User's Manual

CAMILEO X450

TOSHIBA

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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 with 8 Mega Pixel sensor can take H.264 videos. By way of using H.264 technology, more videos can be taken within certain amount of memory. High quality images with up to 16 mega-pixels can also be delivered smoothly. With a color LCD monitor, users can compose images and examine them easily.

The camcorder features 3” LCD touch panel which is an ideal platform for you to operate your camcorder. The menu options are accessible with your finger. With the touch panel, you can select the options directly and quickly.

The camcorder also features video recording at Full HD resolution of 1920x1080. You can also connect it to an HDTV via an HDMI cable, and easily playback the recorded high-definition videos on the wide screen HDTV.

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 Internet more effortlessly.

ISO sensitivity and color balance can either be adjusted automatically or changed manually. 60X digital zoom helps you to control over the videos and photos you take.

The varied effect options, such as Time Lapse and Slow Motion, make recording more fun.

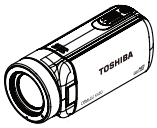
The built-in memory allows you to take photos and to record videos without a memory card. The memory card slot allows users to increase the storage capacity.

Note

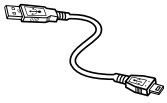
- *Partial memory of the built-in memory is used for the camcorder’s Firmware code.*
- *Install the bundled software application for viewing the videos correctly on a PC.*

Check the Components

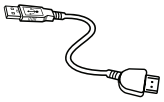
Unpack the package and make sure all standard accessories listed are included:



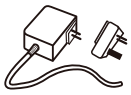
Camcorder



USB Cable



HDMI Cable



AC-Adaptor



Lithium-ion Rechargeable Battery



MAGIX DVD (Video Deluxe Trial Version)



Quick Start Guide



CD-ROM (Software, User’s Manual)



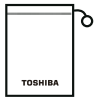
Cleaning Cloth



Wrist strap



Lens Cover Set with Strap



Pouch



Warranty Leaflet

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.

System Requirements

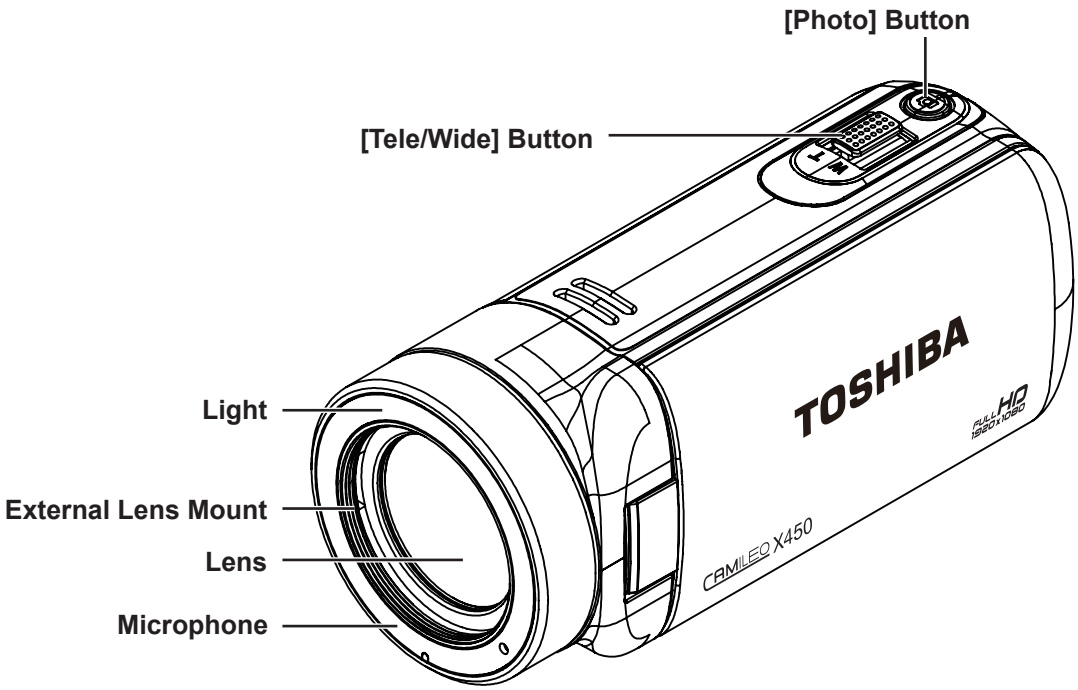
- Microsoft® Windows® XP, Vista®, Windows® 7, Windows 8
- Intel® Core™ 2 Duo CPU or higher
- 1 GB RAM
- CD-ROM Drive
- 1 GB free HDD space
- Available USB port
- 16-bit Color Display



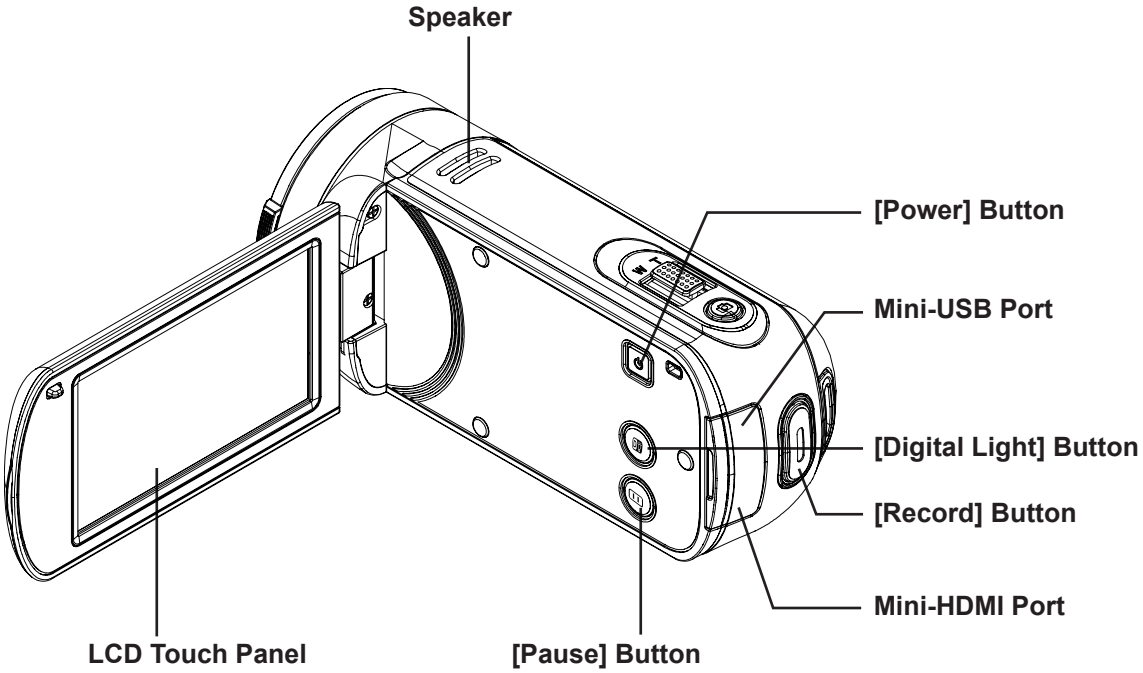
Note

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.

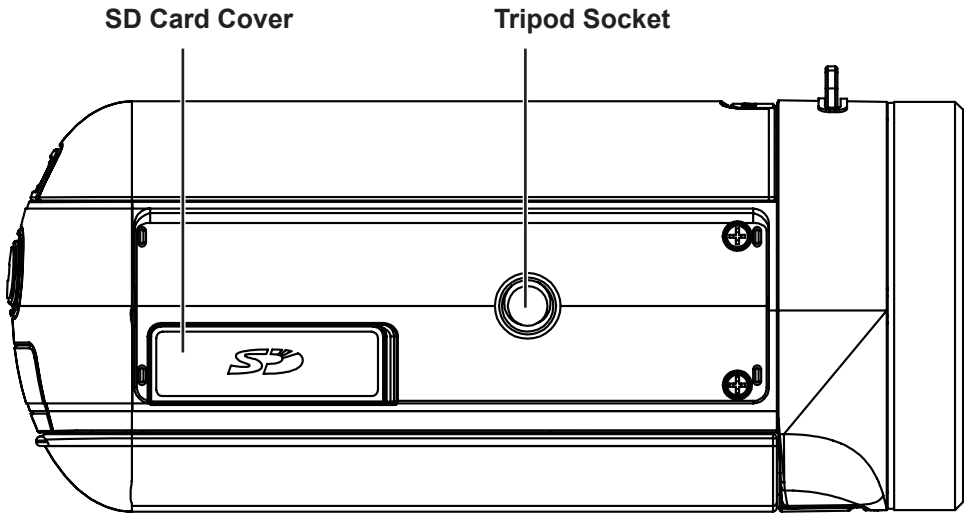
Front View



Side View/Rear View



Bottom View



Section 2
Getting Started

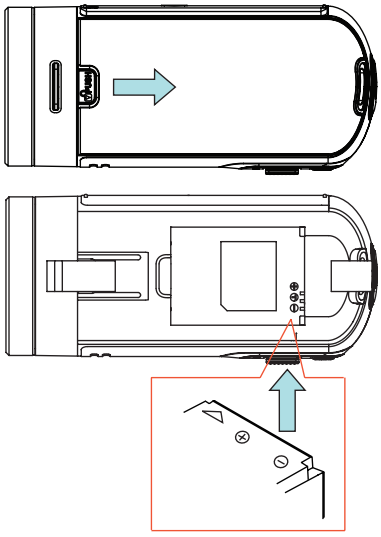
About the battery pack

- 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. Never attempt to charge the battery pack with any other charger.

Loading the Battery

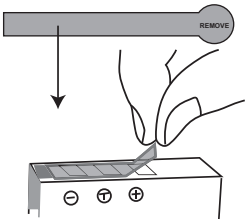
Before using the camcorder, users must load the Lithium-ion rechargeable battery come within the package.

1. Insert the battery according to the correct polarity marks (+ or -).
2. Close the battery cover firmly.



Note

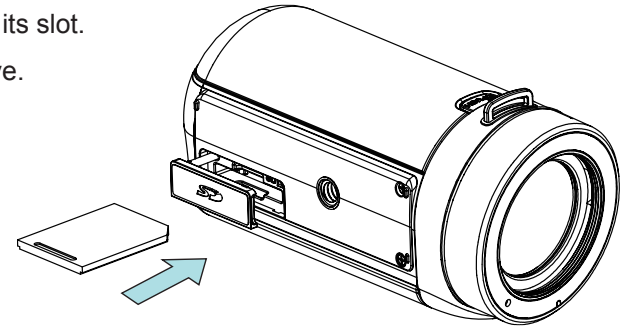
Please take out the battery from the camcorder and remove the insulator on the battery connection before use.



Inserting and Removing an SD Card (Optional)

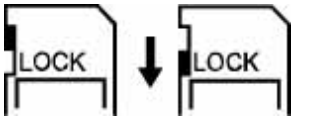
The camcorder comes with an internal memory which allows you to store photos and videos. You can expand the memory capacity by using an optional SD memory card.

1. Insert the memory card into the slot. Please refer to the figure on the right side.
2. To remove an installed SD card, press the card inwards to release it.
3. When the card pops out, gently remove it from its slot.
4. 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.*



Writeable position | Writeable-Protected position

Turning the Camcorder On and Getting Started

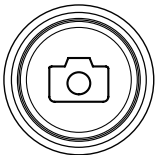
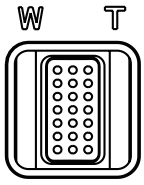
- To turn on the camcorder:
  1. Flip out the LCD panel; the camcorder will turn on automatically.
  2. Or press [Power Button] for one second to turn it on.
- To record video: Touch  (on-screen icon) to switch to the Video Record mode . Press Record Button to record video. To stop recording, press it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

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.

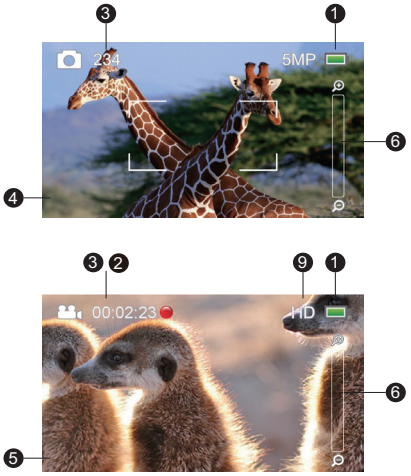
Section 3
Record Mode

Button Function

	**Record Button:** 1. In Video Record Mode, press to take video. To stop recording, press it again.
	**Light Button:** 1. Press to get 3 light mode: Light on / Light off / Digital light sequentially.
	**Pause Button:** 1. Press to pause the recording. To continue , press it again.
	**Photo Button:** 1. Press halfway down to focus, then press fully to take photo. 2. When recording video, press to capture the image.
	**Tele Button:** 1. Zoom In. **Wide Button:** 1. Zoom out.
	**Power Button:** 1. Press down for one second to turn on or turn off the camcorder.

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: more than medium power
		Battery: medium power
		Battery: less than medium power
		Battery: low power
		DC power mode
(2)	00:02:23	Recording time
	00:02:23	Pause recording
(3)	234	The amount of photos that can still be taken at current resolution
	00:02:23	The time of videos that can still be taken at current resolution

(4)		Light mode set
	3MP8MP16MP	Resolution set
		Stabilization on
		Self-Timer on
		Smile Detection on
	AUTO 800 1600 3200 6400	ISO set
		Macro Mode set
		Exposure set
		Scene mode set
		Filter mode set
		White Balance mode set
		Anti-Glare on
(5)		Light mode set
	480P720P1080P	Resolution set
		Motion Detect on
		Face Tracking on
		Slow Motion on
		Pre-Record on
		Time Lapse on
		Macro Mode set
		Exposure set
		Scene mode set
		Filter mode set
		White Balance mode set
		Anti-Glare on
(6)		Zoom meter: 1X ~ 1380X (23X optical zoom and 60x digital zoom) 1X ~ 1800X (30X advanced zoom and 60x digital zoom)

(7)		Self-Timer on/off
(8)		Digital Light On
		Light On
		Light Off
(9)	Video Resolution	
	FHD	Full HD (30fps)
	HD+	HD60 (60fps)
	HD	HD30 (30fps)
	WVGA	WVGA (30 fps)
	Photo Resolution	
	16MP	High-16M
	8MP	Standard-8M
	3MP	Low-3M
(10)	AUTOISO	ISO Auto
	800ISO	ISO 800
	1600ISO	ISO 1600
	3200ISO	ISO 3200
	6400ISO	ISO 6400
(11)		Menu icon
(12)		Playback Mode icon
(13)		Photo Mode icon
(14)		Video Mode icon
(15)		Face Tracking on/off
(16)		Anti-Glare on/off
(17)		Advanced zoom on/off

Note

- *Tap on the screen to close the touchable information layer. Tap again to show it again.*
- *Stabilization,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.*
- *Motion Detect,Time Lapse, Slow Motion, and Pause functions can not be used simultaneously*
- *If one feature is set to ON, the other features will automatically set to OFF by the firmware.*

Video Recording

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

Video Quality	
FHD	**Full HD:** 1920x1080 (30fps)
HD+	**HD60:** 1280x720p (60fps)
HD	**HD30:** 1280x720p (30fps)
WVGA	**WVGA:** 848x480 (30fps)

Photo Recording

- In Photo Record Mode, press [Record Button] to take photo.
- Touch  (on-screen icon) to view the photo.
- Three resolution settings are available:

Image Quality	
High-16 Mega Pixels	4608 x 3456
Standard-8 Mega Pixels	3264 x 2448
Low-3 Mega Pixels	2048 x 1536

Using Zoom Function

The zoom magnifies images when recording videos or taking photos.

1. To zoom in/out, press the Tele/Wide Button. The camcorder will zoom in by optical zoom first. When the optical zoom factor is at maximum, zooming stops temporarily. When you want to zoom in beyond the optical zoom range, hold the Tele button again, the digital zoom will be activated and zooming continues.
2. It can be set from 1X ~ 1380X (23X optical zoom and 60X digital zoom)

Using Advanced Zoom Function

- In addition to the 23X optical zoom range, the advanced sensor transforms the 23X optical zoom into the higher advanced zoom. The advanced zoom obtains a larger zoom range without any deterioration of the video quality. Once the advanced zoom is activated, you can record the farther subjects by zooming in.

  1. When you are going to record video, touch the on screen icon to activate advanced zoom.

Advanced Zoom	Function
	The magnification is approximately 1.33 times and the lens is enhanced to be 30X advanced zoom. When recording video, press the Tele/Wide Button and it can be set from 1X~1380X (23X advanced zoom and 60X Digital zoom) 1X~1800X (30X advanced zoom and 60x digital zoom)

Normal	23X Optical Zoom	Advanced Zoom
		

Note

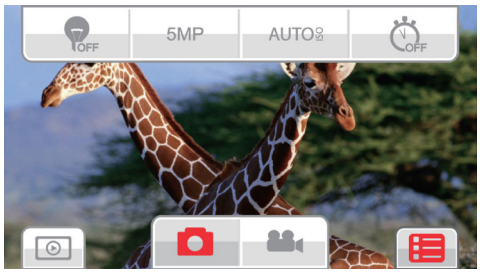
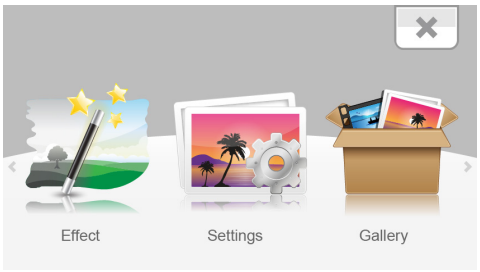
- *The advanced zoom is only available for video recording.*

Options for Menu

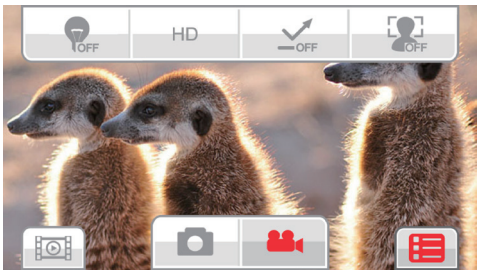
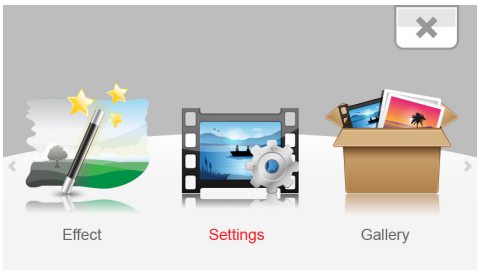
Video Setting	Photo Setting	Effects	Setup*
			
• **Resolution** • **Light** • **Face Tracking** • **Motion Detect** • **Slow Motion** • **Time Lapse** • **Pre-Record** • **Stabilization**	• **Resolution** • **Light** • **Slideshow** • **Smile Detection** • **ISO** • **Self-Timer** • **Date Printing**	• **Macro Mode** • **Exposure** • **Scene** • **Filter** • **White Balance**	• **Sound** • **TV Format** • **Language** • **Date & Time** • **Format** • **Anti-Glare** • **Default Setting**

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

Operations

Operation	Screen
1. Touch  on the screen. The main menu will show on the screen.	
2. The options are Video Settings, Photo Settings, Effects, and Camera Settings. 3. Swipe to get all menu options on the screen. 4. Touch to select the specific option you want to adjust to enter its setting menu. 5. Select required option to validate the setting. 6. Or touch the Exit icon () to exit.	

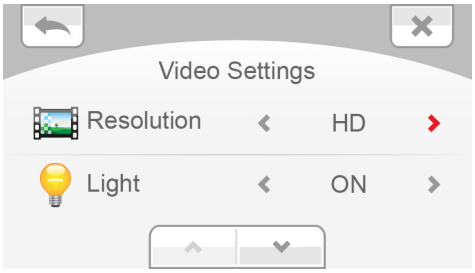
Video Setting

Operation	Display Screen
1. Touch  on the screen. The main menu will show on the screen. 2. Touch the [Video Setting ] icon on the screen to enter its setting menu. 3. The Video Setting menu contains 7 options--Resolution, Light, Face Tracking, Motion Detect, Slow Motion, Time Lapse, Pre-Record--for you to adjust the camcorder settings.	 

Resolution

Four resolution settings are available.

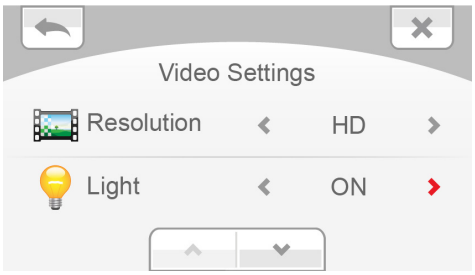
Full HD	Record videos at 1920x1080p 30 resolution.
HD+	Record videos at 1280x720p 60 resolution.
HD	Record videos at 1280x720p 30 resolution.
WVGA	Record videos at 848x480p 30 resolution.

Operation	Display Screen
1. In the Video Setting menu, find the [Resolution] on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit.	

Light

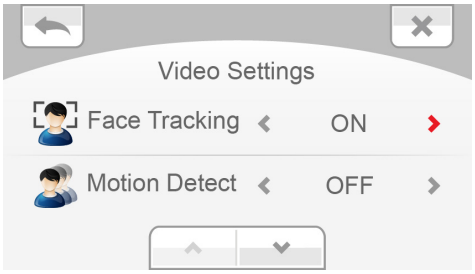
You can select the mode to brighten the area or to extend the brightness of the objects.

ON	The light will be turned on and provides light when recording.
OFF	The light is turned off.
DIGITAL LIGHT	Extend the dynamic range for backlight and high contrast sense, so that the objects will be brighter and clearer.

Operation	Display Screen
1. In the Video Setting menu, find the [Light] on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit. 4. Or press the [Light Button] to get 3 options sequentially.	

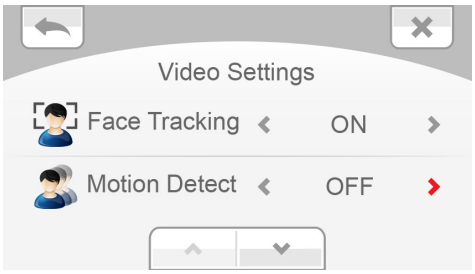
Face Tracking

The camera can detect up to 6 human face (s) and focus on the face (s) automatically.

Operation	Display Screen
1. In the Video Setting menu, find the [Face Tracking]. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

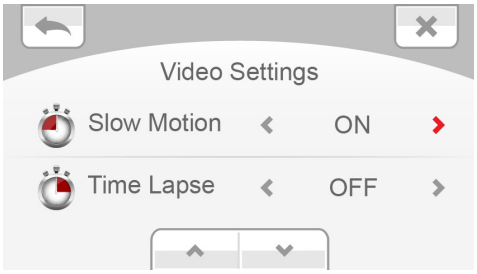
Motion Detection

Record videos automatically when the camcorder detects a movement.

Operation	Display Screen
1. In the Video Setting menu, find the [Motion Detect] on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit. 4. Camcorder will start to record video automatically if it detects a movement. Stop recording if it does not detect a movement.	

Slow Motion

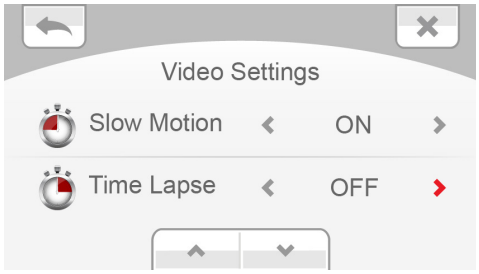
Record videos with slow motion effect. When the video is played, the playback time will be longer than the actual recording time.

Operation	Display Screen
1. In the Video Setting menu, find the [Slow Motion]. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

Time Lapse

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

Off	Disable Time Lapse.
1 Second	Record one frame per second.
3 Seconds	Record one frame every 3 seconds.
5 Seconds	Record one frame every 5 seconds.

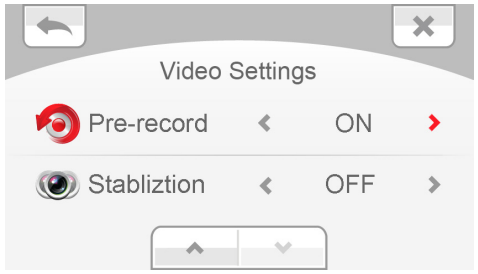
Operation	Display Screen
1. In the Video Setting menu, find the [Time Lapse]. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit.	

Note

Motion Detect, Time Lapse, and Slow Motion functions can not be used simultaneously.

Pre-Record

The Pre-record function ensures that you will not miss any critical recording opportunities. The videos are recorded 1 second more before the [Record Button] is pressed.

Operation	Display Screen
1. In the Video Setting menu, find the [Pre-Record]. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit.	

Note

Be sure to aim the camcorder at the subject and position it securely.

Stabilization

Record with an effect of reducing camcorder shake to result in more stable videos.

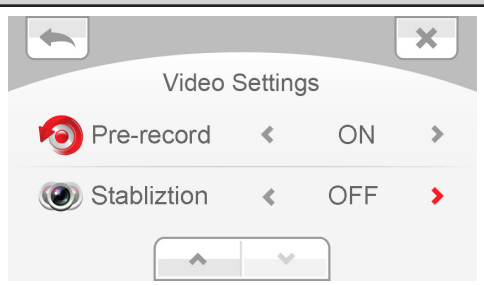
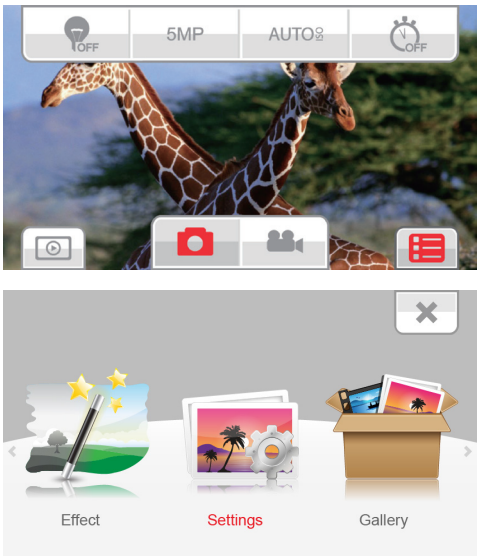
Operation	Display Screen
1. In the Video Setting menu, find the [Stabilization] on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit.	

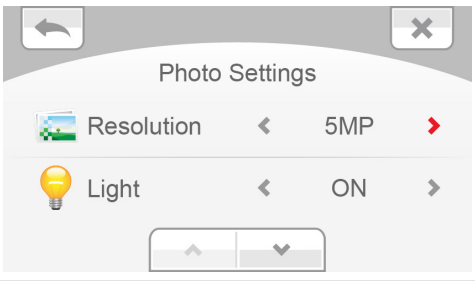
Photo Setting

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [Photo Setting] icon on the screen to enter its setting menu. 3. The Photo Setting menu contains 7 options--Resolution, Light, Slideshow, Smile Detection, ISO, Self-Timer, Date Printing--for you to adjust the camcorder settings.	

Resolution

Three resolution settings are available.

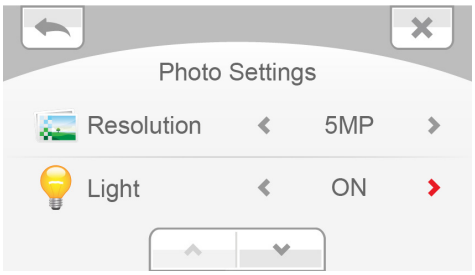
High-16M	Shoot photo at 4608 x 3456, 16 Mega Pixels quality.
Standard-8M	Shoot photo at 3264 x 2448, 8 Mega Pixels quality.
Low-3M	Shoot photo at 2048 x 1536, 3 Mega Pixels quality.

Operation	Display Screen
1. In the Photo Setting menu, find the [Resolution] on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit.	

Light

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

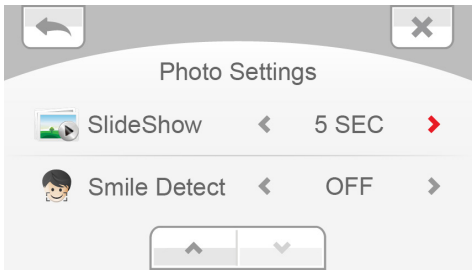
On	The light will be turned on and provides light when recording.
Off	The light is turned off.
Digital Light	Extend the dynamic range for backlight and high contrast sense, so that the objects will be brighter and clearer.

Operation	Display Screen
1. In the Photo Setting menu, find the [Light] on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit. 4. Or press the [Light Button] to get 3 options sequentially.	

Slideshow

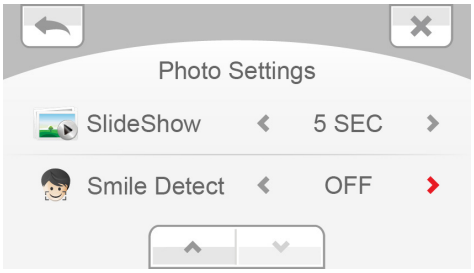
Display photos one after another in turn.

2 Seconds	Display one photo every 2 seconds
5 Seconds	Display one photo every 5 seconds
10 Seconds	Display one photo every 10 seconds

Operation	Display Screen
1. In the Photo Setting menu, find the [Slideshow] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

Smile Detection

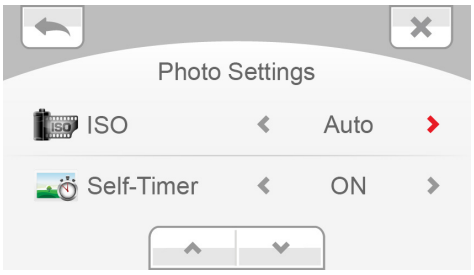
The camcorder capture the photo automatically when it detects a smile.

Operation	Display Screen
1. In the Photo Setting menu, find the [SMILE DETECT] on screen. 2. Touch arrow to select desired option. 3. Or touch the Exit icon to exit. 4. In Record mode, aim the camcorder at the smiling faces. The face frames will appear around the face with smile. 5. The camcorder will focus on the subject, then it will capture the photo automatically.	

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.

AUTO	**Auto**	Set the ISO sensitivity automatically.
800	**800**	ISO 800
1600	**1600**	ISO 1600
3200	**3200**	ISO 3200
6400	**6400**	ISO 6400

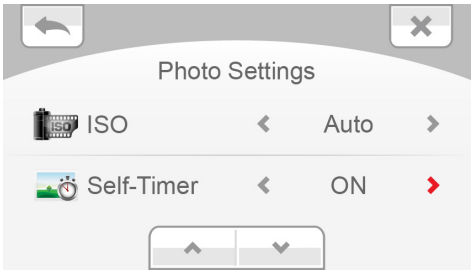
Operation	Display Screen
1. In the Photo Setting menu, find the [ISO] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

Note

The image may become noisy when the ISO number is large.

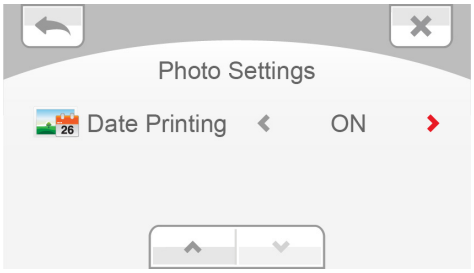
Self-Timer

The self-timer allows you to take photos with a ten-second time delay. The self-timer light on the front of the camcorder will also blink. The speed of blinking will increase just before the photo is taken.

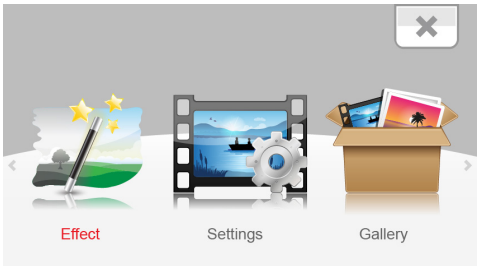
Operation	Display Screen
1. In the Photo Setting menu, find the [Self-Timer] twice on the screen. 2. Touch arrow to select the desired option. 3. Touch the Exit icon ( ) to exit.	

Date Printing

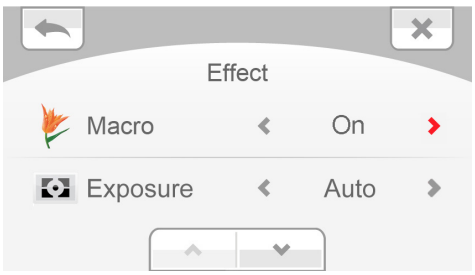
Imprint the date and time on the photo.

Operation	Display Screen
1. In the Photo setting menu, find the [Date Printing] on the screen. 2. Touch arrow to select desired option. 3. Or touch the Exit icon ( ) to exit. 4. As the function is activated, the date will appear on the corner of the photo.	

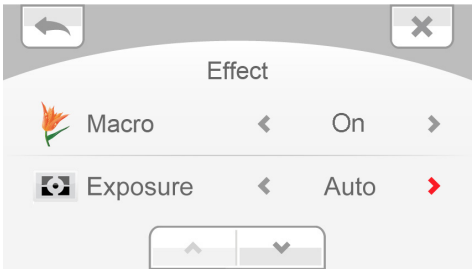
Effects

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [Effects] icon on the screen to enter its setting menu. 3. The Effects menu contains 5 options-- Macro Mode, Exposure, Scene, Filter, and White Balance --for you to adjust the camcorder settings.	

Macro Mode

Operation	Display Screen
1. In the Effects menu, touch the [Macro Mode] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon twice (hold it down) to exit.	

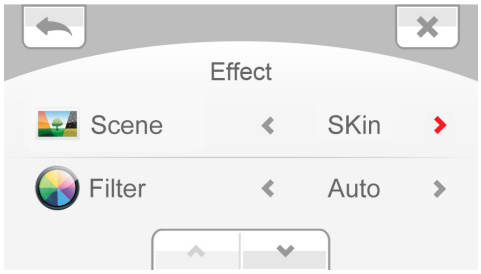
Exposure

Operation	Display Screen
1. In the Effects menu, touch the [Exposure] icon twice. 2. Touch to select the desired option. 3. Touch again to validate the setting. 4. Or touch the RETURN icon twice (hold it down) to exit.	

Scene

You can select the mode according to the scene condition.

Auto	Automatic adjustment
Skin	Shoot with an effect that makes skin tones more natural.
Night	Use Night Mode for night scenes or low light conditions.
Backlight	You can take shots when the bright light is behind the subject.

Operation	Display Screen
1. In the Effects menu, find the [Scene] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

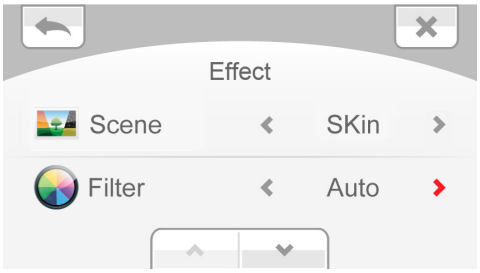
Note

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.

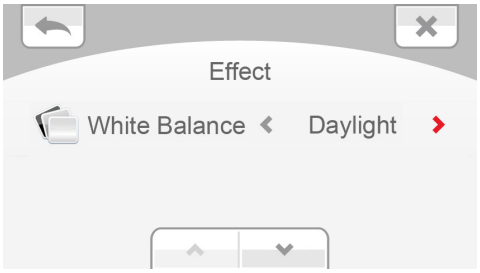
Auto	Shoot without any special effect on the image.
Black & White	The image is converted to black-and-white.
Classic	The image is converted to a sepia look.
Negative	The image is converted as the negative of the normal.

Operation	Display Screen
1. In the Effects menu, find the [Filter] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

White Balance

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

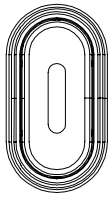
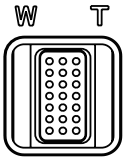
Auto	The camcorder automatically adjusts white balance.
Daylight	Under outdoor condition.
Fluorescent	Under fluorescent light condition.
Tungsten	Under tungsten light condition.

Operation	Display Screen
1. In the Effects menu, find the [White Balance] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

Section 4
Playback Mode

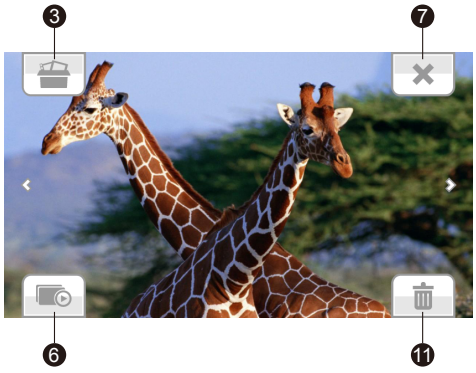
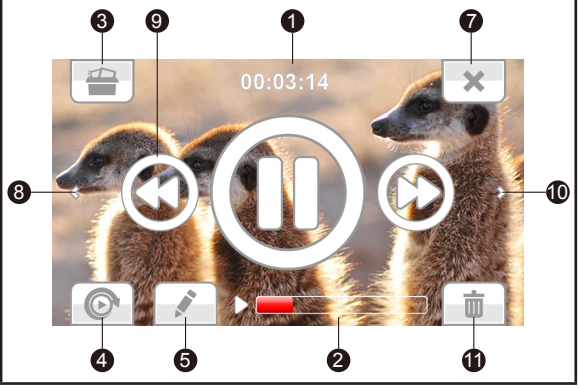
Button Function

The Buttons have the following functions in Playback Mode.

	**Record Button:** 1. Press to start / stop video play 2. Press to stop while playing. 3. Press to go back preview when files are not played.
	**Tele Button:** 1. Volume increase.(video mode) 2. Zoom in (photo mode) **Wide Button:** 1. Volume decrease.(video mode) 2. Zoom out (photo mode)

LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:

Photo on-screen touchable function icon	Video on-screen touchable function icon
	

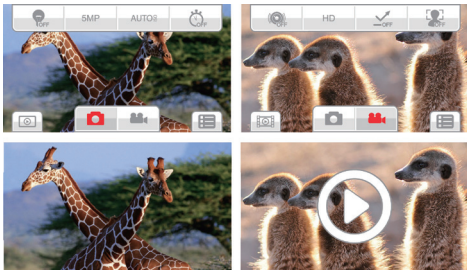
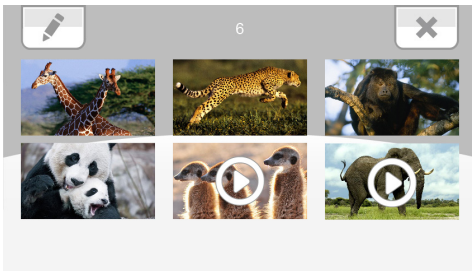
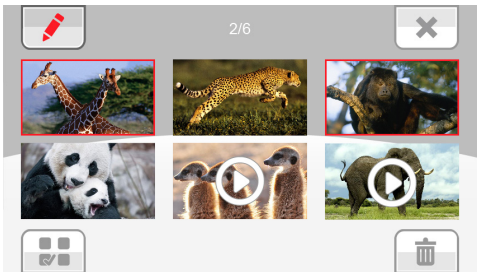
(1)	00:03:14	Length of current video
(2)		Playing time
(3)		Enter to thumbnail screen.
(4)		Indicate the function of continuous play on or off
(5)		Trim the beginnings and ends of the recorded video and save it as a new video clip.
(6)		Indicate the function of slideshow on or off
(7)		Exit
(8)		Go to the previous file.
(9)		Play files
		Pause
		Videos fast forward
		Videos fast rewind.
(10)		Go to the next file.
(11)		Delete the current file.

Note

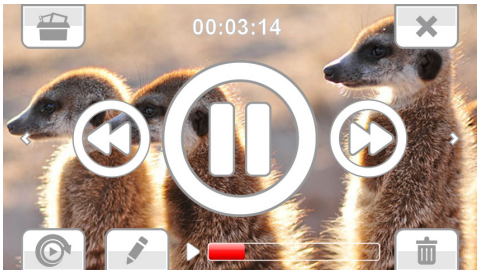
Tap on the screen to close the touchable information layer. Tap again to show it again.

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
1. In Preview, touch  or  to switch to the Playback Mode. 2. Touch  to go to the previous video/photo; Touch  to go to the next video/photo. 3. Touch  to open the menu. (Please refer to selection 3.) 4. Touch  to open the thumbnail screen of videos and photos. 5. In the thumbnail screen of videos and photos, touch  to activate multiple select function. Select the file(s) you want to play or delete. 6. Touch  to play the selected files. (Video: full length. Photo: 2 seconds.) 7. Touch  to delete the selected files. 8. Or touch  to exit.	  

Video Playback

Operation	Display Screen
1. In the Video Playback Mode, touch  /  to play or pause the video. 2. Touch  to go to the previous file; touch  to go to the next file. 3. While playing videos, touch  /  to fast rewind / forward. 4. Touch  to play the all files continuously. Tap screen to stop playing. 5. Use Tele / Wide Buttons to adjust the volume.	

Video Trim

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

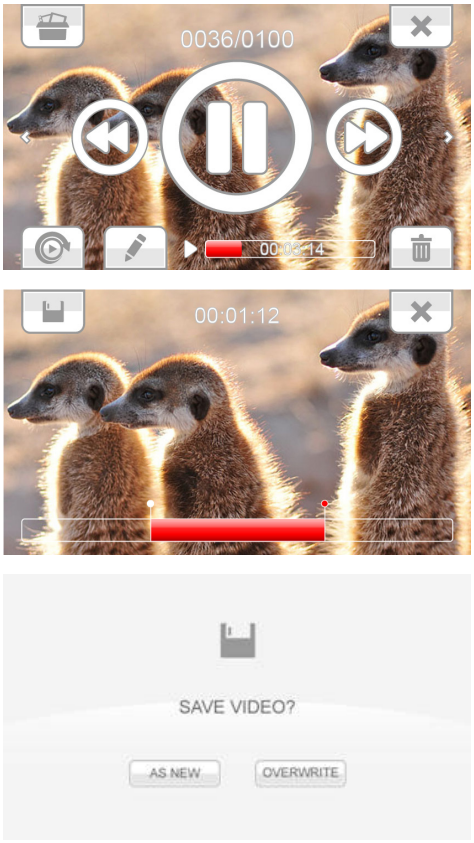
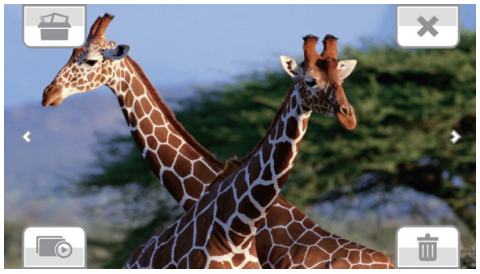
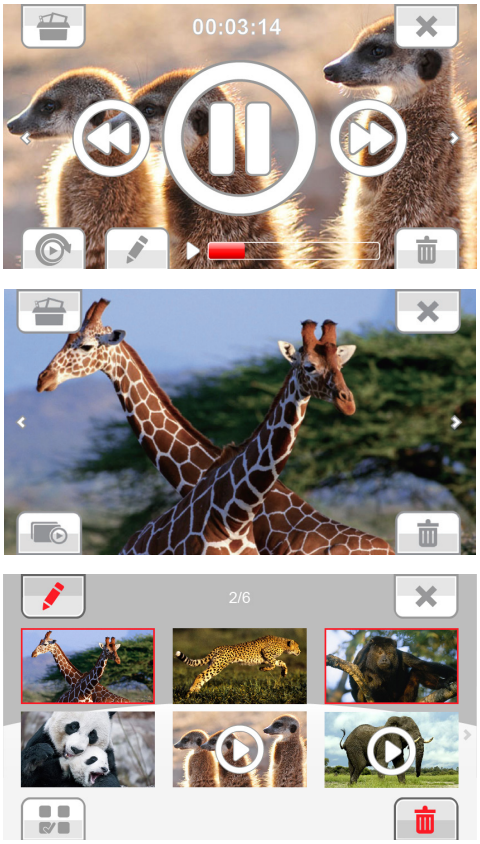
Operation	Display Screen
1. In the video playback screen, touch the edit icon to start to trim the video file. 2. Touch to move the dividing icon on the bar to specify the beginning and end. 3. Touch the save icon to save the red portion. 4. In the confirmation screen, you can select [Over write] or [As New] to save the edited video.	

Photo Playback

Operation	Display Screen
1. In the Photo Playback Mode, touch to go to the previous file; touch to go to the next file. 2. Touch to play the slideshow. 3. Touch / to pause/play the slideshow. 4. Press record button to stop slideshow. 5. Press T/W to zoom in and out. 6. When zoomed in you can use your finger (touch) to shift to different areas of your photo.	

Delete File in Playback Mode

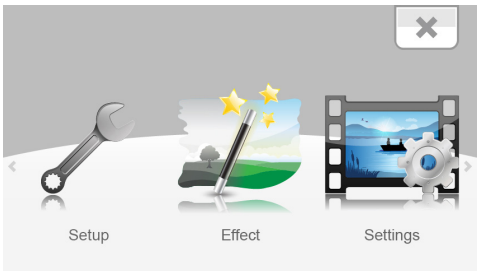
Operation	Display Screen
1. In Playback Mode, touch on the screen. 2. Touch to delete the current photo. 3. Or go to to cancel the operation and exit. 4. Go thumbnail to delete multiple selected files.	

Note

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

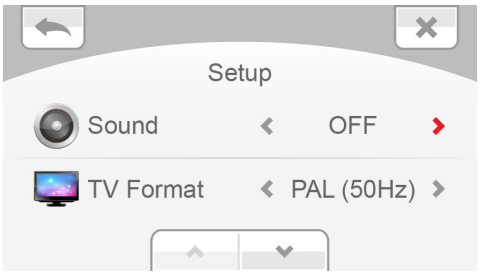
Section 5
Setting Your Camcorder

Setup Menu

Operation	Display Screen
1. Touch on the screen. The main menu will show on the screen. 2. Touch the [Setup] icon on the screen to enter its setting menu. 3. The Setup menu contains 7 options for configuring your camcorder setup. They are Sound (operation sound), TV, Language, Time & Date, Format, Anti-Glare, and Default Setting.	

Sound

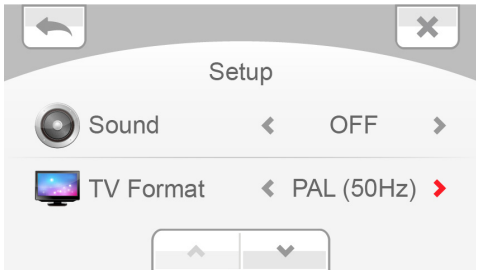
Enable or disable the keypad tone and the operation sound.

Operation	Display Screen
1. In the Setup menu, find the [Sound] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

TV Format

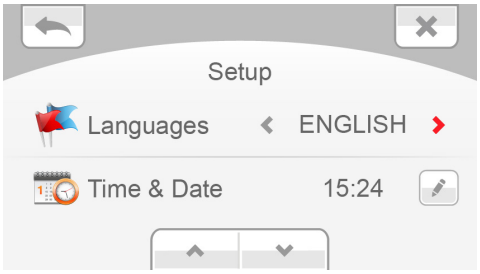
Ensure that the appropriate TV standard of your area is selected – either NTSC or PAL. Wrong TV system setting may cause image flickers.

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

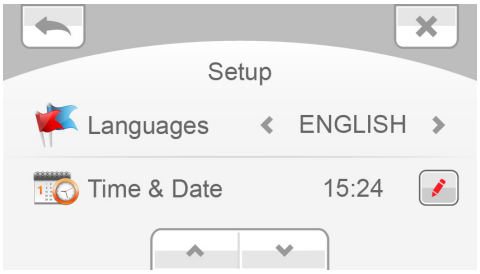
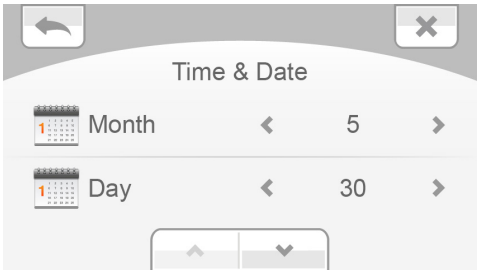
Operation	Display Screen
1. In the Setup menu, find the [TV Format] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

Language

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

Operation	Display Screen
1. In the Setup menu, find the [Language] on the screen. 2. Touch arrow to select the desired option. 3. Or touch the Exit icon ( ) to exit.	

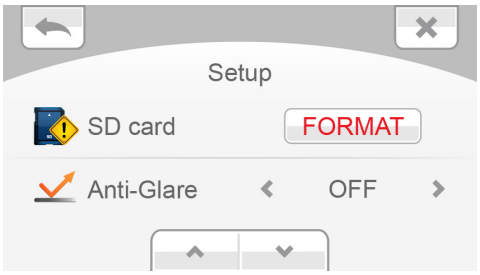
Time & Date

Operation	Display Screen
1. In the Setup menu, Touch edit icon to enter setting. 2. Touch Year, Month, Day, Hour, or Minute to set.. 3. Adjust the numeric value by touching the arrows. 4. Or touch the Exit icon ( ) to exit.	 

Format

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

Yes	Format the built-in memory (When there is no SD card in the camcorder) / SD card (When there is an SD card in the camcorder).
No	Do not format the built-in memory (When there is no SD card in the camcorder) / SD card (When there is an SD card in the camcorder).

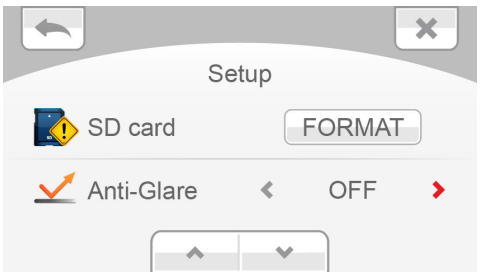
Operation	Display Screen
1. In the Setup menu, find the [Format SD Card] on the screen. 2. Touch FORMAT button to enter confirmation screen. 3. Touch the YES/NO to execute or cancel the operation. 4. Or touch the Exit icon ( ) to exit.	

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.

Anti-Glare

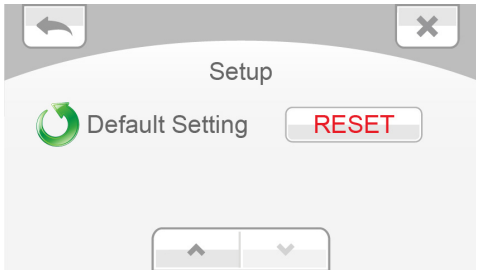
Turn on this function to improve LCD view ability in bright or reflective outdoor conditions. It helps you see the subject on the LCD screen. This feature is only applied to your LCD screen, not your recording so the recording will look as great as the moment you shot it.

Operation	Display Screen
1. In the setup menu, find the [Anti-Glare] on the screen. 2. Touch the arrow to select desired option. 3. Or touch the Exit icon ( ) to exit.	

Default Setting

Use this option to restore the default factory setting.

Yes	Restore default factory setting.
No	Do not restore default factory setting.

Operation	Display Screen
1. In the Setup menu, find the [Default Setting] on the screen and touch [RESET] to enter the confirmation screen. 2. Touch the icon to execute the operation.	

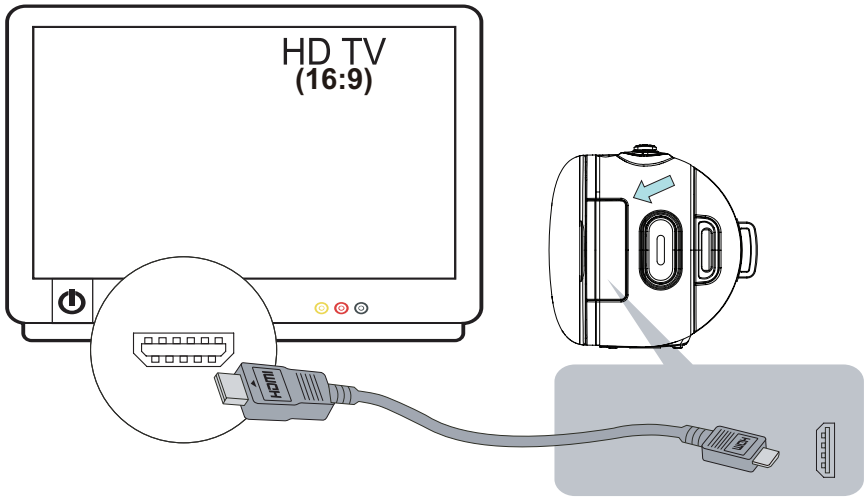
The following table indicates the camcorder's default settings

Setting	Default Factory Setting
Resolution	Full HD for Video Standard- 8M for Photo
Advanced Zoom 30X	Off
Light	Off
Stabilization	On
Motion Detection	Off
Face Tracking	Off
Slow Motion	Off
Pre-Record	Off
Time Lapse	Off
Self-Timer	Off
Smile Detection	Off
ISO	Auto
Slideshow	2 sec
Macro Mode	Off
Exposure	Auto
Scene	Auto
Filter	Auto
White Balance	Auto
Sound	On
TV Format	Depends on shipping area
Language	Depends on shipping area
Anti-Glare	Off
Volume	Level 6

Section 6
Viewing Photos and Videos on TV

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

1. Connect the HDMI cable to your camcorder's mini-HDMI Out port.
2. Connect the other end of the cable to a television.
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

The camcorder can not run menu setting, thumbnail screen, and certain on-screen setting when it is connected to a TV.

Section 7
Viewing Video & Photo 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, burning your video into DVD, 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

- *The detailed Instructions for the bundled software can be found within the program once the installation is completed. Click on [Extras] on the title bar and select [Help] to open the instruction manual.*
- *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 camera 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 camera with the supplied mini USB 2.0 cable. .
2. The videos and photos can be found on your computer at "My Computer\Removable Disk\ DCIM\100MEDIA".(Under the circumstances of within the SD/SDHC card in the camcorder.)
3. Under this folder, you can view, delete, move, or copy any video/photo you want.

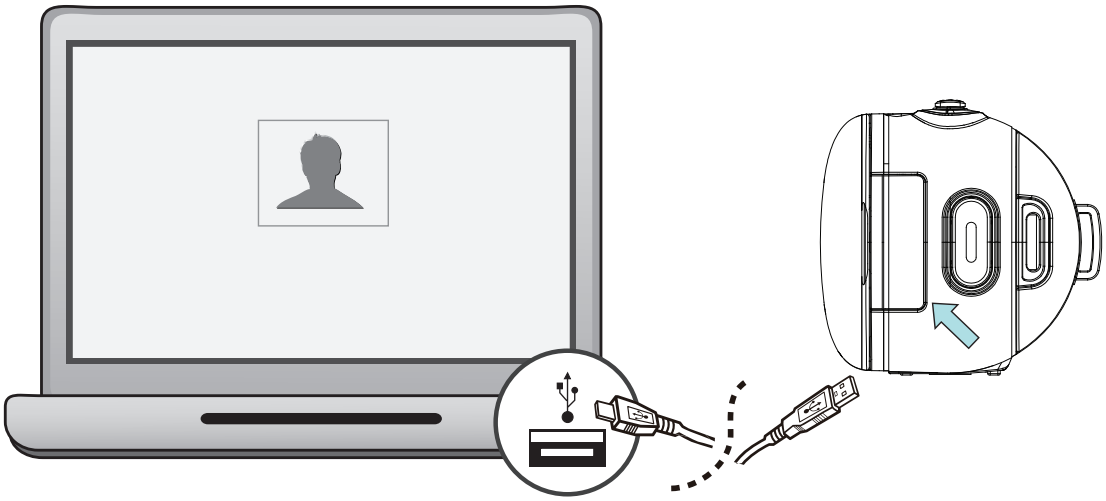
Section 8
Uploading Files to Internet

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.

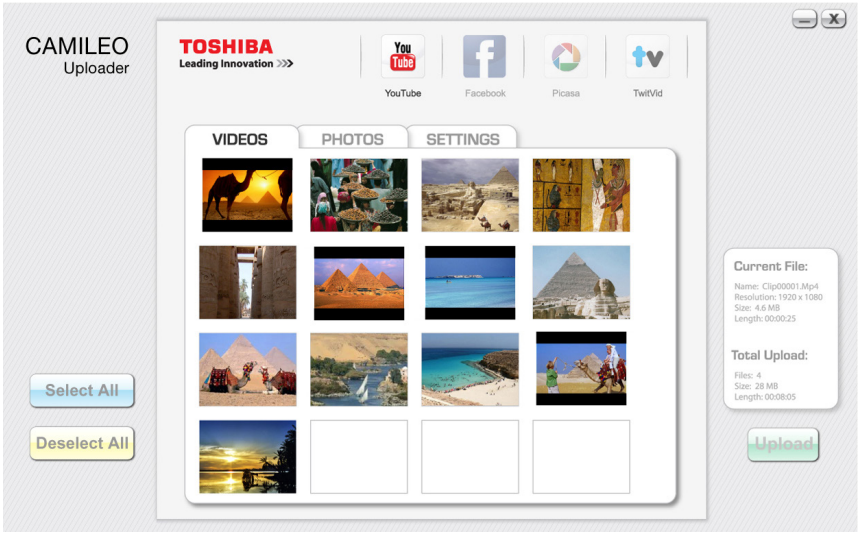
CAMILEO UPLOADER

To upload files to social networking sites:

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



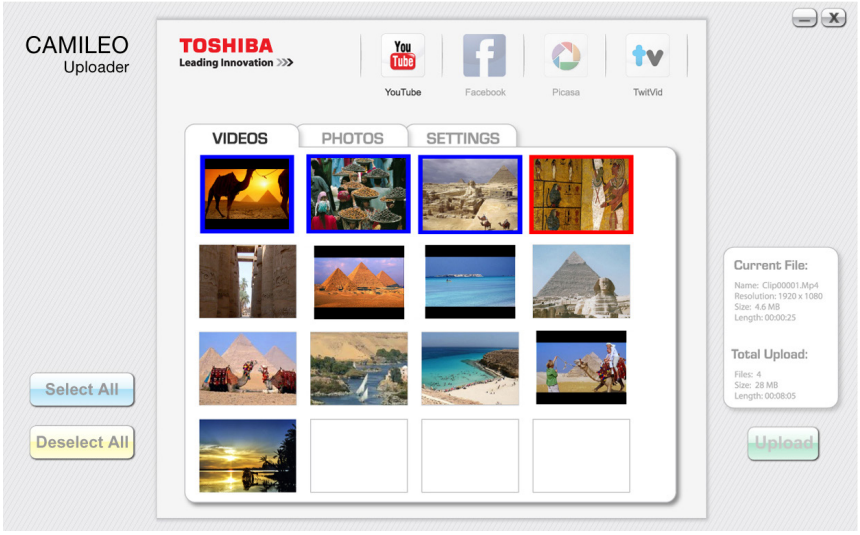
2. After making a USB connection, the AutoPlay window will appear. (It may be different based on OS recognition. If the AutoPlay window does not appear. Please click [My Computer] → [DVAP] → [DVAP. exe] to execute the application.)
3. The main screen appears automatically on the desktop.



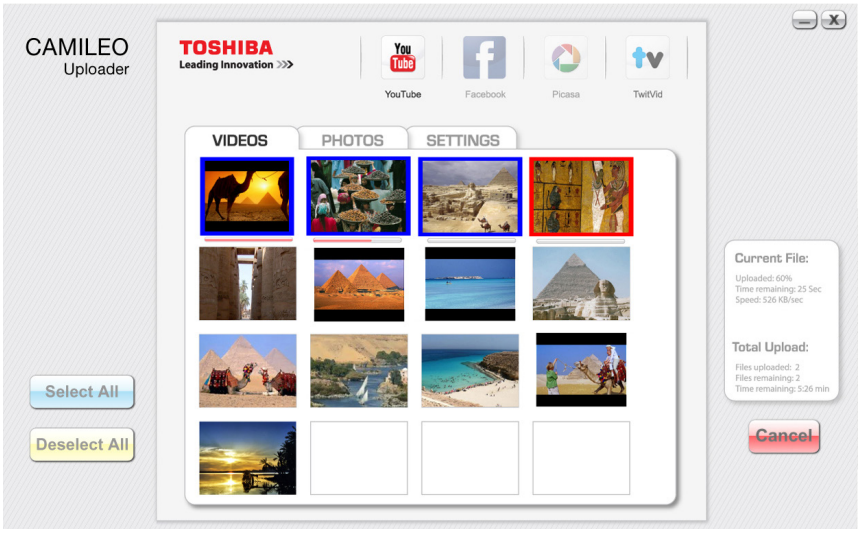
Note

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 Camcorder 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.



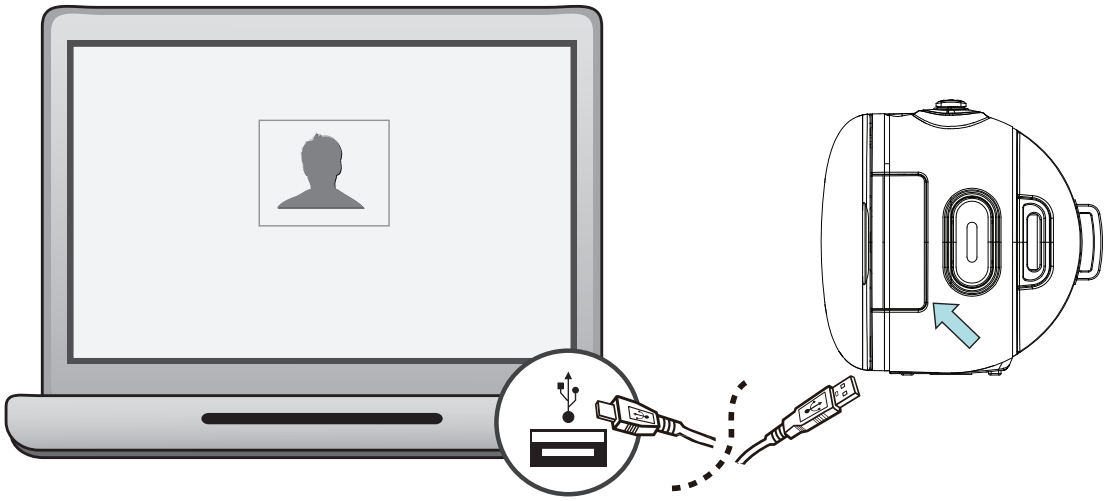
7. Click on [Upload] to start uploading.



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 Camcorder 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
Specifications

Specification

Image sensor	8 Mega pixel CMOS sensor
Operation modes	Video record, Photo record
Lens	23X optical zoom
Focus range	Macro: 1cm (Wide mode only) Normal: Wide - 1cm to infinity Tele - 1m to infinity
Zoom	23X Optical Zoom 30X Advanced Zoom 60X Digital Zoom
Shutter	Electronic
LCD monitor	7.6 cm (3 inches) touch LCD
Storage media	Built-in 128MB memory (partial memory is used for firmware code); SD/SDHC/SDXC card slot support (up to 128GB)
Image resolution	16 Mega Pixels: 4608 x 3456 (Interpolated) 8 Mega Pixels: 3264x2448 3MP Pixels: 2048 x 1536
Video resolution	Full HD: 1920x1080 (30fps) HD+: 1280x720 (60fps) HD: 1280x720 (30fps) WVGA: 848x480 (30fps)
White balance	Auto/Manual (Daylight, Fluorescent, Tungsten)
ISO	Auto, 800, 1600, 3200, 6400
Self-timer	10 seconds delay
Light	Light ON / Light OFF / Digital Light ON
File format	Photo: JPG Video: MP4
Image play	Single image/Slideshow
PC interface	Mini USB 2.0 port
TV out	NTSC/PAL selectable, HDMI
Battery	Lithium-ion rechargeable battery
Dimension	127mm (W) x 52mm (H) x 52mm (T)
Weight	252g with battery

Section 10
Troubleshooting

Troubleshooting

1. If the LCD preview is not clear while shooting, how can the focus be adjusted?

Try to switch between Macro and Normal Mode.

2. The files on the memory card do not display smoothly when the LCD shows the "!" marking.

The "!" means the SD card is low speed or is having wrong content inside. The way to solve this condition is to format SD card by the camcorder instead of a PC (Please refer to the detailed Format instruction in Section 5).

Or please change the SD/SDHC/SDXC card to a high speed one.

3. Why do some of my indoor photos look blurry and dark?

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. The shutter will sound when photos are being taken.

4. How do I charge battery?

Charge the battery

You must use the supplied AC charger or the USB cable. Blinking light confirms charging, and the light becomes constant when the charging has been completed. Then, the light will turn itself off automatically after 3~5 minutes.

Charging time:

- Approximately 3-4 hours using AC charger without camcorder working.
- Approximately 10 hours when using AC charger with camcorder working or USB in mass storage mode.

(Actual charging time may vary. It depends on battery and PC conditions.)

5. After connecting the USB cable to the computer, ……

1. The disk [DV] shows the internal memory of the camcorder.
2. [Removable Disk] shows the external memory. (Under the circumstances of within the SD/ SDHC/SDXC card in the camcorder)
3. 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.

Section 11
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

Please see
computers.toshiba.eu/options-warranty
for the TOSHIBA hotline numbers.

Operating Environment Conditions

Operating temperature: -10 to 40° C

Operating humidity: 20 to 85 %

(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 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



Pb, Hg, Cd

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.

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.

Additional Information

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Leading Innovation

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www.toshiba.eu/camcorders