

# User's Manual

**CAMILEO Z100**

# Introduction

Welcome and thank you for choosing a TOSHIBA product.

For your convenience, your TOSHIBA product is furnished with two guides:

- a) a Quick Start Guide, and
- b) this comprehensive PDF User's Manual.

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# Section 1

## Getting to Know Your Camcorder

### Overview

- ◆ The camcorder equipped two separate lenses and a 2x 5 Mega Pixel sensors that can take 3D or 2D videos at Full HD resolution of 1920 x 1080.
- ◆ High quality images up to 16 mega-pixels in 3D or 2D can also be delivered smoothly.
- ◆ 2.8" LCD touch panel which is an ideal platform for you to operate your camcorder.
- ◆ You can preview and playback 3D images on this 2.8" 3D LCD screen immediately without wearing 3D glasses.
- ◆ You can connect the camcorder to an HDTV via an HDMI cable, and easily playback the recorded high-definition videos on the wide screen HDTV/3D TV.
- ◆ A 10× digital zoom helps you to control over the videos and photos you take. (4× for 3D mode)
- ◆ A pause button supports recording function to record multiple moments in a single file.
- ◆ This camcorder integrates function of 2D video trimming to edit the video without the need for a PC.
- ◆ ISO sensitivity and color balance can either be adjusted automatically or changed manually.
- ◆ Moreover, the camcorder has an advanced uploading feature. With the exclusive built-in CAMILEO UPLOADER application, you can upload the videos or photos captured by the camcorder to social networking sites more effortlessly.
- ◆ The built-in memory allows you to take photos and to record videos without a memory card. The memory card slot allows users to increase the storage capacity.
- ◆ The varied effect options, such as Time Lapse and Slow Motion, make recording more fun.

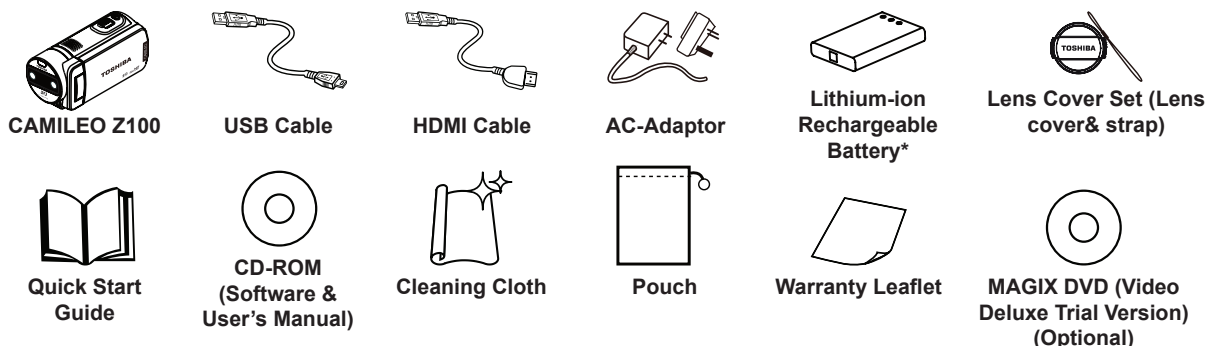


#### Note

- Partial memory of the built-in memory is used for the camcorder's Firmware code.

### Check the Components

Unpack the package and make sure all standard accessories listed are included:



\*preinstalled in camcorder device



#### Note

Please remove the lens protect film on lens before use.

## Safety Instructions

1. Do not drop, puncture or disassemble the camcorder; otherwise the warranty will be voided.
2. Avoid all contact with water, and dry hands before using.
3. Do not expose the camcorder to high temperature or leave it in direct sunlight. Doing so may damage the camcorder.
4. Use the camcorder with care. Avoid pressing hard on the camcorder body.
5. For your own safety, avoid using the camcorder when there is a storm or lightning.
6. Do not use batteries of different specifications. Doing so may lead to the potential for serious damage.
7. Remove the battery during long periods between usage, as a deteriorated battery may affect the functionality of the camcorder.
8. Remove the battery if it shows signs of leaking or distortion.
9. Use only the accessories supplied by the manufacturer.
10. Keep the camcorder out of the reach of infants.
11. Risk of explosion if battery is replaced by an incorrect type.
12. Dispose of used batteries according to the instructions.
13. If you feel uncomfortable or tired when recording or viewing 3D video, please stop recording or set back to 2D mode.
14. Watching 3D video is not recommended for children under 6 years old.

## Safety Instructions for using 3D devices

- Anyone who has had a seizure, loss of awareness, or other symptoms linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.
- If you are ill or feel ill, you should refrain from viewing 3D images, and consult your health care provider as may be appropriate.
- If you experience any of the following symptoms when viewing 3D images, stop viewing and contact your health care provider:  
Convulsions, eye or muscle twitching, loss of awareness, altered vision, involuntary movements, disorientation, eye strain, nausea/vomiting, dizziness, headaches.
- If you feel eye fatigue or other discomfort from viewing, 3D images, discontinue use until the condition is eliminated.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers.  
Therefore, to avoid injury do not place your TV near open stairwells, balconies, or wires.  
Also do not sit near objects that could be broken if accidentally hit.
- When watching 3D images, do not lie down.  
If you watch while lying down, the 3D effect is lost and it may cause eye strain.
- If you have prescription eye glasses or contact lenses, watching 3D images without such eyewear may cause eye strain.  
Watching 3D images with a pre-existing eye condition can aggravate such condition and/or cause eye strain and/or headaches.
- If 3D images often appear in double or if you cannot see the images in 3D, stop viewing.  
Continuous viewing may cause eye strain.

- Due to the possible impact on vision development, viewers of 3D images should be age 6 or above.  
Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.
- Watching TV while sitting too close to the screen for an extended period of time may cause eye strain.  
Recommended viewing position is about 2.2meters away from the screen.
- 3D effect and image quality may vary depending upon content quality and display device capability/functionality/settings.

## System Requirements

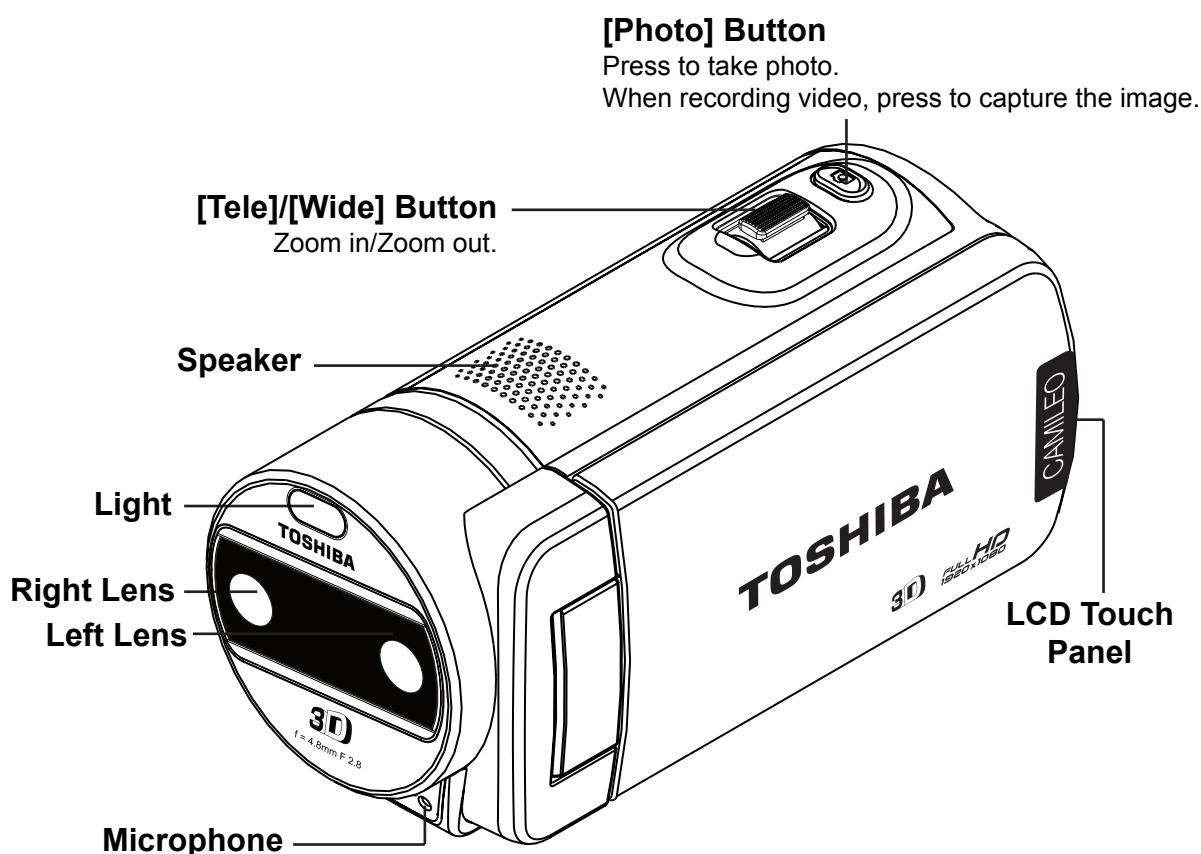
|          |                                                                      |
|----------|----------------------------------------------------------------------|
| OS       | Microsoft Windows XP, Vista, 7                                       |
| Hardware | CPU Intel Pentium 4, 2.4GHz or above                                 |
|          | 512MB system memory                                                  |
|          | 1GB hard disk space                                                  |
|          | 4x CD-ROM                                                            |
|          | 1x available USB port                                                |
|          | 16-bit Color Display or above / 3D compatible screen (for 3D images) |



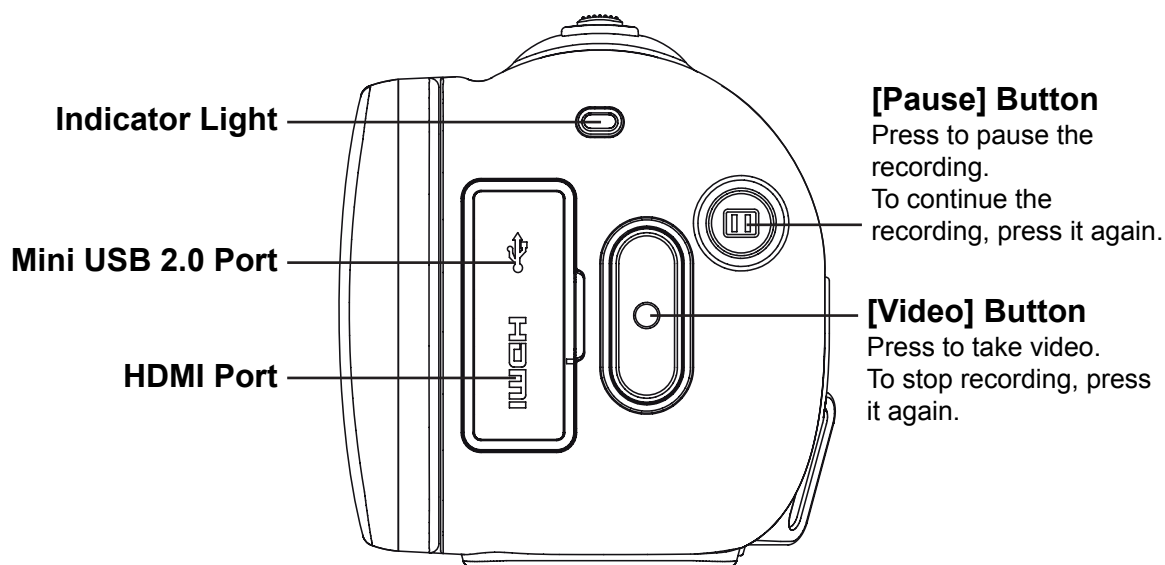
### Note

The LCD screen is manufactured using extremely high-precision technology. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.

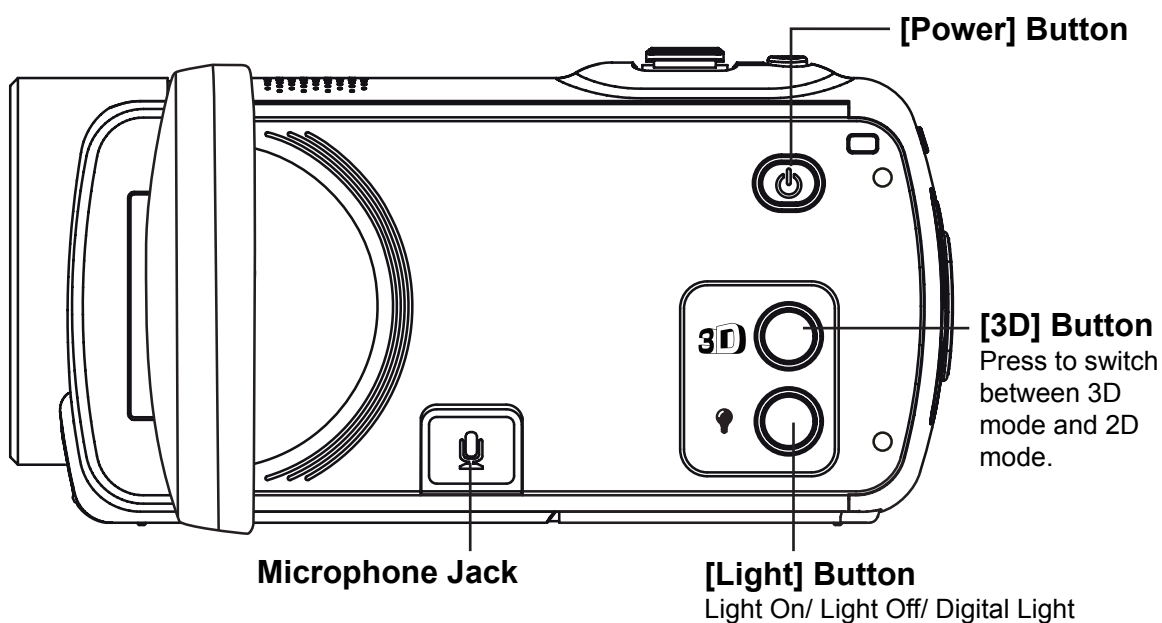
## Front View



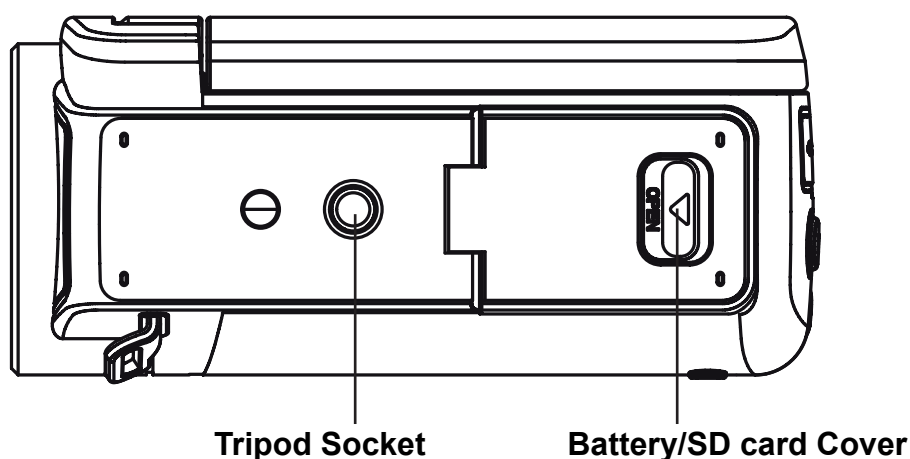
## Rear View



## Side View



## Bottom View

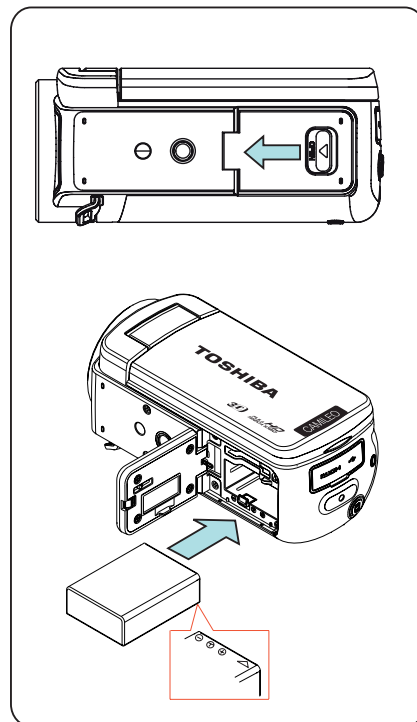
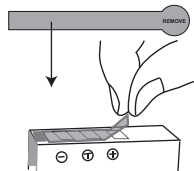


## Section 2 Getting Started

### Loading the Battery

The battery comes pre-installed in the camcorder, however you must remove the insulator on the battery before use.

1. Slide the safety latch and open the battery cover.
2. Remove the battery from the camcorder and pull the insulator off.
3. Insert the battery according to the correct polarity marks ( + or -).
4. Close the battery cover firmly.



#### Note

- Different battery types and surrounding temperatures may affect the battery performance.
- Never expose the battery to a heating equipment (e.g., microwave oven) and attempt to dispose of a battery by burning or by throwing it into a fire. Heat can cause the battery to explode and/or release caustic liquid, which both may possibly cause serious injuries.
- Turn the power off and stop using the battery if you observe the condition of excessive heat from the battery.

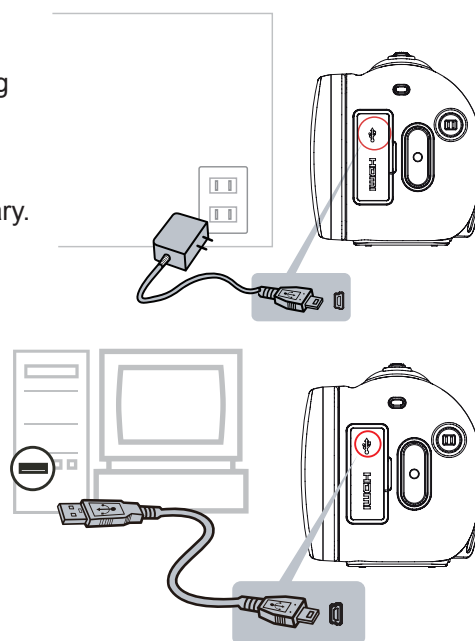
### Charge your battery

For a better performance, please charge the battery fully before its first use. You must use the supplied AC charger or the USB cable. The camcorder must be turned OFF. A blinking light indicates active charging and a solid light indicates that charging is complete. In adapter charging mode, the full charging time is about 4- 5 hours and the light will turn off automatically after 3~5 minutes. (Actual charging time may vary. It depends on the battery condition.)



#### Note

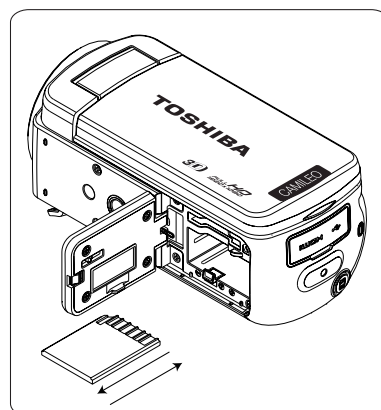
- In PC USB charging mode, the camcorder is charged by less electric current. A longer charging time (12~12.5 hrs) is required.
- Never charge the battery with a way other than as instructed. Otherwise, a fire or any explosion resulting in any serious injury is possible.
- Use the supplied AC adapter only with the indicated power supply voltage.
- Use any other power supply voltage might cause electric shock.
- Be sure that the power outlet that the adapter you plug in is easily accessible. When you need to disconnect power from the device, be sure to unplug the power cord from the electrical outlet.



## Inserting and Removing an SD Card (Optional)

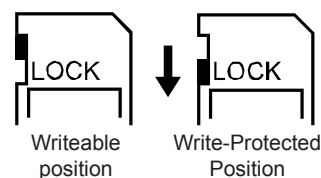
The camcorder comes with internal memory which allows you to store photos and videos. You can expand the memory capacity by using an optional SD memory card.

1. Open the SD Card cover.
2. Insert the memory card into the slot. Please refer to the figure on the right side.
3. To remove the installed SD card, press the card inwards to release it.
4. When the card pops out, gently remove it from its slot.
5. Recommended memory capacity: 1GB or above.



### Note

- When a memory card is fitted, videos/photos are saved on the card rather than on the built-in memory.
- Protecting Data on an SD Card: SD Card is read-only when it is locked. No photos or videos can be recorded when the SD card is locked. Make sure the lock is on the writeable position before recording any media.

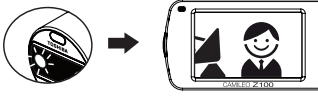
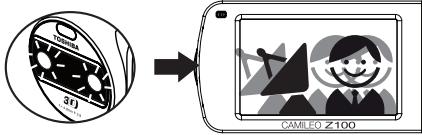
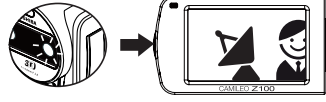


## Turning the Camcorder On and Getting Started

- To turn on the camcorder:
  1. Flip out the LCD panel; the camcorder will turn on automatically.
  2. Or press the [Power Button]  for one second to turn it on.
- To record video: Press the [Video Button] to record video. To stop recording, press it again.\
- To pause recording: Press the [Pause Button]  to pause recording. To continue the recording, press it again.
- To snapshot a photo during video recording: Press the [Photo Button] to capture the image.
- To take a photo: Press the [Photo Button]  to take photo.
- To view stored videos and photos: Tap  (on-screen icon) to switch to the Playback mode.

## Record 3D Images

- Press the [3D] Button  to switch between 2D and 3D modes.
- You can playback back 3D images with this camcorder. (same operation as above)
- Do not press the 3D button during 3D video recording. It will stop recording.

| Default-Right Lens ON                                                             | Press [  ]-Both Lens ON | Press again-Left Lens ON                                                           |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |                         |  |



### Note

- When the camcorder is switched from 2D to 3D, the screen flashes and becomes darker. This is not a malfunction.

## Turning the Camcorder Off

- To turn off the camcorder: You can either press [Power Button] for one second, or you can place the LCD panel back to its original position.



### Note

- If you close the LCD panel while recording, the camcorder stops recording.

## Section 3

# Record Mode

### Button Function

|                                                                                     |                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Video Button:</b></p> <ol style="list-style-type: none"> <li>1. Press to begin recording a video.</li> <li>2. Press it again to stop recording.</li> </ol>                   |
|    | <p><b>Pause Button:</b></p> <ol style="list-style-type: none"> <li>1. Press to pause the recording.</li> <li>2. Press it again to resume recording on the same file.</li> </ol>    |
|    | <p><b>Photo Button:</b></p> <ol style="list-style-type: none"> <li>1. Press to take the photo.</li> <li>2. When recording video, press to capture an image.</li> </ol>             |
|  | <p><b>Tele Button:</b></p> <ol style="list-style-type: none"> <li>1. Zoom In.</li> </ol> <p><b>Wide Button:</b></p> <ol style="list-style-type: none"> <li>1. Zoom out.</li> </ol> |
|  | <p><b>Power Button:</b></p> <ol style="list-style-type: none"> <li>1. Press down for one second to turn on or turn off the camcorder.</li> </ol>                                   |
|  | <p><b>3D Button:</b></p> <ol style="list-style-type: none"> <li>1. Press to toggle between 3D Mode and 2D Mode.</li> </ol>                                                         |
|  | <p><b>Light Button:</b></p> <ol style="list-style-type: none"> <li>1. Press to toggle between Light settings (LIGHT ON/LIGHT OFF/ DIGITAL LIGHT).</li> </ol>                       |

## LCD Monitor Information

The indicators shown below may display on LCD when videos and photos are recorded:

| On-screen information icon | On-screen touchable function icon |
|----------------------------|-----------------------------------|
|                            |                                   |

|     |                 |                                                                           |
|-----|-----------------|---------------------------------------------------------------------------|
| (1) |                 | Battery: full power                                                       |
|     |                 | Battery: medium power                                                     |
|     |                 | Battery: low power                                                        |
|     |                 | Battery: empty power                                                      |
|     |                 | DC power mode (The camcorder is turned on and plugged in the AC charger.) |
| (2) | <b>00:03:12</b> | Recording time                                                            |
|     | <b>00:03:12</b> | Pause recording                                                           |
|     | <b>250</b>      | Number of images that remains to be taken at the current resolution       |
|     | <b>321</b>      | Number of current photo                                                   |
| (3) |                 | Motion Detection (2D Video Record Mode Only)                              |
| (4) | Scene           |                                                                           |
|     |                 | Skin                                                                      |
|     |                 | Night                                                                     |
|     |                 | Backlight                                                                 |

|     |                                                                                           |                                                                                         |
|-----|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| (5) | Manual White Balance                                                                      |                                                                                         |
|     |          | Daylight                                                                                |
|     |          | Fluorescent                                                                             |
|     |          | Tungsten                                                                                |
| (6) |          | Zoom meter:<br>2D Mode: 1× ~10× (10× Digital zoom)<br>3D Mode: 1× ~4× (4× Digital zoom) |
| (7) |          | Motion Detection (2D Video Record Mode Only)                                            |
|     |          | Slow Motion (2D Video Record Mode Only)                                                 |
|     |          | Time Lapse (2D Video Record Mode Only)                                                  |
|     |          | Pre-Record Mode (Video Record Mode Only)                                                |
| (8) |         | Digital Light On                                                                        |
|     |        | Light On                                                                                |
|     |        | Light Off                                                                               |
| (9) | Video Resolution                                                                          |                                                                                         |
|     |        | FULL HD 1080/30                                                                         |
|     |        | HD 720/60                                                                               |
|     |        | HD 720/30                                                                               |
|     |        | VGA 480/30                                                                              |
|     | WQVGA (When Slow Motion function is activated, the video resolution is WQVGA (432× 240).) |                                                                                         |
|     | Photo Resolution                                                                          |                                                                                         |
|     |        | High-16MP                                                                               |
|     |        | Standard-5MP                                                                            |
|     |        | Low-3MP                                                                                 |

|      |                                                                                   |                    |
|------|-----------------------------------------------------------------------------------|--------------------|
| (10) | Video Record Mode                                                                 |                    |
|      |  | Backlight On/ Off  |
|      | Photo Record Mode                                                                 |                    |
|      |  | Self-timer On/ Off |
| (11) |  | Menu On            |
| (12) |  | Playback Mode On   |
| (13) |  | Photo Mode On      |
| (14) |  | Video Mode On      |
| (15) |  | Delete Mode On     |



### Note

- Tap on the screen to close the touchable function bars. Tap again to show the bars.
- Filter: Black&White / Classic / Negative can be previewed immediately without the indicator on the LCD screen.
- Motion Detection, Face Tracking, Slow Motion, Time Lapse, and Smile Detection cannot be used during 3D recording.
- Time Lapse, and Slow Motion functions can not be used simultaneously.
- Pre-Record, Motion Detection, Time Lapse, and Slow Motion functions can not be used simultaneously. (Once Motion Detection turns on, the functions of Slow Motion, Pre-Record, and Time Lapse will switch off.)
- Motion Detection, Time Lapse, Slow Motion, and Pause functions can not be used simultaneously.
- The camcorder does not power off automatically in DC power mode.
- In adapter charging mode, you can turn on the camcorder and it will become DC power mode. In DC power mode, the device is charged by less electric current.
- If one feature is set to ON, the other two features will automatically set to OFF by the firmware.

## Video Recording

- Press the [Video Button] to start recording. When a video is being recorded, a time indicator will display on the LCD monitor. To stop recording, press the [Video Button] again.
- To pause recording: Press the [Pause Button] to pause recording. To continue the recording, press it again.
- To snapshot a photo during video recording: Press the [Photo Button] to capture the image.
- Tap  (on-screen icon) to view the recorded video.
- Four resolution settings are available:

| Video Quality                                                                      |                                       |
|------------------------------------------------------------------------------------|---------------------------------------|
|   | <b>FULL HD 1080/30:</b> 1920x1080p 30 |
|   | <b>HD 720/60:</b> 1280x720p 60        |
|   | <b>HD 720/30:</b> 1280x720p 30        |
|  | <b>VGA 480/30:</b> 640x480p 30        |



### Note

- The image resolution captured during video recording is the same as the video resolution.
- When the function of Slow Motion is activated, the video resolution is WQVGA and the view angle becomes smaller.

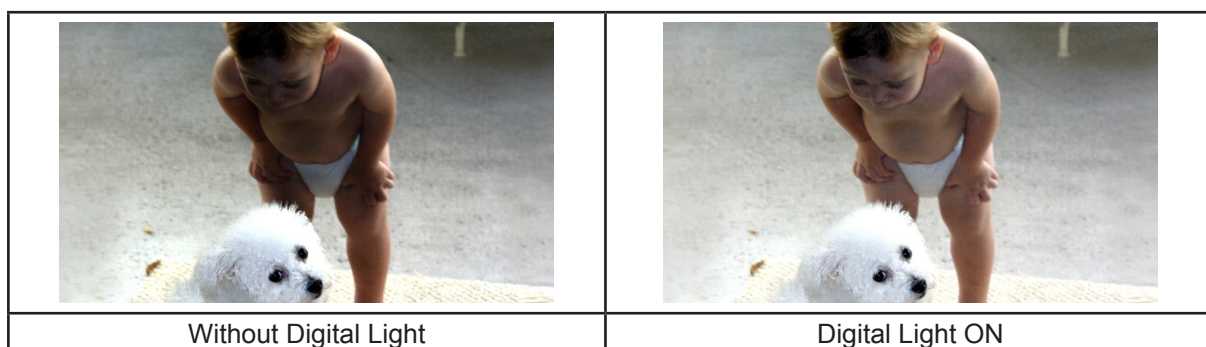
## Photo Capturing

- Press the [Photo Button] halfway down until the focusing frame turns green. Then, press it fully down to take photo.
- Tap  (on-screen icon) to view the recorded photo.
- Three resolution settings are available:

| Image Quality                                                                       |                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------|
|  | <b>HIGH-16 Mega Pixels:</b> 4608 x 3456    |
|  | <b>STANDARD-5 Mega Pixels:</b> 2592 x 1944 |
|  | <b>LOW-3 Mega Pixels:</b> 2048 x 1536      |

## Using Digital Light or Light Function

- The setting allows you to brighten the area or to extend the brightness of the objects.
  - Press to toggle between Light settings (LIGHT ON/ LIGHT OFF/ DIGITAL LIGHT).
- When the Light function is activated (  ) the light will be turned on and keeps providing light.
- When the Digital Light function is activated (  ), the camcorder extends dynamic range for backlight and high contrast sense so that the objects will be brighter and clearer.
  - Press the [Video]/[Photo] Button to start recording or to take photo.



### Note

- To avoid the persistence of image on the screen, please turn off the Digital Light function after you used it in the dark situation.
- The light will be disabled automatically when battery power is low (  ).

## Using Zoom Function

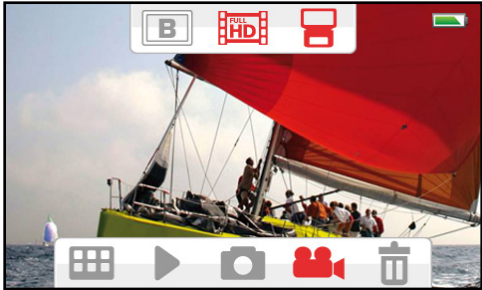
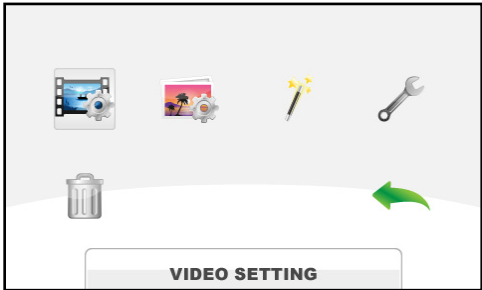
- The zoom magnifies images when recording video or taking photo.
  - To zoom in/out, press the [Tele/Wide Button].
  - It can be set from 1×~10× (10× Digital zoom) for 2D recording.
  - It can be set from 1×~4× (4× Digital zoom) for 3D recording.

## Options for Menu

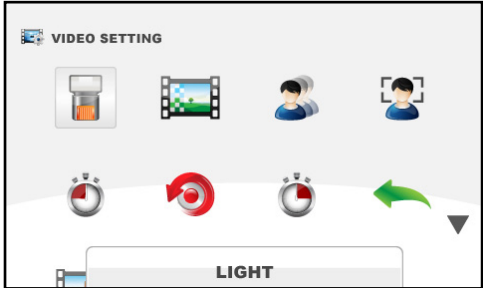
| VIDEO SETTING                                                                                                                                                                                                                                               | PHOTO SETTING                                                                                                                                                                                 | EFFECTS                                                                                                                          | SETUP*                                                                                                                                                                | DELETE                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                            |                                                                                                              |                                                 |                                                                                    |                                                            |
| <ul style="list-style-type: none"> <li>• LIGHT</li> <li>• RESOLUTION</li> <li>• MOTION DETECTION</li> <li>• FACE TRACKING</li> <li>• SLOW MOTION</li> <li>• PRE-RECORD</li> <li>• TIME LAPSE</li> <li>• DATE PRINTING</li> <li>• CONTINUOUS PLAY</li> </ul> | <ul style="list-style-type: none"> <li>• LIGHT</li> <li>• RESOLUTION</li> <li>• SELF-TIMER</li> <li>• SMILE DETECTION</li> <li>• DATE PRINTING</li> <li>• ISO</li> <li>• SLIDESHOW</li> </ul> | <ul style="list-style-type: none"> <li>• EXPOSURE MEASURE</li> <li>• SCENE</li> <li>• FILTER</li> <li>• WHITE BALANCE</li> </ul> | <ul style="list-style-type: none"> <li>• MENU SOUND</li> <li>• TV</li> <li>• LANGUAGE</li> <li>• TIME SETTING</li> <li>• FORMAT</li> <li>• DEFAULT SETTING</li> </ul> | <ul style="list-style-type: none"> <li>• DELETE VIDEO</li> <li>• DELETE PHOTO</li> <li>• SELECT &amp; DELETE</li> <li>• DELETE ALL</li> </ul> |

\* Please refer to Section 5 for the detailed information about [Setup].

## Operations

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Screen                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Tap  on the screen.</li> <li>2. The main menu will appear.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <ol style="list-style-type: none"> <li>3. The options are VIDEO SETTING, PHOTO SETTING, EFFECTS, SETUP, and DELETE.</li> <li>4. Tap the desired icon twice (or tap and hold it for one second).</li> <li>5. The option menu will pop up on the screen.</li> <li>6. Tap to select the specific option you want to adjust and tap again to enter its setting menu.</li> <li>7. Tap twice or hold it for one second to validate the setting.</li> <li>8. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |

# VIDEO SETTING

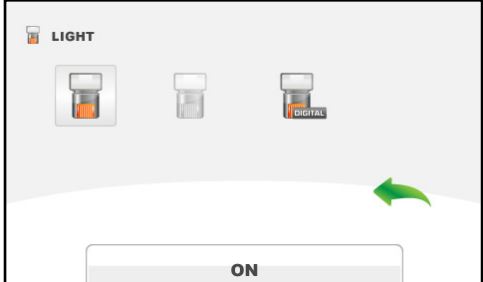
| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Display Screen                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Tap  on the screen. The main menu will show on the screen.</li> <li>2. Tap the [VIDEO SETTING ] icon twice on the screen to enter its setting menu.</li> <li>3. The Video Setting menu contains 9 options--LIGHT, RESOLUTION, MOTION DETECTION, FACE TRACKING, SLOW MOTION, PRE-RECORD, TIME LAPSE, DATE PRINTING, and CONTINUOUS PLAY --for you to adjust the camcorder settings.</li> </ol> |  |



## LIGHT

You can select the mode to brighten the shooting area or to extend the brightness of objects.

|                                                                                     |                      |                                                                                                                   |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|
|   | <b>ON</b>            | The light will be turned ON and provides light when recording.                                                    |
|  | <b>OFF</b>           | The light is turned OFF.                                                                                          |
|  | <b>DIGITAL LIGHT</b> | Extend the dynamic range for backlight and high contrast sense, so that the objects will be brighter and clearer. |

| Operation                                                                                                                                                                                                                                                                                                                                                                              | Display Screen                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Video Setting menu, tap the [LIGHT] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |

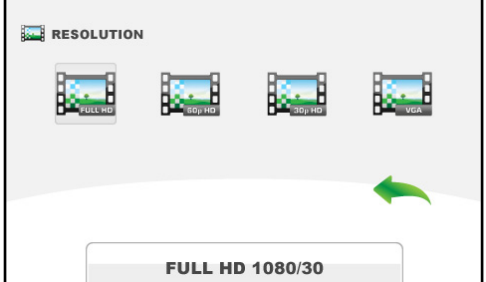
|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| Without Digital Light                                                               | Digital Light ON                                                                     |



## RESOLUTION

Four resolution settings are available.

|                                                                                   |                        |                                            |
|-----------------------------------------------------------------------------------|------------------------|--------------------------------------------|
|  | <b>Full HD 1080/30</b> | Record videos at 1920x1080p 30 resolution. |
|  | <b>HD 720/60</b>       | Record videos at 1280x720p 60 resolution.  |
|  | <b>HD 720/30</b>       | Record videos at 1280x720p 30 resolution.  |
|  | <b>VGA 480/30</b>      | Record videos at 640x480p 30 resolution.   |

| Operation                                                                                                                                                                                                                                                                                                                                                                                 | Display Screen                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Video Setting menu, tap the [RESOLUTION] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



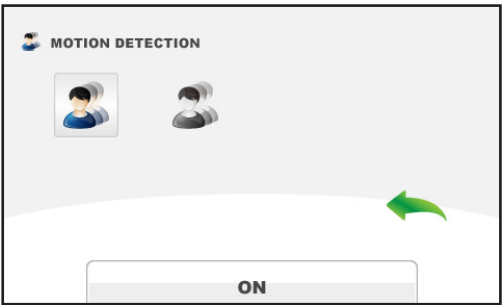
### Note

- The remaining time will be varied based on the option you have.



## MOTION DETECTION (Only available for 2D mode)

Record video automatically when the camcorder detects a movement.

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Display Screen                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Video Setting menu, tap the [MOTION DETECTION] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> <li>5. The camcorder will start to record a video automatically if it detects a movement. It will stop recording once it detects no movement.</li> </ol> |  |



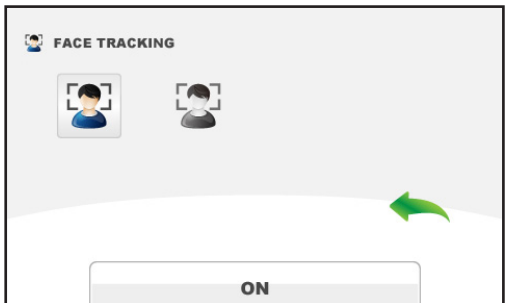
### Note

- Once the MOTION DETECTION feature is set to ON, any button (i.e., zoom in/out, left, right) will automatically set the feature to OFF.



## FACE TRACKING (Only available for 2D mode)

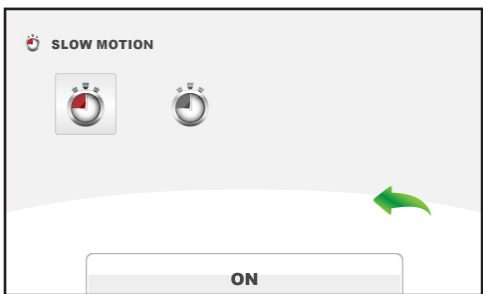
The camcorder can detect human face(s) and focus on the face(s) automatically. It is wonderful for capturing portraits in backlit conditions.

| Operation                                                                                                                                                                                                                                                                                                                                                                               | Display Screen                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. In the video Setting menu, tap the [FACE TRACKING] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |   |
| <ol style="list-style-type: none"><li>5. In Record Mode, aim the camcorder at the face(s). The face frame(s) will appear around the face.</li></ol>                                                                                                                                                                                                                                     |  |



## SLOW MOTION (Only available for 2D mode)

Record videos with slow motion effect. When the video is played, the playback time will be longer than the actual recording time.

| Operation                                                                                                                                                                                                                                                                                                                                                                               | Display Screen                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. In the Video Setting menu, tap the [SLOW MOTION] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |  |



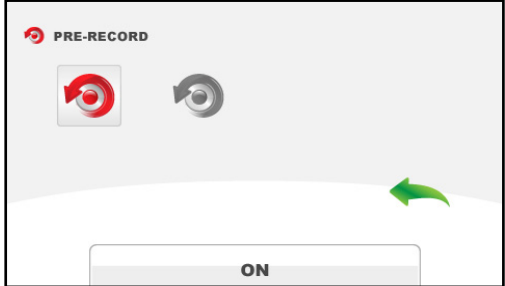
### Note

- While Slow Motion function is activated, audio is not recorded and zoom is disabled.
- The view angle may become smaller when the Slow Motion is activated.
- When Slow Motion function is activated, the video resolution is WQVGA.



## PRE-RECORD

The Pre-record function ensures that you will not miss any critical recording opportunity. The camcorder records a few seconds more before the [Video] Button is pressed.

| Operation                                                                                                                                                                                                                                                                                                                                                                            | Display Screen                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. In the Video Setting menu, tap the [PRE-RECORD] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |  |



### Note

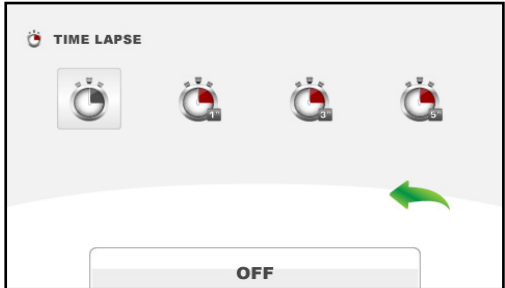
- Be sure to aim the camcorder at the subject and position it securely before the [Video Button] is pressed.
- Once the Pre-Record function is activated, it will be disabled when you setup any other video setting.



## TIME LAPSE (Only available for 2D mode)

Record still images at specific intervals you can set and play them as one video file.

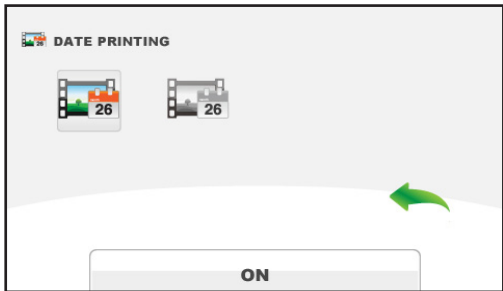
|  |                  |                                   |
|--|------------------|-----------------------------------|
|  | <b>OFF</b>       | Disable Time Lapse.               |
|  | <b>1 SECOND</b>  | Record one frame per second.      |
|  | <b>3 SECONDS</b> | Record one frame every 3 seconds. |
|  | <b>5 SECONDS</b> | Record one frame every 5 seconds. |

| Operation                                                                                                                                                                                                                                                                                                                                                                                            | Display Screen                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. In the Video Setting menu, tap the [TIME LAPSE] icon twice on the screen.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |  |



## DATE PRINTING

Imprint the date and time on the file.

| Operation                                                                                                                                                                                                                                                                                                                                                                               | Display Screen                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. In the Video Setting menu, tap the [DATE PRINTING] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |  |
| <ol style="list-style-type: none"><li>5. As the function is activated, the date will appear in the corner of the video.</li></ol>                                                                                                                                                                                                                                                       |  |

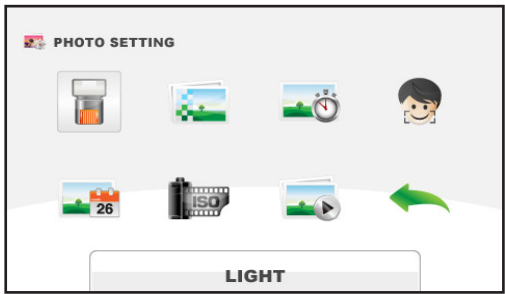


## CONTINUOUS PLAY

Playback the video files continuously.

| Operation                                                                                                                                                                                                                                                                                                                                                                                   | Display Screen                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. In the Video Setting menu, tap the [CONTINUOUS PLAY] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |  |

# PHOTO SETTING

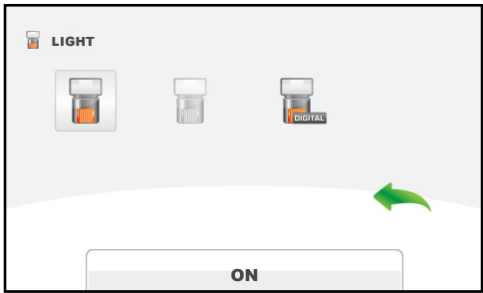
| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Display Screen                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Tap  on the screen. The main menu will show on the screen.</li> <li>2. Tap the [PHOTO SETTING ] icon twice on the screen to enter its setting menu.</li> <li>3. The Photo Setting menu contains 7 options--LIGHT, RESOLUTION, SELF-TIMER, SMILE DETECTION, DATE PRINTING, ISO, and SLIDESHOW--for you to adjust the camcorder settings.</li> </ol> |  |



## LIGHT

You can select the mode to brighten the shooting area or to extend the brightness of objects.

|                                                                                     |                      |                                                                                                                   |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|
|    | <b>ON</b>            | The light will be turned ON and provides light when recording.                                                    |
|  | <b>OFF</b>           | The light is turned OFF.                                                                                          |
|  | <b>DIGITAL LIGHT</b> | Extend the dynamic range for backlight and high contrast sense, so that the objects will be brighter and clearer. |

| Operation                                                                                                                                                                                                                                                                                                                                                                              | Display Screen                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Photo Setting menu, tap the [LIGHT] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| Without Digital Light                                                               | Digital Light ON                                                                     |



## RESOLUTION

Three resolution settings are available.

|  |                     |                                                     |
|--|---------------------|-----------------------------------------------------|
|  | <b>HIGH-16MP</b>    | Shoot photo at 4608 x 3456, 16 Mega Pixels quality. |
|  | <b>STANDARD-5MP</b> | Shoot photo at 2592 x 1944, 5 Mega Pixels quality.  |
|  | <b>Low-3MP</b>      | Shoot photo at 2048 x 1536, 3 Mega Pixels quality.  |

| Operation                                                                                                                                                                                                                                                                                           | Display Screen |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"><li>1. In the Photo Setting menu, tap the [RESOLUTION] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |                |



## SELF-TIMER

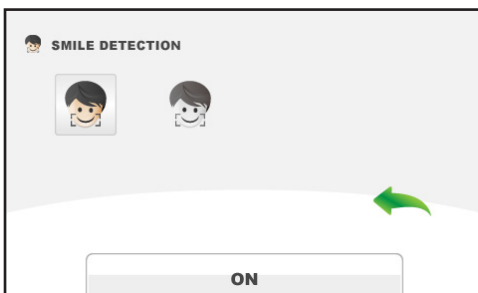
The self-timer allows you to take photo with a ten-second time delay.

| Operation                                                                                                                                                                                                                                                                                           | Display Screen |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"><li>1. In the Photo Setting menu, tap the [SELF-TIMER] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |                |



## SMILE DETECTION (Only available for 2D mode)

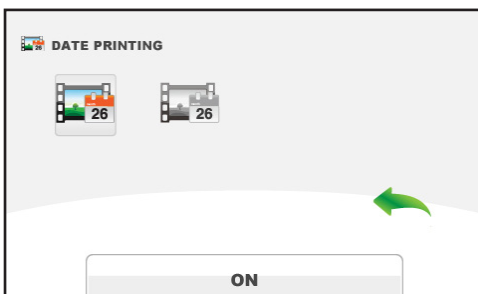
The camcorder capture the photo automatically when it detects a smile.

| Operation                                                                                                                                                                                                                                                                                                                                                                                      | Display Screen                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Photo Setting menu, tap the [SMILE DETECTION] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |
| <ol style="list-style-type: none"> <li>5. In Photo Mode, aim the camcorder at the smiling faces. The face frames will appear around the face with smile.</li> <li>6. The camcorder will focus on the subject. Then, the it will capture the photo automatically.</li> </ol>                                                                                                                    |  |



## DATE PRINTING

Imprint the date and time on the file.

| Operation                                                                                                                                                                                                                                                                                                                                                                                      | Display Screen                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the photo Setting menu, tap the [DATE PRINTING] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |
| <ol style="list-style-type: none"> <li>5. As the function is activated, the date will appear in the corner of the photo.</li> </ol>                                                                                                                                                                                                                                                            |  |



## ISO

The camcorder adjusts the ISO sensitivity of its images automatically. Four manual ISO sensitivity settings are available. (800/1600/3200/6400). The larger the number, the higher the ISO sensitivity. Select the lower setting to shoot a smoother image. Select the higher setting to shoot a photo in a dark poorly lit location, or to shoot a subject moving at a high rate of speed.

|  |             |                                        |
|--|-------------|----------------------------------------|
|  | <b>Auto</b> | Set the ISO sensitivity automatically. |
|  | <b>800</b>  | ISO 800                                |
|  | <b>1600</b> | ISO 1600                               |
|  | <b>3200</b> | ISO 3200                               |
|  | <b>6400</b> | ISO 6400                               |

| Operation                                                                                                                                                                                                                                                                                         | Display Screen |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Photo Setting menu, tap the [ISO] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |



### Note

*The image may become grainy with a higher ISO setting.*



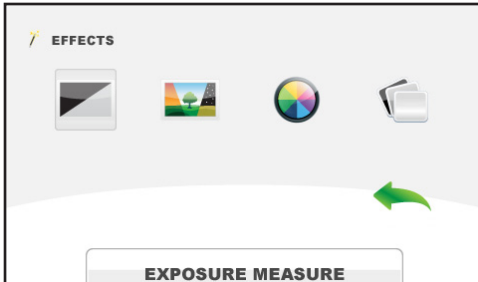
## SLIDESHOW

Display photos one after another in turn.

|  |                   |                                     |
|--|-------------------|-------------------------------------|
|  | <b>2 SECONDS</b>  | Display one photo every 2 seconds.  |
|  | <b>5 SECONDS</b>  | Display one photo every 5 seconds.  |
|  | <b>10 SECONDS</b> | Display one photo every 10 seconds. |
|  | <b>OFF</b>        | Disable Slideshow.                  |

| Operation                                                                                                                                                                                                                                                                                                     | Display Screen |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Photo Setting menu, touch the [SLIDESHOW] icon twice.</li> <li>2. Touch to select the desired option.</li> <li>3. Touch again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |

## EFFECTS

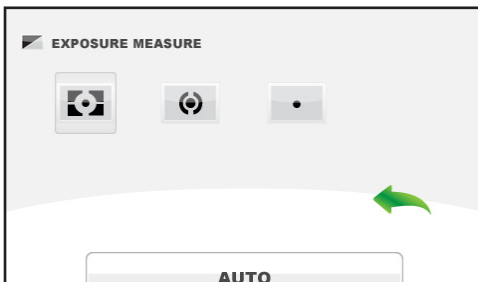
| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Display Screen                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Tap  on the screen. The main menu will show on the screen.</li> <li>2. Tap the [EFFECTS ] icon twice on the screen to enter its setting menu.</li> <li>3. The Effects menu contains 4 options EXPOSURE MEASURE, SCENE, FILTER, and WHITE BALANCE --for you to adjust the camcorder settings.</li> </ol> |  |



## EXPOSURE MEASURE

Exposure is the amount of light that the camcorder receives from the scene. The camcorder adjusts the exposure automatically. Two manual modes are provided: CENTER and SPOT.

|                                                                                     |               |                                                                                                                                                                                                              |                                                                                      |
|-------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | <b>AUTO</b>   | The camcorder meters the light in an average value for the overall scene and adjusts the exposure automatically. This setting is suitable for the normal condition.                                          |   |
|  | <b>CENTER</b> | The camcorder still meters the light in an average value for the entire scene, but gives greater weight to the center. In this way, the center part will get more clear and the surrounding may become dark. |  |
|  | <b>SPOT</b>   | The camcorder only meters the light in the middle spot of the scene. This setting is typically used in capturing the light of candle.                                                                        |  |

| Operation                                                                                                                                                                                                                                                                                                                                                                                   | Display Screen                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Effects menu, tap the [EXPOSURE MEASURE] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



## SCENE

You can select the mode according to the scene condition.

|  |                  |                                                                 |
|--|------------------|-----------------------------------------------------------------|
|  | <b>AUTO</b>      | Automatic adjustment                                            |
|  | <b>SKIN</b>      | Shoot with an effect that makes skin tones more natural.        |
|  | <b>NIGHT</b>     | Use Night Mode for night scenes or low light conditions.        |
|  | <b>BACKLIGHT</b> | You can take shots when the bright light is behind the subject. |

| Operation                                                                                                                                                                                                                                                                                     | Display Screen |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Effects menu, tap the [SCENE] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |



### Note

To avoid blurry photos, place the camcorder on a flat, steady surface, or use a tripod when taking shots in the Night Mode.



## FILTER

You can select the special filter effects on the videos or photos.

|  |                          |                                                       |
|--|--------------------------|-------------------------------------------------------|
|  | <b>AUTO</b>              | Shoot without any special effect on the image.        |
|  | <b>BLACK &amp; WHITE</b> | The image is converted to black-and-white.            |
|  | <b>CLASSIC</b>           | The image is converted to a sepia look.               |
|  | <b>NEGATIVE</b>          | The image is converted as the negative of the normal. |

| Operation                                                                                                                                                                                                                                                                                      | Display Screen |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Effects menu, tap the [FILTER] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |



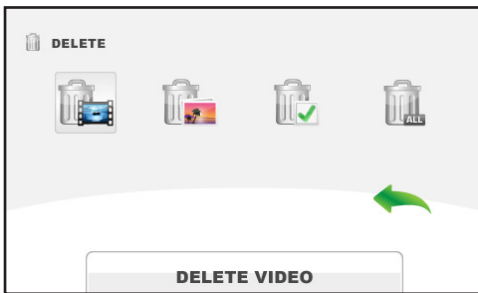
## WHITE BALANCE

The camcorder adjusts the color balance of images automatically. Three manual white balance settings are available:

|  |                    |                                                    |
|--|--------------------|----------------------------------------------------|
|  | <b>AUTO</b>        | The camcorder automatically adjusts white balance. |
|  | <b>DAYLIGHT</b>    | Under outdoor condition.                           |
|  | <b>FLUORESCENT</b> | Under fluorescent light condition.                 |
|  | <b>TUNGSTEN</b>    | Under tungsten light condition.                    |

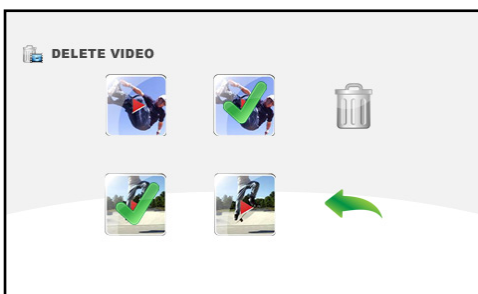
| Operation                                                                                                                                                                                                                                                                                        | Display Screen |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"><li>1. In the Effects menu, tap the [WHITE BALANCE] icon twice.</li><li>2. Tap to select the desired option.</li><li>3. Tap again to validate the setting.</li><li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li></ol> |                |

## DELETE

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Display Screen                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Tap  on the screen. The main menu will show on the screen.</li> <li>2. Tap the [DELETE ] icon twice on the screen to enter delete menu.</li> <li>3. The Delete menu contains 4 options-- DELETE VIDEO, DELETE PHOTO, SELECT &amp; DELETE, and DELETE ALL --for you to manage the videos and photos in the built-in memory or the SD card.</li> </ol> |  |

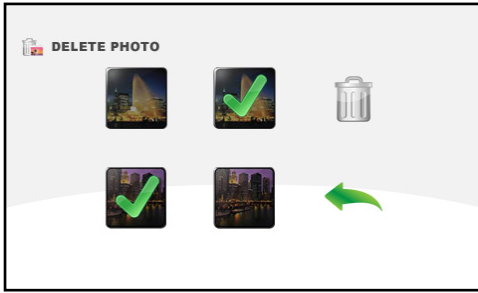


### DELETE VIDEO

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Display Screen                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Delete menu, tap the [DELETE VIDEO] icon twice.</li> <li>2. In the video thumbnail screen, tap to select the desired video(s). (The check mark(s) will be shown on the selected file(s).)</li> <li>3. Tap  to delete the selected video(s).</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |

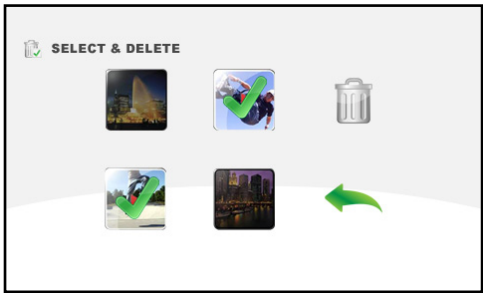


### DELETE PHOTO

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Display Screen                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Delete menu, tap the [DELETE PHOTO] icon twice.</li> <li>2. In the photo thumbnail screen, tap to select the desired photo(s). (The check mark(s) will be shown on the selected file(s).)</li> <li>3. Tap  to delete the selected photo(s).</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



## SELECT & DELETE

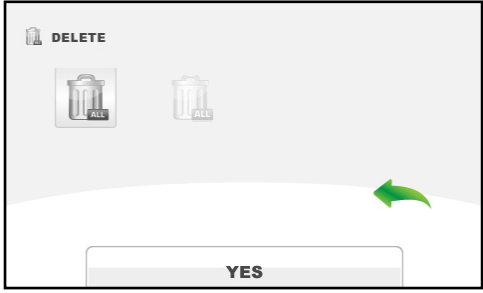
| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Display Screen                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Delete menu, tap the [SELECT &amp; DELETE] icon twice.</li> <li>2. In the video &amp; photo thumbnail screen, tap to select the desired file(s). (The check mark(s) will be shown on the selected file(s).)</li> <li>3. Tap  to delete the selected file(s).</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



## DELETE ALL

Use this option to delete all of the videos and photos

|                                                                                     |            |                                                                                                  |
|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|
|    | <b>YES</b> | Delete all of the videos and photos in the built-in memory (When no SD card is installed)        |
|                                                                                     |            | Delete all of the videos and photos on the SD card (When an SD card is installed).               |
|  | <b>NO</b>  | Do not delete all of the videos and photos in the built-in memory (When no SD card is installed) |
|                                                                                     |            | Do not delete all of the videos and photos on the SD card (When an SD card is installed).        |

| Operation                                                                                                                                                                                                                                                                                                                                                                            | Display Screen                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Delete menu, tap the [DELETE ALL] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



### Note

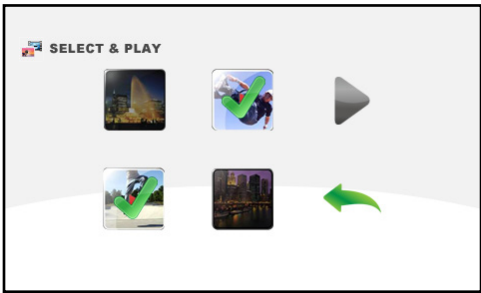
- When an SD Card has been installed, only the videos and photos stored on the card are deleted.
- Videos or photos cannot be deleted if the card is write-protected.

## Section 4

# Playback Mode

### Operations for Playback Mode

The Playback Mode is for viewing and managing videos and photos on the built-in memory or on an SD card.

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Display Screen                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In Record Mode, tap  to switch to the Playback Mode.</li> <li>2. Tap  to go to the previous video/photo; Tap  to go to the next video/photo.</li> <li>3. Tap  to open the menu. (Please refer to section3.)</li> <li>4. Tap  to open the thumbnail screen of videos and photos.</li> </ol> |   |
| <ol style="list-style-type: none"> <li>5. In the thumbnail screen of videos and photos, select the file(s) you want to play, and then tap  to confirm. (The check mark(s) will be shown on the selected file(s).)</li> <li>6. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol>                                                                                                                                                                                                                                                             |                                                                                    |
| <ol style="list-style-type: none"> <li>7. tap  to play the selected files. (Video:full length. Photo:2 seconds.)</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |

## Button Function

The Buttons have the following functions in Playback Mode.

|                                                                                                 |                                                                                              |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                | <b>Video Button:</b><br>1. Press to go to Record Mode.                                       |
|                | <b>Photo Button:</b><br>1. Press to go to Record Mode.                                       |
| <b>W T</b><br> | <b>Tele Button:</b><br>1. Volume increase.<br><br><b>Wide Button:</b><br>1. Volume decrease. |
|               | <b>Power Button:</b><br>1. Press down for one second to turn on or turn off the camcorder.   |

## LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:

| On-screen information icon                                                          |                                                                                     | On-screen touchable function icon                                                    |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
|  |                                                                                     |  |  |
| (1)                                                                                 |  | Battery: full power                                                                  |  |
|                                                                                     |  | Battery: medium power                                                                |  |
|                                                                                     |  | Battery: low power                                                                   |  |
|                                                                                     |  | Battery: empty power                                                                 |  |
|                                                                                     |  | DC power mode                                                                        |  |

|      |                                                                                     |                                                    |
|------|-------------------------------------------------------------------------------------|----------------------------------------------------|
| (2)  | 00:03:12                                                                            | Playback time counter                              |
|      | ▲ 321                                                                               | Number of current photo                            |
|      | ▼ 250                                                                               | Total number of photos                             |
| (3)  |    | Volume                                             |
| (4)  |    | Video playback mode                                |
|      |    | Photo playback mode                                |
| (5)  |    | Video Trim Mode On                                 |
| (6)  | Video Playback Mode                                                                 |                                                    |
|      |    | Indicate the function of continuous play on or off |
|      | Photo Playback Mode                                                                 |                                                    |
|      |  | Indicate the function of slideshow on or off       |
| (7)  |  | Select & Play thumbnail screen On                  |
| (8)  |  | Menu On                                            |
| (9)  |  | Return to the Record Mode                          |
| (10) |  | Go to the previous file. Videos fast rewind        |
| (11) |  | Play the file                                      |
|      |  | Pause                                              |
| (12) |  | Go to the next file. Videos fast forward.          |
| (13) |  | Delete the current file.                           |
| (13) |  | Stop video playing. Stop photo slideshow           |



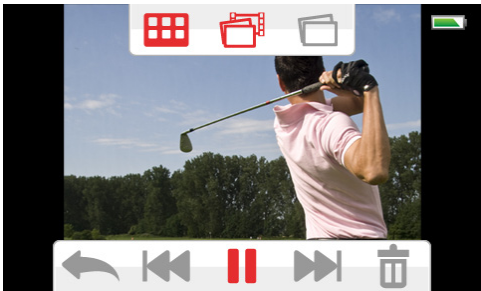
### Note

- Tap on the screen to close the touchable function bars. Tap again to show the bars.

## Video Playback

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Display Screen                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Video Playback Mode, tap ► / ⏸ to play or pause the video.</li> <li>2. Tap ⏮ to go to the previous file; tap ⏭ to go to the next file.</li> <li>3. While playing videos, tap ⏮ / ⏭ to fast rewind/forward.</li> <li>4. In the Continuous Play On Mode (🎞️ is highlighted), tap ► to play all video files continuously. Tap ■ to stop playing.</li> <li>5. Use Tele / Wide Buttons to adjust the volume.</li> </ol> |  |

## Photo Playback

| Operation                                                                                                                                                                                                                                                                     | Display Screen                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Photo Playback Mode, tap ⏮ to go to the previous file; tap ⏭ to go to the next file.</li> <li>2. In the Slideshow On Mode (🎞️ is highlighted), tap ► / ⏸ to play or pause the slideshow. Tap ■ to stop slideshow.</li> </ol> |  |

## Delete File in Playback Mode

| Operation                                                                                                                                                                                            | Display Screen                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In Playback Mode, tap 🗑️ on the screen.</li> <li>2. Tap 🗑️ to delete the current photo.</li> <li>3. Or tap ↩️ to cancel the operation and exit.</li> </ol> |  |



### Note

- Videos and Photos on a written-protected memory card cannot be deleted.

## Video Trim

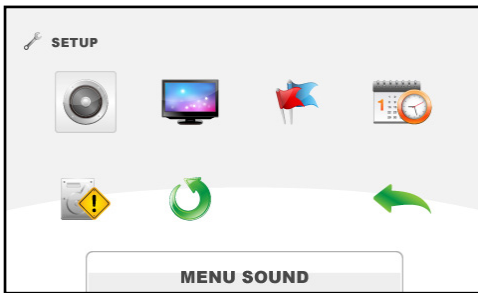
You can trim away the beginnings and ends of the recorded video and save it as a new video clip.

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Display Screen                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1. In Video playback mode, tap the right-most [CUT  ] icon on the top.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
| 1. Drag the dividing icon (  ) (the icon becomes red) on the bar to specify the beginning and the end.<br>2. Press the rewind /forward (  /  ) icon to fine-tune the dividing point.<br>3. You can preview the video by tapping  /  to play or pause the video. Tap  to stop playing.<br>4. Tap the [SAVE AS NEW  ] icon on the top menu bar to trim away the white portion and save the red portion as a new video file.<br>5. Or tap the [RETURN]  icon to exit. |  |
| <p>Video Flow:</p> <p>Specify the dividing icon (  ) where the video clip is to be cut.</p> <p>Portion A and C will be cut, and portion B will be saved as a new video clip.</p> <div style="text-align: center;">  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |

## Section 5

# Setting Your Camcorder

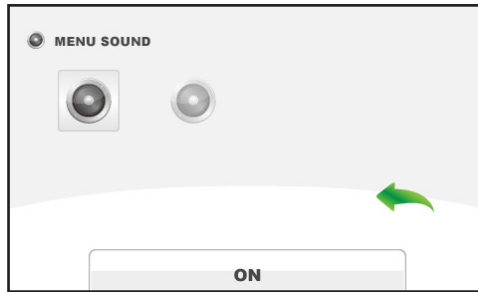
### Setup Menu

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Display Screen                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Tap  on the screen. The main menu will show on the screen.</li> <li>2. Tap the [Setup ] icon twice on the screen to enter its setting menu.</li> <li>3. The Setup menu contains 6 options for configuring your camcorder setup. They are MENU SOUND (operation sound), TV, LANGUAGE, TIME SETTING, FORMAT, and DEFAULT SETTING.</li> </ol> |  |



### MENU SOUND

Enable or disable the keypad tone and the operation sound.

| Operation                                                                                                                                                                                                                                                                                                                                                                           | Display Screen                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Setup menu, tap the [MENU SOUND] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



## TV

Ensure that the appropriate TV standard of your area is selected – either NTSC or PAL. Wrong TV system setting may cause image flickers.

|  |                    |                                                             |
|--|--------------------|-------------------------------------------------------------|
|  | <b>NTSC (60Hz)</b> | USA, Canada, Japan, South Korea and Taiwan, etc.            |
|  | <b>PAL (50Hz)</b>  | UK, Europe, China, Australia, Singapore and Hong Kong, etc. |

| Operation                                                                                                                                                                                                                                                                                | Display Screen |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Setup menu, tap the [TV] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |



## LANGUAGE

Use this option to select the language of the user interface.

| Operation                                                                                                                                                                                                                                                                                      | Display Screen |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Setup menu, tap the [LANGUAGE] icon twice.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |



## TIME SETTING

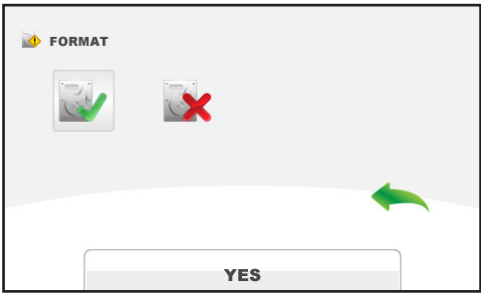
| Operation                                                                                                                                                                                                                                                                                                                                                             | Display Screen |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ol style="list-style-type: none"> <li>1. In the Setup menu, tap the [TIME SETTING] icon twice.</li> <li>2. Tap Year, Month, Day, Hour, or Minute to set.</li> <li>3. Adjust the numeric value by tapping the arrows.</li> <li>4. Tap  to validate the setting.</li> <li>5. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |                |



## FORMAT

Use this option to erase all data in the built-in memory or the SD card.

|                                                                                   |            |                                                                                                            |
|-----------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------|
|  | <b>YES</b> | Format the built-in memory (When no SD card is installed) / SD card (When an SD card is installed).        |
|  | <b>NO</b>  | Do not format the built-in memory (When no SD card is installed) / SD card (When an SD card is installed). |

| Operation                                                                                                                                                                                                                                                                                                                                                                                   | Display Screen                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Setup menu, tap the [FORMAT] icon twice on the screen.</li> <li>2. Tap to select the desired option.</li> <li>3. Tap again to validate the setting.</li> <li>4. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |



### Note

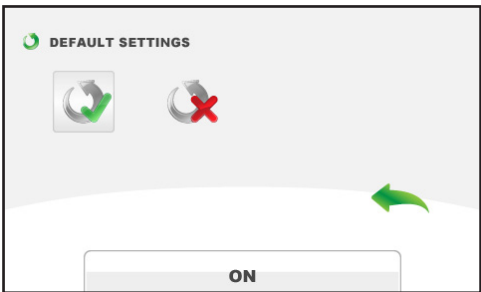
*All the data will be erased if the SD card is formatted. Make sure all the data are copied to your PC before formatting the SD card.*



## DEFAULT SETTING

Use this option to restore the default factory setting.

|                                                                                     |            |                                         |
|-------------------------------------------------------------------------------------|------------|-----------------------------------------|
|  | <b>YES</b> | Restore default factory setting.        |
|  | <b>NO</b>  | Do not restore default factory setting. |

| Operation                                                                                                                                                                                                                                                                                                                                                                                                                               | Display Screen                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. In the Setup menu, tap the [DEFAULT SETTING] icon on the screen to enter the confirmation screen.</li> <li>2. Tap the [Yes] icon to execute the operation and the [No] icon to cancel the operation.</li> <li>3. Or tap the RETURN icon (  ) twice (or tap and hold it for one second) to exit.</li> </ol> |  |

The following table indicates the camcorder's default settings

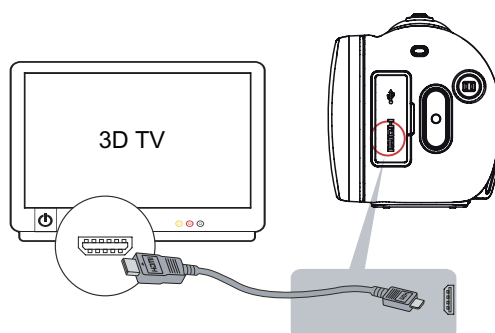
| <b>Setting</b>          | <b>Default Factory Setting</b>                      |
|-------------------------|-----------------------------------------------------|
| <b>Resolution</b>       | Full HD 1080/30 for Video<br>Standard- 5M for Photo |
| <b>Light</b>            | Off                                                 |
| <b>Motion Detection</b> | Off                                                 |
| <b>Face Tracking</b>    | Off                                                 |
| <b>Slow Motion</b>      | Off                                                 |
| <b>Pre-Record</b>       | Off                                                 |
| <b>Time Lapse</b>       | Off                                                 |
| <b>Continuous Play</b>  | Off                                                 |
| <b>Self-Timer</b>       | Off                                                 |
| <b>Smile Detection</b>  | Off                                                 |
| <b>Date Printing</b>    | Off                                                 |
| <b>ISO</b>              | Auto                                                |
| <b>Slideshow</b>        | Off                                                 |
| <b>Exposure Measure</b> | Auto                                                |
| <b>Scene</b>            | Auto                                                |
| <b>Filter</b>           | Auto                                                |
| <b>White Balance</b>    | Auto                                                |
| <b>Menu Sound</b>       | On                                                  |
| <b>TV</b>               | Depends on shipping area                            |
| <b>Language</b>         | Depends on shipping area                            |
| <b>Volume</b>           | Level 4                                             |

## Section 6

# Viewing Photos and Videos on TV

### Connecting to a 3D compatible TV

1. Connect the HDMI cable to your camcorder's HDMI port.
2. Connect the other end of the cable to the 3D TV.
3. Make the necessary settings on the 3D TV. (For further details, please refer to the instructions of your TV.)
4. The steps for viewing the stored 3D videos and photos on a 3D TV are exactly the same as for viewing them on the LCD monitor.

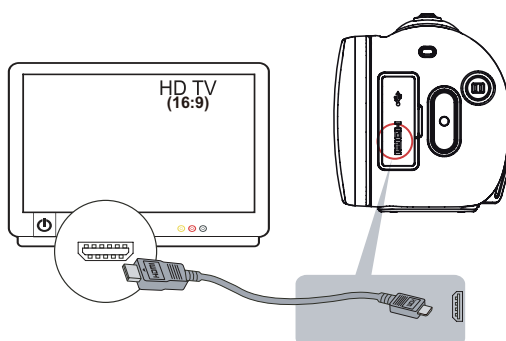


#### Note

- Some functions may not be accessible while the camcorder is connected to an TV.
- The camcorder can not run thumbnail screen while the camcorder is connected to an TV.

### Connecting to a High-Definition 16:9 (Wide) TV

1. Connect the HDMI cable to your camcorder's HDMI port.
2. Connect the other end of the cable to a HDTV.
3. Set the video input source of your TV to "HDMI."
4. The steps for viewing stored videos and photos on an HDTV are exactly the same as for viewing them on the LCD monitor.



#### Note

- Some functions may not be accessible while the camcorder is connected to an HDTV.
- The camcorder can not run thumbnail screen while the camcorder is connected to an HDTV.

## Section 7

# Viewing Photos and Videos on PC

### Installing Bundled Software

The CD-ROM supplied with this camcorder contains 2 pieces of software.

- **ArcSoft MediaImpression** is a user-friendly application that helps you managing your media and uploading your files to the web sites easily.
- **Adobe Reader** is a popular program that you need to have installed to read the User's Manual. Many computer users will find they already have this software installed on their computer.

To install the bundled software:

1. Insert the CD-ROM into your computer's CD-ROM drive. The autorun screen appears.
2. Click "**Install Application Software**". Follow the on-screen instructions to complete the installation.



#### Note

- Detailed information can be found in the online help of all the bundled software.
- Install the bundled software application, ArcSoft MediaImpression, for viewing the videos correctly on a PC.

### Transferring Photos or Videos to a Computer

You can transfer photos or videos stored on your camcorder to a computer and send them in e-mails to friends or post them on the web sites.

To do this you should:

1. Connect the computer and camcorder with the supplied mini USB 2.0 cable.
2. To access photos and videos on your SD card: Videos and photos can be found on your computer at My Computer\SD\DCIM\100MEDIA (path will vary depending on name of SD card).
3. To access photos and videos in the camcorder's internal memory: Videos and photos can be found on your computer at My Computer\DV\DCIM\100MEDIA.
4. Under this folder, you can view, delete, move, or copy any video/photo you want.

## Section 8

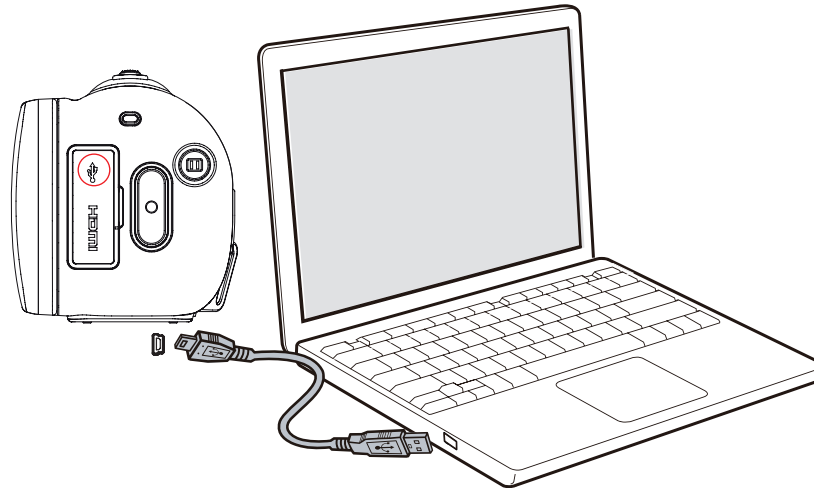
# Uploading Files to Social Network Sides

The built-in CAMILEO Uploader application offers you an easy way to upload your files to the social websites instantly. It helps you share them with your family and friends on the web sites. Also, the bundled software, ArcSoft MediaImpression, can be used to upload your files to the web sites.

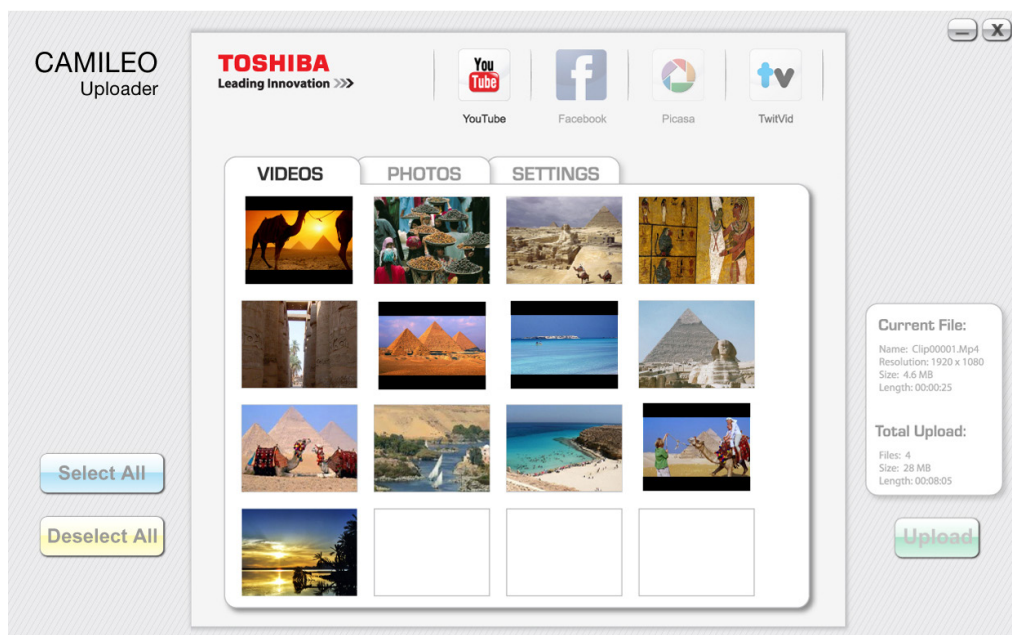
### CAMILEO Uploader

#### To upload files to Internet:

1. Connect the camcorder to your computer by using the supplied USB cable.



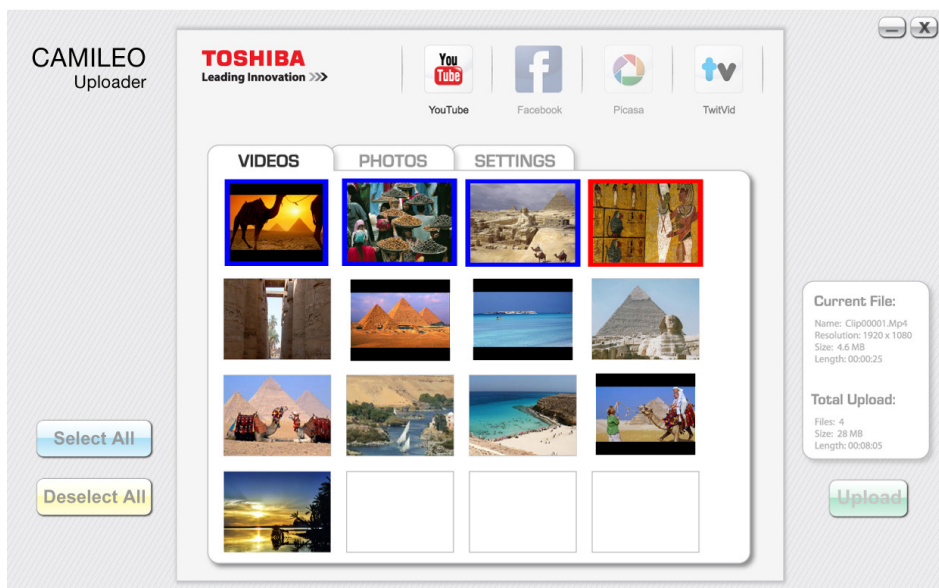
2. After making a USB connection, the AutoPlay window will appear. (It may be different based on OS recognition. If the AutoPlay window does not appear. Please click [My Computer] --> [DVAP] --> [DVAP. exe] to execute the application.)
3. The main screen appears automatically on the desktop.



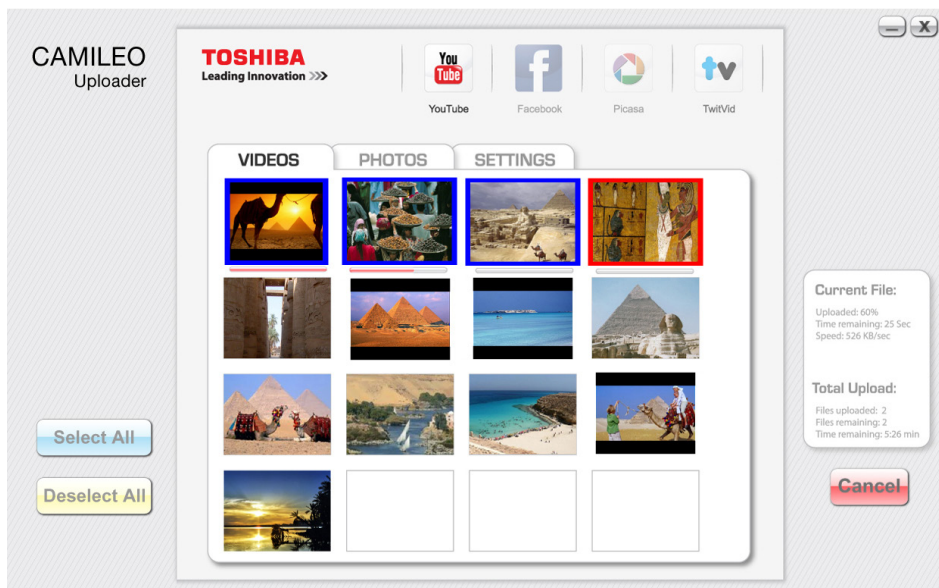
### Note

- If ArcSoft MediaImpression is not installed, you may be asked to install the H.264 Codec (ffdshow-a free software under GPL license) for viewing the videos on CAMILEO Uploader correctly.

4. Choose the website you want to upload.
5. Click on [VIDEOS]/[PHOTOS] to go to the videos/ photos thumbnail page. Scroll the bar to change the pages.
6. Click on the files you want to upload. Click on [Select All]/[Deselect All] to select/deselect all video or photo files shown on the current page.



7. Click on [Upload] to start uploading.



### To setup your account information for the website:

1. Choose the website.
2. Click on [SETTINGS] to go to the setup page.
3. Fill in your account information in the blanks. Then click on “Save”.
4. You can check [Remember Password] to save your account information and password in this CAMILEO Uploader application. (If it is unchecked, the password request will appear after clicking on [UPLOAD] on the thumbnail page.)



### Note

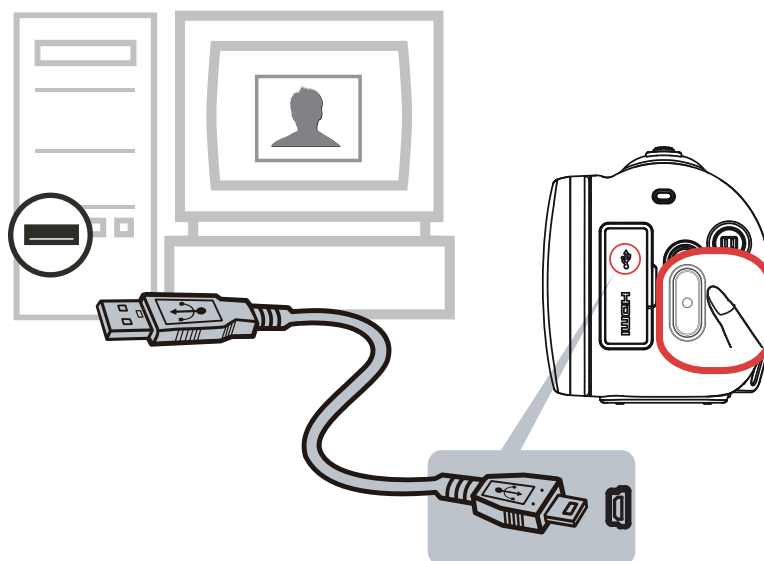
- Some social websites may not be allowed to access in certain regions.
- You must have internet access to upload files to the website.

## Section 9

# Webcam Mode

### Webcam Mode

Connect the computer and camcorder with the supplied mini USB2.0 cable. Press the [Video] Button to switch to the Webcam Mode. The Indicator Light turns BLUE. In this mode, you can implement live video conference meetings and multimedia communications.



#### Note

- The camcorder supports webcam in 2D VGA resolution.

## Section 10

# Specifications

| Specification    |                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Image sensor     | 5 Mega pixel CMOS sensor × 2                                                                                                    |
| Operation modes  | Video record, Photo record, Webcam                                                                                              |
| Lens types       | Fixed focus                                                                                                                     |
| Lens             | F2.8                                                                                                                            |
| Focus range      | 1m (3.9 inch) – Infinity                                                                                                        |
| Zoom             | 2D mode: 1×~10× (10× Digital zoom)<br>3D mode: 1×~4× (4× Digital zoom)                                                          |
| Shutter          | Electronic                                                                                                                      |
| LCD monitor      | 7.11 cm (2.8 inches) touch LCD (16:9)                                                                                           |
| Storage media    | Built-in 128MB memory (partial memory is used for firmware code);<br>SD/SDHC/SDXC card slot support (up to 128GB)               |
| Image resolution | 16 Mega Pixels: 4608 × 3456 (Interpolated)<br>5 Mega Pixels: 2592×1944<br>3 Mega Pixels: 2048×1536                              |
| Video resolution | FULL HD 1080/30: 1920×1080 (30fps)<br>HD 720/60: 1280×720 (60fps)<br>HD 720/30: 1280×720 (30fps)<br>VGA 480/30: 640×480 (30fps) |
| White balance    | Auto/Daylight/Fluorescent/Tungsten                                                                                              |
| ISO              | Auto/800/1600/3200/6400                                                                                                         |
| Exposure Measure | Auto/Center/Spot                                                                                                                |
| Self-timer       | 10 seconds delay                                                                                                                |
| Light            | Light ON/ Light OFF/Digital Light                                                                                               |
| File format      | Photo: JPG<br>Video: MP4 (H.264)                                                                                                |
| Image play       | Single image/Slideshow                                                                                                          |
| PC interface     | Mini USB 2.0 port                                                                                                               |
| TV out           | HDMI                                                                                                                            |
| Battery          | Lithium-ion rechargeable battery                                                                                                |
| Dimension        | 120mm (W) × 54mm (H) × 62mm (T) (4.72(W) × 2.13(H) × 2.44(T) inches)                                                            |
| Weight           | 255 g (without battery)                                                                                                         |

# Section 11

## Troubleshooting

### Troubleshooting

If the camcorder fails to function as expected, check the list of the common problems below.

| Problem/Situation                                                                                                                            | Remediation/Solution                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cannot turn on the camcorder.<br/>The power turns off suddenly.</b>                                                                       | Power is off. Press the [Power Button] to turn on.                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                              | Battery pack is weak or depleted. Recharge the battery pack.                                                                                                                                                                                                                                                                                                                             |
| <b>Camcorder cannot be turned on after plugging power adapter.</b>                                                                           | Please make sure that you use the supplied power adapter and connect it to the power outlet correctly.                                                                                                                                                                                                                                                                                   |
| <b>The indicator of remaining battery life is not displayed properly.</b>                                                                    | The remaining battery capacity indication is an approximation.                                                                                                                                                                                                                                                                                                                           |
| <b>The files on the memory card do not display smoothly when the LCD shows the “!” marking.</b>                                              | “!” means the SD card is low speed or contains corrupted files. To solve this, format the SD card using the camcorder instead of a computer. (Please refer to the detailed Format instruction in Section 5).                                                                                                                                                                             |
|                                                                                                                                              | The card has some problems and cannot be recognized. Change the card with another one.                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                              | Or please change the SD card to a high speed one.                                                                                                                                                                                                                                                                                                                                        |
| <b>Cannot take video/photo.</b>                                                                                                              | Memory is full. Delete some unnecessary videos/photos or insert a new SD card.                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                              | Power is off. Press the [Power Button] to turn on.                                                                                                                                                                                                                                                                                                                                       |
| <b>The camcorder is frozen.</b>                                                                                                              | Please remove the battery/unplug the adapter. Then, insert the battery/plug the adapter and turn on the camcorder again.                                                                                                                                                                                                                                                                 |
| <b>The date imprinted on the photo is incorrect</b>                                                                                          | Set the date and time in the [Setting] menu.                                                                                                                                                                                                                                                                                                                                             |
| <b>Why do some of my indoor photos look blurry and dark?</b>                                                                                 | Poor lighting. Take photo in better lighting.                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                              | The camcorder extends photo exposure time under low light/indoor condition. Keep the camcorder (and the target subject) steady for several seconds when taking photos.                                                                                                                                                                                                                   |
|                                                                                                                                              | Place the camcorder on a flat and steady surface, or use a tripod when take photo.                                                                                                                                                                                                                                                                                                       |
| <b>The color of the video/photo is not natural.</b>                                                                                          | Select the proper white balance option to match the light source.                                                                                                                                                                                                                                                                                                                        |
| <b>When recording in 3D mode, certain functions will be restricted.</b>                                                                      | Motion Detection, Face Tracking, Slow Motion, Time Lapse, and Smile Detection cannot be used during 3D recording.                                                                                                                                                                                                                                                                        |
| <b>When the camcorder is connected to the PC via USB cable, many Autoplay windows may pop out. They indicate the disks of the camcorder.</b> | <p>[DV] indicates the internal memory of the camcorder.</p> <p>[Removable Disk] indicates the external memory (memory card installed in the camcorder).</p> <p>The disk [DVAP] shows the built-in CAMILEO UPLOADER application is saved at this disk. Please DO NOT format this disk or delete the application inside; otherwise, the CAMILEO UPLOADER application can not function.</p> |

## Section 12

# Other Information

### TOSHIBA Support

#### Need help?

For the latest driver updates, user's manuals & FAQ's please have a look at the TOSHIBA options & services support page:

[computers.toshiba.eu/options-support](http://computers.toshiba.eu/options-support)

Please see [computers.toshiba.eu/options-warranty](http://computers.toshiba.eu/options-warranty) for the TOSHIBA hotline numbers.

### Operating Environment Conditions

Operating temperature: 5 to 35° C

Operating humidity: 20 to 80 %

(no condensation allowed)

### Regulatory Information

#### CE compliance



This product is CE marked in accordance with the requirements of the applicable EU Directives. Responsible for CE marking is Toshiba Europe GmbH, Hammfelddamm 8, 41460 Neuss, Germany. A copy of the official Declaration of Conformity can be obtained from following website:

<http://epps.toshiba-teg.com>.

#### Working Environment

The Electromagnetic Compliance (EMC) of this product has been verified typically for this product category for a so called Residential, Commercial & Light Industry Environment. Any other working environment has not been verified by Toshiba and the use of this product in these working environments is maybe restricted or cannot be recommended. Possible consequences of the use of this product in non verified working environments can be: Disturbances of other products or of this product in the nearby surrounding area with temporarily malfunction or data loss/corruption as result. Example of non verified working environments and related advices:

Industrial environment (e.g. where a 3-phase 380V mains is being used mainly): Danger of disturbances of this product due to possible strong electromagnetic fields especially near to big machinery or power units.

Medical environment: The compliance to the Medical Product Directive has not been verified by Toshiba, therefore this product cannot be used as a medical product without further verification. The use in usual office environments e.g. in hospitals should be no problem if there is no restriction by the responsible administration.

Automotive environment: Please search the owner instructions of the related vehicle for advices regarding the use of this product (category).

Aviation environment: Please follow the instructions of the flight personnel regarding restrictions of use.

#### **Additional environments not related to EMC**

Outdoor use: As a typical home/office equipment this product has no special resistance against ingress of moisture and is not strong shock proofed.

Explosive atmosphere: The use of this product in such special working environment (Ex) is not allowed.

#### REACH

#### **Following information is only valid for EU-member States:**

##### **REACH - Compliance Statement**

The new European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007.

Toshiba will meet all REACH requirements and is committed to provide our customers with information about the chemical substances in our products according to REACH regulation.

Please consult the following website [www.toshiba-europe.com/computers/info/reach](http://www.toshiba-europe.com/computers/info/reach) for information about the presence in our articles of substances included on the candidate list according to article 59(1) of Regulation (EC) No 1907/2006 („REACH“) in a concentration above 0.1 % weight by weight.

#### **Following information is only valid for EU-member states:**

##### **Disposal of products**

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005. By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please visit our website (<http://eu.computers.toshiba-europe.com>) or contact your local city office or the shop where you purchased the product.



##### **Disposal of batteries and/or accumulators**

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.



**Pb, Hg, Cd**

For more detailed information about the collection and recycling programmes available in your country, please visit our website (<http://eu.computers.toshiba-europe.com>) or contact your local city office or the shop where you purchased the product.

## About the battery pack

- Use only batteries recommended by TOSHIBA as replacements. The battery pack is lithium ion batteries, which can explode if not replaced, used, handled or disposed of properly. Dispose of the battery as required by local ordinances or regulations.
- Charge the battery pack only in an ambient temperature between 5 and 35 degrees Celsius. Otherwise, the electrolyte solution might leak, battery pack performance might deteriorate and the battery life might be shortened.
- Never install or remove the battery pack without first turning off the power and disconnecting the AC adaptor.
- Use only the product connected to an AC power source or optional TOSHIBA Battery charger to charge the battery pack. Never attempt to charge the battery pack with any other charger.

## Additional Information

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TOSHIBA reserves the right to make technical changes. TOSHIBA assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between this product and the documentation.

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**[www.toshiba-multimedia.com](http://www.toshiba-multimedia.com)**