

# DVR 789HD

## Full HD Action Camcorder

### User Manual



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# Introduction

Thank you for purchasing this digital HD Action Camcorder. Everything you need to take quality digital videos and photos is included with your camcorder.

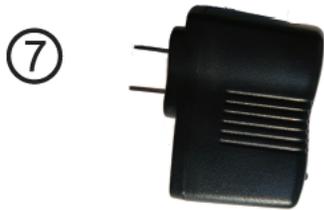
Vivitar makes capturing those special moments as easy as possible.

Please read this manual carefully first in order to get the most out of your digital camcorder.

## **NOTE:**

- *Your digital action camcorder supports a Micro SD Memory Card (up to 32GB, Class 6 or higher).  
In order to use your digital action camcorder normally, please insert the Micro SD Memory card before use.  
Micro SD Memory cards are not included and need to be purchased separately.*
- *This camera is a plug and play device. You can download the pictures and videos without the software by directly accessing the memory card from your computer. We would however recommend that you install the 'Vivitar Experience Image Manager' Software to enjoy the full Vivitar experience.*

# What's Included



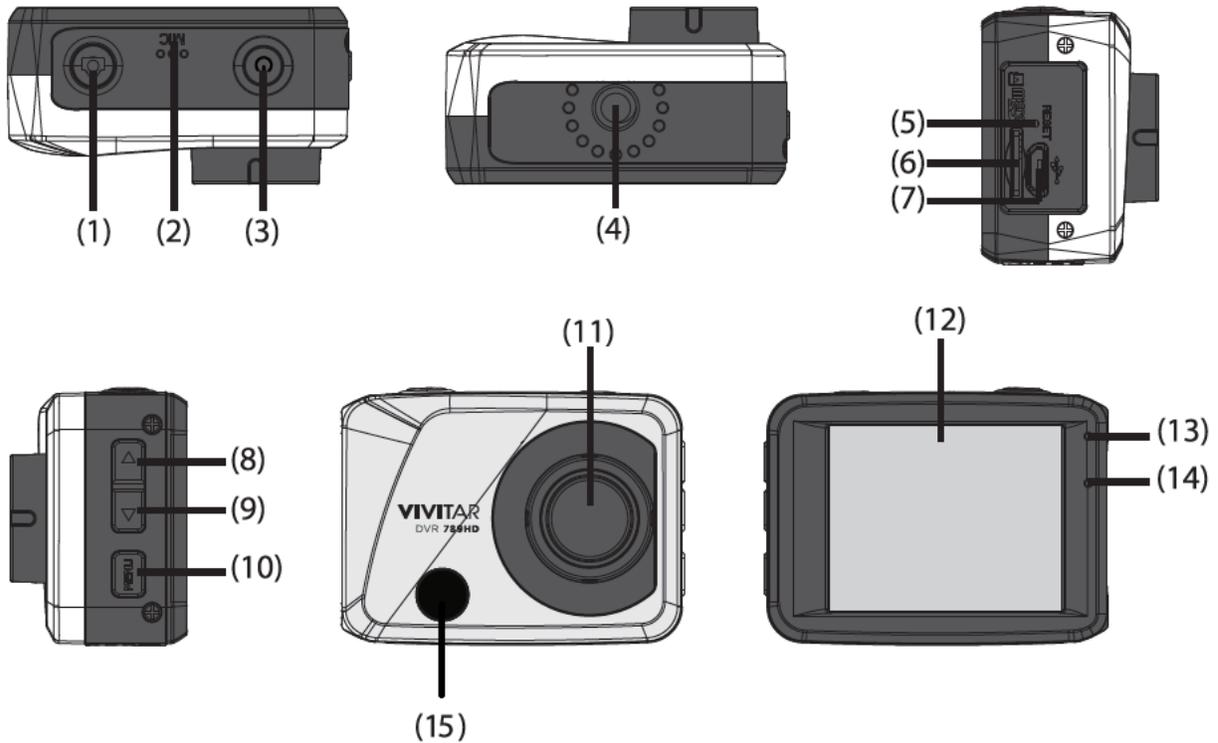
1. Action Camcorder
2. USB Cable
3. Wireless Remote Control
4. Waterproof Casing

5. Bicycle Mount
6. Helmet Mount & Band
7. AC Adapter
8. Built-in Lithium Battery (not shown)

## NOTE:

- *Micro SD Card not included.*

# Parts of the Camcorder



1. Shutter / OK button
2. Microphone
3. Power / Mode Button
4. Tripod Mount
5. Reset Button
6. Micro SD Memory Card Slot
7. Micro USB Interface
8. UP / Zoom In Button
9. Down / Zoom Out Button
10. Menu / Back Button
11. Lens
12. LCD Screen
13. LED Busy Light Indicator
14. LED Charge Light Indicator
15. Infrared Signal Reception Light

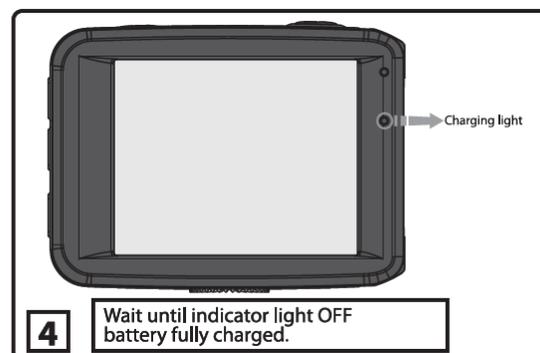
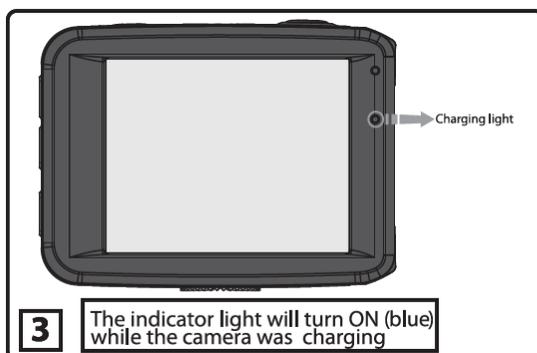
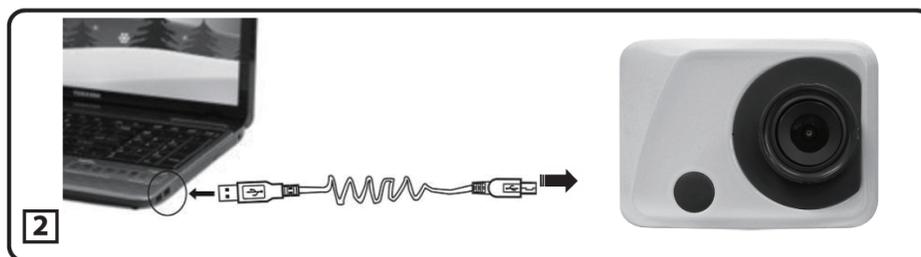
# Initial Camcorder Setup

## CHARGING THE BATTERY

To charge the battery, follow either one of the charging methods below:

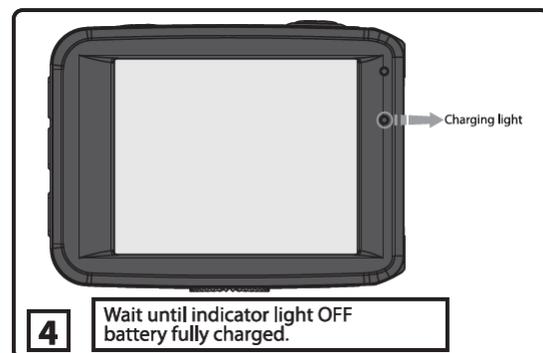
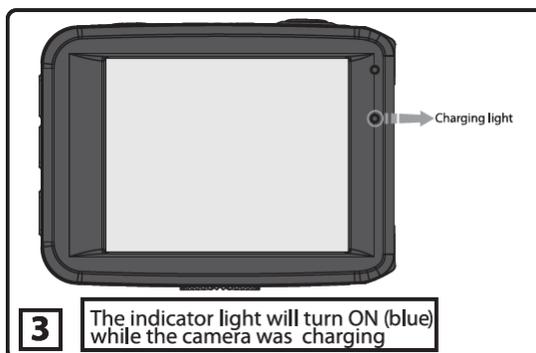
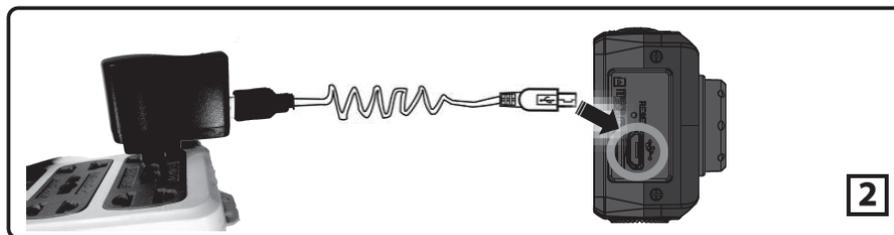
### CHARGING VIA THE COMPUTER

1. Power off the camera.
2. Use the supplied USB cable to connect the smaller end of the USB cable into the USB slot on the camcorder. Connect the other end to the USB interface of your computer. See images below: 1 and 2.
3. The LED charge light turns on while charging is in progress. The charge light turns off when the battery is fully charged. See images below: 3 and 4.



## CHARGING VIA THE AC ADAPTER

1. Power off the camera.
2. Use the supplied USB cable to connect the smaller end of the USB cable into the USB slot on the camcorder. Connect the other end to the cable to the AC Adapter and then plug the AC Adapter into a power socket. See images below: 1 and 2.
3. The charge light will turn off when the battery is fully charged.  
See images below: 3 and 4.



## **BATTERY INDICATOR**

The following icons appear on the camera and indicate the status of the camera's battery power level:

Battery Indicator	Description
	The battery level is full.
	The battery level is half.
	<p>The battery level is low, indicating to prepare for recharging the built-in lithium battery.</p> <p>Once 'Low Battery' appears on the LCD, this indicates that the battery level is completely exhausted, and the camcorder automatically turns off after a few seconds.</p> <p>Please fully recharge the battery.</p>

## INSTALLING THE MICRO SD MEMORY CARD

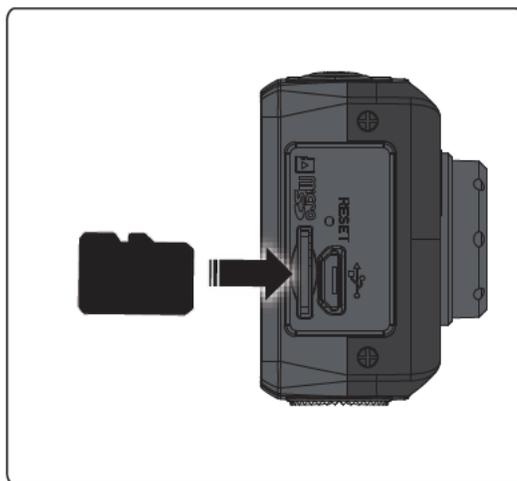
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Make sure a Micro SD Memory card Class 6 or higher (up to 32 GB) has been properly inserted into your camcorder. Micro SD Memory card not included.

To properly insert the Micro SD Memory Card:

1. Power off the camcorder.
2. Insert the Micro SD Card into the Micro SD Card slot in the direction as shown on the camcorder (see SD icon by the Micro SD card slot).
3. Gently press the Micro SD Card until you hear a slight clicking sound. This indicates the memory card has been inserted correctly.
4. To remove the card, gently press on the edge of the card to release it and pull the card out.
5. If the card is inserted or removed while the camcorder's power is on, it may damage the card and/or any recorded data. Always confirm that the power is off before inserting the card into the camcorder.

**NOTE:** Make sure there is room on the Micro SD Memory Card to capture images. If the memory card is full, additional images cannot be captured and saved to the card.



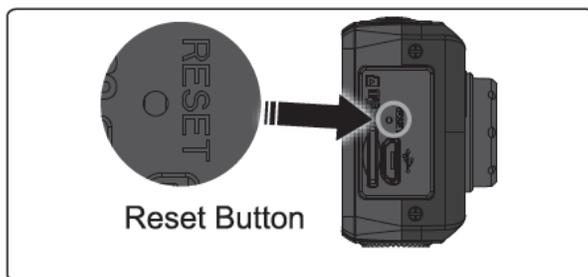
## TURNING ON AND USING THE CAMERA

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Press the **POWER** button, located on top of the camcorder, to turn on the camcorder.



**RESET:** If the camcorder becomes unresponsive, insert a thin pin into the RESET hole and gently push the pin until you hear a slight 'click' sound. The camcorder will then reset.



**NOTE:** This camera includes a built-in lithium battery. To charge the battery, connect the camera using the USB cable to the computer's USB port or to an AC charger. The charge light will turn off when the battery is fully charged.

# Remote Control



The remote control allows you to power on/off the DV and to take photos and videos up to 30 meters away without operating the DV directly. Simply press a button to use your action camcorder remotely.

You can use the remote control to record videos, take photos and power on/off your camcorder, without operating the camera.

- **Power On/Off:**

Power On: Press and hold the **Power** button until the button indicator light turns off. The DV will power on.

Power Off: While the camera is on, press and hold the **Power** button until the button indicator light turns off. The DV will power off.

- **Video Capture:**

Press the **Video** button after the camcorder has been powered on. If the camera is not in Video Capture Mode, the camera will then enter the Video Capture Mode. Once in Video Capture Mode, press the **Video** button to start recording video and press again to stop recording your video.

- **Photo Capture:**

Press the **Photo** button after the camcorder has been powered on. If the camera is not in Photo Capture Mode, the camera will then enter the Photo Capture Mode. Once in Photo Capture Mode, press the **Photo** button to take a photo.

**NOTE:** Each time a button is pressed, the Button Indicator Lights flash a red light.

# Main Camcorder Modes

Your camcorder has different modes for the various camera functions.

Short press the  **Power/Mode** button to toggle between the modes.

## VIDEO CAPTURE MODE

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Use this mode to capture videos with your digital camcorder.

To record a video, please check that the DV is in Video mode. If the  video icon is not displayed on the LCD screen, short press the  **Power/Mode** button repeatedly until it appears. To start recording, press the  **Shutter/OK** button. Press the  **Shutter/OK** button again to stop recording. The video is automatically saved to your camcorder's memory card.

## PHOTO CAPTURE MODE

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Use this mode to capture pictures with your camcorder.

To take a photo, please check that the DV is in Photo mode. If the  photo icon is not displayed on the LCD screen, short press the  **Power/Mode** button repeatedly until it appears. Press the  **Shutter/OK** button to capture your photo. The picture is automatically saved to your camcorder's memory card.

## PLAYBACK MODE (PHOTOS & VIDEOS)

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Use this mode to view and manage the photos and videos on your camcorder.

Please check that the DV is in Playback mode. Short press the  **Power/Mode** button repeatedly until the Playback mode appears.

You can scroll through the photos and videos that you've previously taken to view or delete them as desired.

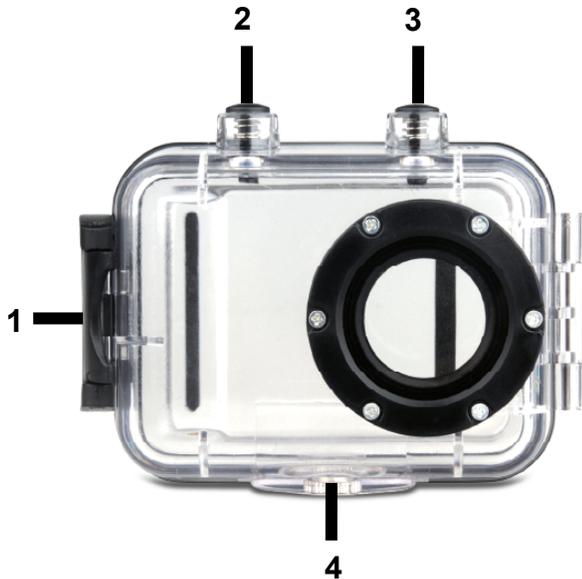
# Camcorder Technical Specifications

Image Sensor	CMOS Sensor
Video Resolution	1080p@30fps, 720p@60fps, 720p@30fps
Photo Resolution	12M (4032x3024), 8M (3264x2448), 5MP (2592X1944)
File Format	MOV (Video), JPEG (Photo)
External Memory	Micro SD Memory card, Class 6 or higher, up to 32GB
LCD Display	2.0" TFT
Lens Focus Length	2.8M (Fixed lens)
White Balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent
Light Exposure (Photo)	+2.0, +5/3, +4/3, +1.0, +2/3, +1/3, +0.0, -1/3, -2/3, -1.0, -4/3, - 5/3, - 2.0
Exposure	Auto, 100, 200, 400
Microphone	Yes
Auto Power Off	Off, 1 min., 3 min.
Languages	English, French, German, Italian, Portuguese, Spanish
Interface	Micro USB
System Requirements	MICROSOFT® Windows 7 or higher MACINTOSH OSX v10.9 or higher
Battery	Built-in 700mAH Lithium Battery

# Camcorder Mounts and Accessories

## WATERPROOF CASE

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1. Clamp
2. Shutter Release
3. Power/Mode Button
4. Tripod Mount

Your action camcorder comes with a waterproof casing for underwater action and added durability. To assemble your camera to the case, follow the instructions below:

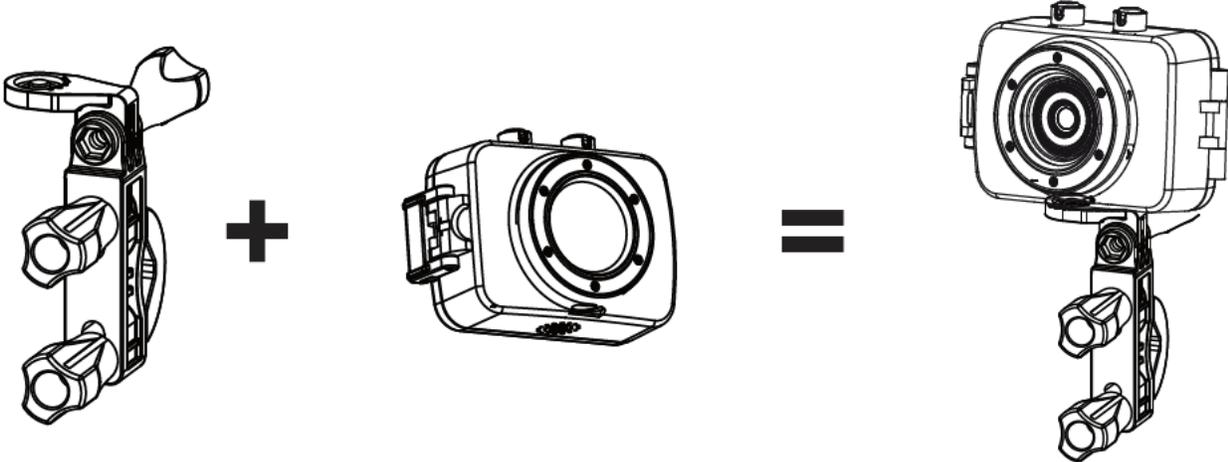
1. To open the case: Insert a finger at the half circle of the latch by prying the latch up - away from the case.
2. Insert the camera lens forward into the case.
3. Before sealing the waterproof case, make sure the camera housing's rubber seal clean. Close the door and secure the latch.
4. While the camcorder is in the waterproof casing, press the **POWER/MODE** button to select Video Capture Mode, Photo Capture Mode or Playback Mode. Press the **Shutter** button for recording your videos and capturing your photos.

**NOTE:**

- *A single hair or grain of sand can cause a leak. You can test by closing the case without inserting the camera. Submerge the case completely in water for about a minute. Remove the case from the water, dry off its exterior with a towel, and then open the case. If the entire interior is dry, the case is safe for use under water.*
- *Before opening the waterproof casing and putting the device in, carefully check whether the waterproof ring of the casing is flat and smooth.*
- *After placing the device into the waterproof casing and closing the cover, carefully check whether the waterproof ring is deformed due to pressure.*
- *After every use in salt water you will need to rinse the outside of the housing with non-salt water and dry. Not doing this can eventually cause corrosion of the hinge pin and salt buildup in the seal, which can cause failure.*
- *To clean the seal, rinse in fresh water and shake dry (drying with a cloth may cause lint to compromise the seal). Re-install the seal into the grooves of the housing.*

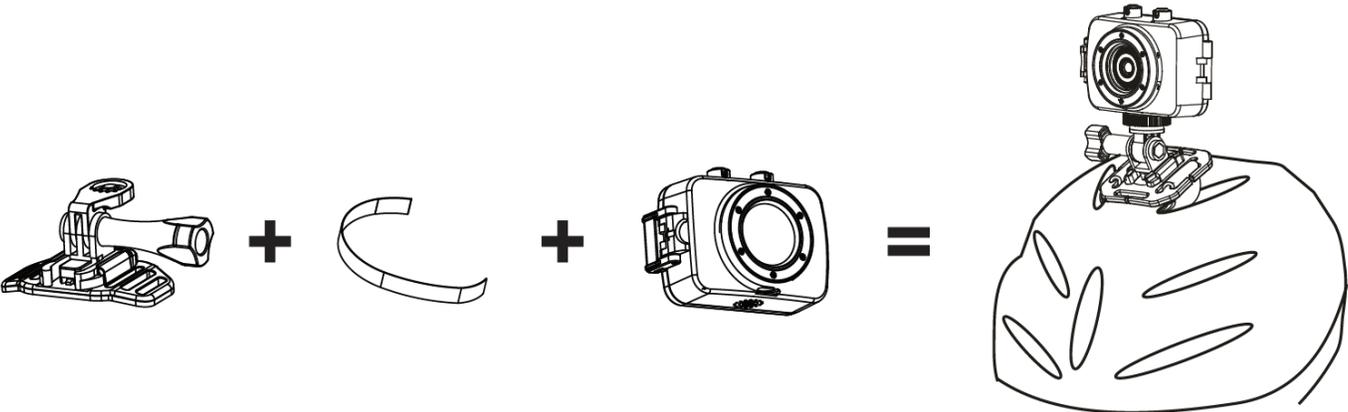
# INSTALLING THE BICYCLE MOUNT: HANDLEBAR CLAMP

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# INSTALLING THE HELMET MOUNTING SYSTEM

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# Powering On Your Camcorder

## TURNING POWER ON AND OFF

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1. Press and hold the **POWER** button for about 3 seconds to turn on the camcorder.  
The LCD screen briefly displays the 'Vivitar' screen and opens the default Video Capture Mode. A beep can be heard from the camcorder's buzzer.
2. Press and hold the **POWER** button again for about 3 seconds to turn the power off.  
The LCD screen briefly displays 'Goodbye' screen and then powers off. A beep can also be heard from the buzzer as the camcorder is being powered off.

## AUTO POWER OFF – POWER SAVING FEATURE:

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Your digital camcorder includes an Auto Power Off power feature that automatically turns off your camcorder after a specified time that your camcorder is left idle. The specified time can be set using the 'Auto Power Off' menu option. Once the camcorder is automatically powered off, you can long press the **POWER** button to power on the camcorder.

# Changing Camcorder Mode

## THREE MAIN MODES

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1. **Video Capture Mode** - Use this mode to capture videos with your camcorder.
  2. **Photo Capture Mode** - Use this mode to capture photos with your camcorder.
  3. **Playback Mode (for photos and videos)** – Use this mode to view your captured photos and videos.
- When the camera is first powered ON, the Video Capture Mode will be active.
  - The icons that appear on the LCD screen are the best default settings so that you can begin to capture and enjoy clear quality photos and videos.

## SWITCHING MODES

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After turning on the camcorder, you can short press the **POWER/MODE** button to switch between the three modes in turn:

- In Video Capture Mode, press the **SHUTTER** button to start recording and press it again to stop.
- In Photo Capture Mode, press the **SHUTTER** button to take photo.
- In Playback Mode, press the **SHUTTER** button to play back your captured Video.



When in Video Capture Mode, this icon will display on the top-left corner of the LCD display.



When in Photo Capture Mode, this icon will display on the top-left corner of the LCD display

When in Playback Mode, a ► play icon (for videos) or  a photo icon (for photos) will display on the top-left corner of the LCD display.

# Navigating the Menus

## PHOTO CAPTURE, VIDEO CAPTURE AND PLAYBACK MENUS

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To access the Main Menu for each Mode:

1. Press the **MENU** button to open the Main Menus for the current mode.
2. Press the **▼ DOWN** or **▲ UP** button to select a specific menu.  
The selected option appears highlighted.
3. Press the **SHUTTER/OK** button to confirm and save your selection and open the options for the menu you have selected.
4. To select a specific option, press the **▼ DOWN** or **▲ UP** button and then the **SHUTTER/OK** button to save the selected option and return to the Main Menu.

### **NOTE:**

*To go back from the submenus or exit the Main Menu, press the **MENU** button.*

## CAMCORDER SETTINGS MENU

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 To access the Camcorder Settings Menu:

1. Press the **MENU** button while in the Video Capture or Photo Capture Mode. This opens the Main Setup screen.
2. Press the **▼ DOWN** or **▲ UP** button to select a specific menu.
3. Press the **SHUTTER/OK** button to confirm and save your selection and open the options for the menu you have selected.
4. To select a specific option, press the **▼ DOWN** or **▲ UP** button and then the **SHUTTER/OK** button to save the selected option and return to the Main Menu.

### **NOTE:**

- *At any time, you can press the **MENU** button to exit the menus and return to the previous screen.*
- *Once you change a setting, the setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.*
- *After selecting your desired setting, some settings appear as an icon on the LCD screen in Capture Mode – indicating the option selected.*

# Video Capture Mode

The Video Capture Mode allows you to capture videos with your digital camcorder.

When first powering on your camcorder, Video Capture Mode appears.



The Video Capture icon appears on the LCD screen.

## TAKING A VIDEO

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### 1. Selecting the Scene with the LCD Display:

While in Video Capture Mode use the LCD display to direct the camcorder at the scene you would like to capture.

**NOTE:** *The time available for video capture (as per the installed memory card size and selected resolution) is shown on the top left side of the LCD screen.*

### 2. Changing Resolution:

If you would like to change the resolution, press the **MENU** button and then press the **▼ DOWN** button to select 'Movie Size'. Next, press the **SHUTTER/OK** button to view the Movie Size options. Press the **▲ UP / ▼ DOWN** button to select an option and then press the **SHUTTER/OK** button to confirm the option.

The Movie Size options include:

**1080FHD - FHD 1920x1080P@30fps**

**720P - HD720P 1280X720@60fps**

**720P - HD720P 1280X720@30fps**

### 3. Capturing the Video:

**START:** Press the **SHUTTER** button to start the video capture.

While the video capture is in progress:

- The camcorder's LED busy light turns on (red) and blinks.
- The elapsed time appears in red on the top left section of the LCD screen.
- The Video Mode icon is highlighted in red and blinks.

**STOP:** To stop the video recording, press the **SHUTTER** button again.

### 4. The video is automatically saved to the camcorder's Micro SD Memory card.

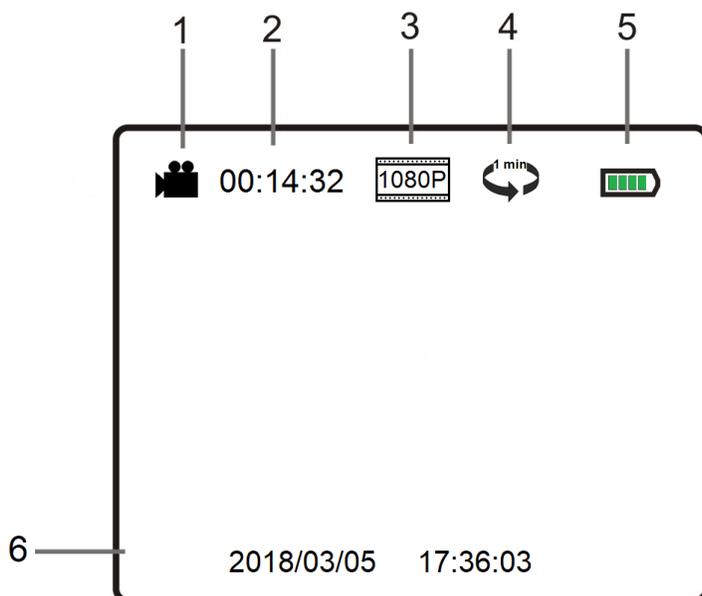
**NOTE:**

- When using the Waterproof Case, make sure to set the camcorder settings before placing it into the case.
- While capturing your video, after approximately one minute of video capture, the LCD display turns off in order to save power. The busy LED light remains on and the video continues to be captured. Press the **SHUTTER** button to reactivate the LCD display.

**VIDEO CAPTURE MODE BUTTONS**

Button	Description
<b>SHUTTER/OK</b>	<ul style="list-style-type: none"><li>• <b>START/STOP:</b> Starts and stops the video capture.</li><li>• <b>ENTERS and SAVES SELECTION:</b> Within the Menu, enters and saves the selected Menu Option.</li></ul>
<b>MENU</b>	<ul style="list-style-type: none"><li>• Opens and exits the menu options for Camera Settings.</li></ul> <p><i><b>NOTE:</b> Use the <b>UP/DOWN</b> buttons to navigate.</i></p>
<b>POWER / MODE</b>	<ul style="list-style-type: none"><li>• <b>LONG PRESS:</b> Powers the camcorder on/off.</li><li>• <b>SHORT PRESS:</b> Standby Mode: Toggles between the Video Capture Mode, Photo Capture Mode and Playback Mode.</li></ul>
<b>▲ UP</b>	<ul style="list-style-type: none"><li>• <b>NAVIGATES MENU:</b> Navigates within the Menus.</li></ul>
<b>▼ DOWN</b>	<ul style="list-style-type: none"><li>• <b>NAVIGATES MENU:</b> Navigates within the Menus.</li></ul>

# VIDEO CAPTURE MODE LCD ICON STATUS DESCRIPTION



The following icons appear on the LCD screen and indicate the selected menu options and camera status.

Item	Function	Description
1	Mode Selection	Displays the current selected Mode: <b>Video Capture Mode</b>
2	Video Counter / Record Indicator	<ul style="list-style-type: none"> <li>Standby Mode: Displays the amount of time available for video capture as per selected video resolution and memory card size.</li> <li>Record Mode: Displays the elapsed time in red as the video is being recorded.</li> </ul>
3	Video Resolution Selection	Displays the selected Resolution Setting. The Resolution options include: <b>1080PFHD</b> <b>720P 60</b> <b>720P 30</b>
4	Cyclic Record	Displays the selected Cyclic Record Setting. The options include: <b>Off (NO ICON)</b> , <b>1 minute</b> , <b>2 minutes</b> , <b>3 minutes</b> , <b>5 minutes</b>
5	Battery Indicator	Displays the status of the battery level. The battery level is full. The battery level is empty. Indication to recharge the battery.
6	Date / Time	Displays the date and time.

# Photo Capture Mode

The Photo Capture Mode allows you to capture photos with your digital camcorder.

To enter Photo Capture Mode, power on the camcorder and then short press the **POWER/MODE** button once.



The Photo Capture icon appears on the LCD screen.

## TAKING A PICTURE

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1. Selecting the Scene with the LCD Display:

While in Photo Capture Mode use the LCD display to direct the camcorder at the scene you would like to capture.

2. Changing Resolution:

If you would like to change the resolution, press the **MENU** button and then press the **▼ DOWN** button to select 'Image Size'. Next, press the **SHUTTER/OK** button to view the Resolution options. Press the **▲ UP / ▼ DOWN** button to select an option and then press the **SHUTTER/OK** button to confirm the option.

The Resolution options include:

**12M** (4032x3024)

**8M** (3264x2488)

**5M** (2592x1944)

3. Press the **SHUTTER** button to capture the photo.

The number of photos that can be captured with the available memory and selected resolution appears on the top, right section of the LCD screen.

4. The photo is automatically saved to the camcorder's Micro SD Memory card.

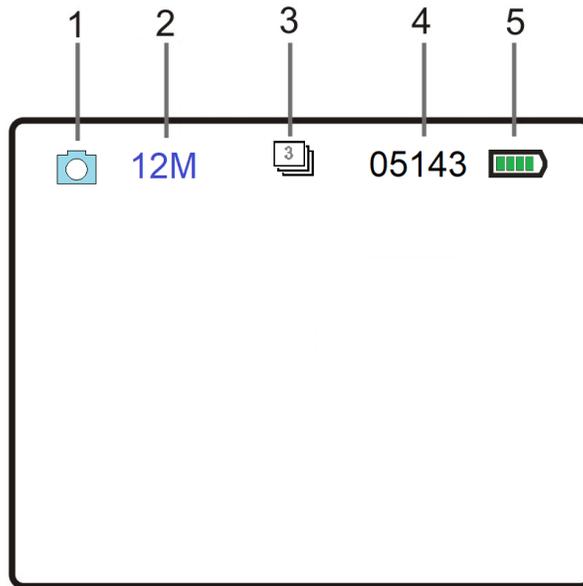
**NOTE:**

*When using the Waterproof Case, make sure to set the camcorder settings before placing it into the case.*

## PHOTO CAPTURE MODE BUTTONS

Button	Description
<b>SHUTTER/OK</b>	<ul style="list-style-type: none"> <li>• <b>PHOTO CAPTURE:</b> Press to take the picture.</li> <li>• <b>ENTERS and SAVES SELECTION:</b> Within the Menu, enters and saves the selected Menu Option.</li> </ul>
<b>MENU</b>	<p>Opens and exits the menu options for Photo Capture Mode and General Camera Settings.</p> <p><i><b>NOTE:</b> Use the <b>UP/DOWN</b> buttons to navigate.</i></p>
<b>POWER / MODE</b>	<ul style="list-style-type: none"> <li>• <b>LONG PRESS:</b> Powers the camcorder on/off.</li> <li>• <b>SHORT PRESS:</b> Standby Mode: Toggles between the Video Capture Mode, Photo Capture Mode and Playback Mode.</li> </ul>
<b>▲ UP</b>	<ul style="list-style-type: none"> <li>• <b>NAVIGATES MENU:</b> Navigates within the Menus.</li> </ul>
<b>▼ DOWN</b>	<ul style="list-style-type: none"> <li>• <b>NAVIGATES MENU:</b> Navigates within the Menus.</li> </ul>

# PHOTO CAPTURE MODE LCD ICON STATUS DESCRIPTION



The following icons appear on the LCD screen and indicate the selected menu options and camera status.

Item	Function	Description
1	Mode Selection	Displays the current selected Mode:  <b>Photo Capture Mode</b>
2	Photo Resolution Selection	Displays the selected Resolution Setting. The Resolution options include: <b>12M</b> (4032x3024), <b>8M</b> (3264x2488), <b>5M</b> (2592x1944)
3	Capture Mode	Displays the selected Burst Mode or Self Timer setting: The options include: <b>Single</b> (NO ICON),  <b>3 photos</b> ,  <b>5 photos</b> ,  <b>10 photos</b> ,  <b>3 seconds Self-timer</b>
4	Photo Counter	Displays the number of photos available for photo capture as per selected photo resolution and memory card size.
5	Battery Indicator	Displays the status of the battery level.  The battery level is full.  The battery level is empty. Indication to recharge the battery.

# Playback Mode

The Playback mode allows you to review and delete photos and videos that you've captured with your camcorder.

To enter Playback Mode, power on your camcorder and then short press the **POWER/MODE** button twice.

When in Playback Mode, a ► play icon (for videos) or  a photo icon (for photos) is shown on the top-left corner of the LCD display.

## VIEWING CAPTURED IMAGES

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While in Playback mode, you can scroll through your captured images to view each image.

1. Press the ▼ **DOWN** button to view the next image.
2. Press the ▲ **UP** button to view the previous image.

### **NOTE:**

- *Videos appear with the ► Play icon and file name displayed on the top, left corner of the LCD screen.*
- *Photos appear with the  Photo icon and file name displayed on the top, left corner of the LCD screen.*

## PLAYING CAPTURED VIDEOS ON YOUR CAMCORDER

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1. Scroll through your captured images to select the video you would like to play.
2. To play your selected video press the **SHUTTER/OK** button.

### VIDEO CONTROLS:

- **PLAY:** To play the selected video, press the **SHUTTER/OK** button.  
While the video is playing the elapsed time is displayed on the top left in red.
- **PAUSE:** While the video is playing, press the **SHUTTER/OK** button to **PAUSE** the video and press again to continue playing the video.
- **STOP:** Press the **MENU** button to **STOP** the video playback.

**NOTE:** Your camcorder does not include a speaker. In order to hear the sound of the captured video you must view the file on your computer. Connect your camcorder via the supplied USB cable to your computer and then you can either download or view directly from the camcorder on your computer. See the following sections for more information:

- [‘Getting Photos and Videos from the Camera to the Computer’](#)
- [‘Transferring Images Manually from the Camcorder to the Computer’](#)

## DELETING CAPTURED IMAGES

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While in the Playback mode, you can delete captured videos and photos saved to the Micro SD Memory card in your camcorder using the Playback menu.

1. Enter the Playback Mode.

The last captured image (video or photo) appears.

2. Select the image you would like to delete.
3. Press the **MENU** button to enter the Playback Mode Setup menu options.

**NOTE:** To exit the menu options, press the **MENU** button.

4. Press the **▲ UP** or **▼ DOWN** button to select and highlight the 'Delete' menu option.
5. Press the **SHUTTER/OK** button to enter the 'Delete' menu options.

The following options appear:

- **Delete Current:** This option deletes the selected image.
- **Delete All:** This option deletes all images (videos and photos).

Press the **▲ UP** or **▼ DOWN** button to select an option and then press the **SHUTTER/OK** button to confirm.

6. A window then appears to confirm your selected 'Delete' option.

The following options appear:

- **OK:** This option deletes the selected file (if **Delete Current** was selected) or all files (if **Delete All** was selected).
- **Cancel:** This option returns to the previous 'Delete' menu screen without deleting the image(s).

Press the **▲ UP** or **▼ DOWN** button to select an option and then press the **SHUTTER/OK** button to confirm.

**Caution:** Please use the 'Delete' feature with care. Once images are deleted they are permanently deleted from the Micro SD Memory card. Please make sure that you only use this feature once you have downloaded and saved all the images you wish to your computer.

# Menu Options

## NAVIGATING THE MENUS

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 To access the Camera Setup Menu:

1. Press the **MENU** button while in the Video Capture, Photo Capture or Playback Mode.
2. Press the **▼ DOWN** or **▲ UP** button to select a specific menu.
3. Press the **SHUTTER/OK** button to confirm and save your selection and open the options for the menu you have selected.
4. To select a specific option, press the **▼ DOWN** or **▲ UP** button and then the **SHUTTER/OK** button to save the selected option and return to the Main Menu.

### **NOTE:**

- *At any time, you can press the **MENU** button to exit the menus and return to the previous screen.*
- *Once you change a setting, the setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.*
- *After selecting your desired setting, some settings appear as an icon on the LCD screen in Capture Mode – indicating the option selected.*

## CAMERA SETTINGS MENU OPTIONS

To open the Camera Setup options, press the **MENU** button while in Video Capture or Photo Capture Mode.

The following menu options appear:

**Movie Size, Image Size, Exposure, Cyclic Record, ISO, Date Stamp, Quality, White Balance, Capture Mode, Frequency, Screen Saver, Auto Power Off, Language, Beep Sound, Date/Time, Format, Default Setting, Version**

Menu Name and Description	Menu Options	Menu Options Details
<b>Movie Size</b> <i>The 'Movie Size' menu allows you to choose the desired size of the video taken by your camera. Keep in mind that videos with a higher resolution will also take up more of your camera's memory.</i>	<b>1080P</b> (Default)	<b>FHD</b> 1920x1080P@30fps
	<b>720P</b>	<b>HD720P</b> 1280X720@60fps
	<b>720P</b>	<b>HD720P</b> 1280X720@60fps
<b>Image Size</b> <i>The 'Image Size' menu allows you to choose the desired size of the images taken by your camera. Keep in mind that images with a higher resolution will also take up more of your camera's memory.</i>	<b>12M</b> pixel resolution	4032x3024
	<b>8M</b> pixel resolution	3264x2448
	<b>5M</b> pixel resolution	2592X1944
<b>Exposure (Photos)</b> <i>The 'Exposure' setting helps you control the amount of light that enters your camera's lens. This setting should be adjusted when the environment is lighter or darker than normal. When the environment has more light than is needed, reduce the exposure setting (by using the negative - count) to reduce the amount of light allowed into the lens by your camera. If the environment has less light (darker) than is needed, increase the exposure setting (by using the positive + count) to increase the amount of light allowed into the lens by your camera.</i>	<b>+2.0, +5/3, +4/3, +1.0, +2/3, +1/3, +0.0, -1/3, -2/3, -1.0, -4/3, -5/3, - 2.0</b>	Displays selected EV± value.

<p><b>Cyclic Record</b></p> <p>The 'Cyclic Record' feature is a circulative function. Select the setting to a desired time and the video will be saved atomically as per the setting.</p> <p><b>NOTE:</b> If the memory card is full, the current video being recorded will replace previously recorded videos.</p>	<p>(No Icon) Off</p> <p> 1 Minute</p> <p> 2 Minutes</p> <p> 3 Minutes</p> <p> 5 Minutes</p>	<p>Displays the Cyclic Recording setting.</p>
<p><b>ISO (Photos)</b></p> <p>The 'ISO' menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment. When the ISO level is increased, the image sensor in your camera will be more sensitive to light and allow you to capture images in lower-light situations. The higher sensitivity to light however, may reduce the quality of the images that are taken.</p> <p>When the ISO is reduced, the image sensor in your camera will be less sensitive to light and will optimize the image quality in environments with bright lighting.</p>	<p>Auto</p> <p>100</p> <p>200</p> <p>400</p>	<p>Displays the ISO Sensitivity setting.</p>
<p><b>Date Stamp</b></p> <p>When you capture an image with your camera, the image can include a stamp with the date and time that the image was taken.</p>	<p>OFF</p> <p>ON</p>	<p><b>Off:</b> The date and time stamp will not appear on captured images.</p> <p><b>On:</b> the date and time stamp will appear on captured images.</p>
<p><b>Quality</b></p> <p>The 'Quality' menu allows you to select the desired quality level of the images taken by your camera. Keep in mind that images with a higher image quality level will also take up more memory on your camera.</p>	<p>Fine</p> <p>Normal</p> <p>Economy</p>	<p>Displays the image Quality setting.</p>
<p><b>White Balance</b></p> <p>The 'White Balance' feature allows your camera to adjust the coloring of the captured images depending on the type of light source in the current environment.</p> <p>Properly adjusting the White Balance setting to match your current environment will allow</p>	<p>Auto</p>	<p>Automatic white balance.</p>
	<p>Daylight</p>	<p>White balance selected for daylight surrounding.</p>
	<p>Cloudy</p>	<p>White balance selected for cloudy surrounding.</p>

<p><i>the camera to properly balance the colors in the images that are taken with your camera.</i></p>	<p><b>Fluorescent</b></p>	<p>White balance selected for fluorescent surrounding.</p>
	<p><b>Tungsten</b></p>	<p>White balance selected for tungsten lighting.</p>
<p><b>Capture Mode</b></p> <p><i>‘Capture Mode’ allows you to select the method of capturing your photos: either single photo capture (standard shooting), burst or self-timer.</i></p> <p><i>When enabled, the ‘Burst Mode’ feature allows you to take rapid snapshots in a row with a single click of the Shutter button.</i></p> <p><i>This feature can be effective when trying to capture a particular moment in a sporting event or other scenes with quick movements.</i></p> <p><i>The Self Timer feature allows you to set a delay between the time that the camera’s Shutter button is pressed and the actual capture of the picture. This is an optimal feature if you don’t just want to take the picture but would also like to be in the picture yourself. Just set the Self Timer, press the Shutter button on your camera and position yourself in front of the camera as desired.</i></p>	<p><b>(No icon) Single</b></p> <p> <b>3 Shooting</b></p> <p> <b>5 Shooting</b></p> <p> <b>10 Shooting</b></p> <p> <b>3S Timer</b></p>	<p><b>Single:</b> Normal image capture - one photo at a time (Default). No icon appears on the screen.</p> <p>The photo is taken as soon as you press the Shutter button.</p> <p><b>3 Shooting:</b> Captures three continuous photos.</p> <p><b>5 Shooting:</b> Captures five continuous photos.</p> <p><b>10 Shooting:</b> Captures ten continuous photos.</p> <p><b>3S Timer:</b> Sets a 3-second delay from when you press the Shutter button until the photo is taken.</p>
<p><b>Frequency</b></p> <p><i>The options in the ‘Frequency’ menu represent the frequency of the electrical current in fluorescent lighting sources in your locale. If your camcorder is set to a frequency that does not match your country’s electric current, you may see waves on the images taken by your camcorder.</i></p>	<p><b>50Hz</b></p> <p><b>60Hz</b></p>	<p>Selects power frequency in your location:</p> <p><b>50Hz:</b> UK, Europe and Australia</p> <p><b>60Hz:</b> US, Canada and South America</p>
<p><b>Screen Saver</b></p> <p><i>The ‘Screen Saver’ feature allows the camera to save power by turning off the LCD screen while the video is being captured. The camera continues to capture the video while</i></p>	<p><b>Off</b></p> <p><b>1 Minute</b></p> <p><b>3 Minutes</b></p> <p><b>5 Minutes</b></p>	<p><b>Off:</b> The camera LCD screen remains on during video capture.</p> <p><b>1 Minute:</b> The LCD screen goes into screen saver mode (the screen appears black)</p>

<p><i>the LCD appears black and the red LED busy light blinks. Short pressing the Shutter button reactivates the LCD screen to show the video being captured.</i></p>		<p>after 1 minute of video capture.  <b>3 Minutes:</b> The LCD screen goes into screen saver mode (the screen appears black) after 3 minutes of video capture.  <b>5 Minutes:</b> The LCD screen goes into screen saver mode (the screen appears black) after 5 minutes of video capture.  <b>Note:</b> During video recording when the screen is in Screen Saver mode, short press the Shutter button to reactivate the LCD screen.</p>
<p><b>Auto Power Off</b>  <i>You can use the 'Auto Power Off' feature to conserve your camcorder's battery life. The designated time represents when your camcorder will automatically power off. When the camcorder sits idle for the designated period of time, the camcorder will shut off completely and will need to be powered on again with the power button before the next use.</i></p>	<p><b>Off</b>  <b>1 Minute</b>  <b>3 Minutes</b></p>	<p><b>OFF:</b> The camcorder remains on.    <b>1 Minute:</b> The camcorder powers off after 1 minute of sitting idle.    <b>3 Minutes:</b> The camcorder powers off after 3 minutes of sitting idle.</p>
<p><b>Language</b>  <i>You can select your camera's language setting by selecting the desired language from the 'Language' menu.</i></p>	<p><b>English</b>  <b>French</b>  <b>German</b>  <b>Italian</b>  <b>Portuguese</b>  <b>Spanish</b></p>	<p>Selects the camcorder's language as seen in the Camera modes and settings.</p>
<p><b>Beep Sound</b>  <i>The 'Beep Sound' menu allows you to control the beep sound that is emitted when pressing any button on the camera.</i></p>	<p><b>Off</b>  <b>On</b></p>	<p>Controls the beep sound heard when pressing a button on the camera.  <b>Off:</b> No sound can be heard when pressing the camera</p>

		<p>buttons.</p> <p><b>On:</b> A beep can be heard each time a button on the camera is pressed.</p>
<p><b>Date/Time</b></p> <p><i>The 'Date &amp; Time' menu allows you to set your camcorder's date and time. This date and time will appear on the captured images when the Date Stamp is set to be active and, on the screen, while in Video Capture Mode.</i></p>	<p><b>YEAR/MONTH/DAY</b></p> <p><b>HR: MIN: SECOND</b></p> <p><b>YY/MM/DD</b></p>	<p>To set the <b>MM/DD/YY</b> and <b>Hour: Minutes: Seconds:</b></p> <ul style="list-style-type: none"> <li>- Press the <b>UP/DOWN</b> button to change the setting and specify each part of the date and time.</li> <li>- Short press the <b>Shutter/OK</b> button to toggle and move between the time and date settings.</li> <li>- Press the <b>MENU</b> button to save and confirm the date and time setting and exit the setting screen.</li> </ul>
<p><b>Format</b></p> <p><i>You can use the 'Format' menu to delete all the content that is currently on your camera's memory card.</i></p> <p><i>This option will automatically delete all the content at one time. If you would like to delete individual images, use the Delete menu in the camera's Playback Mode.</i></p> <p><i>Keep in mind that formatting the memory card will permanently delete all the content on your camera's memory card. Please make sure you have backed up the images that you want before you proceed with the format of the memory card.</i></p>	<p><b>Cancel</b></p> <p><b>OK</b></p>	<p>Formats the Micro SD Memory Card.</p> <p><b>Cancel:</b> Does not delete the images on your memory card.</p> <p>Exits the 'Format' submenu screen without deleting all images.</p> <p><b>OK:</b> Automatically deletes all images on the memory card. The memory card will be completely formatted.</p>
<p><b>Default Setting</b></p> <p><i>Use the 'Default Setting' menu to reset your camcorder settings to the Factory Default Settings.</i></p>	<p><b>Cancel</b></p> <p><b>OK</b></p>	<p>Resets the camera to the Factory Default Settings.</p> <p><b>Cancel:</b> Does not reset the camera to the Factory Default Settings. Exits the submenu without resting and keeps the current settings.</p> <p><b>OK:</b> Automatically resets the camera to the Factory Default Settings.</p>
<p><b>Version</b></p>	<p><b>2017103 v1.2</b></p>	<p>Displays the camera's version number.</p>

# PLAYBACK MODE MENUS

To open the Playback menu options, press the **MENU** button while in Playback Mode.

The following menus appear when a video or photo is selected:

## Delete, Format

Menu Name and Description	Menu Options	Menu Option Details
<p><b>Delete</b></p> <p><i>While in the Playback Mode, you can delete pictures from your camera through the 'Delete' menu. You can delete a single photograph / video clip, or delete all images saved to the SD card.</i></p> <p><b>IMPORTANT: Keep in mind that deleting will permanently remove the selected images on your camera's memory card.</b></p>	<p><b>Delete Current</b></p> <p><b>Delete All</b></p>	<p><b>Delete Current:</b> Deletes the one selected file (photo/video).</p> <p><b>Delete All:</b> Deletes all the photos and videos.</p> <p><b>NOTE:</b> <i>It is highly recommended to first save and download your images before deleting.</i></p>
<p><b>Format</b></p> <p><i>You can use the 'Format' menu to delete all the content that is currently on your camera's memory card.</i></p> <p><i>This option will automatically delete all the content at one time. If you would like to delete individual images, use the Delete menu in the camera's Playback Mode.</i></p> <p><i>Keep in mind that formatting the memory card will permanently delete all the content on your camera's memory card. Please make sure you have backed up the images that you want before you proceed with the format of the memory card.</i></p>	<p><b>Cancel</b></p> <p><b>OK</b></p>	<p>Formats the Micro SD Memory Card.</p> <p><b>Cancel:</b> Does not delete the images on your memory card. Exits the 'Format' submenu screen without deleting all images.</p> <p><b>OK:</b> Automatically deletes all images on the memory card. The memory card will be completely formatted.</p>

# Computer System Requirements

To be able to download videos and photos to your computer using the 'Vivitar Experience Image Manager' Software, you will need the following minimum configuration:

## WINDOWS OS

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- MICROSOFT® Windows 7 or later
- Pentium® 4 processor (or above)
- 1 GB RAM, 250 MB available hard disk space
- 16-bit Color monitor, 1024 X 768 recommended screen resolution
- QuickTime® 6 or higher
- MICROSOFT ® Internet Explorer 7 or higher
- Windows Media Player 10 or higher
- DirectX 9 or higher
- Internet connection required

## MACINTOSH OS

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- Intel processor running MACINTOSH OS X v10.9 or later
- 1 GB RAM, 250 MB available hard disk space
- Display: 1024 x 768 or higher-resolution monitor
- QuickTime® 6 or higher
- Internet connection required

### NOTE:

- Internet connection required.
- Make sure the latest compatible Adobe® Flash® Player is installed on your computer.

## Installing the Software

**You must be connected to the Internet to download the Vivitar Experience™ Image Manager software.**

The Vivitar Experience Image Manager Software can be downloaded and installed via the following online links:

**WINDOWS OS:** <http://tinyurl.com/viviwin>

**MAC OS:** <http://tinyurl.com/vivimac>

1. Enter the appropriate URL (shown above) into a web browser on your computer.
2. The file for installing the software automatically begins to download to your computer.  
Please note that the web page appears empty, however the download automatically begins.
3. Locate the downloaded application files on your computer's 'Downloads' folder once the download is complete:  
On WINDOWS OS the file name is: **vivitargeneric\_win.exe**  
ON MAC OS in file name is: **vivitargeneric\_mac.pkg**
4. Double click on the downloaded application file to install the Vivitar Experience Image Manager Software.
5. Follow all instructions.
6. Once installation is complete, the Vivitar Experience Image Manager opens automatically.

## Connecting the Camcorder to the Computer

1. Use the supplied USB cable to connect your digital camcorder to your computer.
2. Power the camcorder ON.
3. The first time you connect the device to the computer you may have to wait a few seconds until the computer recognizes the device.

# Getting Photos and Videos from the Camcorder to the Computer

The Micro SD Memory card needs to be inserted. Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

1. Select the “Get Images” button from the Main menu.



2. The “Get media from device” window opens.
3. You can select to download videos.
4. Select your camera (removable disk) from the device window. If your camera is the only USB device connected, then it will be selected automatically.
5. Select a location on the computer where to place the new video files.
6. Add the new video files to albums if desired.
7. Select to remove the media files from the selected device (removable disk) after the import.
8. Click the “Get Media” button to transfer the videos from your camera to your computer.
9. A media download progress bar appears on the bottom left showing the number of media files downloading to your computer. A message appears when the download is complete.
10. The video files that you selected are now downloaded to your computer to the selected folder ready for your use.

## Getting Started!

Using the Vivitar Experience Image Manager you can:

- Upload and manage videos to and from the most popular photo sharing and social networking sites - Facebook, Flickr, Picasa, Photobucket, Twitter and YouTube
- Seamlessly transfer videos from one social network to another
- Organize your images by creating offline and online albums
- Edit images using automatic and manual tools
- Use automatic “Geotagging” with built in Google Maps

**For more details on how to use the Vivitar Experience Image Manager open the Help file or click the “Take a Tour” button on the application’s Home screen.**

## Transferring Images Manually from the Camcorder to the Computer

### WINDOWS OS

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1. Use the supplied USB cable to connect your camcorder to your computer’s USB port.
2. Power on the camcorder. ‘MSDC’ displays on the LCD screen.
3. A window appears on your computer with a list of options, select “Open folder to view files” and click ‘OK’.
4. Open the DCIM folder and the folder inside to view the media files.
5. Select the media and copy the files from this folder into your computer. Optionally, select the files and choose ‘Copy’ from the Edit menu. Then select a folder and choose ‘Paste’ from the Edit menu.
6. We recommend that you copy the photos into the Pictures/My Pictures folder and the videos into the Videos/My Videos folder.
7. Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

## MACINTOSH OS

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1. Use the supplied USB cable to connect your camcorder to your computer's USB port.
2. Power on the camcorder. 'MSDC' displays on the LCD screen.
3. The camcorder's device icon appears on the desktop.
4. Click on the device icon and open the DCIM folder and the folder inside to view the media files.
5. Select the files and drag them into your computer. Optionally, select the files and choose 'Copy' from the Finder's Edit menu. Then select a folder and choose 'Paste' from the Edit menu.
6. We recommend that you copy the photos into the Pictures folder and the videos into the Movies folder.
7. Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

## TRANSFERRING PHOTOS AND VIDEOS: APPLE IPAD

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***NOTE: Please check your device packaging for compatibility with the iPad.***

### ***APPLE IPAD CAMERA CONNECTION:***

For models that are compatible with the iPad, photos and videos can be imported from your digital camcorder to your iPad by following either one of the options below:

1. Connecting your digital camcorder to your iPad using an iPad Camera Connector:

Plug the Camera Connector into the dock connector port on your iPad, then attach your digital camcorder using a USB cable (included) to the Camera Connector.

***NOTE: iPad Camera Connector not included. This may be purchased separately.***

2. Using an iPad SD Card Reader:

Connect the SD Card Reader to your iPad, then insert your digital camcorder's Micro SD Memory card into the slot to import photos and videos directly from your camera's SD card.

***NOTE: iPad SD Card Reader not included. This may be purchased separately.***

*After you make the connection, your iPad automatically opens the Photos application. This allows you choose which photos and videos to import, then organizes them into albums.*

# Camcorder Maintenance

Please read the information below carefully before using your camcorder for proper and safe operation, to use the camcorder to its fullest and maintain its performance.

## MEMORY CARD MAINTENANCE:

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- For the first time of using a new memory card, or when there is unrecognized data for the camera or images with other cameras in the memory card, please make sure to firstly format the memory card.  
**Note:** Please back up the data if the memory card inside has been previously used. After that, format the memory card of this video camera.
- Please power the camera off before inserting in or taking out the memory card.
- Keep the memory card clean and prevent it from contacting liquid. In case of liquid contacted, clean and dry it with a piece of soft cloth.
- In case of idle use, please keep the memory card in a guard staple.
- Please note that the memory card will get hot after long-term use. This is normal.
- It is recommended to backup the important data from your memory card to other media such as soft disk, hard disk or CD.
- To ensure image quality, minimum Class 6 High-Speed card is needed.
- The following situations may cause loss or damage of the data on your memory card:
  1. Improper use of the memory card.
  2. The memory card has been bent, dropped or collided.
  3. The memory card has been placed under high temperature or moist environment or expose to sunshine directly.
  4. Electrostatic or electromagnetic field exists around the memory card.
  5. The memory card has been taken out or the power supply interrupted while the camera or computer is connected to the memory card (i.e. during reading, writing and formatting).
  6. Taking out the memory card while powering off, while recording, deleting (formatting) or reading.
  7. The service life of the memory card has expired (please replace the memory card regularly).

## DEVICE MAINTENANCE:

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- Take good care of the video camera and prevent water or sand particles from entering the video camera when it is used on the beach or near water. Please note that water, sand particles, dust or component containing salt may damage the video camera.
- Keep the video camera free of dust and chemical materials. Place it in a cool, dry and well ventilated place. Do not place the video camera in a high temperature, moist or dusty place.
- If dirt or stains accumulate on the video camera or on its lens, use a soft, clean and dry rag to wipe it away gently. If the video camera or its lens is stained with sand particles, blow them away gently. Do not use cloth to wipe arbitrarily. Otherwise, it may scratch the surface of video camera or its lens.
- Do not touch the lens surface with fingers.
- If it is required to clean the camera surface, first blow away the sand dust accumulated on the surface, and then wipe the camera gently with a rag or tissue appropriate for optical equipment. Please use a cleaning agent specifically for a video camera when wiping if necessary. Do not use organic solvent to clean the video camera.
- The digital camcorder is a delicate device:
  1. Please handle your camcorder with care to avoid damaging it.
  2. Do not expose your camcorder to heat sources.
  3. Do not use your camcorder in wet or moist conditions without the waterproof casing.
  4. Use proper protective cover to avoid lens and display from being scratched.

# Sakar Warranty Card

This warranty covers for the original consumer purchaser only and is not transferable. Products that fail to function properly **UNDER NORMAL USAGE**, due to defects in material or workmanship will be repaired at no charge for parts or labor for a period of one year from the time of purchase.

## What Is Not Covered By Warranty:

Damages or malfunctions not resulting from defects in material or workmanship and damages or malfunctions from other than normal use, including but limited to, repair by unauthorized parties, tampering, modification or accident.

## What to Do When Service Is Required:

When returning your defective product (postage pre-paid) for service, your package should include:

1. Copy of **original** bill of sale.
2. A detailed written description of the problem.
3. Your return address and telephone number (Daytime).

MAIL TO ADDRESS BELOW:

<u>Sakar US</u> Sakar International Attention: Service Department 195 Carter Drive Edison, NJ 08817	<u>Sakar Australia</u> Return faulty camera to the Refund Counter at the store where purchased
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## Technical Support

For technical support issues please visit our website at **www.vivitar.com**. You can find manuals, software and FAQ's at the website. Can't find what you are looking for? E-mail us at **support@vivitar.com** and one of our technical support team members will answer your questions. For phone support in the US please call 1-800-592-9541 and in Australia call 1800-006-614. If you would like to call from anywhere else, please visit **www.vivitar.com** for your local toll-free number.

## Troubleshooting

**Q: I have taken photos and selected the “Get Images” button. I get a message that the images were successfully transferred but the photos do not appear on my computer.**

**What do I do?**

First ensure that you have in fact taken photos. Press the Shutter button to take some sample photos or videos and then try downloading them again.

If the photos are saved to the SD memory card, then all the photos should appear.

**Q: How do I make sure I don't lose important pictures?**

This camcorder requires a Micro SD card for normal use. If the camera powers off nothing will happen to the images stored on the memory card. We recommend always downloading your photos and videos to your computer as soon as possible to prevent unintentional data loss.

**Q: I deleted images using the Vivitar Experience Image Manager. The images were also deleted from my computer. How do I recover images that I accidentally deleted?**

All images deleted using the Vivitar Experience Image Manager are sent to your computer's Recycle or Trash Bin and can be retrieved from there.