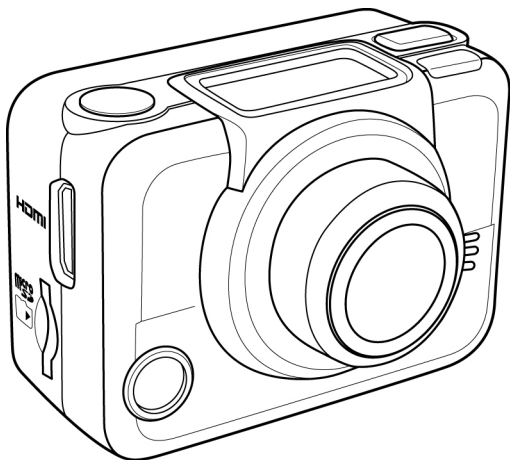


HD Camcorder



User's Manual

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Preface

Congratulations on your purchase of this advanced camcorder. Ensure that you read this manual carefully and keep it in a safe place for future reference.

About this manual

Every effort has been made to ensure that the contents of this manual are correct and up to date. However, no guarantee is made regarding the accuracy of the contents. The manufacturer reserves the right to change the contents, technology, and specifications without notice.

Copyright

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All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, manual or otherwise, without the prior written permission of the manufacturer.

Precautions

General precautions

- Do not store the product in dusty, dirty, or sandy areas, as its components may be damaged.
- Do not store the product in a hot environment. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the product in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may damage the electronic circuits.
- Do not attempt to open the casing or attempt your own repairs. High-voltage internal components create the risk of electric shock when exposed.
- Do not drop or knock the product. Rough handling may damage the internal components.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- Do not open the battery cover while an image is being recorded. Doing so will not only make storage of the current image impossible, it can also corrupt other image data already stored on file.
- If the product or any of its accessories are not working properly, take them to your nearest qualified service center. The personnel there will assist you and if necessary, arrange for the product to be repaired.
- Test for proper operation before using the camcorder.

Operating conditions

- This camcorder is designed for use in temperatures ranging from 0°C to 40°C (32°F to 104°F).
- Do not use or keep the camcorder in the following areas:
 - In areas subject to direct sunlight
 - In areas subject to high humidity or dust
 - Near air conditioners, heaters, or other areas subject to temperature extremes
 - Inside of a closed vehicle, especially one parked in the sun.
 - In areas subject to strong vibration

Power supply

- Use only the type of battery that came with your camera. Using any other type of battery may damage the equipment and invalidate the warranty.
- Do not short the battery terminals. The battery could overheat.
- Do not attempt to split or peel the outer casing.
- Remove the battery if the camera is not going to be used for a long time. If the battery is left unused for more than 3 months, you need to charge the battery before use.

Notes on Waterproof Case

Waterproof Case performance

- The waterproof case performance is equivalent to IPX8 (60m/1hr).
- Underwater time limit: Do not use the waterproof case underwater for more than 60 minutes and 60 meters to ensure water resistance.
- The waterproof case is not dust-proof.
- The camera and other accessories are not waterproof unless enclosed by the waterproof case.
- When using the camcorder in cold or humid environments or when going underwater, use the anti-fog insert to prevent fogging. The anti-fog insert only provides a certain degree of prevention, results vary depending on the actual environment. The anti-fog insert is not for long-term use, it must be replaced regularly.

Notes before going underwater:

(Do the following actions indoors. Do not do these actions on sandy or dusty environment or near the water's edge.)

- Check if the area surrounding the waterproof case lock is clean, do not allow dirt or sand or foreign objects around it.
- Ensure that the waterproof case is closed.
- Ensure that the waterproof case has no cracks or scratches. If the waterproof case has been dropped, contact your dealer for a replacement.

Notes for general use:

- Avoid opening or closing the waterproof case near the water's edge (sea, lake, beach, lake, etc.). Do not open or close the waterproof case lock with wet hands, or hands with sand or dust.
- The accessories (batteries, etc.) used with the camcorder are not water resistant, be careful in using them.
- Do not drop the waterproof case to ensure waterproof durability.
- Do not place the waterproof case in temperatures above 40°C or below 0°C to ensure waterproof durability.
- Do not attempt to make alterations on the waterproof case or seal the vents yourself, doing so may damage its ability to maintain the camera waterproof.

When using the camcorder

- The waterproof properties of the waterproof case apply to fresh water and saltwater only; they do not apply to cleaning substances, chemicals, or water from spas, etc. Any such liquids should be wiped off immediately.
- Do not immerse the waterproof case in water at a depth greater than 60 meters.
- Do not subject the waterproof case to highly pressurized water.
- Do not immerse in water for longer than 60 minutes. After 60 minutes of use in water, allow the waterproof case to dry for at least 10 minutes.
- Do not immerse in water warmer than 40°C (104°F).
- Do not open or close the waterproof case lock with wet hands.
- Do not open the waterproof case lock next to water or a pool.
- The waterproof case is not dust-proof.

- Do not bump or knock the waterproof case underwater, otherwise the lock may open.

Notes on waterproof case maintenance

- The waterproof of sealing material is replaceable for a fee. The material should be replaced once a year to maintain its water resistance.

After using the waterproof case

- Be sure to come ashore within 60 minutes after going underwater, this will maintain the appearance, quality and water resistance of the waterproof case.
- After taking pictures underwater, clean the waterproof case with running tap water. Do not use any soapy water, mild detergents, alcohol or similar liquids to clean the case.
- Wipe off water drops on the waterproof case with a soft lint-free cloth (avoid fiber). Be sure to wait until the waterproof case is completely dry before opening the waterproof case lock.
- After removing the camcorder from the waterproof case, soak the waterproof case in a bucket of clean water for about 10 minutes. After 10 minutes, wipe the waterproof case dry with a lint-free cloth. Place the waterproof case in a well ventilated cool place to dry naturally (do not place under direct sunlight).

Other notes

- If water accidentally enters the camcorder or any problem occurs when it is in water, please get it out of the water immediately and take proper actions. Dry the camcorder and send it for repair, if required.
 - Information is subject to change without notice. Refer to the important notes in the manual supplied with the camcorder.
-

Before You Start

Take some test shots before you use your camcorder.

Before taking pictures with this camcorder, test the camcorder beforehand to ensure that it functions properly. Any additional loss caused by the malfunction of this product (such as costs of photography or any loss of benefit generated by the photography) is not the responsibility of the manufacturer and no compensation will be given for it.

Copyright information

Take care to observe "No Photography" notices in certain locations. In these cases, you cannot record any live performance, improvisation or exhibits, even for personal purposes. Any transfer of pictures or memory card data must be conducted under the constraints of copyright law.

1 Introducing the Camcorder

Read this section to learn about the features and functions of the camcorder. This chapter also covers system requirements, package contents, and descriptions of the hardware components.

1.1 System Requirements

The camcorder requires a PC with the following specifications for full HD 1080p 30fps and 720p 60fps playback:

- Windows® 8 / Windows® 7 / Vista / XP (SP2) / MAC OS X 10.5 or later
- Intel® / AMD Dual-Core CPU or higher
- At least 1 GB of RAM or higher
- At least DirectX 9 video card, DirectX 10 is recommended
- Standard USB 1.1 port or higher
- At least 2GB or greater available hard disk space

● **Note:**

A USB 1.1 port will enable you to transfer files to and from your host PC, but transfer speeds will be faster with a USB 2.0 port.

1.2 Features





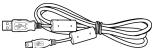
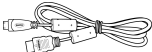

The camcorder offers a variety of features and functions including:

- Full HD 1080p (30fps.)
- H.264 Video Clip
- 170° Wide Angle Lens
- WLAN 802.11 b/g/n
- Up to 5 Megapixel Photos
- Sports Camera functionality
- Li-ion Rechargeable Battery

- External Waterproof Case/Standard Mounts/Wrist Remote
- Smartphone App Supported

1.3 Unpacking the Camcorder

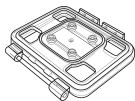
The following items should be present in the package. If any item is missing or appears damaged, contact your dealer immediately.

 <p>Camcorder</p>	 <p>Li-ion Battery</p>	 <p>User Manual</p>
 <p>CD-ROM</p>	 <p>Micro USB Cable</p>	 <p>HDMI Cable</p>
 <p>AC Adapter</p>		

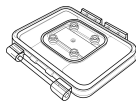
Standard Accessories



Waterproof Case



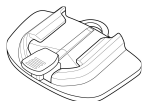
Vented Housing Backdoor



Waterproof Housing Backdoor



T Tip Adapter



Flat Adhesive Socket



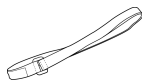
Curved Adhesive Socket



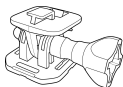
Lens Cap



Secure Tether



Velcro Strap





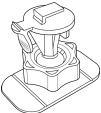





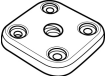



Swivel T Tip



Anti-fog Inserts

Optional Accessories

		
Diving Case	Chest Mount	Adhesive Anchor
		
Bike Mount	Adhesive Ball Head T Tip	Ball Head T Tip with Suction Cup
		
Swivel Camera Tip with Suction Cup	Vented Head Mount	T Tip Mount (compatible with GoPro mounts)
		
Camera Holder	Standard Tripod Adapter	RF Wrist Strap Remote Control



Telescope Mount
(Camouflaged
Sticker included)



Rail Mount
(Camouflaged
Sticker included)

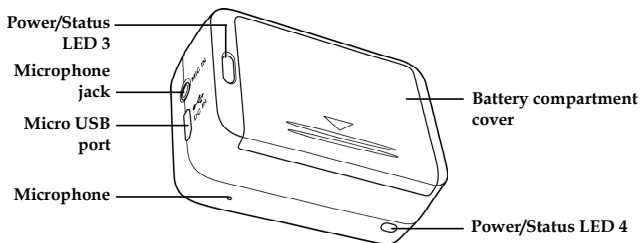
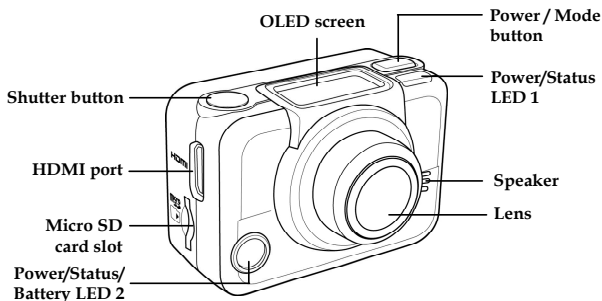


Floaty Cake and
Velcro Strap

1.4 About the Camcorder

Refer to the following illustrations to familiarize yourself with the buttons and controls of this camcorder.

1.4.1 Camcorder Views



1.4.2 Button Functions

Power / Mode Button	<ul style="list-style-type: none">• Press and hold for 3 seconds to turn the camcorder on or off.• Press to switch to different modes: Video, Photo, WiFi, Burst, Time Lapse, Self-timer, and Set mode.• In Set mode, press to scroll through menu items.
Shutter Button	<ul style="list-style-type: none">• In Video mode, press to start/stop video recording.• In Photo mode, press to take a photo.• In Set mode, press to select an item.

1.4.3 LED Indicators

The camcorder has four LED indicators.

The Power/Status LEDs are located on top, on the bottom, and on the back of the camcorder. These LEDs are designed for users to see the status of the camcorder whichever way the camcorder is held or mounted.

LED	Color	Description
Power / Status LED	Green	Power is on
	Green Blinking	Taking photos
	Red Blinking	Video recording in progress / RF remote control in progress
	Red Blinking Rapidly	Self-timer
Battery LED	Red Blinking	Battery is charging
	Off	Full charge

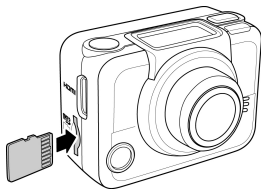
2 Getting Started

Read this section to learn how to start using the camcorder. This section covers basic functions such as switching on, installing the battery and micro SD card, and configuring preliminary settings. See later chapters for advanced functions.

2.1 Installing the Micro SD Card

A micro SD card is required to capture photos and videos. The camcorder supports micro SDHC cards up to 32GB.

1. Insert the micro SD card into the card slot with the gold contacts facing the front of the device.



2. Push the micro SD card until it clicks into place.

- **Warning:** Do not remove the micro SD card while data is being recorded. Doing so may corrupt the saved data and damage the card.

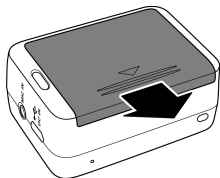
2.1.1 Removing the Micro SD card

1. Turn off the camcorder.
2. With a fingertip, push the micro SD card to eject it from the slot.
3. Remove the micro SD card.

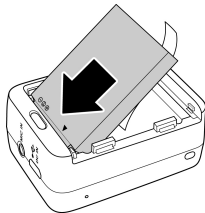
2.2 Installing the Battery

- **Warning:** Use only the supplied battery or a similar battery recommended by the manufacturer or the dealer.

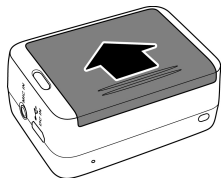
1. Push down the battery compartment cover to open it.



2. Align the battery contacts and then insert the battery into the compartment with the ribbon underneath the battery.



3. Close the battery compartment cover.



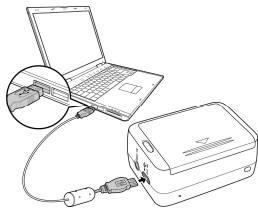
2.2.1 Removing the battery

1. Open the battery compartment cover.
2. Pull the ribbon to remove the battery.

2.3 Charging the Battery

You can charge the battery using the micro USB cable that came with the camcorder. Follow the steps below to charge the battery.

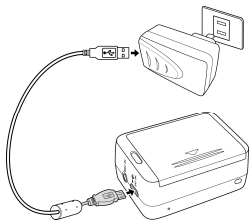
1. Install the battery into the battery compartment.
2. Plug the micro-USB connector to the USB port of your device.
3. Plug the other end of the USB cable to a computer.



The battery LED blinks red. After a full charge, the LED turns off.

Approximate charging time is 240 minutes with a USB connection. Actual charging time depends on current battery capacity and charging conditions.

You may also use the supplied AC adapter to charge your camera battery.



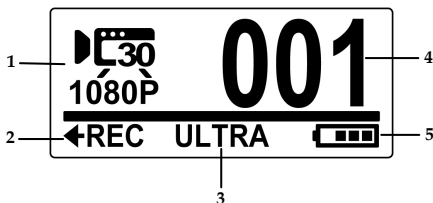
2.4 Turning ON/ OFF the Camcorder




- To turn on the camcorder, press the **Power** button. The Power/Status LED indicator lights green for 3 seconds.
- To turn off the camcorder, press and hold the **Power** button for 3 seconds.











2.5 OLED Screen

When the camcorder is turned on, the OLED screen displays the following information:



	Current Mode	Displays the current mode of the camcorder.
1	 Video Mode	Use this mode to record videos. The icon also indicates the current video recording settings.
	 Photo Mode	Use this mode to capture photos. The icon also indicates the current capture settings.
	 WiFi Mode	Select to connect the camcorder to a smartphone using WiFi connection. With this feature, videos and photos recorded from the camcorder can be viewed on the smartphone.

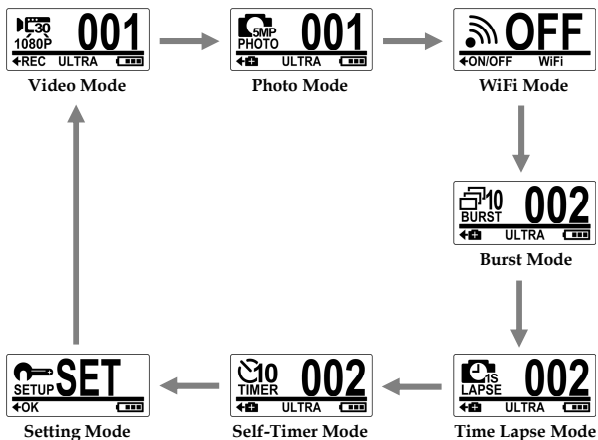
1	 Burst Mode	Use this mode to capture 10 continuous photos with one press of the Shutter button. The icon also indicates the current capture settings.
	 Time Lapse Mode	In this mode, photos are continuously captured with a specific interval time when the Shutter button is pressed. To stop capturing, press the Shutter button again. The icon also indicates the current capture settings.
	 Self-timer Mode	In this mode, photos are taken 10 seconds after pressing the Shutter button. The icon also indicates the current capture settings.
	 Set Mode	Use this mode to adjust the settings of your camcorder.
2	Button Function	Indicates the operation that the camcorder will do when the Shutter button is pressed. The displayed icon varies depending on the mode.
	 Record	Press the Shutter button to record videos.
	 Capture	Press the Shutter button to capture photos.
3	Field of View (FOV)	Indicates the field of view of the camera lens: Wide or Ultra.
		Indicates the remaining memory space left in the memory card.

4	Number of Files	Indicates the total number of videos and photos saved in the micro SD card.
5	 Battery	Indicates the battery capacity.

- **Note:** The item 3 icon shown on the display will be automatically switched every three seconds.

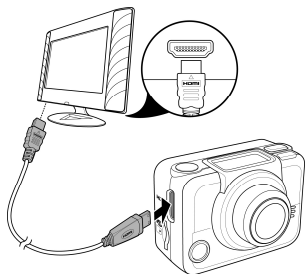
2.6 Changing Modes

Press the **Mode** button repeatedly to switch modes.



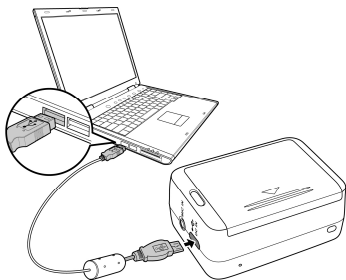
2.7 Connecting to TV (HDMI Cable)

You can also connect the camcorder to a TV using the HDMI cable (optional).



2.8 Connecting to PC (Micro USB Cable)

Connect the camcorder to a computer with the micro USB cable provided as shown.



3 Capturing Videos and Photos

3.1 Recording Videos

Your camcorder supports Dual Stream recording. When a video is recorded, two video files of different file size are automatically saved in the memory card. The smaller file is used to view videos using a smartphone.

1. Turn on the camcorder. By default, the camcorder automatically opens to **Video** mode.



2. Press the **Shutter** button to start recording.
3. Press the **Shutter** button to stop recording.

3.2 Taking Photos

1. Turn on the camcorder.
2. Press the **Mode** button to switch to **Photo** mode.



3. Press the **Shutter** button to capture a photo.

3.2.1 WiFi

This menu allows you to connect your camcorder to a smartphone using WiFi connection and view the videos and photos recorded from your camcorder on the smartphone.

- **Note:** Before using this feature, download the **ActionCam!** app from AppStore (iOS) or Google Play (Android OS) on your smartphone.

1. Press the **Mode** button repeatedly to switch to **WiFi** mode.
2. Press the **Shutter** button to toggle WiFi **ON** or **OFF**.
3. Press the **Mode** button to exit the WiFi screen.
4. Wait for 30 seconds until the LED flashes to indicate Wi-Fi connection is established.
5. On your smartphone, enable Wi-Fi connection, then search and connect to the Wi-Fi network **IRONX**.
6. When prompted for a password, enter the default password "1234567890".
7. Use the **ActionCam!** app to view videos and photos from your camcorder.



3.2.2 Burst Shooting

This feature allows you to capture 10 photos with one press of the **Shutter** button.

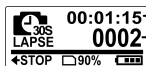
1. Press the **Mode** button repeatedly to switch to **Burst** mode.
2. Press the **Shutter** button to start capturing photos.



3.2.3 Time Lapse Shooting

This feature allows you to continuously capture photos with one press of the **Shutter** button at the preset interval time (1/3/5/10/30/60 seconds). Shooting only stops when the **Shutter** button is pressed again. Those continuous shots are combined and saved into one video automatically. The recorded video is played back in fast motion (faster than the normal playback speed). You can use this feature to record videos such as evolution of a construction project, weather changes, or flower blossom.

1. Press the **Mode** button repeatedly to switch to **Time Lapse** mode.
2. Press the **Shutter** button to start capturing photos.



Recording time

Number of recorded frames

3. Press the **Shutter** button again to stop capturing photos.

3.2.4 Self-Timer

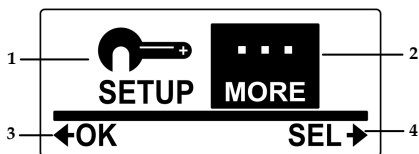
This feature allows you to capture a photo after a 10-second delay.







1. Press the **Mode** button repeatedly to switch to **Self-timer** mode.
2. Press the **Shutter** button. The photo is captured after 10 seconds.










4 Adjusting the Settings

To adjust the camcorder settings, press the **Mode** button repeatedly to switch to **Set** mode and then press the **Shutter** button to confirm. The screen below is displayed:



	SETUP Menu	Select SETUP to adjust capture settings.
	 Video	Select to adjust the video resolution.
	 FOV	Select to adjust the field of view of the camera.
1	 Time Lapse	Select to adjust the interval time between capturing photos in Time Lapse mode.
	 Up/Down	Select to set the camcorder direction upside down. This feature is useful when using the camcorder as a vehicle recorder.
	 Delete	Select to delete captured videos or photos from the micro SD card.
	 Exit	Select to close the SETUP menu and return to the previous menu screen.

	MORE Menu	Select MORE to adjust basic camera settings.
	 Up/Down	Select to set the direction of the OSD screen display.
	LED LED	Select to turn the LED on or off.
	 Bright	Select to adjust the screen brightness.
	 Beep	Select to adjust the beep volume.
2	 Auto-Off	Select to set the time for the camcorder to automatically turn off when not in use.
	 Time	Select to set the camcorder date and time.
	RF RF	Select to pair with the RF remote control.
	 Default	Select to set the camcorder to default factory settings.
	 Exit	Select to close the MORE menu and return to the previous menu screen.
3	←OK Confirm	Press the Shutter button to confirm a highlighted item.
4	SEL→ Select	Press the Mode button to scroll and highlight menu items.

4.1 Video Resolution

Your camcorder supports Dual Stream recording. When a video is recorded, two video files of different file size are automatically saved in the memory card. The smaller file is used to view videos using a smartphone. The camcorder captures photos with a fixed resolution of 5M and supports three resolution options for videos.

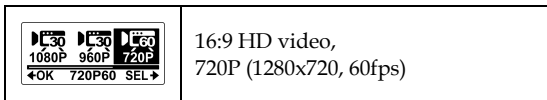
Do the following to select the video resolution.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Mode** button to highlight **SETUP**.
4. Press the **Shutter** button to enter the **SETUP** menu.
5. Press the **Shutter** button to enter the **VIDEO** submenu.



6. Press the **Mode** button repeatedly to scroll through the resolution options.

<p>The LCD screen shows three resolution options: 1080P, 960P, and 720P. The 1080P option is highlighted. Below the options are 'OK' and 'SEL' buttons.</p>	16:9 Full HD Video, 1080P (1920x1080, 30fps)
<p>The LCD screen shows three resolution options: 1080P, 960P, and 720P. The 960P option is highlighted. Below the options are 'OK' and 'SEL' buttons.</p>	4:3 Widest HD Video, 960P (1280x960, 30fps)



- Press the **Shutter** button to confirm.
- To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
- Press the **Shutter** button to exit **SET** mode.



4.2 Field of View (FOV)



This menu allows you to select the view angle of the camcorder lens.

Do the following to select the FOV.

- Press the **Mode** button repeatedly to change to **SET** mode.
- Press the **Shutter** button to enter **SET** mode.
- Press the **Mode** button to highlight **SETUP**.
- Press the **Shutter** button to enter the **SETUP** menu.
- Press the **Mode** button to highlight **FOV**.
- Press the **Shutter** button to enter the **FOV** submenu.



7. Press the **Mode** button to select **ULTRA** or **WIDE**.

	Ultra wide angle lens
	Wide angle lens

8. Press the **Shutter** button to confirm.
9. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
10. Press the **Shutter** button to exit **SET** mode.



- **Note:** Ultra and Wide are only available in Photo mode. The FOV for Video mode is always Ultra.

4.3 Shooting Interval

This menu allows you to select the interval options when capturing photos using Lapse mode.

Do the following to select the shooting interval.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Mode** button to highlight **SETUP**.

4. Press the **Shutter** button to enter the **SETUP** menu.
5. Press the **Mode** button to highlight **LAPSE**.
6. Press the **Shutter** button to enter the **LAPSE** submenu.



7. Press the **Mode** button repeatedly to scroll through the shooting interval options: **1 SEC**, **3 SEC**, **5 SEC**, **10 SEC**, **30 SEC**, and **60 SEC**.



8. Press the **Shutter** button to confirm.
9. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.



10. Press the **Shutter** button to exit **SET** mode.

4.4 Up/Down

This menu allows you to capture videos and photos upside down. You can enable this feature when you mount the camera upside down so that the captured shots appear right side up when you review it on your computer or TV.

Do the following to enable this feature.

1. Press the **Mode** button repeatedly to change to **SET** mode.

2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Mode** button to highlight **SETUP**.
4. Press the **Shutter** button to enter the **SETUP** menu.
5. Press the **Mode** button to highlight **UP/DOWN**.
6. Press the **Shutter** button to enter the **UP/DOWN** submenu.



7. Press the **Mode** button to select **ON** or **OFF**.



8. Press the **Shutter** button to confirm.
9. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
10. Press the **Shutter** button to exit **SET** mode.



4.5 Delete




This menu allows you to delete all files in the Micro SD card. Do the following to delete all files.

1. Press the **Mode** button repeatedly to change to **SET** mode.

2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Mode** button to highlight **SETUP**.
4. Press the **Shutter** button to enter the **SETUP** menu.
5. Press the **Mode** button repeatedly to highlight **DELETE**.
6. Press the **Shutter** button to enter the **DELETE** submenu.



10. Press the **Mode** button repeatedly to scroll through the delete options.

	To delete the last captured video or photo.
	To delete all files in the micro SD card.
	To format the micro SD card.

7. Press the **Shutter** button to confirm.
8. Press the **Mode** button to select to confirm deletion.



9. Press the **Shutter** button to confirm.

10. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.



11. Press the **Shutter** button to exit **SET** mode.

4.6 OSD Up/Down

This menu allows you to display the OLED screen upside down. Do the following to enable this feature.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Shutter** button to enter the **UP/DOWN** submenu.



5. Press the **Mode** button to select **OSD UP** or **OSD DOWN**.



6. Press the **Shutter** button to confirm.
7. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
8. Press the **Shutter** button to exit **SET** mode.



4.7 LED

This menu allows you to turn the LED on or off.

Do the following to turn the LED on or off.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button to highlight **LED**.
5. Press the **Shutter** button to enter the **LED** submenu.



6. Press the **Mode** button to select **ON** or **OFF**.



7. Press the **Shutter** button to confirm.
8. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.



9. Press the **Shutter** button to exit **SET** mode.

4.8 Brightness

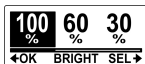
This menu allows you to adjust the OLED screen brightness.

Do the following to adjust the screen brightness.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button repeatedly to highlight **BRIGHT**.
5. Press the **Shutter** button to enter the **BRIGHT** submenu.



6. Press the **Mode** button repeatedly to select **100%**, **60%**, or **30%**.



7. Press the **Shutter** button to confirm.
8. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
9. Press the **Shutter** button to exit **SET** mode.



4.9 Beep

This menu allows you to enable or disable the beep sound when you press the **Power / Mode** or **Shutter** buttons.

Do the following to enable or disable the beep sound.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button repeatedly to highlight **BEEP**.
5. Press the **Shutter** button to enter the **BEEP** submenu.



6. Press the **Mode** button repeatedly to scroll through the beep options.

	To set the beep volume to its loudest.
	To set the beep volume to middle range.
	To turn off beep.

7. Press the **Shutter** button to confirm.

- To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.



- Press the **Shutter** button to exit **SET** mode.

4.10 Auto-Off

This menu allows you to program the camcorder to automatically turn off after being idle for a specific period of time, or you can set the setting to OFF to keep the camcorder on until you manually turn it off.

Do the following to select the auto-off option.

- Press the **Mode** button repeatedly to change to **SET** mode.
- Press the **Shutter** button to enter **SET** mode.
- Press the **Shutter** button to enter the **MORE** menu.
- Press the **Mode** button repeatedly to highlight **AUTO-OFF**.
- Press the **Shutter** button to enter the **AUTO-OFF** submenu.



- Press the **Mode** button repeatedly to select **1 MIN**, **3 MIN**, **5 MIN**, **10 MIN**, **30 MIN**, **60 MIN**, or **OFF**.



7. Press the **Shutter** button to confirm.
8. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
9. Press the **Shutter** button to exit **SET** mode.



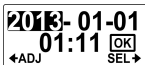
4.11 Date and Time

This menu allows you to set the camcorder date and time settings. Do the following to set the camcorder date and time.

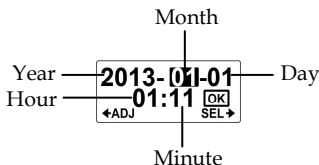
1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button to highlight **TIME**.



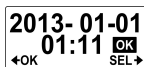
5. Press the **Shutter** button to enter the **TIME** submenu. The Year is highlighted.
6. Press the **Shutter** button repeatedly to adjust the year.



7. When done, press the **Mode** button to go to the month field.



8. Press the **Shutter** button repeatedly to adjust the month value, and then press the **Mode** button to go to the day field.
9. Press the **Shutter** button repeatedly to adjust the day value, and then press the **Mode** button to go to the hour field.
10. Press the **Shutter** button repeatedly to adjust the hour value (in 24 hr or military time), and then press the **Mode** button to go to the minute field.
11. Press the **Shutter** button repeatedly to adjust the minute value, and then press the **Mode** button to highlight **OK**.
12. Press the **Shutter** button to complete the date and time setting.
13. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
14. Press the **Shutter** button to exit **SET** mode.



4.12 RF

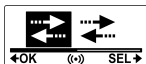
This menu allows you to pair your camcorder with the RF wrist strap remote control (optional accessory). When the devices are paired, you can record videos or capture photos by pressing the corresponding buttons on the RF wrist strap remote control.

Do the following to pair your RF wrist strap remote control.

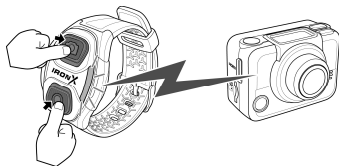
1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button to highlight **BINDING**.
5. Press the **Shutter** button to enter the **BINDING** submenu.



6. The camcorder RF antenna is enabled and ready to be paired with the RF wrist strap remote control.



7. Press both the video and photo buttons on your RF wrist strap remote control to process pairing. When the red LED on the RF wrist strap remote control flash once, pairing is complete.



8. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
9. Press the **Shutter** button to exit **SET** mode.



4.13 Factory Default

This menu allows you to restore the default factory settings of your camcorder.

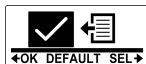
Do the following to restore the factory default settings.

1. Press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button to highlight **DEFAULT**.

5. Press the **Shutter** button to enter the **DEFAULT** submenu.



6. Press the **Mode** button to select \surd .



7. Press the **Shutter** button to confirm.
8. To exit the menu, press the **Mode** button repeatedly until the **EXIT** screen appears.
9. Press the **Shutter** button to exit **SET** mode.



5 Using the Accessories

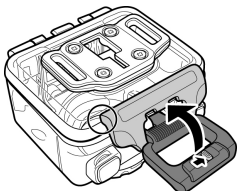
The camcorder comes with rugged accessories for all your sporting needs.

5.1 Waterproof Case

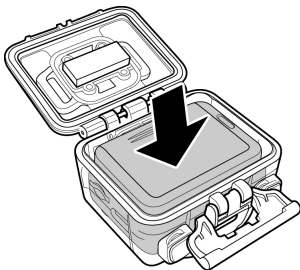
The waterproof case allows you to take underwater shots or use it with the surface mount, bike mount, or chest strap to capture other water sports activities.

5.1.1 Using the Waterproof Case

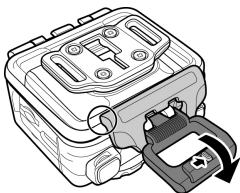
1. Release the case lock and flip open the waterproof case.



2. Install the camcorder inside the waterproof case.



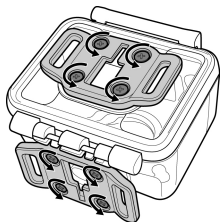
3. Secure the waterproof case lock.



The waterproof case can be used with other accessories such as the swivel T tip, bike mount, chest mount, head mount, etc.

5.1.2 Changing the T Tip Adapter

Depending on the accessories that you want to use with the case, the T tip adapter may be detached and attached to another housing back door or location. To detach the T tip adapter, remove the four screws securing each tip adapter to the case.

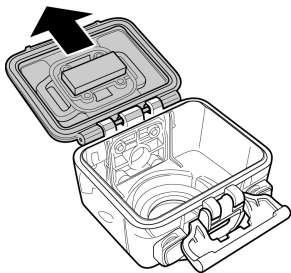


5.1.3 Changing the Housing Back Door

Depending on the accessories that you want to use with the case, you may need to change the housing back door. Two back doors are included in the standard package: the waterproof housing back door, and the vented housing back door.

Do the following to change the housing back door:

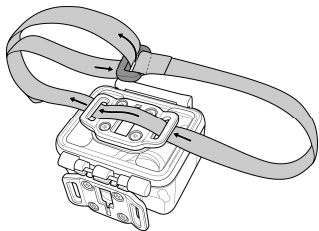
1. Open the back door completely.
2. Pull to detach the back door from the case.
3. Detach the T tip adapter from the current back door and install the T tip adapter to the back door you want to use.
4. Install the back door.



5.2 Velcro Strap

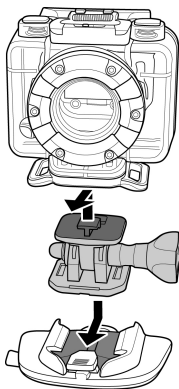
The Velcro strap can be used to secure the waterproof case onto any object to conveniently record photos and videos.

To install the Velcro strap, insert the strap through the strap holes of the tip adapter as shown below.



5.3 Assembling the Camcorder Accessories

Lock the T tip adapter to the T tip of the adjoining accessories to install them to your camcorder.



5.4 RF Wrist Strap Remote Control

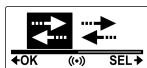
Before using the RF wrist strap remote control, you must pair it with the camcorder. Take note that only one camcorder can be paired to the RF wrist strap remote control at a time.

Do the following to pair your RF wrist strap remote control.

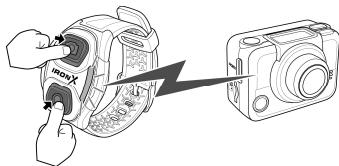
1. On the camcorder, press the **Mode** button repeatedly to change to **SET** mode.
2. Press the **Shutter** button to enter **SET** mode.
3. Press the **Shutter** button to enter the **MORE** menu.
4. Press the **Mode** button to highlight **BINDING**.
5. Press the **Shutter** button to enter the **BINDING** submenu.



6. The camcorder RF antenna is enabled and ready to be paired with the RF wrist strap remote control.



7. On your RF wrist strap remote control, press both the **Video** and **Photo** buttons at the same time. When the red LED flash once, pairing is complete.



8. Press the **Video** button to start and stop video recording. To take photos, press the **Photo** button.

- **Note 1:** To take photos using burst mode, time lapse, or self-timer, switch to the respective mode on your camcorder and then press the **Photo** button on your RF wrist strap remote control. However, only one photo can be taken in time lapse mode when using the RF wrist strap remote control.
- **Note 2:** Even if your camcorder is in Video mode, you can still take photos by pressing the **Photo** button on your RF wrist strap remote control.
- **Note 3:** The maximum operation distance of the remote control is approximately 5m when the RF wrist strap remote control is pointed at the remote control sensor of the camcorder.

Appendix

Specifications

General	
Imaging sensor	1/2.5" CMOS 5.0 Megapixel Sensor
Active pixels	5.0 Megapixel
Storage media	Internal: Built-in 256MB Flash Memory microSD Card, SDHC compatible (up to SDHC 32GB Class6)
Sensor sensitivity	Auto
Camera Optics	Fixed lens Wide: F2.8, f=2.5mm 110°/1080p, 150°/720p, 162°/960p, 165°/ 5M Photo
Focus range	30cm ~ infinity
Still image	Format: JPEG (EXIF 2.2), DCF Resolution: 5M Mode: Signal shot 10 Photo Burst, Time-Lapse (every 1, 3, 5, 10, 30, 60 sec)
Movie clips	Format: H.264 (MP4) Resolution: 1080p: 1920x1080 (30fps), 960p: 1280x960 (30fps), 720p: 1280x720 (60fps)
Zoom	NA
Exposure Setting	Auto

General

EV Compensation	-2.0EV ~ +2.0EV (Auto)
PC interface	USB 2.0 (High Speed)
Wireless	IEEE 802.11 b/g/n
TV out format	HDMI
Shutter speed	Still: 1/30 ~ 1/4000 sec. Video: 1/30 ~ 1/2000 sec.
Auto power off	1min / 3min / 5min / 10min / 30min / 60min / Off
Power supply	Rechargeable 1130 mAh Li-ion Battery
Dimensions	42.7 (H) x 59.2 (W) x 26.4 (D) mm (without lens)
Weight	Approx. 78±3g (without Waterproof Case)

Troubleshooting

Problem	Possible Cause	Solution
The battery LED is flashing red.	The battery is almost used up.	Replace with a new battery or charge the battery.
Nothing happens when the Shutter button is pressed.	The Micro SD card is full. You cannot take photos or record videos at this point.	Transfer the Micro SD card files to the computer or delete the files in the Micro SD card.
Nothing happens when the Shutter button is pressed. "000" appears on the screen.	The Micro SD card may have compatibility issues.	Format the Micro SD card first using the camcorder (Delete menu). If it still does not work, format the Micro SD card using the PC.
Nothing happens when the Shutter button is pressed. "000" appears on the screen.	The Micro SD card is not inserted.	Insert the Micro SD card.

FCC Statement

Modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off.

The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Trademarks and licenses

HDMI[®]

HIGH-DEFINITION MULTIMEDIA INTERFACE



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