LOREX®
VIEW YOUR WORLD™

WATERPROOF HIGH DEFINITION VIDEO CAMCORDER

USER'S GUIDE
ENGLISH VERSION 1.0

ACTIVE

LSC004

www.lorextechnology.com

Welcome!

Thank you for purchasing this Lorex Active sports camcorder. This manual covers the following models:

- LSC004

Contents

Make sure you have the following:

- 1 x Camcorder
- 1 x Lens Cap
- 1 x mini-USB Cable
- 1 x Remote Control with Wrist Band
- 1 x Carrying Bag
- 1 x Wrist Strap
- 1 x Surf Board Mount
- 1 x Head Strap
- 1 x Helmet Mount

WARNING

- Do not point the camera directly at the sun as this may damage the camera.
- Make sure the side door locks into place to ensure that water cannot get inside the camera.
- Do not submerge more than 16ft / 5m deep.
- Do not use in temperatures colder than –4°F / –20°C or warmer than 104°F / 40°C.
- Do not disassemble the camera.
- Do not look at the laser or point it at people's eyes.

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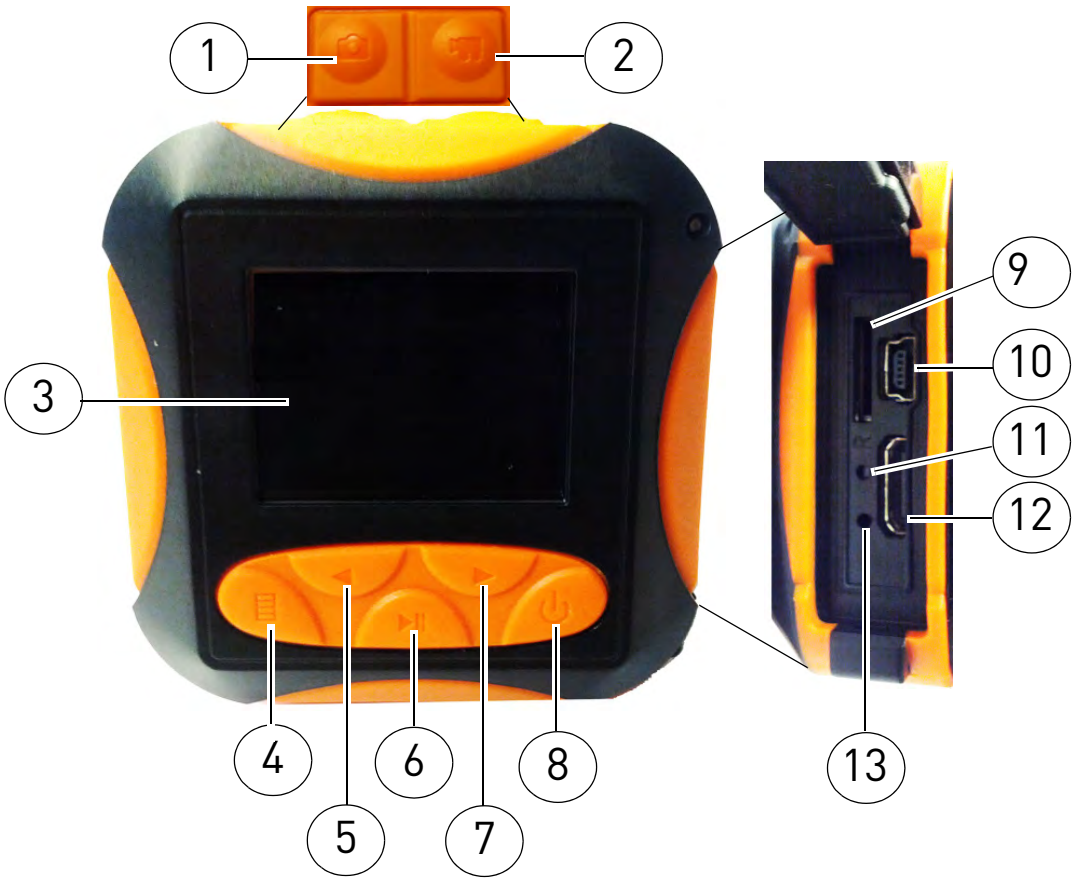
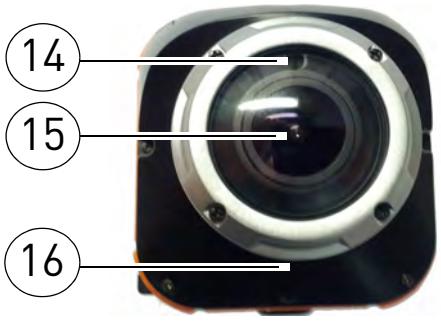
English

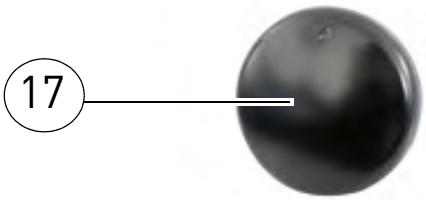
1. CAMCORDER OVERVIEW



1. **Picture button:** Press to take a picture.
2. **Video button:** Press to start recording video. Press again to stop recording video.
3. **LCD Display**
4. **Menu:** Press to open the Menu.
5. **Left:** Press to scroll left or down in menus. Press to zoom out when digital zoom is enabled (recording resolution must be 720p or lower).
6. **Play/Pause:** Press to open Playback Mode. Press to pause/play selected videos in Playback Mode. Press to select menu options or confirm settings changes.

7. **Right:** Press to scroll right or change settings in menus. Press to zoom in when digital zoom is enabled (recording resolution must be 720p or lower).
8. **Power:** Press and hold to turn the camcorder on/off.
9. **microSD card slot:** Insert a microSD card (not included) to enable recording. The camera can support microSD cards up to a maximum size of 32GB.
10. **mini-USB port:** Connect the camcorder to a computer using the included mini-USB cable to charge the battery or access pictures or videos.
11. **Reset button:** Press with a pin or paper clip if the camera encounters an error to reset the camera.
12. **mini-HDMI port:** Connect a mini-HDMI to HDMI cable (not included) to connect the camera to a HDTV.
13. **Indicator LED:** Glows red when the camera is charging. Glows green when the camera is finished charging.





14. **Laser pointer:** If activated, helps you aim the camcorder when you start recording.
15. **Camera lens**
16. **Microphone**
17. **Lens Cover:** Point the arrow on the lens cover up to lock it in place while transporting the camcorder.

1.1 DISPLAY ICONS OVERVIEW

Estimated available recording time
(actual recording time may vary)

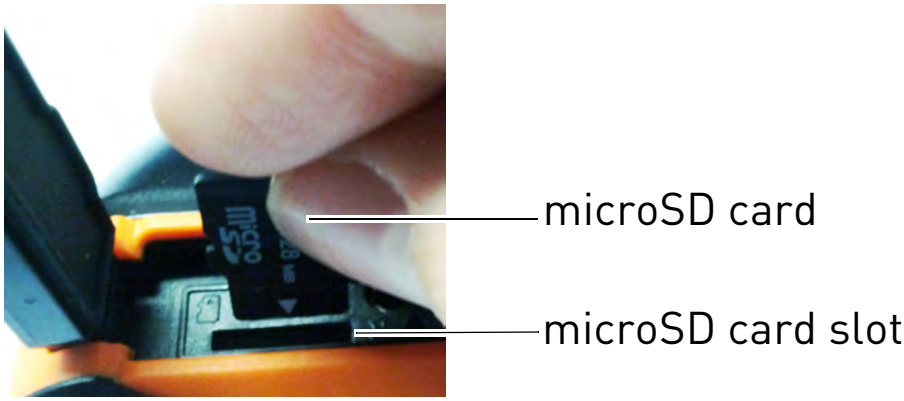
	Shows video resolution setting.
	Shows picture resolution setting.
	Shows the AE Bias value (Exposure) if it has been changed from 0.
	Shows the video quality setting.
	microSD card is inserted.
	Night mode is enabled.

	Capture function is enabled.
	Self-timer function is enabled.
	Shows the white balance settings.
	Photometry mode.
	Timestamp function is enabled.
	Motion Detection function is enabled.
	Battery status. 3 bars means the battery is full, 0 bars means the battery is nearly discharged.

2. GETTING STARTED

1. Open the side door.
2. Connect the mini-USB cable to the camera. Connect the other end to your computer.

3. Charge the camera for **5 hours** to fully charge.
4. Disconnect the USB cable from the camera and insert a microSD card (not included) into the camera and push it down until it clicks into place.



NOTE: The camera can support microSD cards up to a maximum size of 32GB. It is recommended to format a microSD card when first using it with the camcorder. For details, see “Format” on page 23.

5. Close the side door of the camera. Make sure it locks into place to ensure a waterproof seal.

Unlocked

Door is locked when the arrow is next to press

6. Press and hold the **Power** button to turn on the camera.

Power

7. Press the **Video** button on the top of the camera to start recording. Recording time appears at the bottom of the screen. Press it again to stop recording.
   OR
   Press the **Picture** button to take a picture.

Picture

Video

3. MOUNTING OPTIONS

3.1 SURF BOARD MOUNT

1. Peel the adhesive under the mount and attach the mount to your surf board.
2. Screw the camcorder onto the mount and tighten the fastening ring.
3. Adjust the viewing angle as needed then tighten the thumb screw.

1

2

Surf Board Mount Example

3

Tilt 180°

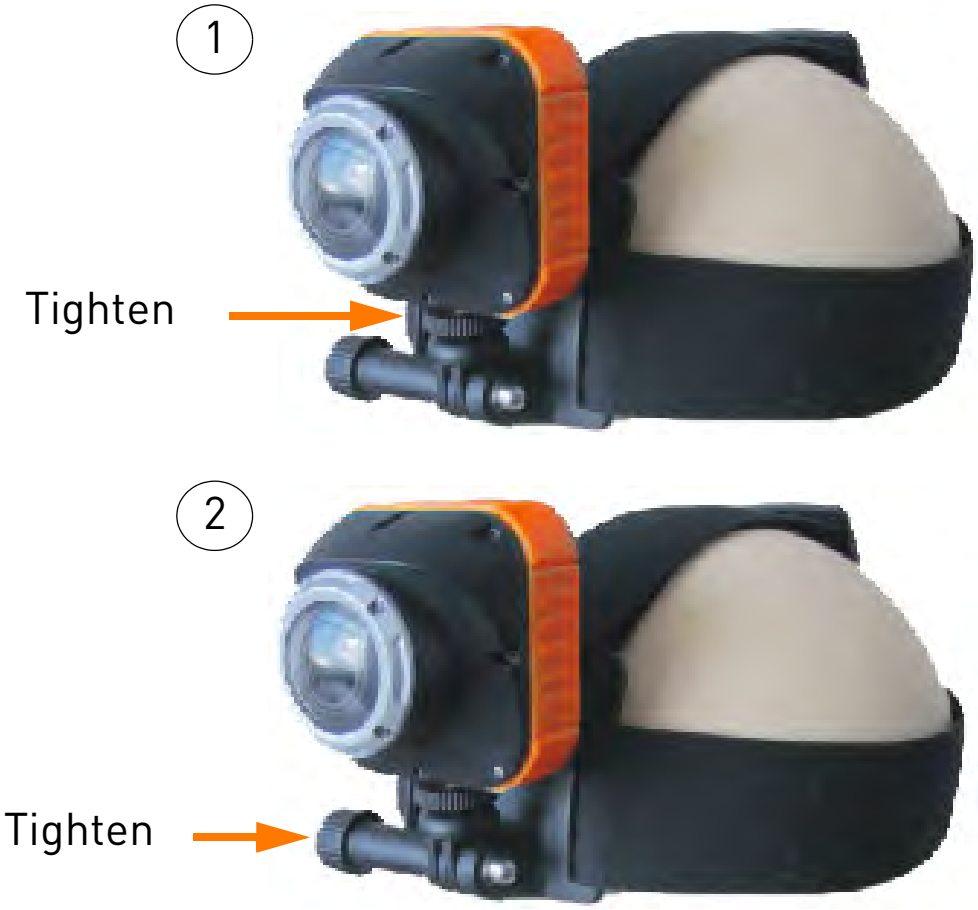
Rotate 360°

3.2 HELMET MOUNT

1. Remove the thumb screw.
2. Un-clip the straps and remove them from the clips.
3. Screw the camera onto the mount and tighten the fastening ring.
4. Run the straps through the helmet and clips. Tighten them and clip them to secure the helmet mount.
5. Replace the thumb screw, adjust the angle as needed, and then tighten it.

3.3 HEAD STRAP

1. Screw the camera onto the mount and tighten the fastening ring.
2. Adjust the angle as needed and tighten the thumb screw.



3.4 CHEST STRAP (NOT INCLUDED)

Optional Chest Strap accessory is available at www.lorextechnology.com (model # ACCLSC004-2).

3.5 BIKE MOUNT (NOT INCLUDED)

Optional Bike Mount accessory is available at www.lorextechnology.com (model # ACCLSC004-1).

4. REMOTE CONTROL

A remote control with a wrist strap is included for easier control of the camera, especially while the camera is mounted to a helmet or surf board.

Video button: press once to start recording and again to stop

Picture button: press once to take a Picture

NOTE: When LCD is off, first press will turn on the LCD but not start recording or take a picture.

TIP: If using the remote control, turn LCD Off (Menu→System→LCD Off) to OFF to prevent the LCD screen from turning off (this will use more battery power when the camcorder is idle).

OR

Set Beep Sound (Menu→System→Beep Sound) to ON to enable beeping when buttons are pressed. The camcorder will not beep when the video button is pressed to turn on the LCD screen, but will beep when you start recording video.

5. PLAYBACK MODE

Use Playback Mode to view your pictures and videos directly on the camera, and delete the ones you don't want to free space on your microSD card (not included).

To access Playback Mode:

1. Press ▶ II to open Playback Mode.

2. Press ◀ ▶ to select the video or picture you want to view, and press the **Picture** button to change between videos and pictures.

Press the Picture button to change between videos and pictures

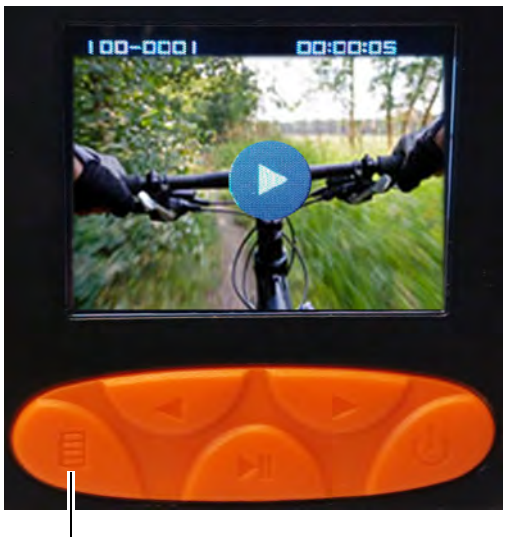
Press ◀ ▶ to select files

3. Press ▶ ⏸ to open a video or picture. Press again to start playing a video.

Press ▶ ⏸ to open a video or picture

Press ▶ ⏸ again to start playing a video

4. Press **Menu** to close the currently selected video or picture. Press the **Video** button to exit Playback Mode.



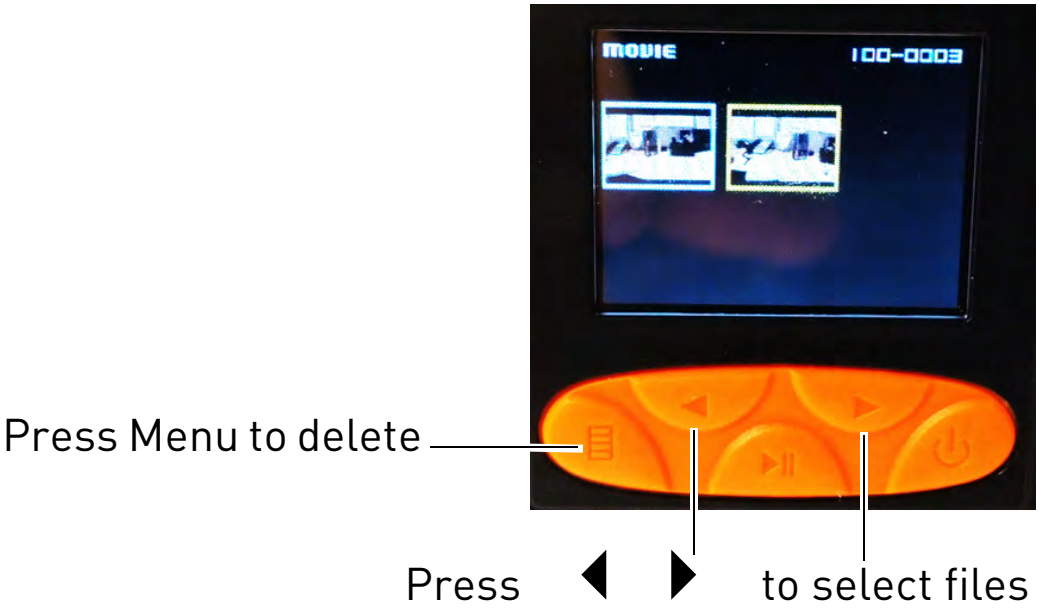
Press Menu to close file

Press the Video button to close Playback Mode

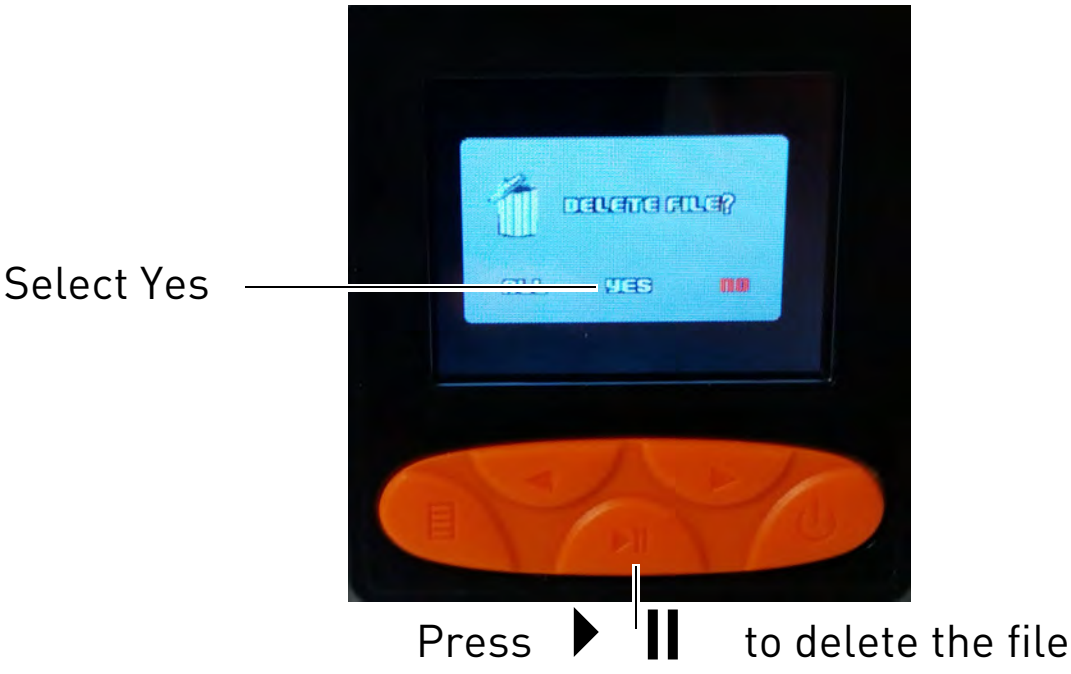
English

5.1 DELETING FILES

1. In Playback Mode, press ◀ ▶ to highlight the video or picture you want to delete and press **Menu**.



2. Press ◀ ▶ to select **Yes** and then press ▶II to delete. Or, select **All** and press ▶II to delete all files of that type.



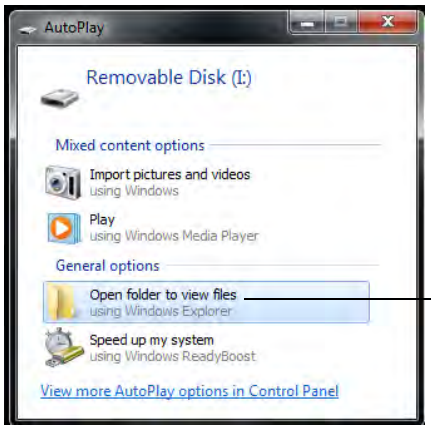
6. ACCESSING/SAVING PICTURES AND VIDEOS ON YOUR COMPUTER

System Requirements

- **PC:** Windows 7
- **Mac:** OS 10.5 or higher
- Minimum 10GB free hard drive space to save recordings

To access/save pictures on your computer:

1. Connect the mini-USB cable to the camera and connect the other end to your computer. The computer will recognize the camera and automatically install drivers.
2. **Windows:** An Autorun window appears. Click **Open folder to view files**. If Autorun does not appear, open Computer and double-click **Removable Disk**.



Open folder to view files

OR

Mac: Double-click the removable disk folder on the Desktop.

Removable disk folder

NOTE: If the camera does not appear and the Indicator LED is red, the camera is charging. Press and hold the Power button to enter USB drive mode.

3. Double-click the **DCIM** folder then the **100MEDIA** folder to access your videos or pictures.
4. Double-click videos or pictures to open. Copy videos or pictures to a folder on your computer to save them to your hard drive.

NOTE: Your videos are saved in .mp4 format and pictures are saved in .jpg.

7. USING THE MENU

Use the Menu to configure camera settings.

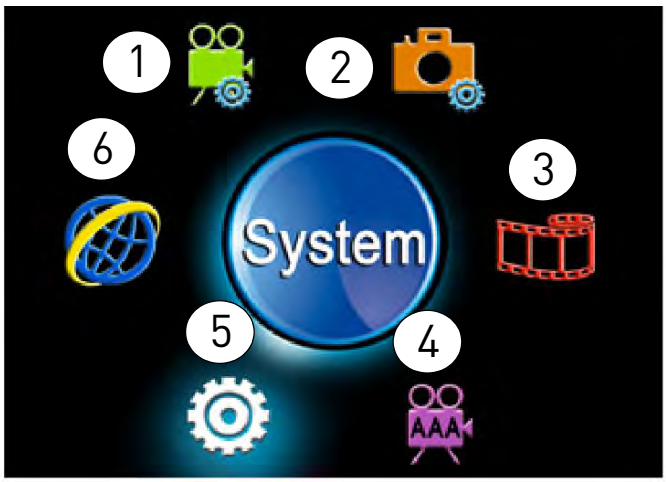
To use the menu:

- Press the **Menu** button to open the Main Menu.

Press **Menu** to open the Main Menu

- Press ◀ ▶ to scroll left and right and press ▶ ⏸ to select a sub-menu.
- In sub-menus, press ▼ to scroll down and ▶ to change settings. Press ▶ ⏸ to confirm settings changes. Press **Menu** to return to the Main Menu. Press **Menu** again to return to live view.

7.1 MAIN MENU OVERVIEW



Main Menu

1. **Video System:** Configure video recording settings.
2. **Photo System:** Configure picture recording settings.

English

3. **Playback:** Open Playback Mode. See “Playback Mode” on page 12.
4. **AAA:** Advanced camera image settings.
5. **System:** Camera system settings.
6. **GPS:** Not available.

7.2 VIDEO SYSTEM

Configure video recording settings.

Quality

Select the video image quality: **Super Fine** (highest), **Fine**, or **Normal** (lowest).

Resolution

Select the video recording resolution and frame rate from one of the options below. Reducing the resolution or frame rate will increase the amount of available recording time.

- **1080P30:** 1920x1080 @ 30 FPS (Frames per second) (Highest).
- **720P60:** 1280x720 @ 60 FPS
- **720P30:** 1280x720 @ 30 FPS
- **WVGAP60:** 848x480 @ 60 FPS
- **WVGAP30:** 848x480 @ 30 FPS (Lowest)

Motion Detect

When the Motion Detection function is set to **ON**, video recording will start automatically if motion is detected. Automatic recording only works in Live View mode (i.e. all menus are closed).

Video Duration

Use the Video Duration function to set a time limit for video recording. Select **Any Duration** (default) for videos to record until the recording is manually stopped, or select **30Sec**, **180Sec**, or **300Sec** to automatically stop recording after the time limit is reached.

Loop Video

Only available if Video Duration is set to 30Sec, 180Sec, or 300Sec. Set Loop Video to **ON** to automatically start a new recording after the video duration ends (press the Video button to stop recording). Loop Video is useful if you want to record video in segments.

NOTE: You must have at least 2GB of free space on the microSD card (not included) to use Loop Video.

Upside Down

When Upside Down is set to **ON**, recorded videos are flipped vertically after being recorded. The on-screen display is also flipped.

NOTE: While recording, the video will remain in its normal orientation.

NOTE: You cannot take pictures while Upside Down is ON.

7.3 PHOTO SYSTEM

Configure picture recording settings.

Quality

Select the image quality for pictures: **Super Fine** (highest), **Fine**, or **Normal** (lowest).

Size

Select the resolution for taking pictures: **3MP** (Megapixel), **5MP**, or **8MP**. Selecting a lower resolution will increase the number of pictures that can be taken.

Self Capture

Select **ON** to enable Self Capture Mode. When Self Capture Mode is enabled, the camera will take a picture 10 seconds after the Picture button is pressed.

Capture

When Capture is **ON**, the camera will take 3 pictures in a row when the Picture button is pressed.

7.4 AAA

Configure advanced camera image settings.

Flicker

Select **50HZ** or **60HZ** by this setting to correct flickering in the video while shooting indoors. This setting should be set according to the frequency of the indoor light source.

Contrast

Select contrast level: **Standard**, **Hard**, or **Soft**.

Sharpness

Select sharpness level: **Standard**, **Hard**, or **Soft**.

AE ISO

Select the ISO speed: **Auto**, **100**, **200**, **400**, **800**.

White Balance

Select the White Balance level depending on lighting conditions: **Auto**, **Sunny**, **Cloudy**, **Fluor** (fluorescent), or **Tungs** (for tungsten or incandescent lighting).

AE BIAS

Choose the Exposure level between **2.0** (+2) and **-2**.

Metering Mode

Choose the auto exposure meter mode: **Center**, **Average**, or **Spot**. The default is Center.

Night Shot

Select **ON** to turn on Night Shot Mode.

7.5 SYSTEM

Configure camera system settings.

Firmware Version

Displays the firmware version.

LCD Off

LCD Off turns off the LCD screen automatically after the system is idle for a given time. Power consumption is reduced while the LCD screen is off. Select the LCD Off time: **1Min**, **3Min**, or **5Min**, or select **Off** to keep the LCD screen on at all times.

Time Setup

Set the system time.

To set the system time:

1. In the System sub-menu, highlight **Time Setup** and press ▶ .
2. Press ◀ to select the Year, Month, Day, Hour, Minute (selected field turns black) and press ▶ to adjust.

NOTE: Time is in 24-hour format.

3. Press ▶ ⏸ to confirm changes.

Volume

Adjust the volume between **0** (mute) and **13** (loudest).

Reset System Settings

Reset the camcorder to factory default settings.

To reset to factory default settings:

1. In the System sub-menu, highlight **Reset** and press ▶ .
2. Select **Yes** and press ▶ ⏸ . The screen will say "Will Take affect after reboot."
3. Press ▶ ⏸ or press and hold the **Power** button to turn off the camcorder. Press and hold the **Power** button to turn the camcorder back on.

Format

Select **Yes** and press ▶ ⏸ to format the microSD card. **Formatting the microSD card erases all data saved on the microSD card.**

NOTE: It is recommended to format the microSD card when first using it with the camcorder.

Language

Select the system language. Available languages are **English**, **German**, **Russian**, **French**, **Italian**, **Spanish**, **Portuguese**, **Traditional Chinese**, and **Simplified Chinese**.

Date/Time

Adds a time stamp to videos and pictures. Select **Date** to show the date only, **Time** to show the time only, **Date/Time** to show both, or **Off** to disable time stamps. Set the correct time using Time Setup.

Beep sound

Select **ON** to enable beeping when buttons are pressed or **OFF** to disable.

Laser

Allows you to enable the laser pointer when you start recording videos. Select **5SEC** or **10SEC** to enable the laser for the first 5 or 10 seconds after the Video button is pressed. Or select **OFF** to disable the laser. The laser helps aim the camera by pointing at the center of the recording area.

WARNING: Do not look directly into the laser or point it at a person's eyes.

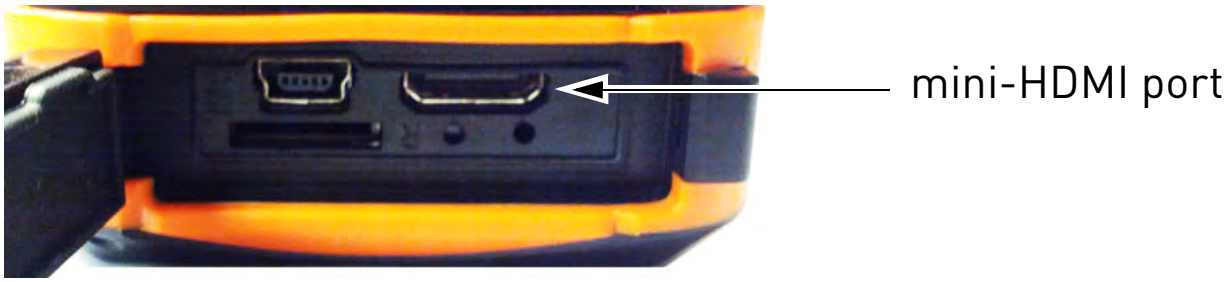
8. CONNECTING TO AN HDTV

You can connect the camcorder to an HDTV. This is useful if you want to playback videos and pictures on a big screen.

Connecting the camcorder to an HDTV requires a mini-HDMI to HDMI cable (not included). A mini-HDMI to HDMI cable is available from www.lorextechnology.com (model # ACCLSC004-3).

To connect the camcorder to an HDTV:

1. Turn off the camcorder and HDTV.
2. Open the camcorder side door.
3. Connect the mini-HDMI end of the mini-HDMI to HDMI cable (not included) to the camcorder. Connect the HDMI end to the HDTV.



4. Turn on the camcorder and the HDTV. Make sure to select the correct input for the camcorder on your TV.
5. Control the camcorder as normal.

NOTE: If you begin recording a video, the recording will be in high definition but the live video on the screen will be in standard definition. The camcorder cannot save high definition video and transmit it through the HDMI cable at the same time.

9. TECHNICAL SPECIFICATIONS

Video Resolution	1080p @ 30FPS 720p @ 60FPS
Photo Resolution	5 Mega Pixels, 1920*1080p
LCD Screen	1.5" color TFT for live view, playback and setup
Battery	1300mAh rechargeable lithium-ion 2.5 hours
Recording Angles	125° @ 1080p 170° @ 720p & WVGA
Video Format	H.264
Memory	Supports microSD cards up to 32GB
Remote Control Range	32ft / 10m range
Dimensions	64mm x 57mm x 64mm / 2.5in x 2.3 in x 2.5in
Weight	0.09lbs / 0.04kg

10. CLEANING, CARE, AND DISPOSAL

10.1 CLEANING

Clean the camera with a slightly damp cloth or an anti-static cloth. Never use cleaning agents or abrasive solvents.

- Do not clean any part of the product with cleaners with thinners or other solvents and chemicals. This may cause permanent damage to the product which is not covered by the Warranty. When necessary, clean it with a damp cloth.
- Every effort has been made to ensure high standards of reliability for your camera. However, if something does go wrong, please do not try to repair it yourself. Contact Customer Service for assistance.

10.2 STORAGE

- Store the camera with the microSD card removed in a well-ventilated area.
- Do not store the camera in damp or dusty places, as this may cause fire or electrical shock.
- Do not store the camera in warm temperatures or in direct sunlight as this may damage the camera.
- It is recommended to use the included carrying bag and lens cap when transporting the camera.

10.3 DISPOSAL OF THE DEVICE

At the end of the product lifecycle, you should not dispose of this product with normal household waste, but take the product to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's guide and/or box indicates this.

Some of the product materials can be re-used if you take them to a recycling point. By reusing some parts or raw materials from used products you make an important contribution to the protection of the environment.

Please contact your local authorities in case you need more information on the collection points in your area. Dispose of the battery pack in an environmentally-friendly manner according to your local regulations.

11. NOTICES

Warning: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

FCC Notice

This equipment has been tested and found to comply with the limits for a 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, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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 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 or television technician for assistance

Canada/IC Notice

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

LOREX®
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ACTIVE

LSC004

Version 1.0

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