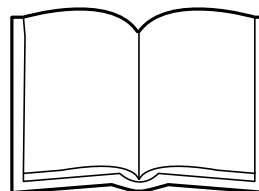
## Battery

- Keep the device away from heaters or other hot objects.
- Store the camera at lower temperatures to reduce the rate of self-discharge and preserves the initial energy stored in the battery. The battery in the device self-discharges naturally over time whether the battery is used or not.
- Charge the dash camera for 5 minutes with the supplied DOD power cord if you are unable to turn on the camera.

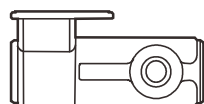
# Package Contents



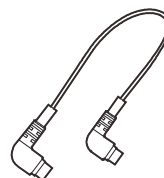
Dash Cam



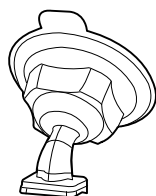
User Guide



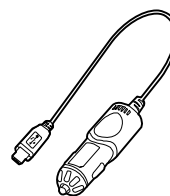
Rear Dash Cam



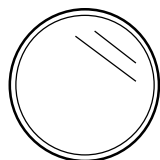
Rear Cam Connection Cable



Bracket



Car Power Adaptor

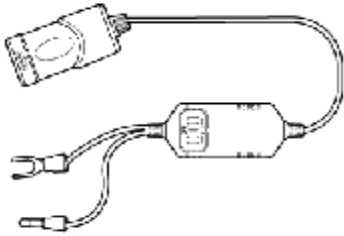


CPL  
(LS500W+)

*Note: Supplied accessories may vary by region.*

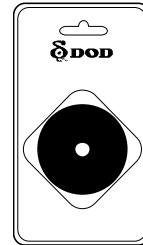


# Optional Accessories



DP4

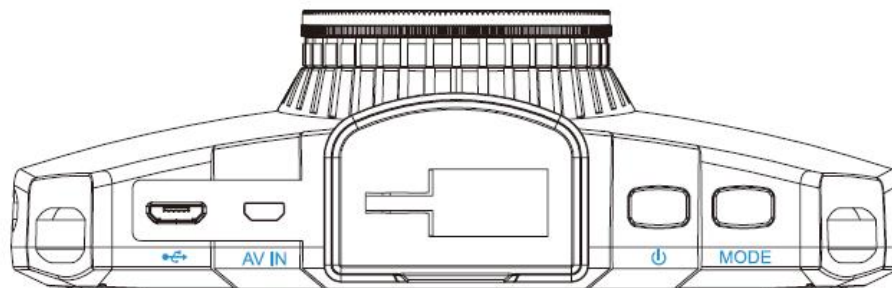
*DP4 hardwiring kit offers constant source and prevent battery drain with low-voltage protection.*



DA2S

*DA2S Suction Savior provides a long lasting adhesion to suction cups.*

# Camera Controls



## ① Mode 【MODE】

When in stand by (not recording): Press to switch between recording and playback mode.

While Recording:

Press to switch between live viewing modes. Screen can show front view only, rear view only, large front with small rear, large rear with small front.

## ② Power Button ON/OFF 【⏻】

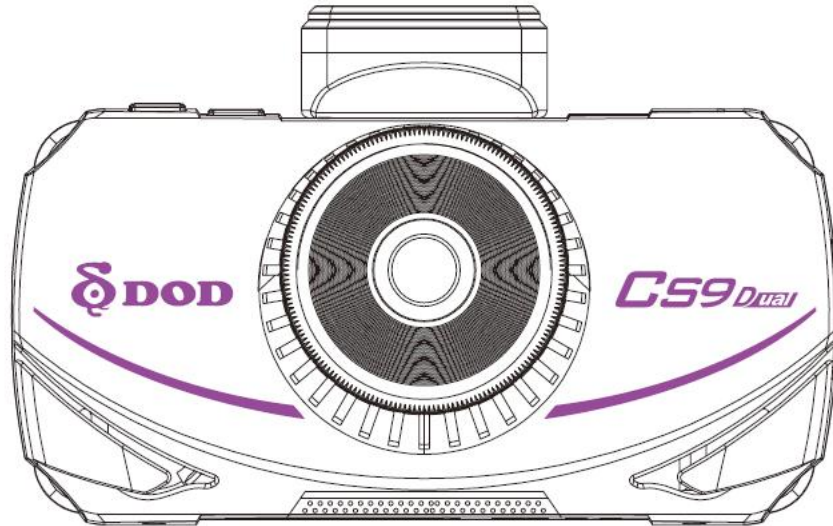
Turns unit on/off

## ③ Micro USB Port 【🔌】

For use with the supplied DOD Car Power Adaptor or USB data cable.

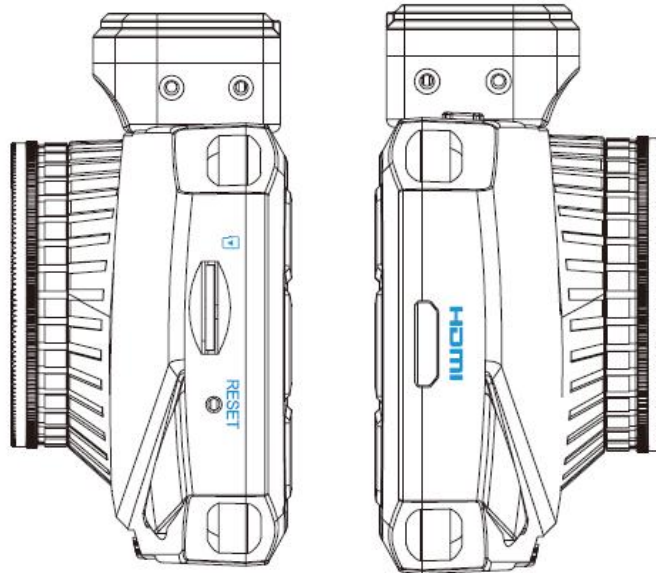
## ④ Rear Cam Connection Port 【AV IN】

# Camera Controls



⑤ Speaker

# Camera Controls



## ⑥ Micro SD Slot

Requires a micro SDHC/SDXC card, class 10 or above. Supports up to 128GB.

## ⑦ HDMI Output Slot

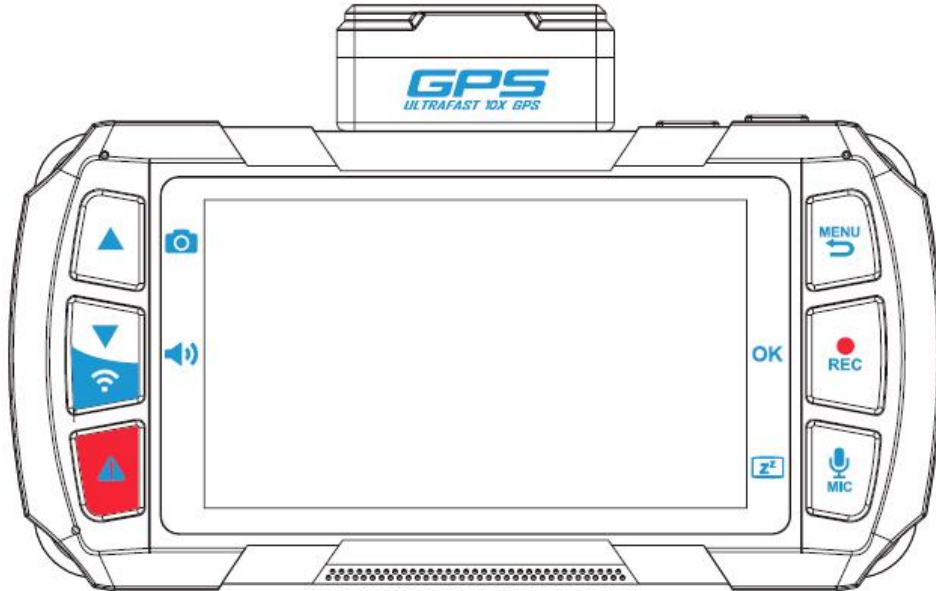
Outputs live view or recorded files to external display.

\*Recording function is disabled while HDMI output is connected.

## ⑧ Reset Button

Use a small pin to press the button to force the device to reboot.

# Camera Controls



## ⑨ Arrow Keys [p/q]

Standby Mode: Used to navigate through menus and select videos for playback.

Recording Mode:

Press [p] to capture snap shot of current recording.

Press [q] to change notification/alert volume.

## ⑩ SOS Emergency File Lock [▲]

- While recording, press this button to lock the current recording file and protect it from being over written.
- A lock icon [🔒] will appear at the bottom left corner to indicate whether the current recording is protected.

# Camera Controls

## ⑪ Menu / Return [MENU]



- When not recording, press to access menus, or to exit sub menu.
- Press [MENU] once for recording options.
- Press [MENU] twice for system options.

\* Recording must be stopped before accessing menus.

### 12 OK / REC [OK / REC]

- Stop or start recording.
- Act as the OK button in menu.

### 13 MIC / Display OFF / [MIC / Z]

- During standby / recording mode:
- Press  to **switch** ON/OFF voice recording.
- Press  and hold to turn ON/OFF LCD display. Display status does not affect continuous recording.

### 14 Operation Status LED

- Steady blue - Unit is powered off and is charging.
- Steady pink - Unit is powered on and charging but not recording.
- Steady red - Unit is powered on but not charging nor recording.
- Flashing red - Unit is recording and battery is full.
- Flashing between blue and pink - Unit is recording and charging.
- Flashing blue – Charging malfunction.

# Getting Started

## Setting Up Your Camera

Set up your Dash Cam inside your vehicle to ensure easy access to power.

### 1. Start With SD Card.

To use with SD card, please format the microSD card in the camera menu to ensure correct format before initial use. Memory card must be in FAT32 format to function properly.

Card slot is directional and may be damaged if SD card is inserted incorrectly.

To save recorded videos stably, DOD Tech recommends formatting your SD card every two weeks from in the camera

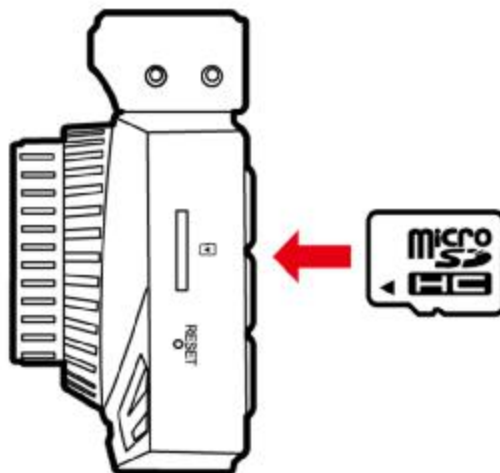


*Note: After formatting the SD card, all of your data will be deleted. Be sure that you have backed up the important files.*

#### Estimated Video Recording Length (Dual 1080p Full HD form)

Storage/Quality	Recording length
16GB	120 minutes (2 hours)
32GB	250 minutes (4.2 hours)
64GB	505 minutes (8.4 hours)
128GB	995 minutes (16.6 hours)

*\*Video recording length may vary depending on environmental conditions.*



# Getting Started

## 2. Connect the Power Adapter.

Plug the DOD power adapter into your vehicle's power/accessory outlet. Then carefully insert the micro USB plug into the USB port.

## 3. Turn on Your Vehicle.

Powering from your vehicle through the accessory socket will automatically turn on your camera and starts recording, and your camera will stop recording and shuts off automatically when power is turned off.




*Note: In specified cars, the power may be constantly supplied to the device even when the engine is turned off. This may drain the vehicle battery. The optional DOD DP4 kit equipped with low-voltage protection and is designed to prevent battery drainage.*



# Getting Started

## 4. Turn on/off Your Camera Manually.



Press 【】 to turn on or turn off the unit manually.

\*The Dash Cam will turn on and off automatically with the power supply from your vehicle.

## 5. Select Language→Set the Time Zone→Select the Speed Unit of Your Choice

Upon powering up the camera for the first time or after upgrading the firmware on the device, you will need to go through and input the Settings below.

### Select Language

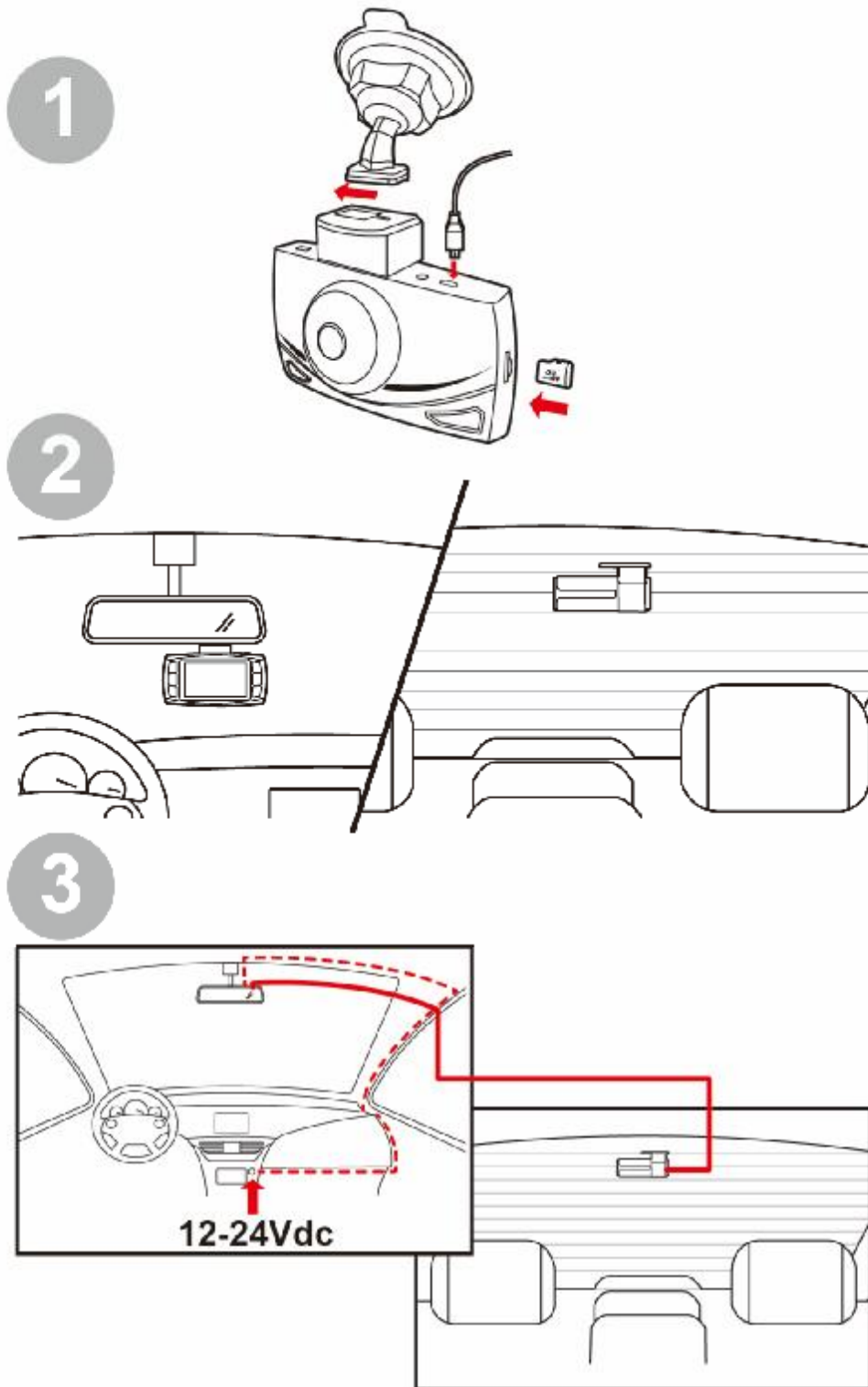
- Select the language of your choice by pressing 【p/q】.
- Press 【】 to proceed.
- Set the time zone
- Scroll down and select your respective time zone.
- Press 【】 to confirm.
- Your camera will automatically sync with the time and date to the atomic clock base on the chosen time zone.

*Note: Daylight saving time requires adjustment manually.*

- Select the speed unit of your choice – KPH or MPH



# Installing Your Camera



# Installing Your Camera

## 1. Clean Windshield

- Wipe down both the interior and exterior glass for the best image quality.

## 2. Attach the Mount to Your Camera

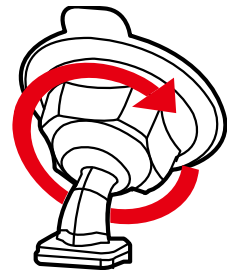
- Attach the camera securely to the mount
- Please insert MicroSD card to the unit.

## 3. Prepare the Camera for Installation

- Peel off the protective mount cover.
- Find a location which does not obstruct your view when driving.
- It is recommended to place the camera behind the rearview mirror without blocking either lenses or camera functions.
- DOD Tech recommends to place the rear cam at the top center of your rear glass for best images and shortest hanging wires after installation.

## 4. Adjust the Angle

- The mount has an adjustable ball joint that can be loosened using the plastic locking nut.
- Angle your camera slightly below the horizon line to minimize glare.
- Press the mount firmly against the glass and turn the mount nut clockwise to secure the
- mount.
- Rear camera can be adjusted by twist motion to aim upwards or downwards to suit the angle of your rear glass.



## 5. Install the Car Power Adaptor

- If you have not done so previously, carefully insert the micro USB plug into the port on the camera, and insert the power adaptor into the cigarette lighter socket of your car.
- The wiring can be hidden in the headliner, seams and rubber strips around the perimeter of the windshield.

## 6. Remove the Lens Protector Film

**Your camera is now installed and ready for daily use.**



### *Note:*

*Always use the supplied DOD car power adaptor to avoid the unexpected damage.*

*If grease, fingerprints, or blots are found on the external/internal windshield of the car, please wipe it clean or replace the windshield. Blots may affect the recording quality or may cause the bracket to be unstable.*

*Due to various road condition in different countries, DOD Tech recommends setting the G-Sensor sensitivity accordingly to suit driving environments in your country.*

# Basic Camera Operation

## Everyday Operation

Dash cam will automatically turn on and start recording when it starts receiving power. By default, the camera will record over the oldest videos when the memory card is full (loop recording). The protect files can take up to 30% of full SD card space, and not be over written by normal recording files. When reaching 30% limit, files in RO (Read Only) folder will be overwritten by newest protected file, starting with the oldest.

## Continuously Powered Electrical Outlet

The camera will not automatically shut down when your vehicle is turned off. If your vehicle provides continuously power to the accessory outlet. To turn off your camera manually, simply unplug the USB cable or press the power button or power button.



*Continuously powered electrical outlet allows the camera to capture videos while you are away but it will result in vehicle battery drainage and may eventually prevent your car from starting. DOD Tech recommend to use DP4 power kit for needs of parking surveillance.*

## Manually Turning On/Off Your Camera

- Press **【⏻】** to turn on/off your camera.
- Press **【<sup>●</sup>REC】** to begin/stop recording.

## Video Directory:

Videos will be saved on the memory card and or in internal storage. Normal driving videos are in the root directory and the protected files will be saved in the “RO” (Read Only) file.

**File-naming for front camera: 2017\_0125\_180946\_001F**

**File-naming for rear camera: 2017\_0125\_180946\_002R**

- Blue number sequence in example above indicates year/month/day,
- Green number sequence indicates time in 24H format including seconds,
- Orange letters indicates file recorded from front or rear camera.

The number in front of F/R means sequence of the video recorded.

# Camera Modes

When the camera is not recording video, you can switch between modes by pressing the 【MODE】 button:

1. Video Recording Mode
2. Playback Mode

## 1. Video Recording Mode

The camera defaults to video recording when the camera first turned on.

- Recording Mode: Press 【REC】 to start/stop recording.
- When recording, press 【MODE】 to change display orientation.



1. Front Only



2. Rear Only



3. Large Front and Small Rear

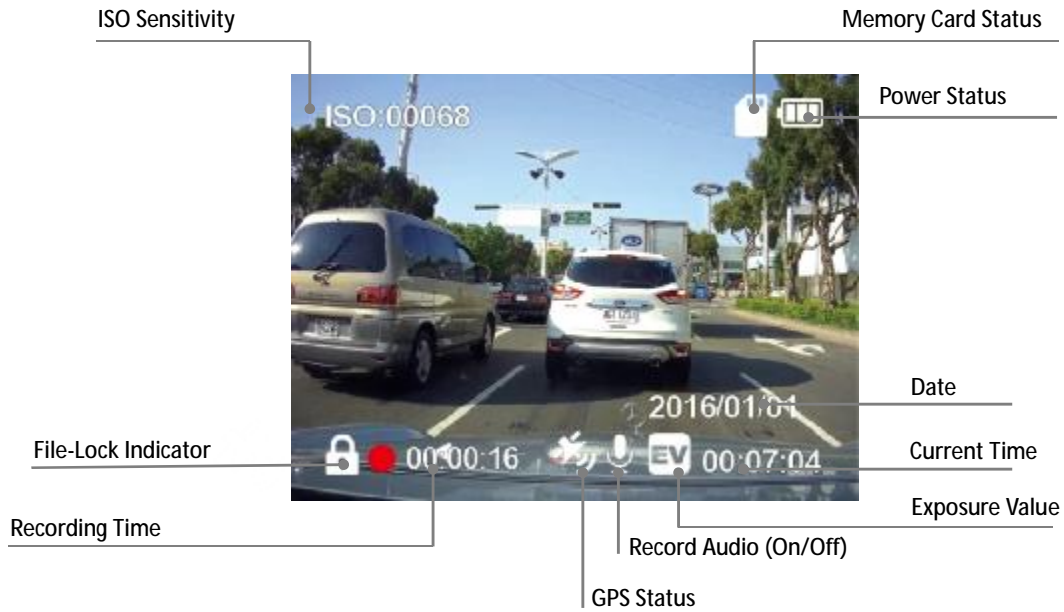


4. Large Rear and Small Front

# Camera Modes

- Standby Mode: Press 【MODE】 to switch in between Video Recording and Playback Mode.
- Press 【REC/OK】 to stop recording before pressing 【MODE】 to switch modes.

## 1. Recording Mode



*Note: GPS icon flashes when it searches for GPS signal. HUD, Over-Speed Warning and Speed Camera alerts only work when the GPS signals is stable.*

●	<b>Recording Status</b>	Flashes when recording.
EV	<b>Exposure Value</b>	Indicates the current exposure value setting.
🎤	<b>MIC</b>	Indicates if the audio recording is on or off.
🔋	<b>Power Status</b>	Indicates the power source and the battery status if external power is not connected.
ISO	<b>ISO Sensitivity</b>	Indicates the current ISO value.
🔒	<b>SOS File Lock</b>	Indicates current recording file is locked and protected. This can be triggered by G-sensor or by pressing the SOS file lock button,
💾	<b>Memory Card Status</b>	Indicates if a memory card is inserted.
📶	<b>GPS Status</b>	Flashes whilst the device is searching for satellites. Once the positioning is done, the icon will be solidly displayed.
📅	<b>Date/Time</b>	Current date and time.

# Camera Modes

## 2. Playback Mode

You can watch previously recorded videos in Playback Mode.

Press 【MODE】 to switch into the Playback Mode when unit is not recording.

### ● Play the Video

- n Press 【p/q】 to choose file.
- n Press 【REC】 to play or pause.
- n While playing video, press 【p/q】 to forwards/backwards.
- n Press 【MODE】 to exit the Playback Mode.

### ● Delete or Protect Files from the SD card.

- n Press 【p/q】 to choose file.
- n Press 【MENU】 to enter Playback Menu.
- n Press 【p/q】 to select delete or protect current file.
- n Press 【REC】 to confirm.
- n Press 【MENU】 to exit.

*Note: If protected, a lock icon will appear on the screen.*

*If deleted, it cannot be undone. Choose “delete all” will not erase protected files.*

*The “Format” function will erase all files including locked files.*

### ● Slideshow

- n Press the menu button and navigate to slideshow.
- n Photos and the first frame of each video will be shown in order.



# Camera Settings

Each mode has a unique set of settings. See the description below.

Two Camera Settings menus are accessible:

- Functional Settings
- System Settings

The menu settings can be switched by pressing **【<sup>MENU</sup> 5】**.

If you move the cursor before pressing **【<sup>MENU</sup> 5】** to access to system menu, exit and try again.

*Note: Press **【<sup>●</sup> REC】** to stop recording before entering the camera menus.*

## Video Recording: Functional Settings Page

Accessed by pressing **【<sup>MENU</sup> 5】** once.

### ● Resolution

Default with dual camera in 1080p Full HD at 30fps. Optional only for the front camera 1080p Full HD at 60fps, which will disable rear camera and records front video only.

*Recommended setting: FHD 30fps X 2.*

### ● Loop Recording

Can be set to 1,3,5 or 10 minutes. Video recordings of the selected length will be recorded onto the memory card. When the memory card is full, the oldest files will be overwritten, excluding locked clips. Turning off loop recording will result in 30min per video and will prevent the camera from writing new files when the memory card is filled.

### ● Exposure Value (FRONT / REAR)

Sets the brightness /darkness of the video of each camera.


Video too bright? Set between -1 to -3.

Video too dark? +1 to +3.

*Recommended setting: 0*

### ● Record Audio

Switches the microphone recording on/off.

Options can be changed during recording by pressing button **【 MIC】**.

### ● Date Stamp

Imprints the time and date in the recorded video.



# Camera Settings

## ● G-Sensor

Measures G-forces. The sensitivity settings can be set off/low/mid/high, If excessive force is detected, the current recording video will be locked and the file will be saved in the “RO” directory. However, *Setting G-Sensor to OFF may result in faulty function in Parking Surveillance Mode.*

*Recommended setting: low. Inappropriate setting per environment or road condition will result in frequently file lock.*

## ● Image Rotation (Front / Rear)

Rotates the recorded image 180° when Dash Cam is mounted upside down

## ● Image Mirror (Rear)

Changes the rear vision on the screen to reduce disorientation

## ● Parking Surveillance (Default: Off)

When function is enabled, the Dash Cam will automatically switch to Parking Surveillance Mode if vehicle is stationary for over 10 minutes.

1. Automatically records videos (both front and rear) when motion is detected within view range of front or rear camera.
2. Automatically records and locks recording videos (both front and rear) when excessive force of impact is detected by G-sensor.
3. Camera only records when motion or impact is detected.
4. Unit will return to normal recording mode if vehicle moves continuously for 3 seconds or longer.

*Note:*

*Parking Surveillance requires consistent power supply via vehicle battery. (It is recommended to use optional DOD DP4 kit equipped with low-voltage protection design to prevent battery drainage.*



*Please ensure to enable G-sensor function in setting menu before switch to Parking Surveillance. (G-sensor sensitivity Default: Medium)*

*Parking Surveillance will automatically shut down GPS locating, and will resume when switched to normal recording mode.*

*Enabling Parking Surveillance will automatically shut down Time-Lapse function if previously turned on.*

*Back lighting will automatically dim when entering Parking Surveillance, and will resume when exit.*

# Camera Settings

## ● ISO Stamp

Imprints ISO value (light sensitivity value) on the video file.

n On/Off

n Default: On.

## ● Set Time Zone

Sets the current time zone for GPS time and date auto calibration. Note the time zone must be manually adjusted for daylight savings

## ● Speed Units

Select metric or imperial units.

## ● Path Analysis

Calculates the total distance, travel time, and average speed of your journey from the beginning of your trip to the end (when camera is turned on to when turned off). If Path Analysis is set to “on”, the results will be displayed on the screen when the unit is turned off. Normal recording will resume If power is reconnected during display.

n Default: Off.

## ● Driver Fatigue Warning

Sets a timed delay before showing a visible alert reminding the driver to take a break.

n Default: Off.

## ● GPS Logging

n On/Off.

n Default: On

## ● Head Up Display

Screen will show current speed and direction. If enabled, the set speed warning will also appear on display.

## ● Speed Warning

Shows a visual warning on the head-up display when the set speed has been exceeded.

## ● Speed Stamp

Imprinting speed in video footages. This can be turned on/off.

# Camera Settings

## ● Time-Lapse

The time-lapse function is used to create a sped-up video. When set, the camera will record one frame every 200ms (milliseconds)/500ms/1 second/5 seconds.



*Note: Time-Lapse cannot work with Parking Surveillance, this function will automatically turn off when Parking Surveillance is enabled.*

## ● Plate Stamp

Imprints a customized set of 8 digits to the recorded video. Add license plates, driver name or other identifying words to watermark your video.

## ● Password Settings

Set a password lock which will prevent files from being deleted or prevent the menu from being accessed.

*Note: This does not prevent other users from extracting the memory card or changing the files via computer.*

## ● Speed Camera Warning

Warning sound and on-screen icon to remind you of approaching traffic camera such as fixed speed camera, red-light camera or hot-spots for mobile police camera. Speed camera warning will not be activated below 20km/h or 12mph. Speed camera icon will not appear in Heads Up Display mode.

*Note: Currently supported: US, CA, UK, NO, PL, NL, BE, AU.*

**\*\*Please make sure "Volume" is turned on in setting menu**

**\*Speed Camera Alert act as a reference and is for reference only, which does not act as an active radar detector. Please follow all traffic rules and drive safely.**

# System Settings

Accessed by pressing **【MODE】** twice while standby.

- **Date/Time**

When GPS signal is not available, manually sets year/date/time as well as display format.

- **Volume**

Turns on/off all sounds, including button and notification.

- **Language**

- **Screen Saver**

Set 3/5/10min before display turns off to reduce driver distraction. Dash Cam still records when screen saver is activated. Screen saver does not activate in Parking Surveillance mode.

- **Display Brightness**

Adjust screen back lighting.

- **Flicker Reduction**

Adjusts the camera's frequency setting to minimize flickering and banding in the recorded video. Flick reduction: 50Hz/60Hz is related to the light frequency in your location. Normally the frequency is correlated to local voltage rating, if you find the video recorded at night is glimmering, please adjust light frequency per your location.

- **Format Memory Card**

Completely deletes all files including locked footage from the SD card and optimizes the card for recording. DOD Tech suggest formatting via the menu every two weeks to ensure proper SD card functionality.

- **Factory Reset**

Reverts all settings back to the original factory default.

- **Firmware Version**

Shows the model name and current firmware version.

# Play on DOD Player

Please transfer the video files to your electronic device for smooth viewing and or storage. The DOD Video Player is a user-friendly program to playback videos and to visualize your position and speed on your PC or Mac.

## Installing the DOD Video Player

Download the software from DOD Tech's website and follow instructions for installation.



*Suggested System Requirements:*

*Windows XP or higher (i3 or better, with at least 2GB Ram)*

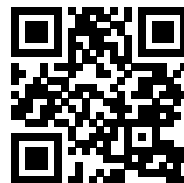
*Mac OSX 10.6.4 or higher*

## Launching the DOD Video Player

Once launched, the player will appear on your screen.



**Click the Player icon below to view instruction video**



[goo.gl/UM9qd](http://goo.gl/UM9qd)

**Please ensure internet access before viewing instruction video**

**Learn more about DOD GPS PLAYER V2.0**

# Play on DOD Player

## Open Video Files

Add your file to the list of videos:

- Click “File”, click “Open”, and navigate to the location of your files.
- Press the “ADD” button located below the list of videos.

## Video Player Features

- Once the video is playing, your position, speed and G-Force will be displayed at the bottom of the player window.
- Pressing the “Location Map” button will show your position on Google Maps.

## PIP Function (Picture in Picture)

This function allows you to watch both front and rear videos simultaneously.

- Make sure to turn on PIP function from top menu before playback for dual cam models.
- Click on main or secondary display to exchange display location.



*Note:*

*PIP function must be turned on prior to dual video playback.*

# Transferring Files

Video files can be transferred to your electronic device for viewing and storage.

## USB Cable

1. Connect a USB cable from the camera’s USB port to computer.
2. Camera will automatically turn on and should show “Mass Storage” on display.
3. Computer should now detect the camera as a flash drive in directory.

## Card Reader/MicroSD Slot

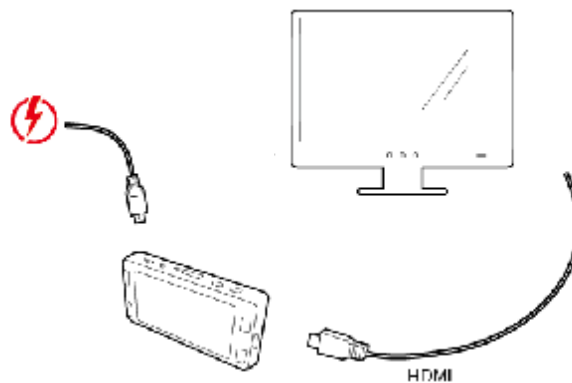
Use a Micro SD card adaptor (purchase separately) or a compatible electronic device with a MicroSD slot (ex: tablet). Follow the manufacturer’s instructions.

# Video Output

Choose one of the methods below to install the output connection.

## HDMI (TV)

Connecting a mini-HDMI to HDMI from your camera to a compatible television/monitor will automatically output the camera's screen. Recording functions are disabled while streaming video.



# Firmware Update

See the support section on DOD Tech's website for any available firmware updates and instructions.



*Note:*

*Please ensure stable power during firmware update, otherwise may result in update failure or malfunction.  
When update completes, system will show option to format SD card. Please ensure to format SD card by computer / dashcam to prevent update repeatedly.*

## About SD Card

- Test the Micro SD memory card regularly as the memory card is a consumable item, and needs to be replaced periodically.
- Reformat the memory card in the camera menu every two weeks to extend usable lifetime. This should only be done AFTER desired files have been saved elsewhere, such as portable hard drive. Formatting the memory card will clear all files, including RO files.
- DOD is NOT responsible for any malfunctions caused from the use of disingenuous, modified, or unauthorized parts and accessories.

# Firmware Update

- DOD does NOT guarantee the recording of accidents which may produce excessive force of impact causing the device to malfunction and fault.
- The working temperature of this product is -20°C~65°C(-4°F~149°F). Please ensure the device is stored within the temperature range; or the device may be damaged and or malfunction, which these circumstances are not covered by warranty.
- DOD is NOT responsible for the loss of any recorded video during operation due to unexpected factors or force majeure when driving.
- The video recordings filmed by this Dash Cam are intended for personal use ONLY.
- Suggested to use Class 10 and MLC flash memory cards.
- DOD Tech recommend **NOT** to use Sandisk branded or TLC flash memory cards.

*Note:*



*64GB or greater capacity cards will show “SD Card Error” when first insert into dash cam. Please use formatting function in system menu to format SD card prior to usage to ensure proper functionalities.*

*When formatting via computer, 64GB or greater requires formation program to transform original exFAT format to FAT32 to properly function in dash cam.*



# CS9 Specifications

Video Resolution	Front: 1920x1080@30fps, optional 60fps when used alone Rear: 1920x1080@30fps
Sensor	SONY STARVIS CMOS sensor
Wide-Angle Lens	Front: 145° Rear: 140°
Aperture	Front: <i>f</i> /1.6 Rear: <i>f</i> /1.6
ISO Sensitivity	up to ISO 12800
Display	2.7" 16:9 TFT LCD
Video Format	H.265 MOV
Recording Media	micro SDHC/SDXC Card (Up to 128GB)
Audio	Mic and Speaker(Mono)Equipped
Battery	3.7V 900mAh Lithium Battery
Power Input	5V 1.5A
Size	112.6 (L) x 61.5(W) x 33.4 (H)mm 75.2(L) x 26 (W) x 38.8 (H)mm
Weight	110g / 41g
Operating Temperature	-20°C ~65°C



## Caution:

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.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### RF Exposure

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

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