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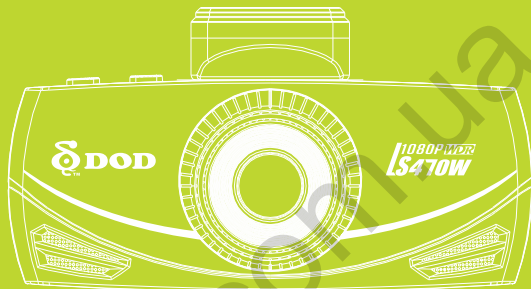
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***LS470W***

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## USER MANUAL

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## 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 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 Charger**

- Use only the 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 power cable with wet hands.

### **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 over a period of time naturally whether the battery is used or not.
- Charge the dash camera for 5 minutes if you are unable to turn on the camera.

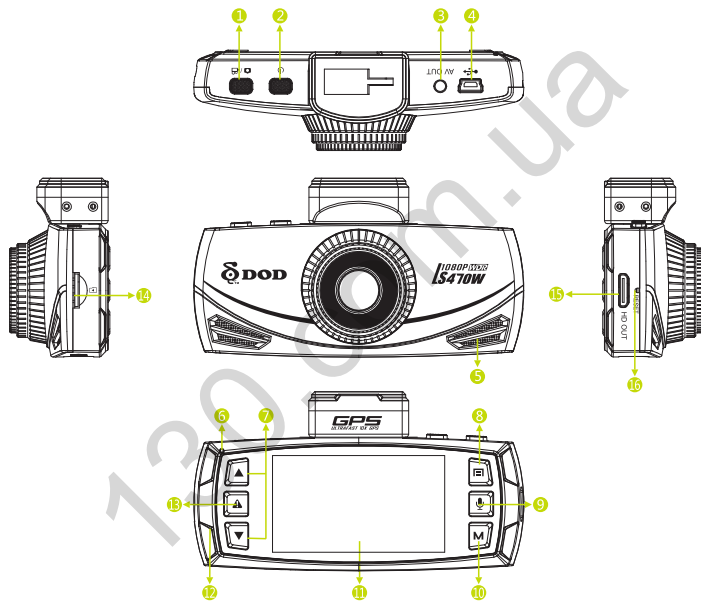
## Package Contents

|                                                                                                                              |                                                                                                               |                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <p>1</p>  <p>DOD LS470W Dash Camera</p>     | <p>2</p>  <p>User Manual</p> | <p>3</p>  <p>Suction Mount</p>       |
| <p>4</p>  <p>DOD Player Installation CD</p> | <p>5</p>  <p>Car Charger</p> | <p>6</p>  <p>Adhesive Tape Mount</p> |

*Note: Supplied accessories may vary by region.*



## Camera Controls



## Camera Controls

### 1 Record/Shutter/Confirm [ ]

- Video Recording- Starts/Stops recording.
- Photo- Takes a photo.
- Video Playback- Plays/Pauses video.
- Settings- Selects highlighted item.

### 2 Power [ ] Turn on/off the unit.

### 3 A/V Video Out Port

### 4 USB Port

### 5 Speaker

### 6 Operation Status LED

Indicates the device operating status.

- Steady Blue- Powered off and charging.
- Steady Pink- Powering up while charging or is in Playback Mode.
- Steady Red- In Standby Mode but not charging.
- Flashing Red- Recording video, not charging.
- Flashing Blue & Pink- Recording video and charging.

### 7 Arrow Key [ ] / [ ]

Used to navigate through menus and select videos for playback.

### 8 Menu [ ]

#### While recording the video

- Press [  ] to stop recording.
- Enter the Standby Mode, and
  - Press [  ] once to access the Camera Menu.
  - Press [  ] twice to access the System Menu.

*Note: Cannot access menu while recording.*

#### In the Photo Mode

Switch between two menu settings by pressing [  ].

- Camera Menus Settings.
- System Menu Settings.

#### In the Video Playback Mode

- Press [  ] to enter the menu settings.
- Delete file /protect file/create a slideshow.

### 9 Mutes Microphone [ ]

To turn off the audio recording, press [  ] and hold it until the icon  appears.

### 10 Mode [ ]

- Press [  ] to stop recording.
- Enter the Standby Mode.
- Switch between 3 Modes by pressing [  ]:
  - Video Recording- Starts/Stops recording.
  - Photo- Takes a photo.
  - Video Playback- Plays/Pauses video.



---

## Camera Controls

### 11 2.7" LCD Screen

### 12 Microphone

### 13 SOS Emergency File Lock [ ]

Press [  ] while recording videos to lock the current file from being overwritten.

### 14 Micro SD Slot

- A Micro SDHC card rated at class 10 or above is required.
- Supports up to 32GB.

### 15 HDMI Out Port

- Outputs either live or previously recorded video over the HDMI connection.
- The camera is unable to record while HDMI output is enabled.

### 16 Reset Button

- Press to force the device to reboot.
- If camera freezes, use a small pin to press button.

## Getting Started

### Setting Up Your Camera

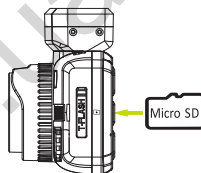
Set up your camera inside your vehicle to ensure easy access to power.

#### **1. Insert the Micro SD Memory Card.**

- Format the Micro SD card when using the unit for the first time.
- To save recorded videos stably, DOD Tech recommends formatting your SD card every two weeks.

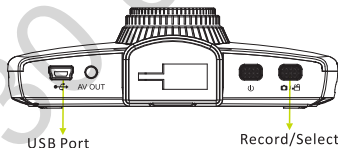
*Note: Please purchase a micro SD card for use with this unit.*

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



#### **2. Connect the Power Adapter.**

- Plug the DOD power adapter into your vehicle's power outlet.
- Insert the USB plug into the USB port.



#### **3. Turn on Your Vehicle.**

Power from your vehicle through the outlet will automatically turn on your camera and when power is turned off your camera will shut off automatically. The camera automatically begins recording every time it is turned on and stops recording when it is turned off.

*Note: In some vehicles, the power outlet is continuously providing power, even when the vehicle is turned off.*



## Getting Started

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

- Press [  ] to turn on or turn off the unit.

### **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 the Settings below.

#### **Select Language**

- Select the language of your choice by pressing [  ] / [  ].
- Press [  /  ] found on the top of your unit to confirm your selection.

#### **Set the Time Zone**

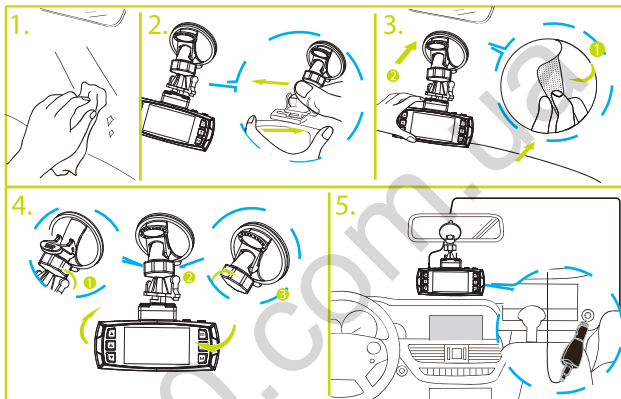
- Scroll down and select your respective time zone.
- Press [  /  ].
- Your camera will automatically sync with the time and date to the atomic clock once the time zone is correctly set.

*Note: The time zone must be manually adjusted for daylight savings.*

#### **Select the Speed Unit of Your Choice**



## Installing Your Camera



### **1. Clean Windshield**

- Wipe down both the interior and exterior glass for the best image quality.
- Keep the mount secured to the windshield.
- Please insert Micro SD card to the unit.

### **2. Attach the Mount to Your Camera**

### **3. Prepare the Camera for Installation**

- Peel off the protective mount cover.
- Find a location which does not obstruct your view when driving.
- DOD Tech recommends placing the camera behind the rear view mirror without obstructing either lenses or camera functions.



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## Installing Your Camera

### **4. Adjust the Angle**

- The mount has an adjustable ball joint which 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 arm to secure the mount.

### **5. Install the Cigarette Adapter**

- If you have not done so previously, plug the cigarette adapter into your vehicle's power port.
- Insert the USB plug (opposite end of the power) into the USB port on the camera.
- The wiring can be hidden in the headliner, seams and rubber strips around the perimeter of the windshield.

### **6. Remove the Protective Lens Cover**

Your camera is now installed and ready for daily use.

#### **Tips:**

- If grease, fingerprints, or blots are found on the external/internal windshield of the car, please wipe it clean or install the unit on an unaffected area. Blots may worsen the recording quality or may cause the bracket to be unstable.
- Do not turn on Motion Detection unless your vehicle is parked. If Motion Detection is enabled while driving, the camera may not continuously record.
- DOD Tech recommends setting the G-Sensor to low.

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## Basic Camera Operation

### Everyday Operation

Your dash camera 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).

### Continuously Powered Electrical Outlet

If your camera is continuously powered, the camera will not automatically shut down when your vehicle is turned off. To turn off your camera, the USB cable can be pulled out or the power button can be pressed (see the below section).



The camera may be left on while parked to capture video while you are away. “Continuously-Powered-Electrical-Outlet” operation will slowly drain your vehicle’s battery and may eventually prevent your car from starting.

### Manually Turning On / Off Your Camera

- Press [  ] to turn on /off your camera.
- Press [  ] to begin recording.



## Camera Modes

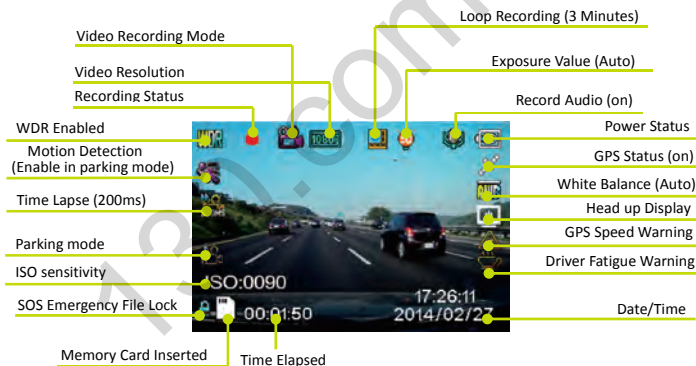
When the camera is not recording video, you can switch between three modes by pressing the [ **M** ]:

1. Video Recording
2. Photo
3. Video Playback

### 1. Video Recording Mode

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

- Recording Mode: Press [ **●** ] to stop recording.
- Standby Mode: Press [ **M** ] to access two Modes: Photo Mode and Playback Mode.



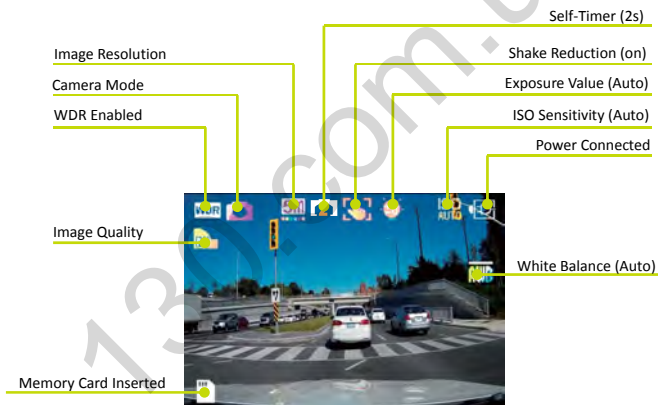
*Note: GPS Icon keeps flashing when it has not received the GPS signal. HUD and Speed Warning only work when received the GPS signals.*

## Camera Modes

### 2. Photo Mode

- Press [ **M** ] once to enter the Photo Mode during the Standby Mode.
- Press [ **Q/** ] to take a photo.

*Note: Photo Mode is only accessible during the Standby Mode.*



## Camera Modes

### 3. Playback Mode

You can watch previously recorded videos in Playback Mode.

Press [ **M** ] twice to enter the Playback Mode during the Standby Mode.

- **Play the Video**

- Press [ **⏮** / **⏭** ] to play and pause.
- Press [ **⏮** ] / [ **⏭** ] to move or back forwards and press [ **M** ] to enter the Playback Mode.

- **Delete Files from the card** (This cannot be undone).

- Press [ **⏮** ] to enter Playback Menu during Playback Mode.
- Press [ **⏮** ] / [ **⏭** ] to delete the file and press [ **⏮** / **⏭** ] to confirm.

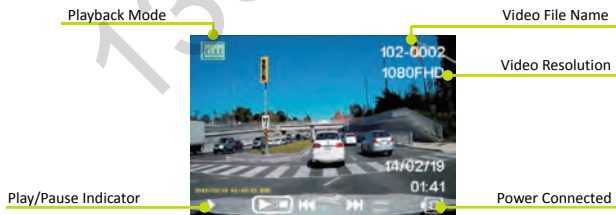
- **Protect the current file from being overwritten or erased**

- Press [ **⏮** ] to enter Playback Menu during Playback Mode.
- Press [ **⏮** ] / [ **⏭** ] to lock the file.
- Press [ **⏮** / **⏭** ] to confirm. If protected, a blue padlock icon will appear at the top of the screen.
- Press [ **⏮** ] to exit.

*Note: The "Format" setting will erase all files including locked files.*

- **Slideshow**

- Press the menu button and navigate to slideshow.
- 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 pages are accessible:

- Video Recording Settings
- System Settings

The menu settings can be switched by pressing [  ].

If you move the cursor before pressing [  ], you must exit and try again.

*Note: Press [  /  ] to enter the camera settings when recording.*

### Video Recording: First Settings Page

Accessed by pressing [  ] once.

|                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>WDR (Wide Dynamic Range)</u></b><br>Cannot be changed.<br>Shows WDR processing is enabled.                                                                                                                                                                                                                                                      | <b><u>Resolution</u></b><br>Changes the video resolution. Lower the resolution for smaller file sizes but this reduces video quality.<br><i>Recommended setting: 1080P FHD.</i>                     |
| <b><u>Exposure Value</u></b><br>Sets the brightness /darkness of the video.<br>Video too bright? Set between -1 to -3.<br>Video too dark? +1 to +3.<br><i>Recommended setting: 0.</i>                                                                                                                                                                 | <b><u>White Balance</u></b><br>Sets the white balance.<br><i>Recommended setting: Auto.</i>                                                                                                         |
| <b><u>Record Audio</u></b><br>Switches the microphone on/off.<br>Can be used during recording by pressing button [  ].                                                                                                                                               | <b><u>Date Stamp</u></b><br>Imprints the time and date on the recorded video.                                                                                                                       |
| <b><u>Loop Recording</u></b><br>Can be set to 2, 3 or 5 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 prevent the camera from writing new files when the memory card is filled. | <b><u>G -Sensor</u></b><br>Measures shock forces. The settings from “low to high” determine the amount of force needed to lock the file from being overwritten.<br><i>Recommended setting: low.</i> |



## Camera Settings

### Video Recording: First Settings Page

Accessed by pressing [ F1 ] once.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parking mode (Default: off)</b><br>When function is enabled, dashboard camera will automatically switch to parking mode if vehicle is stationary for over 10 minutes. <ol style="list-style-type: none"><li>1. Automatically records a 15-second video when motion detected within view range of camera.</li><li>2. Automatically records and locks a 1-minute video when excessive force of impact is detected by G-sensor.</li><li>3. Unit will return to normal recording mode if vehicle moves continuously for 3 seconds or longer.</li></ol> Note: <ul style="list-style-type: none"><li>● Parking Mode requires consistent power supply via vehicle battery. (Power cord with low-voltage protection is recommended to prevent battery drainage.)</li><li>● Please ensure to enable G-sensor function in setting menu before switch to Parking Mode. (G-sensor sensitivity Default: Medium)</li><li>● Parking Mode will automatically shut down GPS locating, and will resume when switched to normal recording mode.</li></ul> |                                                                                                                                                                                                                                                                                                       |
| <b>Plate Stamp</b><br>Imprints a customized set of 8 digits to the recorded video. Add license plates or other identifying features to watermark your video.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Driver Fatigue Warning</b><br>Sets a timed delay before showing a visible alert reminding the driver to take a break.                                                                                                                                                                              |
| <b>GPS Logging</b> <ul style="list-style-type: none"><li>● On/Off.</li><li>● Default: On.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Speed Warning</b><br>Shows a visual warning on the Head Up Display when the set speed has been exceeded.                                                                                                                                                                                           |
| <b>Set Time Zone</b><br>Sets the current time zone for GPS time and date calibration. Not the time zone must be manually adjusted for daylight savings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Password Settings</b><br>Set a password lock which will prevent files from being deleted or the settings changed on the device.<br><i>Note: This does not prevent other users from extracting the memory card or changing the files. This feature should be turned off during regular driving.</i> |
| <b>Speed Units</b><br>Select Metric or Imperial units.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Image Rotation</b><br>Rotates the recorded image 180°. Used if the camera is mounted on the dashboard.                                                                                                                                                                                             |

## Camera Settings

### Video Recording: First Settings Page

Accessed by pressing [ F1 ] once.

|                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b><u>Time-Lapse</u></b><br/>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.</p> | <p><b><u>Path Analysis</u></b><br/>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 when the unit is turned off.<br/><i>The default setting is "off"</i></p> |
| <p><b><u>Head Up Display</u></b><br/>After a customized period of time a new screen will appear showing speed and direction. If enabled, the GPS speed warning will appear on this screen.</p> | <p><b><u>ISO Stamp</u></b><br/> <ul style="list-style-type: none"> <li>● On/ Off</li> <li>● Default: On.</li> </ul> </p>                                                                                                                                                                                                                           |



## Camera Settings

### System Settings: Second Setting Page

Accessed by pressing [  ] twice.

|                                                                                                                                        |                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b><u>Format</u></b><br>Completely deletes all files including locked footage on the Memory Card and optimizes the card for recording. | <b><u>Language</u></b><br>Sets the language.                                                                                |
| <b><u>Date/Time</u></b><br>Sets Year/Date/Time format.                                                                                 | <b><u>Frequency</u></b><br>Adjusts the camera's frequency setting to minimize flickering and banding in the recorded video. |
| <b><u>Beep Sound</u></b><br>Turns on/off notification sounds.                                                                          | <b><u>Screen Saver</u></b><br>Turns off the screen after the set time.                                                      |
| <b><u>TV Mode</u></b><br>Switches between the NTSC and PAL video output standard.                                                      | <b><u>Version</u></b><br>Shows the model name and current firmware version.                                                 |
| <b><u>Default Settings</u></b><br>Sets all settings back to the original settings.                                                     |                                                                                                                             |

## Camera Settings

### Photo Settings

Accessed in "Photo Mode".

|                                                                                                                 |                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>WDR (Wide Dynamic Range)</u></b><br>Cannot be changed. Shows WDR processing is enabled.                   | <b><u>Image Size</u></b><br>Adjusts the size of the image. Higher megapixels increases file size and details.                                                                      |
| <b><u>Color</u></b><br>Apply a color filter to the photo.                                                       | <b><u>Anti-Shaking</u></b><br>Helps reduce the effects of shaking when taking a photo.                                                                                             |
| <b><u>Capture Mode</u></b><br>Sets a timed delay before taking a photo.                                         | <b><u>White Balance</u></b><br>Set the White Balance.<br><i>Recommended setting: Auto</i>                                                                                          |
| <b><u>ISO</u></b><br>Change the ISO settings. Higher ISO reduces motion blur at night but lowers video quality. | <b><u>Exposure</u></b><br>Sets the brightness /darkness of the video.<br>Photo too bright?<br>Set between -1 to -3.<br>Photo too dark? +1 to +3.<br><i>Recommended setting: 0.</i> |
| <b><u>Date Stamp</u></b><br>Imprints the date at the captured photo.                                            |                                                                                                                                                                                    |



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## 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. Turn on your camera. A black screen should appear showing "Mass Storage".
3. Press the "Record/Select" button. A blue screen should appear labeled "Mass Storage".
4. Your computer should now detect a new device. The memory card and videos can be accessed similar to a USB flash drive.

### **Card Reader/Micro SD Slot**

Use a memory card reader (separately purchased) or a compatible electronic device with a Micro SD slot (ex: tablet). Follow the manufacturer's instructions.

## Video Output

### **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.

### **AV Port**

Using a 3.5mm AV cable, plug the 3.5mm connector into the camera's AV port. Plug the RCA end into a compatible port on your television or monitor.

## Firmware Update

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

## DOD Video Player

The DOD Video Player is a user-friendly program to playback videos and to visualize your position and speed on your PC or Mac. Please see the “Transferring Files” section to find out how to view or transfer your video files.

### **Installing the DOD Video Player**

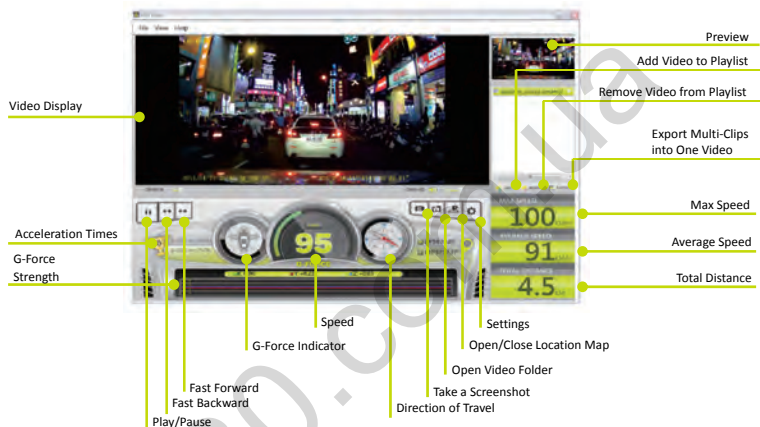
Insert and launch the installer from the CD included or download the software from the support section on DOD Tech’s website.

### **Launching the DOD Video Player**

Once launched, the player will appear on your screen.



## DOD Video Player



### To Play a Video

Add your file to the list of videos. To do this, there are two options:

- Click “File”, click “Open”, and navigate to the location of your files.
- Press the “ADD” button located below the list of videos.
- Drag and drop the desired file into the DOD Player window, the video file will automatically start. Double click on the video you wish to play. The video will then load into the Player.

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