



User Manual

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1.0 Introduction

About this Manual:

Congratulations on purchasing the Minolta MN4K35NV Digital Camcorder!

The contents of this manual are subject to change without notice. Note that the example screens and product illustrations shown in this User's Guide may differ somewhat from the screens and configuration of the actual camcorder.

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Federal Communications Commission Interference Statement:

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 instructions, 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 off and on, 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/TV technician for help.

Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Warning:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

FCC: SAR standard Value: 1.6 W/Kg, Maximal Measure: 0.4 W/kg

CE Mark Warning:

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Camera Information:

- Do not disassemble or attempt to service the camera yourself.
- Do not expose the camera to moisture, or extreme temperatures.
- Allow the camera to warm up when moving from cold to warm temperatures.
- Do not touch and put pressure on the camera lens.
- Do not expose the lens to direct sunlight for extended periods.
- Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- Do not use the flash or LED Light near a person's eyes to prevent possible eye injury.
- To prevent you from falling over or resulting in traffic accident, do not use the camera while you are walking, driving or riding a vehicle.
- Handle the camera strap with care, and never place the strap around the neck of an infant or child. Wrapping the strap around a neck may cause suffocation.
- Do not subject the LCD screen to impact.
- To prevent the risk of fire or electric shock, do not expose the inside of this product to rain or moisture.

Battery Information:

- Turn off the camera before installing or removing the battery.
- Use only the provided batteries or type of battery and charger that came with your camera. Using other types of battery or charger may damage the device and invalidate the warranty.
- Inserting the battery upside down can cause damage to the product and possibly cause an explosion.
- When the camera is used for an extended period of time, it is normal for the camera body to feel warm.
- Download all pictures and remove the battery from the camera if you are going to store the camera for a long period of time.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Keep the batteries out of the reach of children to prevent from swallowing the batteries, which might cause poisoning.
- If the battery's color or shape changes in any way, stop using the battery immediately.

USB Adaptor Information:

- Do not expose the adapter to high temperatures or moisture places. Otherwise, it may cause fire or electric shock.
- Do not attempt to repair, disassemble, change or transform the adapter.
- Avoid sudden changes in temperature, which may cause condensation on the adapter's internal surfaces. Do not use it immediately in this situation.
- Do not touch the plug with wet hands. Otherwise, it may cause electric shock.
- Do not use the travel voltage converter or AC/DC power inverter. Otherwise, it may cause damage, overheating, malfunction or fire to the camera.

Precautions When Cleaning:

- Do not puncture the microphone or speaker openings with a sharp implement.
- If the inside of the camera is damaged, the waterproof performance will deteriorate.
- Do not use soap, natural detergents, or chemicals such as benzene for cleaning.

Do Not Apply Strong Impact to the Camera:

The product may malfunction if subjected to strong shock or vibration. In addition, do not touch or apply force to the lens.

Avoid Sudden Changes in Temperature:

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

Keep Away from Strong Magnetic Fields:

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Doing so could result in loss of data or camera malfunction.

Do Not Point the Lens at Strong Light Sources for Extended Periods:

Avoid pointing the lens at the sun or other strong light source light sources for extended periods when using or storing the camera. Intense light may cause the image sensor to deteriorate or produce a white blur effect in photographs.

Power the Product Off before Removing or Disconnecting the Power Source or Memory Card:

Do not remove the battery while the product is on, or while images are being saved or deleted. Forcibly cutting power in these circumstances could result in loss of data or cause damage to the memory card or internal circuitry.

Notes about the LCD Screen:

- The LCD Screens are constructed with extremely high precision; At least 99.99% of pixels are effective, with no more than 0.01% being missing or defective. Hence, while these displays may contain pixels that are always lit (white, red, blue or green) or always off (black), this is not a malfunction and has no effect on images recorded with the device.
- Images viewed on the LCD screen may be difficult to see under certain lighting.
- Do not apply pressure to the LCD screen, as this could cause damage or malfunction.

Charging the Battery:

Check the battery level before using the camera and replace or charge the battery if necessary.

- Charge the battery indoors with an ambient temperature of 5°C (41°F) to 35°C (95°F) before use.
- A high battery temperature may prevent the battery from charging properly or completely, and may reduce battery performance. Note that the battery may become hot after use; wait for the battery to cool before charging. When charging the battery inserted into this camera using the Charging AC Adapter or a computer,

the battery is not charged at battery temperature below 5°C (41°F) or above 55°C (131°F).

- When the battery is between 45°C (113°F) - 55°C (131°F), the chargeable capacity may decrease.
- Do not continue charging once the battery is fully charged as this will result in reduce battery performance.
- The battery temperature may increase during charging. However, this is not a malfunction.
- Note that the battery may become hot after use.
- Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F) as this could cause damage or malfunction.
- If you notice any abnormalities such as excessive heat, smoke, or an unusual smell coming from the battery, immediately discontinue use and consult your retailer.
- After removing the battery from the camera or optional battery charger, put the battery in a plastic bag, etc. in order to insulate it.

Using the Battery When Cold:

On cold days, the capacity of batteries tends to decrease. If an exhausted battery is used at a low temperature, the camera may not turn on. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.

Recycling Used Batteries:

Replace the battery when it no longer holds a charge. Used batteries are a valuable resource and should be recycled in accordance with local regulations.

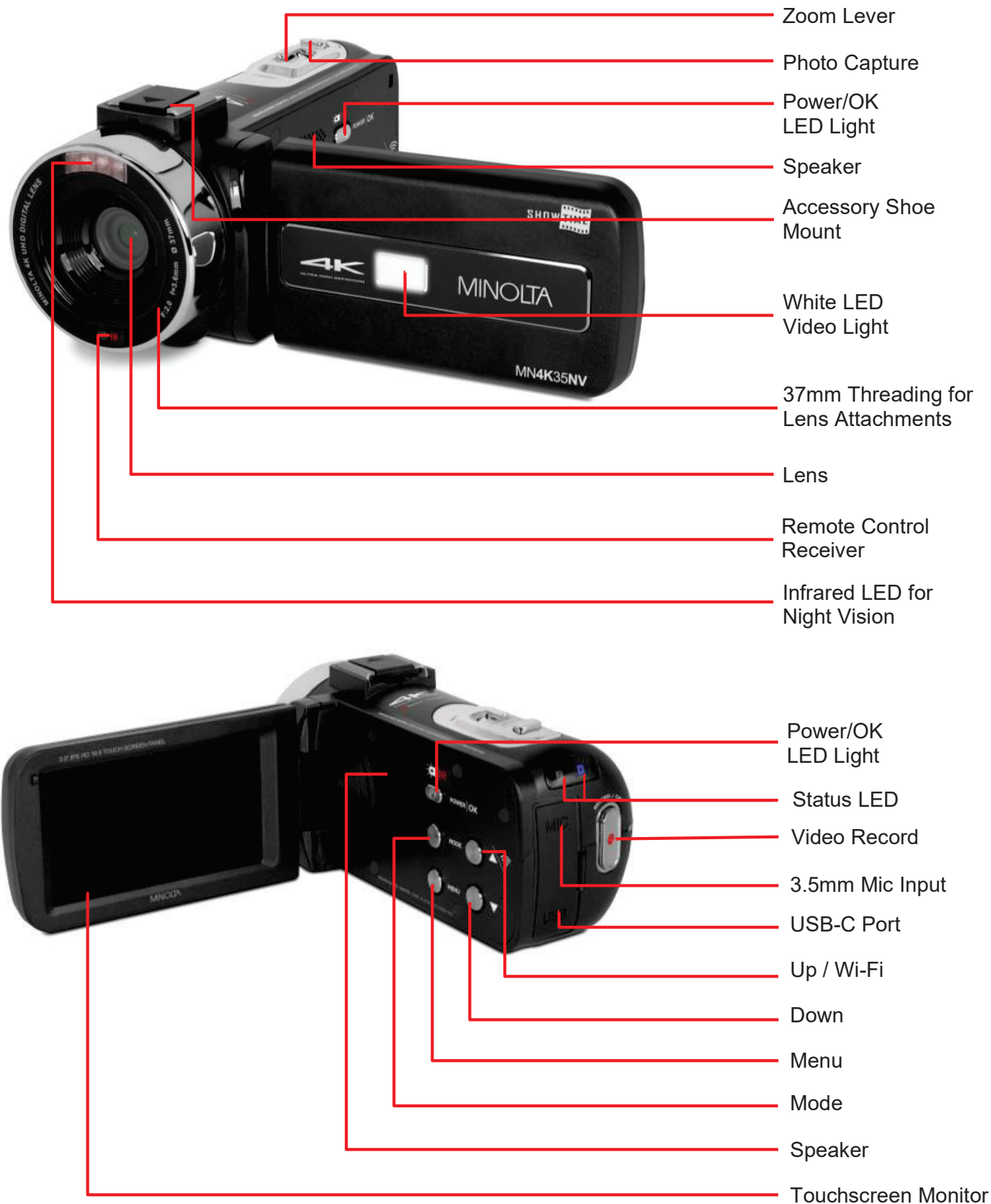
Storage

If you do not intend to use the camera for an extended period, remove the battery and avoid storing the camera in any of the following types of locations:

- Places that are poorly ventilated or subject to humidity of over 60%
- Place exposed to temperatures above 50°C (122°F) or below -10°C (14°F).

Getting Started

1.1 Buttons and Operation Overview



1.2 Buttons and Operation Overview Explained

Name:	Function:
Zoom Lever	<p>In Photo or Video Mode: Lever for T(ele) and W(ide) buttons for digital zooming in and zooming out</p> <p>In Menus: Lever to scroll left or right</p> <p>In Playback Mode: Lever to scroll through captured media</p> <p>In Playback Mode (during Video): Lever to adjust playback volume of recorded video</p>
Photo Capture	<p>In Photo Mode: Button to quickly enter Photo mode and to capture a photo</p> <p>In Video Mode: Button to pause/resume Video recording during active recording</p>
Power/OK LED Light	<p>Button to power the camcorder on or off. Once powered on, press to enable the infrared LED for night vision, or the white LED for extra lighting</p> <p>In Menus: Button to confirm a setting</p>
Accessory Shoe Mount	Remove placeholder plate and mount hot-shoe accessories like an external microphone, video light, etc.
White LED Video Light	Fill-in white LED video light for additional lighting
37mm Threading	The front lens has a 37mm diameter threading for compatible filters and attachments
Lens	Front objective lens for video and photo capture
Infrared LED Night Vision	<p>Fill-in infrared LED light for illuminating in complete darkness.</p> <p>NOTE: <i>all media recorded with infrared LED enabled will record in black & white only</i></p>
Status LED	<p>Blinking Blue: Recording video</p> <p>Single Blue: Video Mode standby</p> <p>Solid Red: Battery is charging</p>
Video Record	Button to quickly enter Video mode and to record a video. Press again during recording to stop recording.
3.5mm Microphone Input	Input port for an external microphone (3.5mm)
USB-C Port	Port for charging battery, transferring photos to a PC, or using your camcorder as a PC Camera

■ CONTINUED ■

Name:	Function:
Up / Wi-Fi	In Photo or Video Mode: Button to enable Wi-Fi In Menus: Button to move Up when navigating menus In Playback: Button to move Up when scrolling through files
Down	Button to move Down when navigating menus
Menu	Button to enter the settings menu in each mode
Mode	Button to enter Mode selection
Speaker	Built-in speaker plays button-press sounds and other video playback sounds
Touchscreen Monitor	Monitor to display media. Can also be used as a touchscreen for navigating menus and confirming selections.
Down	In Settings: Button to move Down when navigating menus In Playback: Button to move Down when scrolling through files
Menu	Button to enter the settings menu in each mode
Mode/OK	Button to cycle the various Photo and Video Shooting modes In Settings: Button to confirm highlighted menu selection In Playback: Button to start and stop video playback
Left	In Settings: Button to move Left when navigating menus In Playback: Button to view previous file

Minolta MN4K35NV

1.3 Camcorder Features

In addition to basic video and photo capture, the Minolta MN4K35NV offers a variety of shooting modes to suit different situations. This section describes how to make the most of your camcorder's key features. Along with the explanation of its operations, it will enable you to enjoy your camcorder to the fullest.



First Use

1.4 Operating the Battery Door

Unlock the battery door by sliding the locking latch left with your thumb or nail as shown in the figure below and release. The battery door should unlock and spring open.



1.5 Installing the Battery

Insert the included lithium-ion battery into the battery compartment with the metal contacts facing the inside of the camcorder as shown in the figure below. The camcorder will only power up if the metal contacts on the battery line up with the metal contact inside the battery compartment.

NOTE: The battery can only be inserted in one way.



1.6 Installing the Memory Card

Insert the MicroSD memory card into the battery compartment with the metal contact facing up as shown in the figure below. Push the memory card in until you hear an audible click.



The MicroSD memory card can only be inserted in one way. Do not force the card in if it will not go in smoothly. If it is not inserting smoothly, then it is likely being inserted incorrectly.

To remove the MicroSD memory card, simply push the card in and the card will eject back out.

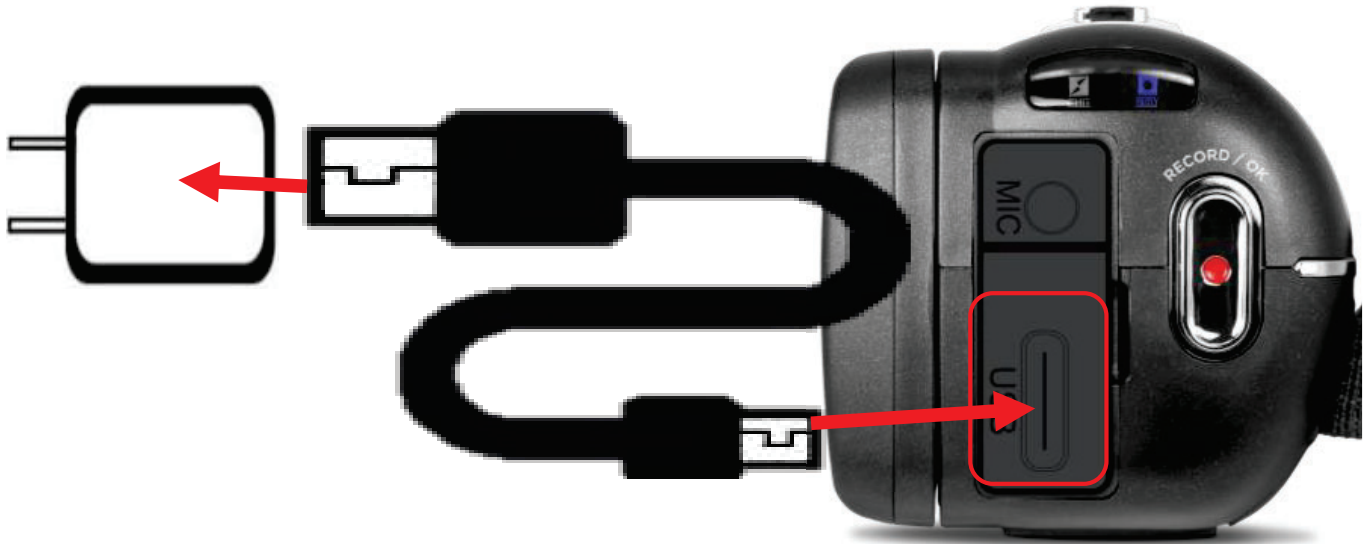
NOTE:

- Format the memory card before using the camcorder (Caution: this will erase all data on the card).
- Do not remove or insert the memory card when recording. It may damage the card or cause data loss.
- Memory card rating must be Class 10 or above.
- Maximum capacity MicroSD supported is 256GB.

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1.7 Charging the Battery

Connect your camcorder to the included AC adaptor with the included USB-C cable. Insert the small end of the USB plug into the camcorder's USB-C port under the protective door as shown in the figure below. Plug the larger end into the included AC adaptor. While charging, the LED indicator light will light up solid red and will turn off once charging is completed.



1.8 Powering the Camcorder On and Off

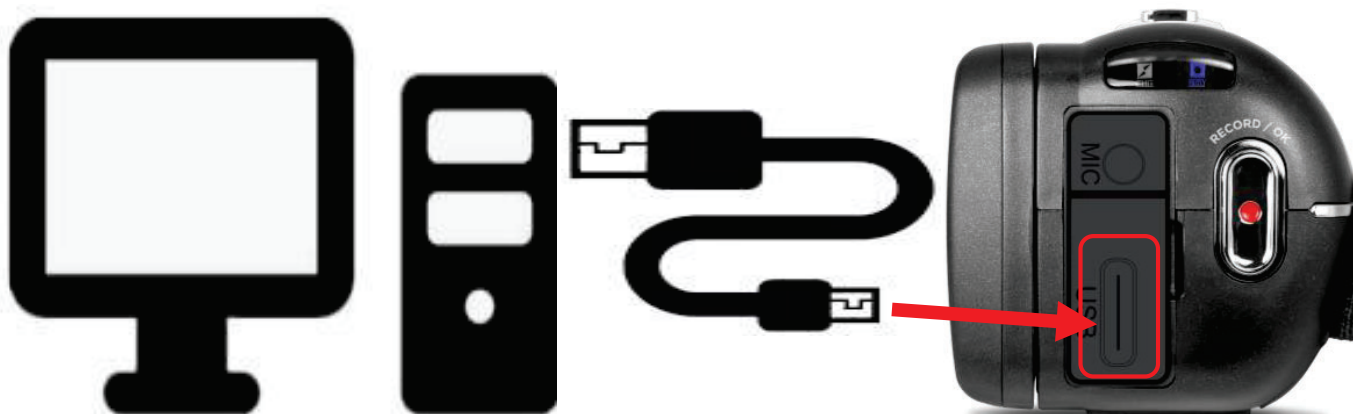
Open the camcorder's LCD monitor and the camcorder will power on automatically within 3 seconds. If the LCD monitor is already opened, you may also hold the **POWER** button for 3 seconds to power the camcorder on. To power the camcorder off, press and hold the **POWER** button for a further 3 seconds.



If the camcorder's battery is low, a "Low Battery" message will display on the screen and it will automatically shut down within a few seconds to prevent corruption or loss.

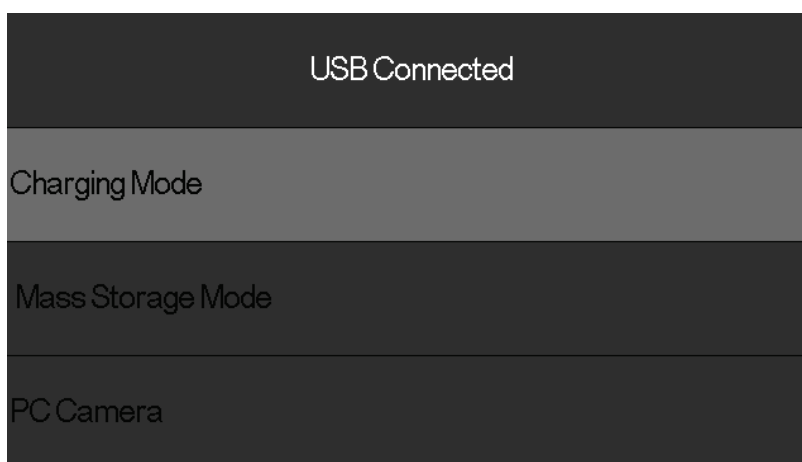
1.9 Connecting to a Computer

Your camcorder can connect to a computer to transfer photo and video files for viewing and editing, or to use your camcorder as a PC web cam. To connect the camcorder to your computer, open the protective cover on the back of the camcorder to access the USB-C port. Insert the small end of the USB-C plug into the camcorder's port and the larger end into a USB port on your computer.



NOTE: You must plug directly into an integrated USB port and not into a USB peripheral hub or extension.

Once connected and powered on, the camcorder's screen will display three options as follows:



Charging Mode

Will allow you to just recharge the battery using your computer as a power source.

Mass Storage Mode

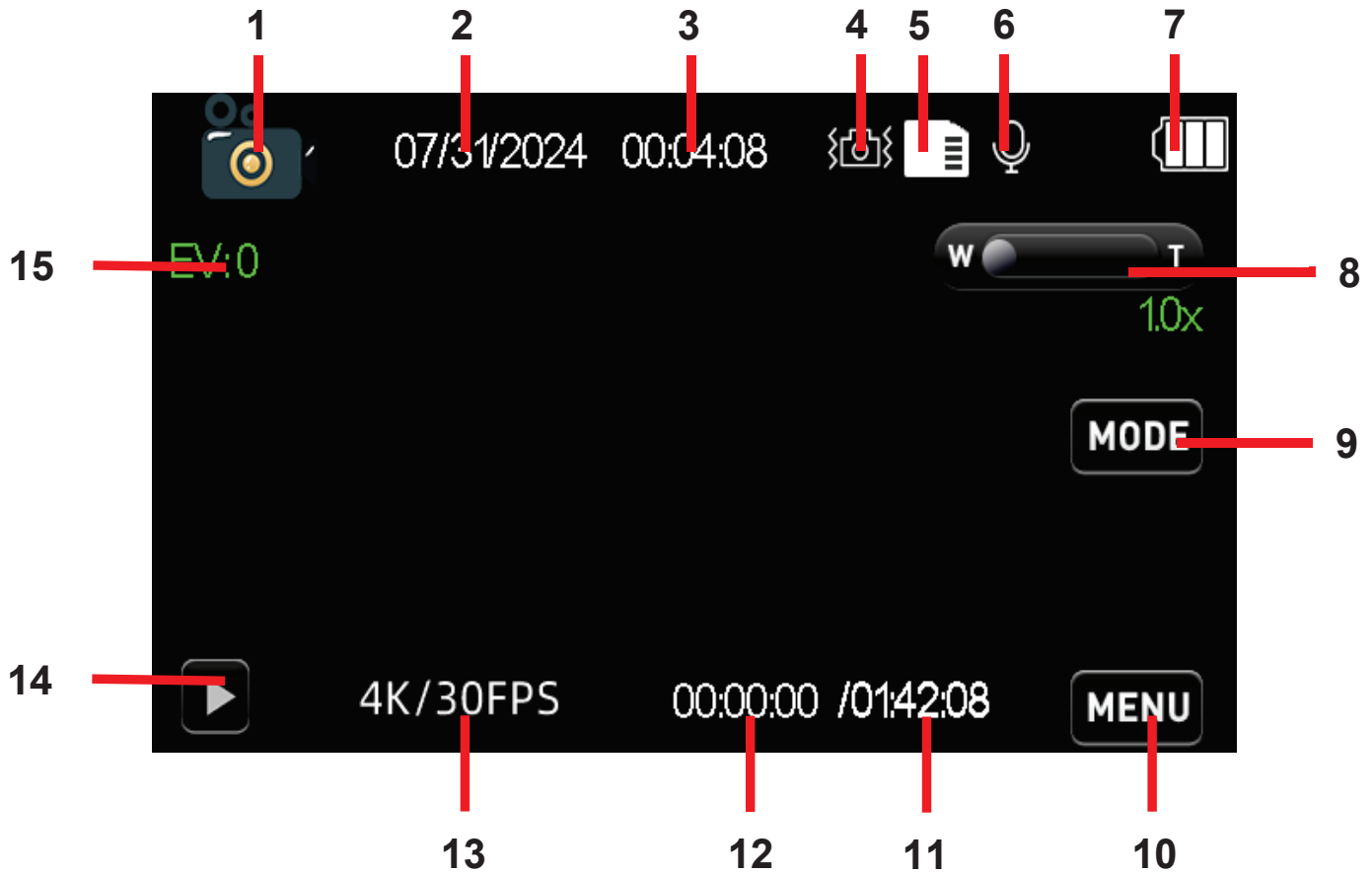
Will allow you to access the files on the inserted memory card via your computer.

PC Camera

Will allow the camcorder to function as a PC Camera/webcam.

Use the **UP** or **DOWN** buttons to select your desired mode and press the **OK** button to enter into the selected mode.

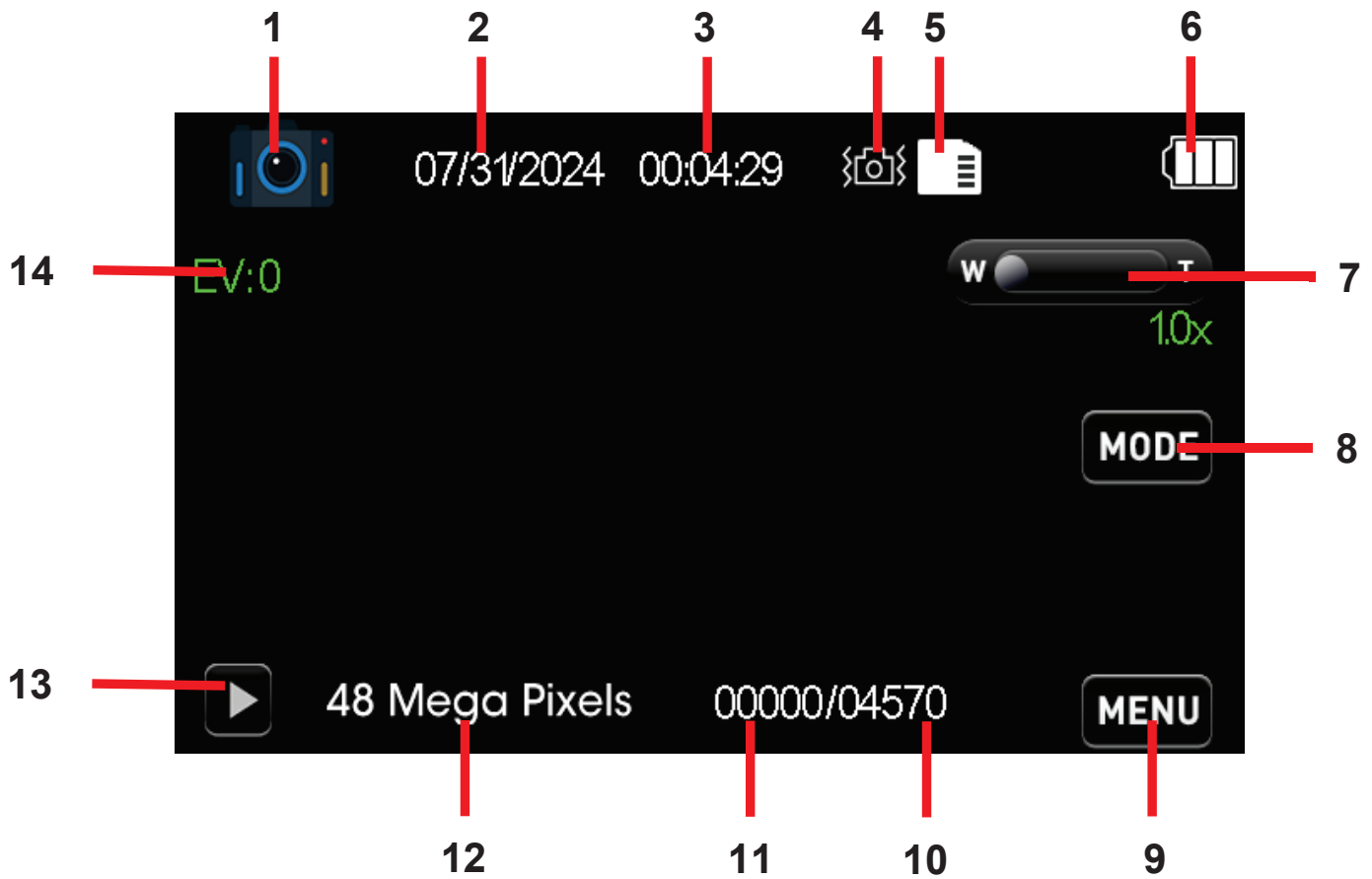
2.0 Video Capture Screen Icons



	Function:
1	Current Shooting Mode
2	Timestamp Date
3	Timestamp Time
4	Digital Image Stabilization Enabled
5	Memory Card Status
6	Microphone/Audio Recording Enabled
7	Battery Status
8	Zoom Bar and Value

	Function:
9	Mode Button (tap screen to enter)
10	Menu Button (tap screen to enter)
11	Recording Time Remaining on Memory Card
12	Recording Time Elapsed
13	Current Video Resolution
14	Playback Button (tap screen to enter)
15	Exposure Value Setting

2.1 Photo Capture Screen Icons



	Function:
1	Current Shooting Mode
2	Timestamp Date
3	Timestamp Time
4	Digital Image Stabilization Enabled
5	Memory Card Status
6	Battery Status
7	Zoom Bar and Value

	Function:
8	Mode Button (tap screen to enter)
9	Menu Button (tap screen to enter)
10	Photos Remaining on Memory Card
12	Total Photos Captured
13	Current Photo Resolution
14	Playback Button (tap screen to enter)
15	Exposure Value Setting

Capture

2.2 Capturing a Video

When you power on the camcorder, it's ready to go in Video mode by default. Just press the **VIDEO Record** button once to start recording your video clip instantly.

1. Hold the camcorder with both hands. Point the lens toward the object you want to record and then frame it with the LCD monitor.
2. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
3. Press the **VIDEO Record** button shown in the figure below. Once pressed, the camcorder will begin recording a video clip.



4. To pause recording, press the **PHOTO Capture** button. Pausing a recording will simply pause a recording to allow you to continue recording to the same original file. When resuming, it will resume recording to the same file. To resume recording, press the **PHOTO Capture** button again.



5. To stop recording, press the **VIDEO Record** button again. Each time you stop a recording, the camcorder will create a separate, new video file.

2.3 Capturing a Photo

When you power on the camcorder, it's ready to go in Video mode by default. To enter **PHOTO** mode, simply press the **PHOTO Capture** button to quickly switch modes.



1. Once you're in **PHOTO** mode hold the camcorder with both hands, being careful to not block the lens with fingers.
2. Point the lens toward the object you want to take a picture of, and then frame it with the LCD monitor.
3. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
4. Press the **PHOTO Capture** button to capture the photo. Your camcorder will emit a shutter sound to notify you that it has captured a photo.

NOTES:

The number of photos that can be captured at a particular resolution will be displayed at the bottom center of the screen.

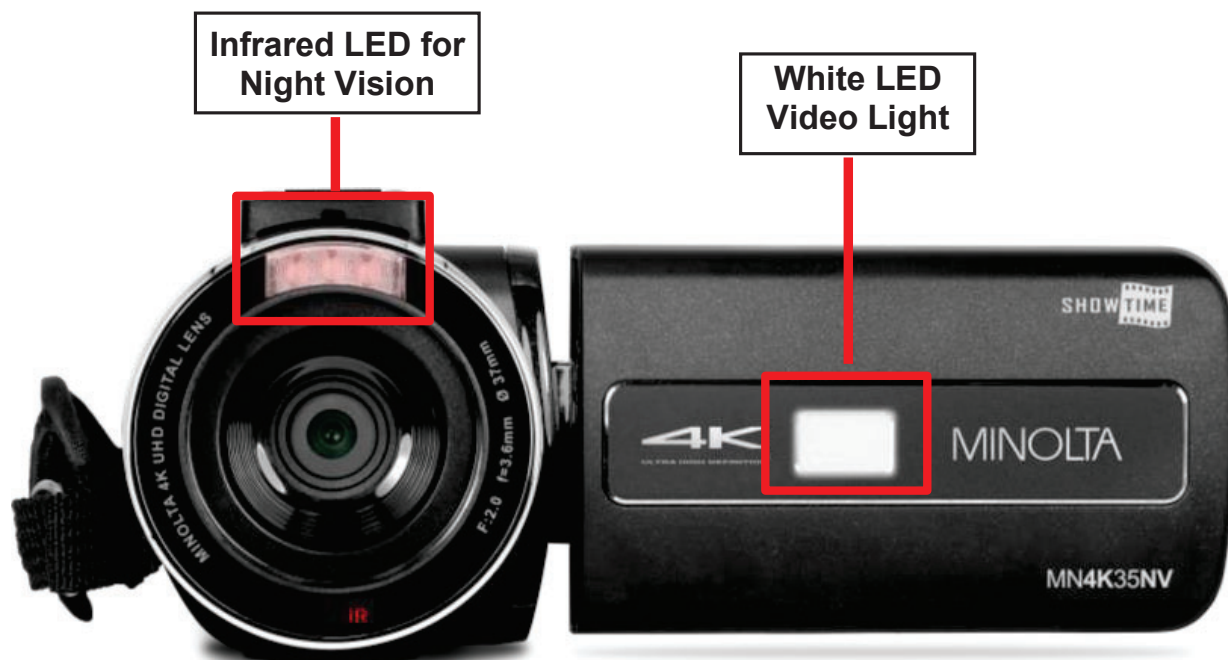
The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution setting, the lower the number of photos you are able to be save to the memory card. Before capturing any photos, you can select a preferred photo resolution within the settings menu.

Pressing the **Video Record** button while in **Photo** mode will instantly switch the camcorder back to **Video** mode.

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2.4 Using the LED Lighting

The MN4K35NV comes equipped with built-in supplemental lighting for any scene. The White LED Video Light is perfect for low-light environments, adding extra illumination when needed. For very dark or completely dark scenes, the Infrared LED Night Vision ensures clear recording. Note that all media recorded with the infrared LED enabled will be recorded in black and white only.



To enable a Lighting mode while in a shooting mode, press the **POWER / OK** button to cycle between the Infrared LED and White LED.



Only one lighting mode can be enabled at a time. The camcorder cannot use both the White LED and Infrared LED simultaneously.

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2.5 Using the Zoom Function

The MN4K35NV is equipped with an 18x digital zoom function. Digital zoom enlarges your image electronically by cropping and enlarging the central part of the photograph.

To operate the zoom function, push and hold the **T**(ele) button lever to zoom in closer to the subject, and push and hold the **W**(ide) button lever to zoom out away from the subject.



Shooting Screen with
Zoom Active

Minolta MN4K35NV

2.6 Accessory Attachments

The MN4K35NV supports many different accessory attachment capabilities such as lens filters, additional lighting, and external microphones. The front lens has a 37mm diameter threading for compatible filters and attachments, and the rear cover features a 3.5mm microphone input.



**37mm Lens
Rim Threading**



**3.5mm Microphone
Input Port**

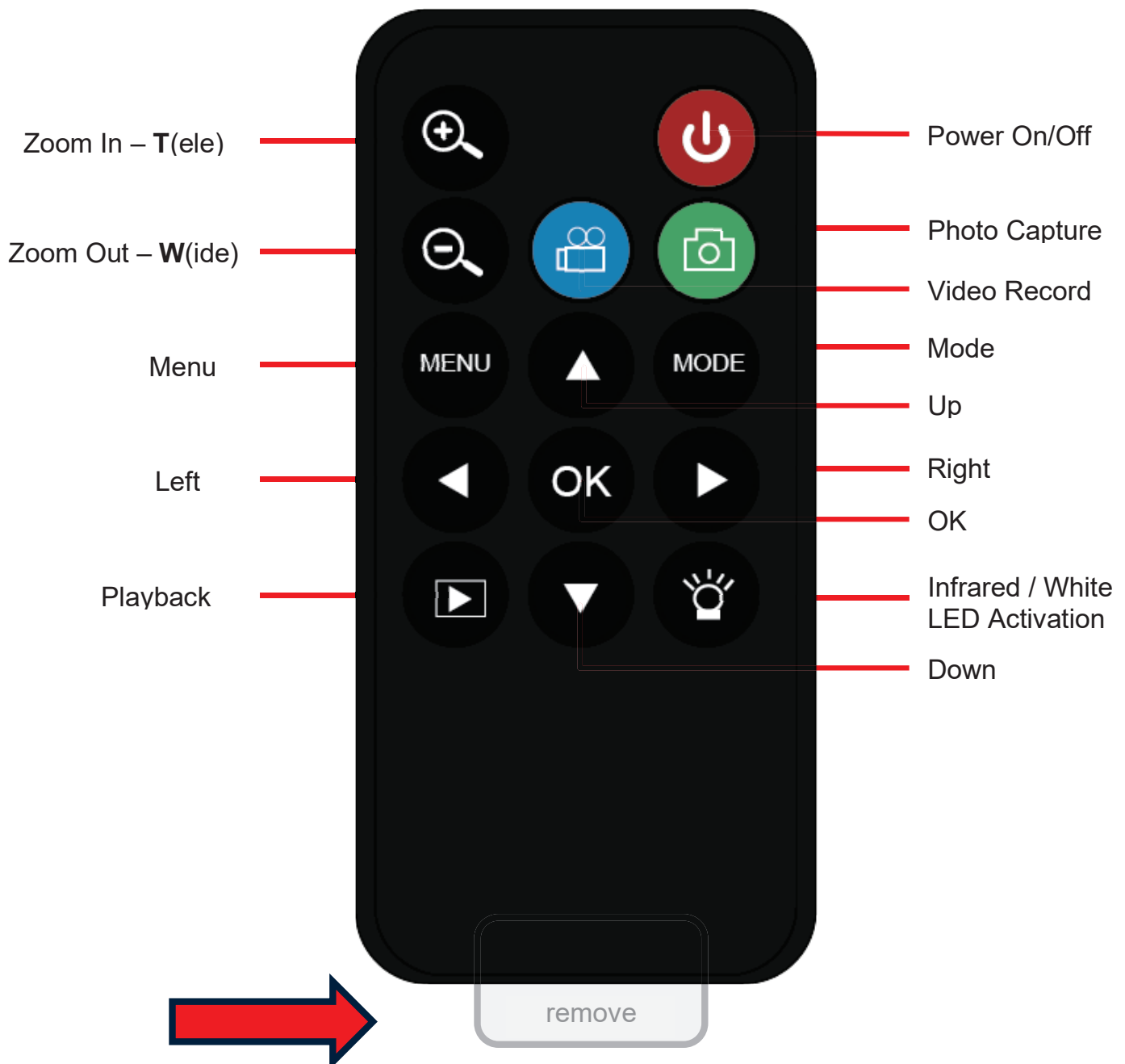
**Accessory
Shoe Mount**



2.7 Remote Control

The MN4K35NV includes a remote control for convenient operation from a distance. For best results, point the remote towards the receiver on the front of the camcorder. Ensure there are no objects between the remote and the camcorder, as they can block the signal. The maximum distance is ~30 feet.

NOTE: Before using the remote control, remove the battery tab from the bottom.



2.8 Camcorder Settings Menu Explanation

The settings menu adapts based on the current shooting mode of the camcorder. For example, when in **Photo** mode, the setting menu will only display the settings relevant to **Photo** mode. When in **Video** mode, the settings menu will only display the settings relevant to **Video** mode.

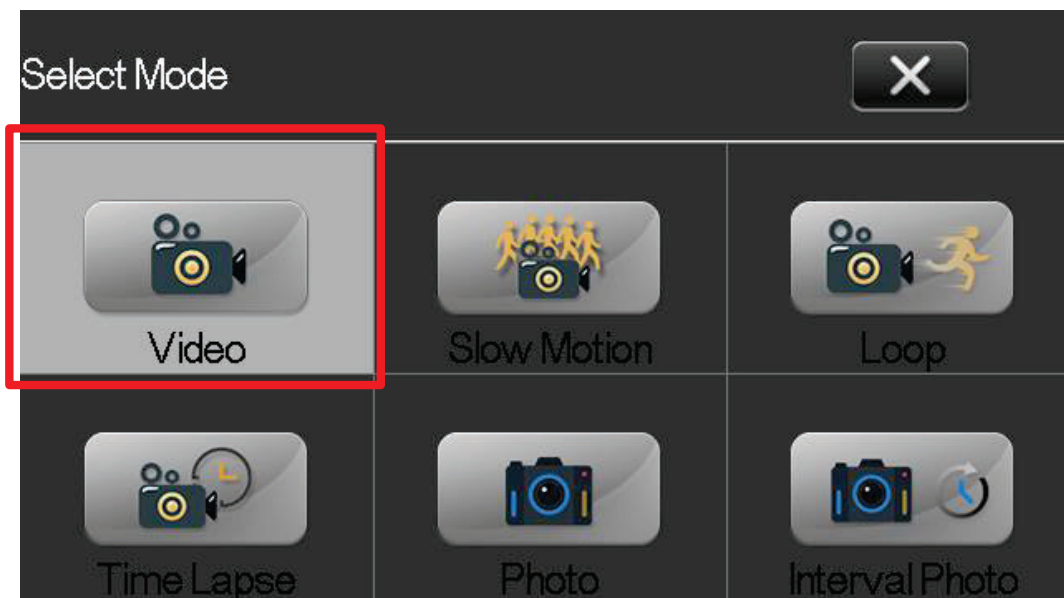
To access the settings menu, press the **MENU** button. Once in the menu, press the **UP, DOWN, LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

The layout of this User Manual will first explain a shooting mode and will then explain the settings menu for each shooting mode.

3.0 Video Capture Mode

Power the camcorder on and it's ready to go in Video mode by default. To confirm the camcorder is in **Video** mode, press the **MODE** button and select **Video** mode as shown in the screen below.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

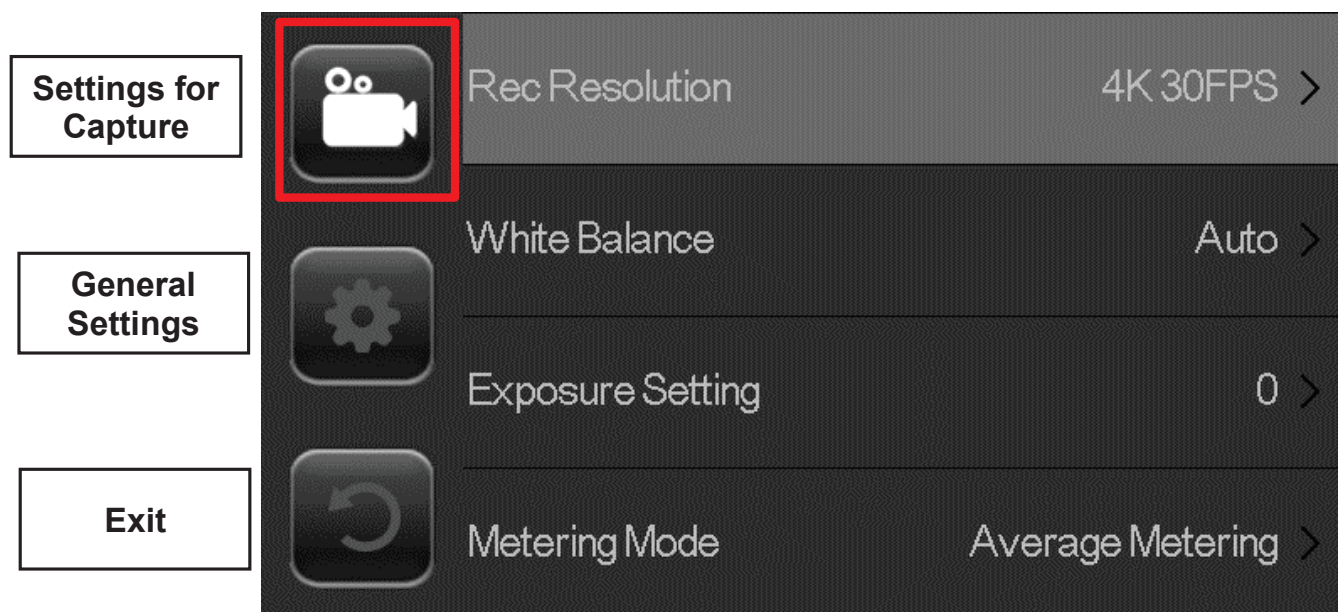


1. Hold the camcorder with both hands. Point the lens toward the object you want to take a recording of and then frame it with the LCD monitor.
2. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
3. Press the **VIDEO Record** button. The camcorder will begin recording a video clip.
4. To pause recording, press the **PHOTO Capture** button. Pausing a recording will simply pause a recording to allow you to continue recording to the same original file. When resuming, it will resume recording to the same file. To resume recording, press the **PHOTO Capture** button again.
5. To stop recording, press the **VIDEO Record** button again. Each time you stop a recording, the camcorder will create a separate, new video file.

3.1 Video Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

3.1.1 Rec Resolution

This menu sets the video resolution. The higher the resolution, the greater the video quality and the larger the file size of the video file.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Rec Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*4K 30FPS, 1080P 60FPS, 720P 120FPS*).
5. Press the **MENU** button to exit the settings menu.

3.1.2 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

3.1.3 Exposure Setting

This setting adjusts the frame brightness in your scene.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*-3, -2, -1, 0, +1, +2, +3*).
5. Press the **MENU** button to exit the settings menu.

3.1.4 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

3.1.5 Sharpness

This menu adjusts the visible detail of a scene.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

3.1.6 Video Quality

This setting allows to set the overall quality of the video file. A higher quality will generate a larger video file with more vivid detail.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Video Quality*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

3.1.7 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*ISO*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).

5. Press the **MENU** button to exit the settings menu.

3.1.8 Time Watermark

This setting allows you to imprint a date & time onto your captured video files. Once a video file is captured with the imprint, the imprint cannot be removed.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Time Watermark*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

3.1.9 Rec Audio

This setting allows you to enable or disable audio recording while capturing a video.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Rec Audio*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

3.1.10 Digital Image Stabilization

This setting enables capture in high speed and low-light by electronically minimizing motion blur and reducing camera shake.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Digital Image Stabilization*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

4.0 Slow Motion Video Capture Mode

Videos recorded in slow motion are recorded at a much higher frames per second and when played back, show movement at a much slower rate.

To enter **Slow Motion** Video Capture mode, press the **MODE** button and select **Slow Motion**.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

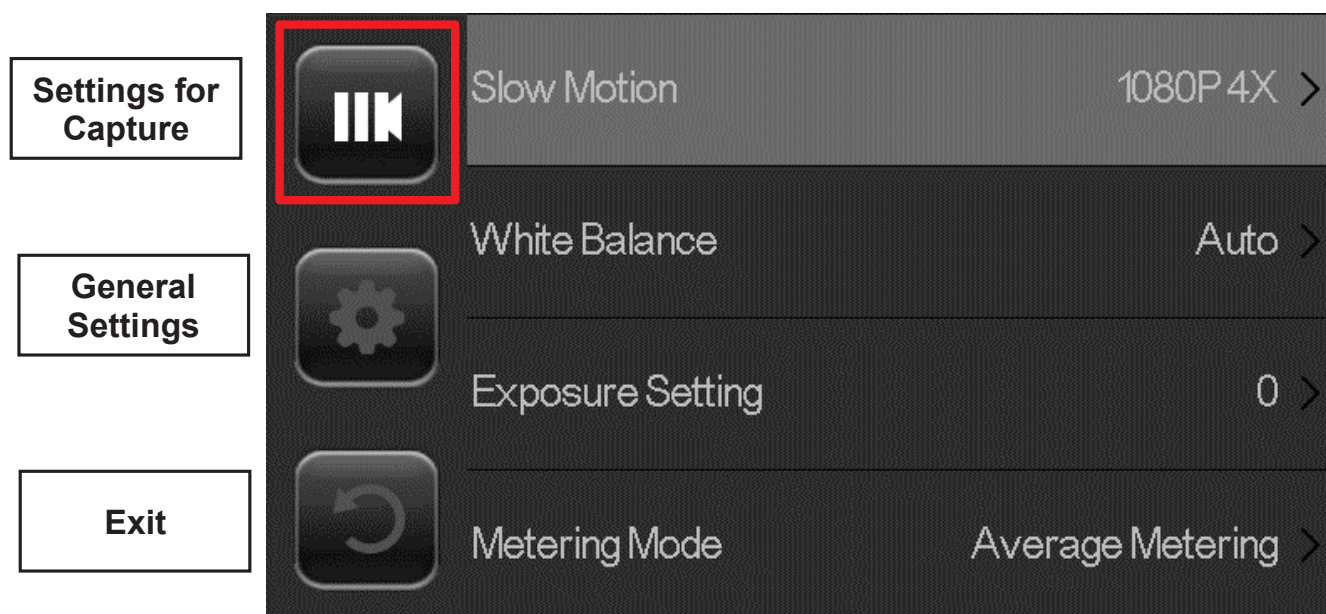


1. Hold the camcorder with both hands. Point the lens toward the object you want to take a recording of and then frame it with the LCD monitor.
2. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
3. Press the **VIDEO Record** button. The camcorder will begin recording a video clip.
4. To pause recording, press the **PHOTO Capture** button. Pausing a recording will simply pause a recording to allow you to continue recording to the same original file. When resuming, it will resume recording to the same file. To resume recording, press the **PHOTO Capture** button again.
5. To stop recording, press the **VIDEO Record** button again. Each time you stop a recording, the camcorder will create a separate, new video file.

4.1 Slow Motion Video Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

4.1.1 Slow Motion

This menu allows you to set the rate that the slow motion video is recorded in. If you select “1080P 4X”, your video will playback at 1/4 speed and if you choose “1080P 2X”, then your video will playback at 1/2 speed.

1. In Slow Motion Mode press the **MENU** button.
2. Select the Slow Motion icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select ‘*Slow Motion*’ using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*1080P 4X*, *1080P 2X*).
5. Press the **MENU** button to exit the settings menu.

4.1.2 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Slow Motion Mode press the **MENU** button.
2. Select the Slow Motion icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select ‘*White Balance*’ using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto*, *Sunny*, *Cloudy*, *Incandescent*, *Florescence*).
5. Press the **MENU** button to exit the settings menu.

4.1.3 Exposure Setting

This menu adjusts the frame brightness in your scene.

1. In Slow Motion Mode press the **MENU** button.
2. Select the Slow Motion icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select ‘*Exposure Setting*’ using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*-3*, *-2*, *-1*, *0*, *+1*, *+2*, *+3*).
5. Press the **MENU** button to exit the settings menu.

4.1.4 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Slow Motion Mode press the **MENU** button.
2. Select the Slow Motion icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

4.1.5 Sharpness

This menu adjusts the visible detail of a scene.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

4.1.6 Video Quality

This setting allows to set the overall quality of the video file. A higher quality will generate a larger video file with more vivid detail.

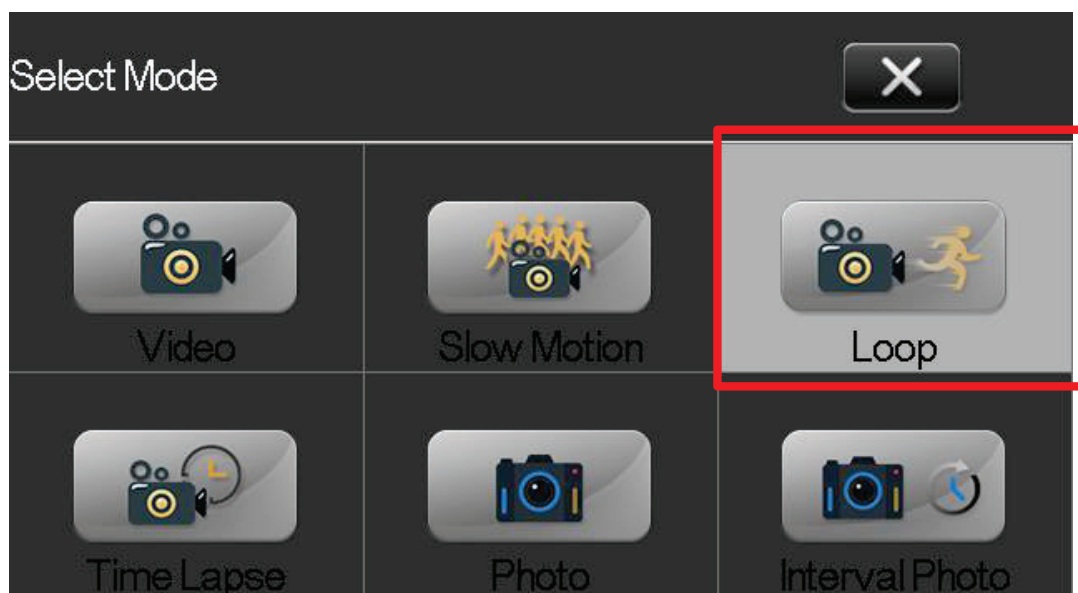
1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Video Quality*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

5.0 Loop Video Capture Mode

Loop Recording is a video recording mode in which you can set a maximum duration for each video clip recorded. Once you press the **VIDEO** Record button, the camcorder will continue recording up until the preset configured duration and will then automatically begin recording a new video clip. This cycle will continue until you stop recording, or the memory card reaches maximum capacity.

To enter **Loop** Video Capture mode, press the **MODE** button and select **Loop**.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

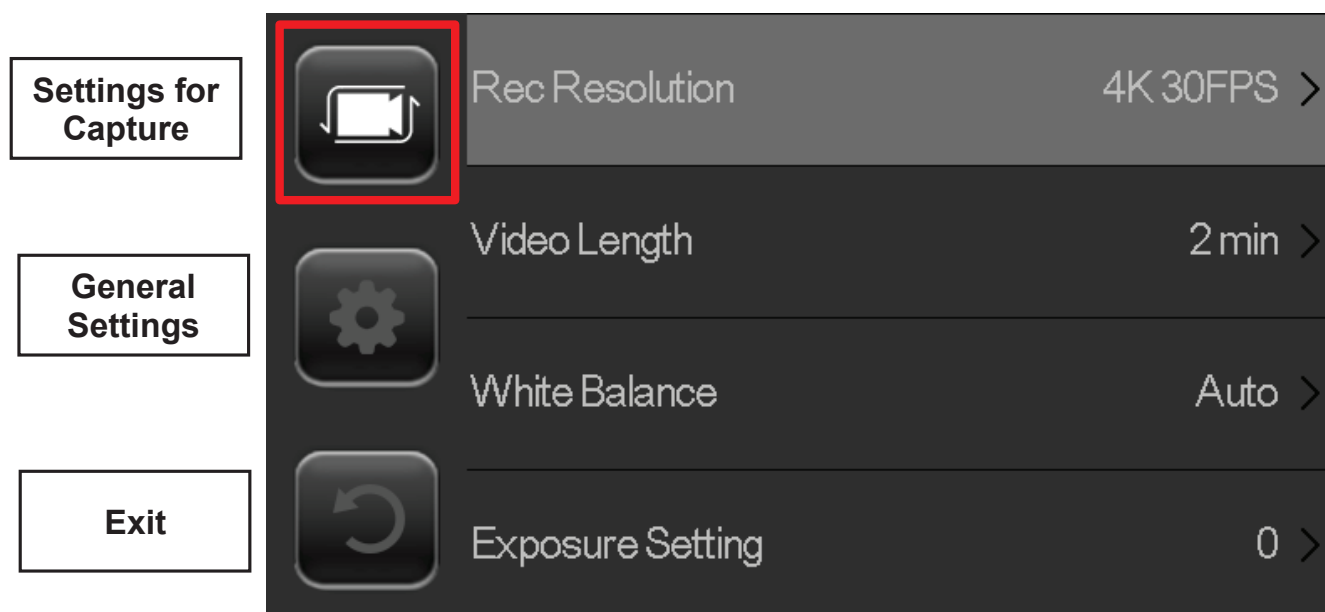


1. Hold the camcorder with both hands. Point the lens toward the object you want to take a recording of and then frame it with the LCD monitor.
2. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
3. Press the **VIDEO Record** button. The camcorder will begin recording a video clip.
4. To pause recording, press the **PHOTO Capture** button. Pausing a recording will simply pause a recording to allow you to continue recording to the same original file. When resuming, it will resume recording to the same file. To resume recording, press the **PHOTO Capture** button again.
5. To stop recording, press the **VIDEO Record** button again. Each time you stop a recording, the camcorder will create a separate, new video file.

5.1 Loop Video Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

5.1.1 Rec Resolution

This menu sets the video resolution. The higher the resolution, the greater the video quality and the larger the file size of the video file.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Rec Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*4K 30FPS, 1080P 60FPS, 720P 120FPS*).
5. Press the **MENU** button to exit the settings menu.

5.1.2 Video Length

This menu sets the maximum video duration of each captured video in **Loop** mode only.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Video Length*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*2 min, 3 min, 5 min*).
5. Press the **MENU** button to exit the settings menu.

5.1.3 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

5.1.4 Exposure Setting

This menu adjusts the frame brightness in your scene.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.

3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (-3, -2, -1, 0, +1, +2, +3).
5. Press the **MENU** button to exit the settings menu.

5.1.5 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

5.1.6 Sharpness

This function adjusts the visible detail of a scene.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

5.1.7 Video Quality

This setting allows to set the overall quality of the video file. A higher quality will generate a larger video file with more vivid detail.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Video Quality*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

5.1.8 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*ISO*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).
5. Press the **MENU** button to exit the settings menu.

5.1.9 Time Watermark

This setting allows you to imprint a date & time onto your captured video files. Once a video file is captured with the imprint, the imprint cannot be removed.

1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Time Watermark*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

5.1.10 Rec Audio

This setting allows you to enable or disable audio recording while capturing a video.

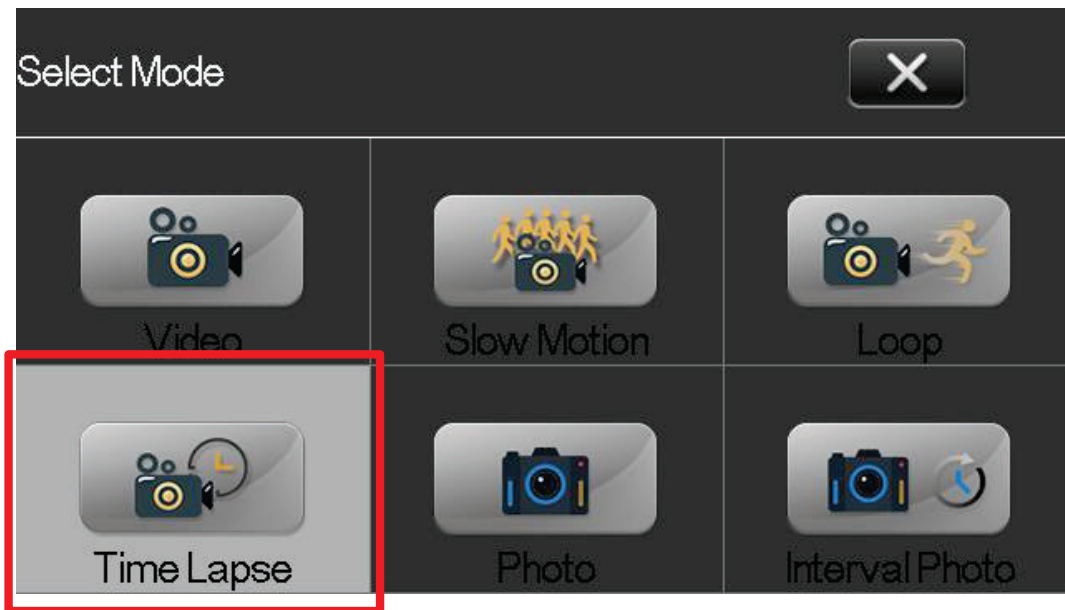
1. In Loop Mode press the **MENU** button.
2. Select the Loop icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Rec Audio*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

6.0 Time Lapse Video Capture Mode

Time-lapse photography is a photographic technique in which the frequency at which photo frames are captured (the frame rate) is much lower than the frequency used to view the sequence. When played at normal speed, time appears to be moving faster and thus “lapsing”. For example, an image of a scene may be captured at 1 frame per second but then played back at 30 frames per second; the result is an apparent 30 times speed increase. This mode will capture a sequence of frames at a set interval to record changes that take place slowly over time. When the frames are played back as a video at normal speed, the action seems much faster.

Power the camcorder on. To enter **Time Lapse** Video Capture mode, press the **MODE** button and select **Time Lapse**.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

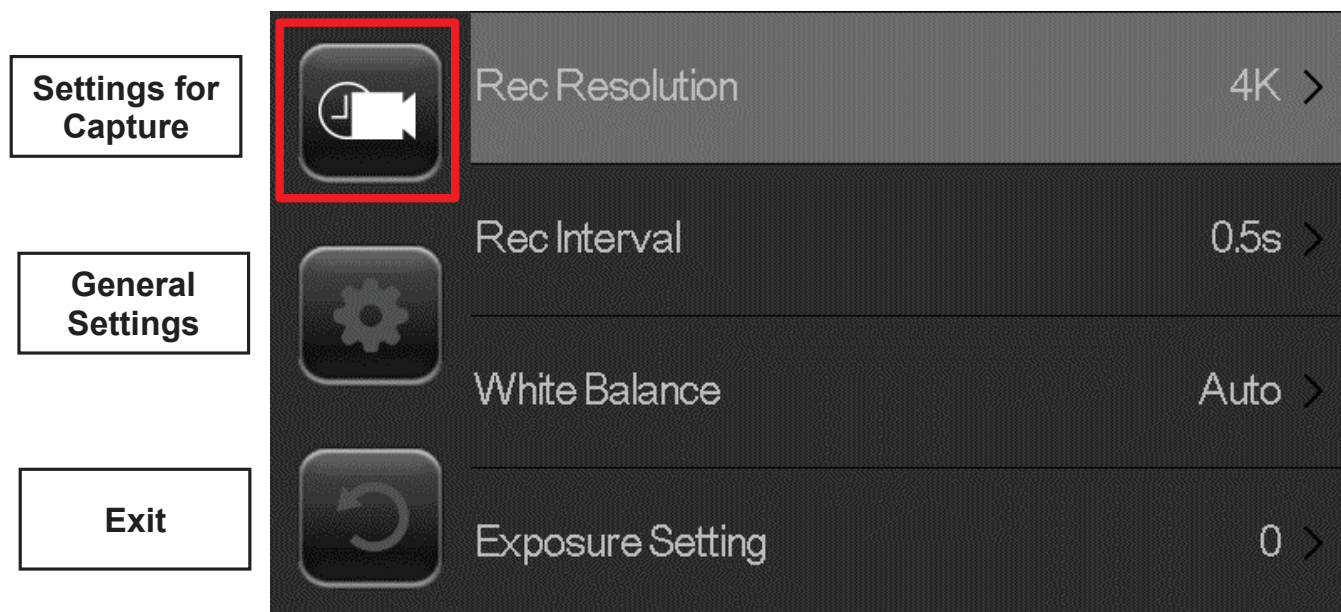


1. Hold the camcorder with both hands. Point the lens toward the object you want to take a recording of and then frame it with the LCD monitor.
2. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
3. Press the **VIDEO Record** button. The camcorder will begin recording a video clip.
4. To pause recording, press the **PHOTO Capture** button. Pausing a recording will simply pause a recording to allow you to continue recording to the same original file. When resuming, it will resume recording to the same file. To resume recording, press the **PHOTO Capture** button again.
5. To stop recording, press the **VIDEO Record** button again. Each time you stop a recording, the camcorder will create a separate, new video file.

6.1 Time Lapse Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

6.1.1 Rec Resolution

This menu sets the video resolution. The higher the resolution, the greater the video quality and the larger the file size of the video file.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Rec Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*4K, 2.7K, 1080P, 720P*).
5. Press the **MENU** button to exit the settings menu.

6.1.2 Rec Interval

This setting allows you to set the amount of time in between image captures for the time-lapse program. For example, a setting of '2 Seconds' will set the camcorder to capture an image every 2 seconds during the duration of recording.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Rec Interval*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*0.5s, 1s, 2s, 5s, 10s, 20s, 60s*).
5. Press the **MENU** button to exit the settings menu.

NOTE: By selecting '10 Seconds' the camcorder will capture a single frame every 10 seconds and create a video combining all of the captured images. Reference the table below for the length of time it will take to record 1 second of video for each option.

Interval Duration Option	Length of time to record 1 second of video
0.5 Seconds	15 Seconds
1 Second	30 Seconds
2 Seconds	60 Seconds
5 Seconds	150 Seconds
10 Seconds	300 Seconds
30 Seconds	900 Seconds
60 Seconds	1,800 Seconds

6.1.3 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

6.1.4 Exposure Setting

This function adjusts the frame brightness in your scene.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (-3, -2, -1, 0, +1, +2, +3).
5. Press the **MENU** button to exit the settings menu.

6.1.5 Video Length

This setting allows you to set the length of each time lapse video.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Video Length*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Unlimited, 6 sec., 8 sec., 10 sec., 20 sec., 30 sec., 60 sec., 120 sec.*).
5. Press the **MENU** button to exit the settings menu.

6.1.6 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Time Lapse Mode press the **MENU** button.

2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

6.1.7 Sharpness

This menu adjusts the visible detail of a scene.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

6.1.8 Video Quality

This setting allows to set the overall quality of the video file. A higher quality will generate a larger video file with more vivid detail.

1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Video Quality*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

6.1.9 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

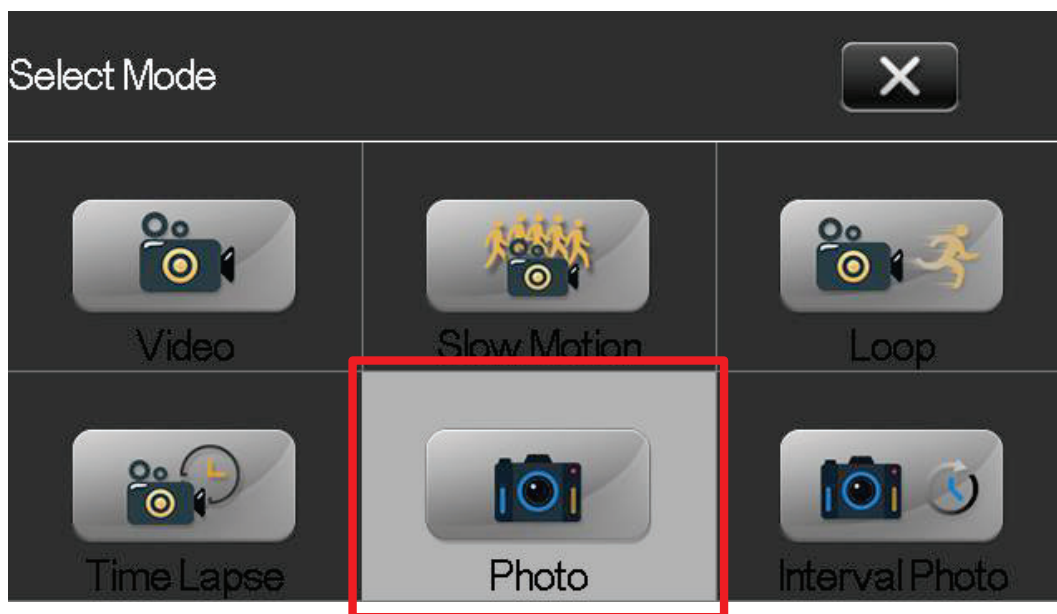
1. In Time Lapse Mode press the **MENU** button.
2. Select the Time Lapse icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*ISO*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).
5. Press the **MENU** button to exit the settings menu.

7.0 Photo Capture Mode

In addition to video capture, the MN4K35NV also features a photo capture mode, allowing you to take still photographs just like a standard digital camera.

Power the camcorder on. To enter **Photo** Capture mode, press the **MODE** button and select **Photo**. Another way to quickly enter **Photo** mode from another mode is to simply press the **PHOTO Capture** button and it will jump to **Photo** mode.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.



1. Once you're in **PHOTO** mode hold the camcorder with both hands, being careful to not block the lens with fingers.
2. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor.
3. Use the **ZOOM** lever to select **T(ele)** or **W(ide)** positions to zoom in or out of your subject.
4. Press the **PHOTO Capture** button to capture the photo. Your camcorder will emit a shutter sound to notify you that it has captured a photo.

NOTES:

The number of photos that can be captured at a particular resolution will be displayed at the bottom center of the screen.

The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution setting, the lower the number of photos you are able to be save to the memory card. Before capturing any photos, you can select a preferred photo resolution within the settings menu.

Pressing the **Video Record** button while in **Photo** mode will instantly switch the camcorder back to **Video** mode.



7.1 Photo Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

7.1.1 Photo Resolution

This menu sets the photo resolution. The higher the resolution, the greater the photo quality and the larger the file size of the photo.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Photo Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*48 Mega Pixels, 30 Mega Pixels, 20 Mega Pixels, 8 Mega Pixels*).
5. Press the **MENU** button to exit the settings menu.

7.1.2 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

7.1.3 Exposure Setting

This menu adjusts the frame brightness in your scene.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*-3, -2, -1, 0, +1, +2, +3*).
5. Press the **MENU** button to exit the settings menu.

7.1.4 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center

of the LCD and the Multi setting measures the light at several points on the screen.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

7.1.5 Sharpness

This function adjusts the visible detail of a scene.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

7.1.6 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*ISO*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).
5. Press the **MENU** button to exit the settings menu.

7.1.7 Time Watermark

This setting allows you to imprint a date & time onto your captured photos. Once a photo file is captured with the imprint, the imprint cannot be removed.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Time Watermark*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.

4. Press the **MENU** button to exit the settings menu.

7.1.8 Digital Image Stabilization

This setting enables capture in high speed and low-light by electronically minimizing motion blur and reducing camera shake.

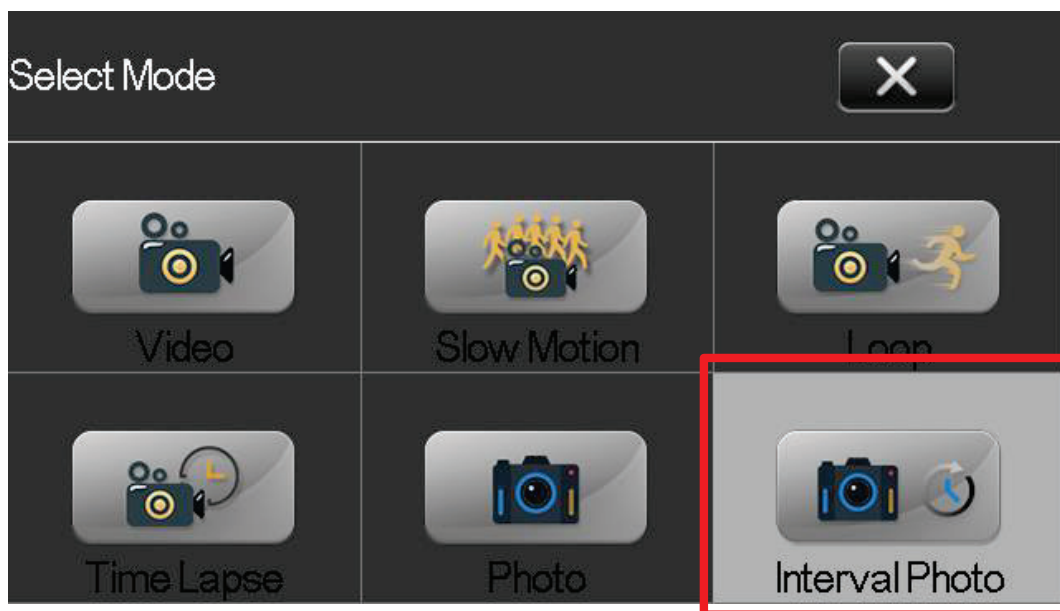
1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Digital Image Stabilization*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

8.0 Interval Photo Capture Mode

Interval Photo mode will allow the camcorder to automatically capture a single photo at a set interval until manually stopped.

Power the camcorder on. To enter **Interval Photo** Capture mode, press the **MODE** button and select **Interval Photo**.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.



1. Once you're in **Interval Photo** mode hold the camcorder with both hands, being careful to not block the lens with fingers.
2. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor.
3. Use the **ZOOM** lever to select **T(ele)** or **W(ide)** positions to zoom in or out of your subject.
4. Press the **PHOTO Capture** button to capture the photo. Your camcorder will emit a shutter sound to notify you that it has captured a photo. The camcorder will continue to capture photos at the set Photo Interval setting until you manually stop the program by pressing the **PHOTO Capture** button again.



NOTES:

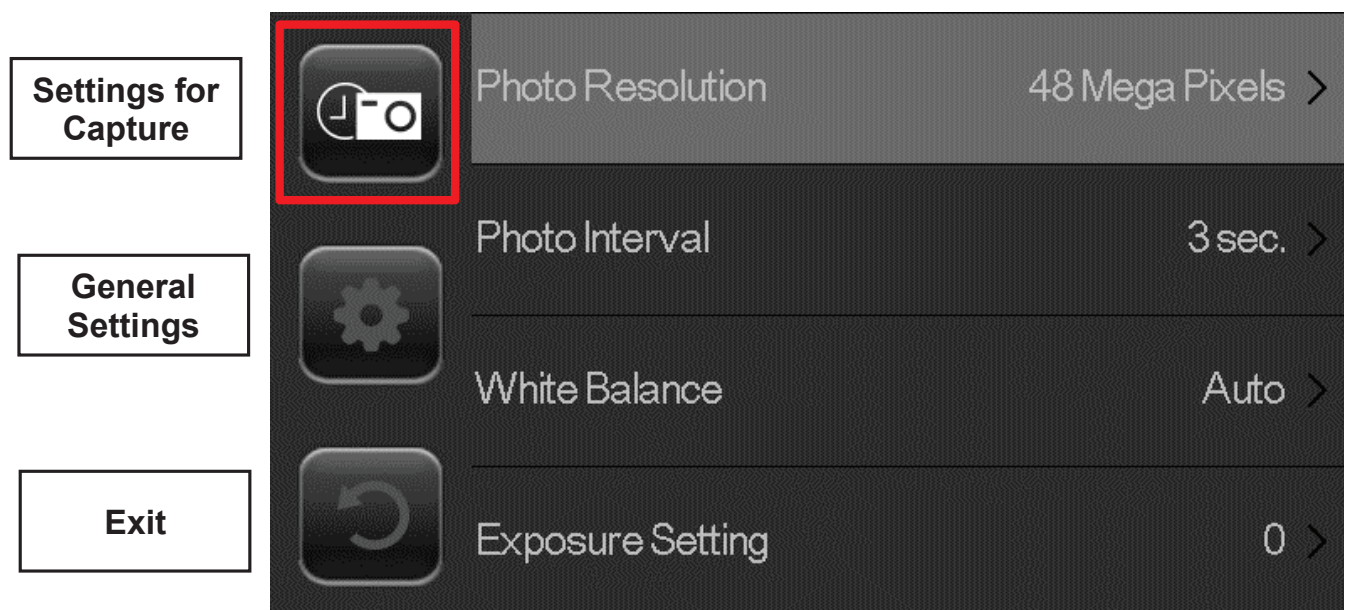
The number of photos that can be captured at a particular resolution will be displayed at the bottom center of the screen.

The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution setting, the lower the number of photos you are able to save to the memory card. Before capturing any photos, you can select a preferred photo resolution within the settings menu.

8.1 Interval Photo Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

8.1.1 Photo Resolution

This menu sets the photo resolution. The higher the resolution, the greater the photo quality and the larger the file size of the photo.

1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Photo Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*48 Mega Pixels, 30 Mega Pixels, 20 Mega Pixels, 8 Mega Pixels*).
5. Press the **MENU** button to exit the settings menu.

8.1.2 Photo Interval

This menu will allow you set the amount of time between each photo. For example, a setting of 10 sec. will set the camcorder to capture a photo every 10 seconds until stopped.

1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Photo Interval*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*3 sec., 10 sec., 15 sec., 20 sec., 30 sec.*).
5. Press the **MENU** button to exit the settings menu.

8.1.3 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

8.1.4 Exposure Setting

This menu adjusts the frame brightness in your scene.

1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (-3, -2, -1, 0, +1, +2, +3).
5. Press the **MENU** button to exit the settings menu.

8.1.5 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

8.1.6 Sharpness

This menu adjusts the visible detail of a scene.

1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

8.1.7 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

1. In Interval Photo Mode press the **MENU** button.

2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select 'ISO' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).
5. Press the **MENU** button to exit the settings menu.

8.1.8 Time Watermark

This setting allows you to imprint a date & time onto your captured photos. Once a photo file is captured with the imprint, the imprint cannot be removed.

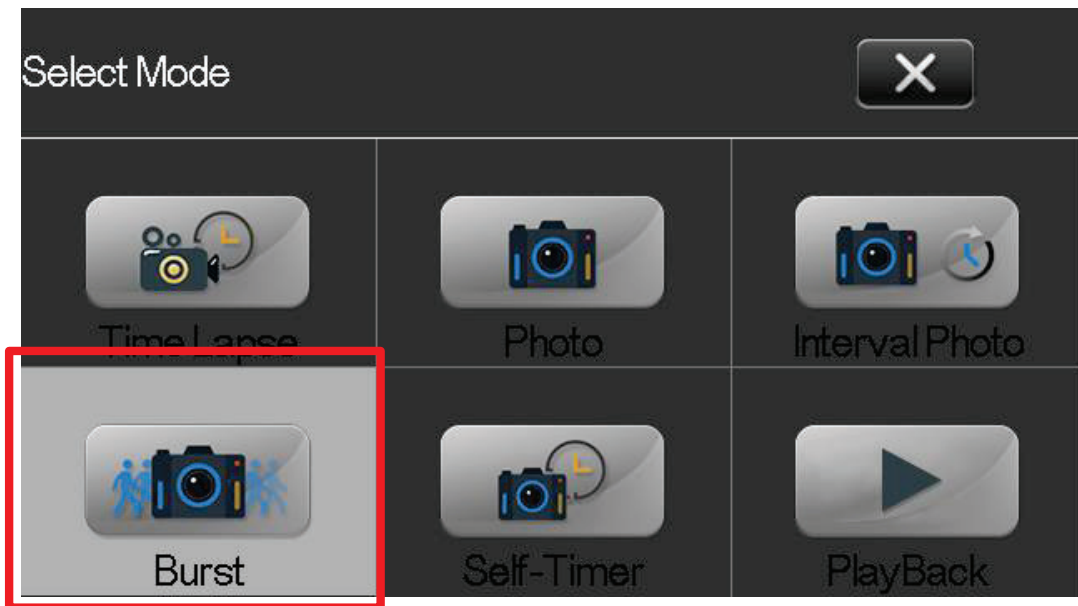
1. In Interval Photo Mode press the **MENU** button.
2. Select the Interval Photo icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select 'Time Watermark' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

9.0 Burst Photo Capture Mode

Burst mode automatically captures a series of photos in quick succession based on the settings defined in the menu.

Power the camcorder on. To enter **Burst** Photo Capture mode, press the **MODE** button and select **Burst** Photo.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.



1. Once you're in **Burst** mode hold the camcorder with both hands, being careful to not block the lens with fingers.
2. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor.
3. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
4. Press the **PHOTO Capture** button to capture the photo. Your camcorder will emit a shutter sound to notify you that it has captured a photo. The camcorder will capture photos quickly in a 'burst'.



NOTES:

The number of photos that can be captured at a particular resolution will be displayed at the bottom center of the screen.

The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution setting, the lower the number of photos you are able to save to the memory card. Before capturing any photos, you can select a preferred photo resolution within the settings menu.

9.1 Burst Photo Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

9.1.1 Photo Resolution

This menu sets the photo resolution. The higher the resolution, the greater the photo quality and the larger the file size of the photo.

1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Photo Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*48 Mega Pixels, 30 Mega Pixels, 20 Mega Pixels, 8 Mega Pixels*).
5. Press the **MENU** button to exit the settings menu.

9.1.2 Photo Frequency

This setting will allow you set how many photos are captured in sequence with each shutter button press. For example, a setting of 5P/s will capture 5 photos per second in a quick burst.

1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Photo Frequency*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*3P/s, 5P/s, 10P/s*).
5. Press the **MENU** button to exit the settings menu.

9.1.3 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

9.1.4 Exposure Setting

This menu adjusts the frame brightness in your scene.

1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (-3, -2, -1, 0, +1, +2, +3).
5. Press the **MENU** button to exit the settings menu.

9.1.5 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

9.1.6 Sharpness

This menu adjusts the visible detail of a scene.

1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

9.1.7 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

1. In Burst Mode press the **MENU** button.

2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*ISO*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).
5. Press the **MENU** button to exit the settings menu.

9.1.8 Time Watermark

This setting allows you to imprint a date & time onto your captured photos. Once a photo file is captured with the imprint, the imprint cannot be removed.

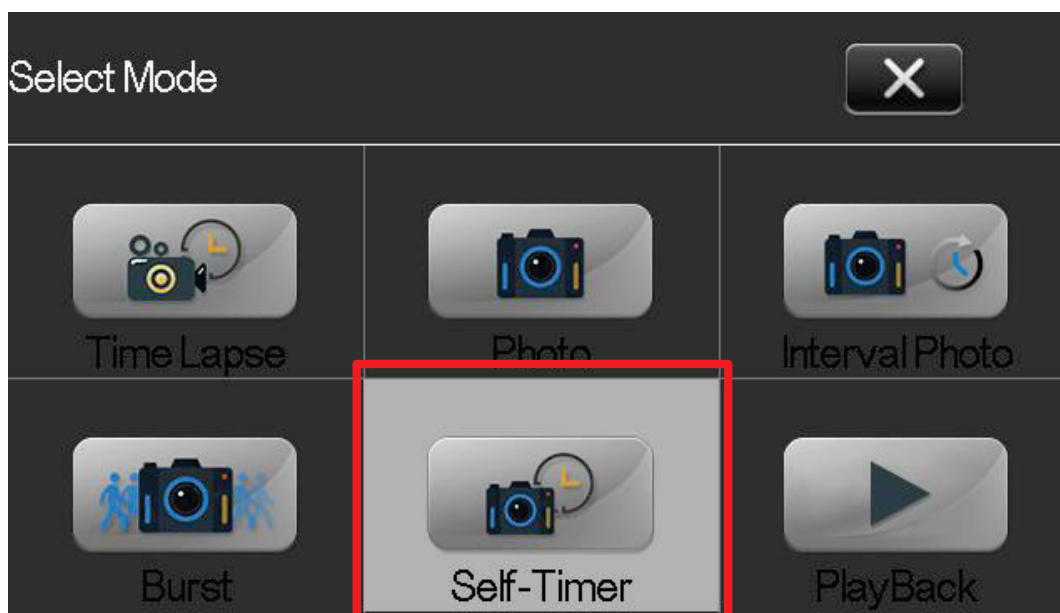
1. In Burst Mode press the **MENU** button.
2. Select the Burst icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Time Watermark*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

10.0 Self-Timer Photo Capture Mode

Self-Timer mode is an automatic shooting mode that counts down before capturing a photo.

Power the camcorder on. To enter **Self-Timer** Photo Capture mode, press the **MODE** button and select **Self-Timer** Photo.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.



1. Once you're in **Self-Timer** mode hold the camcorder with both hands, being careful to not block the lens with fingers.
2. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor.
3. Use the **ZOOM** lever to select **T**(ele) or **W**(ide) positions to zoom in or out of your subject.
4. Press the **PHOTO Capture** button to capture the photo. The camcorder will countdown a timer based on the selected setting and then capture a single photo. The camcorder will emit a shutter sound to notify you that it has captured a photo.



NOTES:

The number of photos that can be captured at a particular resolution will be displayed at the bottom center of the screen.

The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution setting, the lower the number of photos you are able to save to the memory card. Before capturing any photos, you can select a preferred photo resolution within the settings menu.

10.1 Self-Timer Photo Capture Settings Menu

The settings menu adapts based on the current shooting mode of the camcorder. To access the settings menu, press the **MENU** button. Once in the menu, press the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe on the screen, just like you would on a smartphone or tablet.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu. Press the **MENU** button to enter the settings menu.



To cycle between the submenu icons, press the **MODE** button. You can also tap any of the icons using the touchscreen to quickly jump to that icon's menu.

To Navigate the settings menu, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button.

10.1.1 Photo Resolution

This menu sets the photo resolution. The higher the resolution, the greater the photo quality and the larger the file size of the photo.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Photo Resolution*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*48 Mega Pixels, 30 Mega Pixels, 20 Mega Pixels, 8 Mega Pixels*).
5. Press the **MENU** button to exit the settings menu.

10.1.2 Countdown

This setting will allow you set the countdown timer for which the camcorder will wait before capturing a photo with each shutter button press. For example, a setting of 5 sec. will set the camcorder to countdown 5 seconds before capturing a photo in **Self-Timer** mode.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Countdown*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected resolution (*3 sec., 5 sec., 10 sec., 15 sec.*).
5. Press the **MENU** button to exit the settings menu.

10.1.3 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame. If you are unsure which setting suits best, select Auto and the camcorder will adjust the White Balance as needed depending on the scene and shot.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*White Balance*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, Sunny, Cloudy, Incandescent, Florescence*).
5. Press the **MENU** button to exit the settings menu.

10.1.4 Exposure Setting

This menu adjusts the frame brightness in your scene.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Exposure Setting*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (-3, -2, -1, 0, +1, +2, +3).
5. Press the **MENU** button to exit the settings menu.

10.1.5 Metering Mode

Metering mode refers to the way in which a camera determines the appropriate exposure (quantity of light reaching the camera lens). Spot metering will only base the exposure setting on a very small area of the scene. Center metering will use the light from the center of the LCD and the Multi setting measures the light at several points on the screen.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Metering Mode*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Average Metering, Center Metering, Spot Metering, Matrix Metering*).
5. Press the **MENU** button to exit the settings menu.

10.1.6 Sharpness

This menu adjusts the visible detail of a scene.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Sharpness*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Low, Middle, High*).
5. Press the **MENU** button to exit the settings menu.

10.1.7 ISO

This menu adjusts the light sensitivity in your image. If you are unsure which setting suits best, select Auto and the camcorder will adjust the ISO as needed depending on the scene and shot.

1. In Self-Timer Mode press the **MENU** button.

2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*ISO*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Auto, 100, 200, 400, 800, 1600, 3200, 6400*).
5. Press the **MENU** button to exit the settings menu.

10.1.8 Time Watermark

This setting allows you to imprint a date & time onto your captured photos. Once a photo file is captured with the imprint, the imprint cannot be removed.

1. In Self-Timer Mode press the **MENU** button.
2. Select the Self-Timer icon on the top of the left side of the screen. You may also tap the icon using the touchscreen.
3. Select '*Time Watermark*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

11.0 Playback Mode

Playback mode will allow you to review all of your captured videos and photos. To enter **Playback** mode, press the **MODE** button and select **Playback**.

To scroll between all the available modes, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate and press the **POWER/OK** button to confirm a selection. Alternatively, you can use the touchscreen to navigate and enter a mode. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.

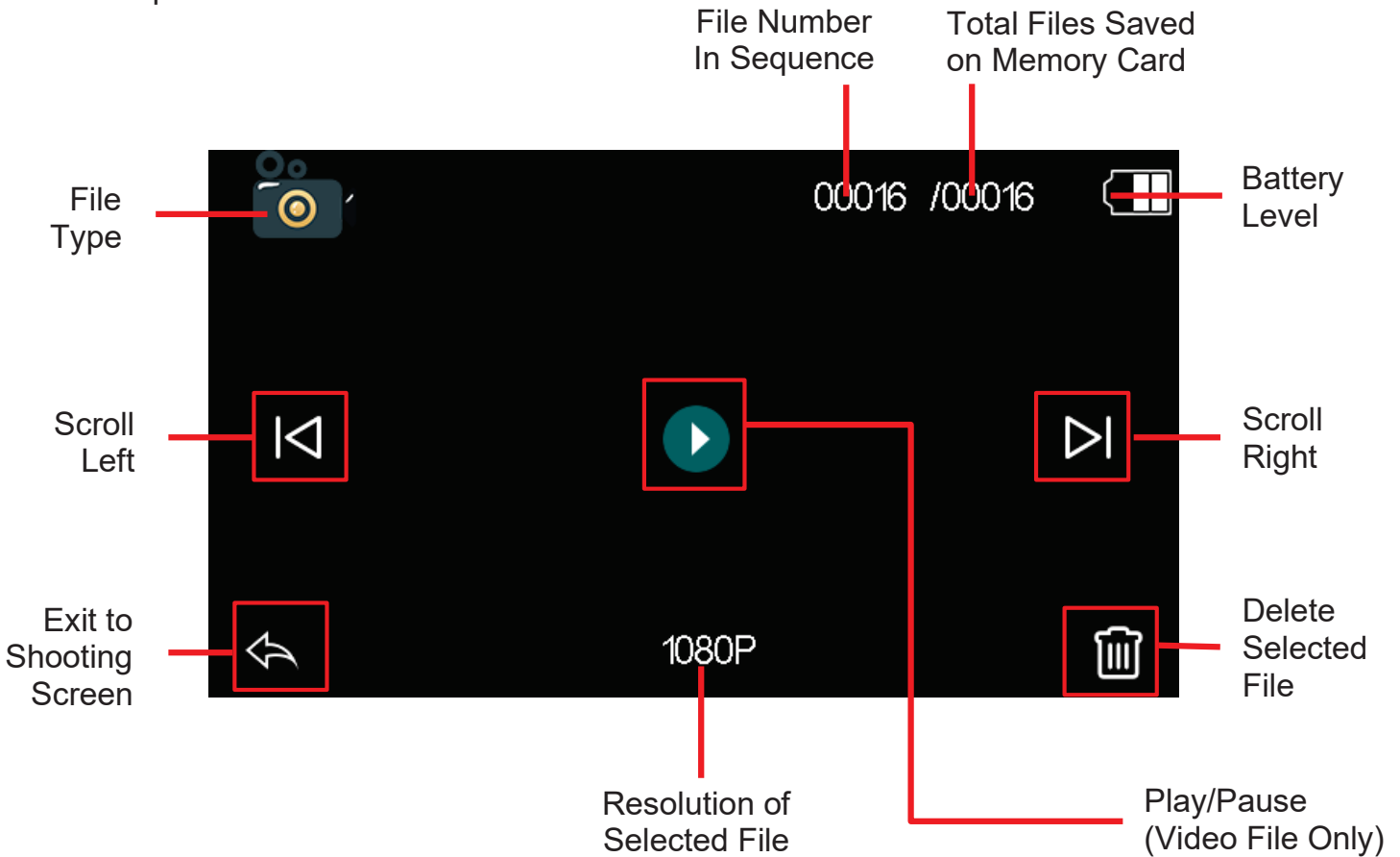


From any shooting mode, you may also use the touchscreen to quickly jump to **Playback** mode. Simply tap the **Playback** icon in the bottom left corner of the touchscreen.



11.1 Playback Mode Navigation

Once in **Playback** mode, use the **UP**, **DOWN**, **LEFT** and **RIGHT (Zoom W/T)** buttons to navigate through all the captured files. You can also use the touchscreen to navigate the menus. Simply swipe and tap on the screen, just like you would on a smartphone or tablet.



12.0 General System Settings

To access the camcorder's general system settings, press the **MENU** button and then press the **MODE** button to switch to **General Settings**.

The setting menu is separated by two submenus. The top most icon represents settings relevant to video/photo capture. The middle icon represents general settings related to the general operation of the camcorder. The bottom icon allows you to exit the menu.



To Navigate the settings menu, use the **UP, DOWN, LEFT** and **RIGHT (Zoom W/T)** buttons. To confirm a selection, press the **POWER/OK** button. Alternatively, you can use the touchscreen to navigate and confirm menu settings. Simply swipe on the screen, just like you would on a smartphone or tablet.

12.1.1 Image Rotation

This option will flip the image on the LCD screen 180 degrees.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Image Rotation*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the setting.
4. Press the **MENU** button to exit the settings menu.

12.1.2 Wi-Fi

This option will enable the Wi-Fi function on your camcorder. Below are quick instructions on enabling the Wi-Fi option. Refer to **Section 13.0** further in this User Manual for a more complete explanation of the Wi-Fi and its functions.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Wi-Fi*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable or disable the Wi-Fi.
4. To exit Wi-Fi once it is enabled, press the **UP** button.
5. Press the **MENU** button to exit the settings menu.

12.1.3 Wi-Fi Information

This submenu only displays the Wi-Fi details of your camcorder.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Wi-Fi Information*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to view.
4. To exit this screen, press the **POWER/OK** button.
5. Press the **MENU** button to exit the settings menu.

12.1.4 Reset Wi-Fi

This submenu will allow you to reset your camcorder's Wi-Fi signal if you're having any issues connecting your camcorder to a smartphone.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Reset Wi-Fi*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the submenu.
4. To reset the Wi-Fi settings, press the **DOWN** or **LEFT** button to highlight '**Confirm**' and press the **POWER/OK** button to proceed.
5. Press the **MENU** button to exit the settings menu.

12.1.5 Light Source Frequency

This menu sets the frequency of the camcorder from 50Hz to 60Hz. Please check the frequency of your location and set accordingly.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Light Source Frequency*' using the **UP** or **DOWN** buttons and press the **MODE/OK** button to enter the '*Light Source Frequency*' menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected option (*50Hz, 60Hz*). The default frequency for the United States is 60Hz.
5. Press the **MENU** button to exit the settings menu.

12.1.6 LED Indicator

This menu allows you turn the LED status indicator on and off.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*LED Indicator*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to turn the LED Indicator on or off.
4. Press the **MENU** button to exit the settings menu.

12.1.7 Auto Power Off

This menu sets the duration of time in which the camcorder will wait with no user input before automatically powering off.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Auto Power Off*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Turn Off, 3 Minutes, 5 Minutes, 10 Minutes*).
5. Press the **MENU** button to exit the settings menu.

12.1.8 Button Prompt

This menu allows you to set the volume of the sounds of the button presses.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Button Prompt*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Turn Off, Low, Middle, High*).

5. Press the **MENU** button to exit the settings menu.

12.1.9 On/Off Music

This menu allows you to enable or disable the power on/off melody.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*On/Off Music*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (*Open, Close*).
5. Press the **MENU** button to exit the settings menu.

12.1.10 Language

This menu allows you to select a display language for the camcorder's interface.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Language*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm a language.
5. Press the **MENU** button to exit the settings menu.

12.1.11 Date Format

This menu allows you to set the format of the system date and time stamp.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Time Format*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **POWER/OK** button to confirm your selected setting (YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY).
5. Press the **MENU** button to exit the settings menu.

12.1.12 Time Set

This menu allows you to set the time to display as time stamp on your record video clips and captured photos.

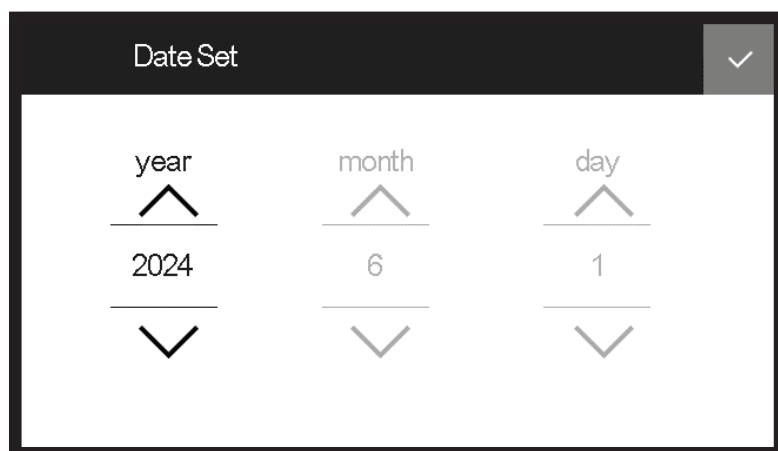
1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Time Set*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to set each column's value. Press the **POWER/OK** button to confirm the selection and to proceed to the next column.
5. Once you confirm the time, press the **MODE** button to save and exit this submenu.
6. Press the **MENU** button to exit the settings menu.



12.1.13 Date Set

This menu allows you to set the date to display as time stamp on your record video clips and captured photos.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select '*Date Set*' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the menu.
4. Use the **UP** or **DOWN** buttons to set each column's value. Press the **POWER/OK** button to confirm the selection and to proceed to the next column.
5. Once you confirm the date, press the **MODE** button to save and exit this submenu.
6. Press the **MENU** button to exit the settings menu.



12.1.14 Format Memory Card

The format setting erases all photos, videos and data stored on your memory card.

NOTE: This will delete all of the media stored on your memory card and cannot be undone.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select 'Format Memory Card' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the submenu.
4. To format your memory card, press the **DOWN** or **LEFT** button to highlight 'Format' and press the **POWER/OK** button to proceed. Once completed, it cannot be undone.
5. Press the **MENU** button to exit the settings menu.

12.1.15 Device Info

This submenu displays the firmware and device details of your camcorder and no settings can be adjusted here.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select 'Device Info' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to view.
4. To exit this screen, press the **POWER/OK** button.
5. Press the **MENU** button to exit the settings menu.

12.1.16 Factory Reset

Factory default settings can be restored in this menu. This function will only restore all of the menu's setting back to factory default settings and will not delete the media stored on the memory card.

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select 'Factory Reset' using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enter the submenu.
4. To format your memory card, press the **DOWN** or **LEFT** button to highlight 'Confirm' and press the **POWER/OK** button to proceed.
5. Press the **MENU** button to exit the settings menu.

13.0 Wi-Fi

The MN4K35NV includes a Wi-Fi feature that will allow you to connect your camcorder to your smartphone. When connecting your camcorder to your smartphone, you can utilize your smartphone as a remote viewfinder with live viewing to fully control your camcorder and transfer all captured photos and videos to your smartphone.

To wirelessly operate the MN4K35NV camcorder, you will first need to install the “iDC CAM” app on your Android or iOS device. To download the app, search for “iDC CAM” in the Apple App Store or Google Play Store. You may also scan the QR code that will be shown on the camcorder’s LCD monitor once your camcorder’s Wi-Fi has been enabled.

To quickly enable Wi-Fi from a shooting screen, simply press and hold the **UP** button for 3 seconds.



You may also enable Wi-Fi within the settings menu as described below:

1. In any shooting mode press the **MENU** button.
2. Select the Gear icon on the middle of the left side of the screen by pressing the **MODE** button. You may also tap the icon using the touchscreen.
3. Select ‘Wi-Fi’ using the **UP** or **DOWN** buttons and press the **POWER/OK** button to enable Wi-Fi.

Once you enable Wi-Fi, the **SSID** (camcorder’s Wi-Fi network name) and **password** are displayed here for connecting to your smartphone.

A screenshot of the camcorder's LCD monitor displaying the Wi-Fi settings menu. The screen has a black background with white text. At the top, it says 'Wi-Fi Information'. Below this, there are two lines of text: 'Wi-Fi ID: MN4K35NV_146d' and 'Wi-Fi Pass: 12345678'. A red rectangular box highlights these two lines. Below the text, it says 'Press UP to turn off WiFi'. To the right of the text is a QR code with a 'bc' logo in the center, also highlighted with a red rectangular box. Below the QR code, it says 'Please scan the QR code to download APP'. To the right of the QR code is a white box with black text that says 'Scan QR Code with Smartphone to download the “iDC Cam” App'.

Wi-Fi Information

Wi-Fi ID: MN4K35NV_146d

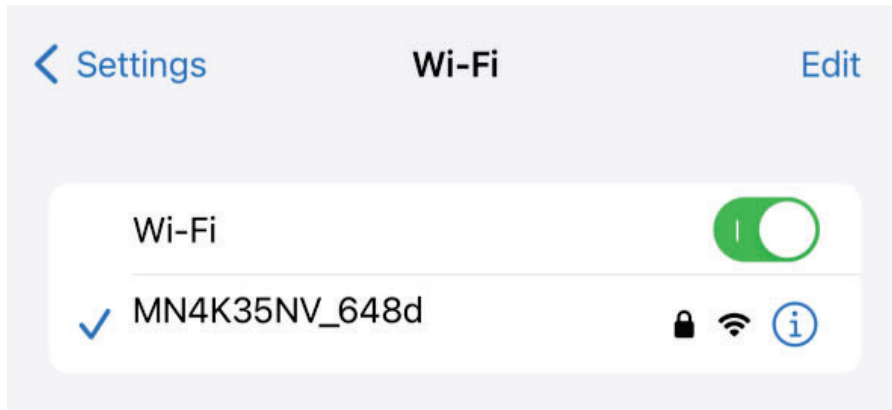
Wi-Fi Pass: 12345678

Press UP to turn off WiFi

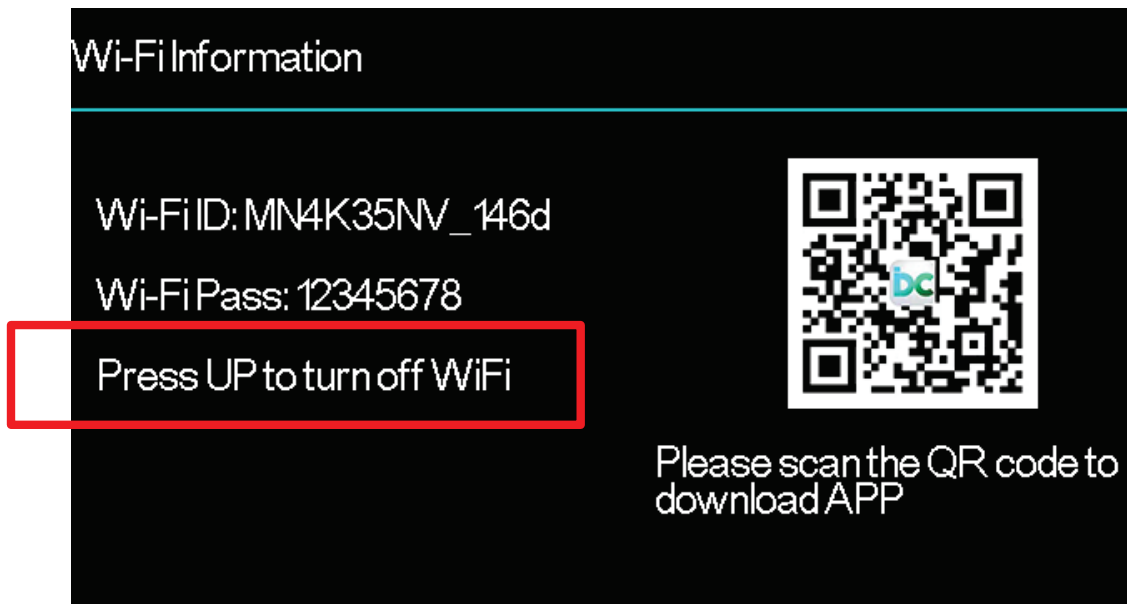
Please scan the QR code to download APP

Scan QR Code with Smartphone to download the “iDC Cam” App

Open your smartphone's Wi-Fi menu, turn all Wi-Fi settings to On and tap the network named "**MN4K35NV_XXXXXXX**" to connect to your camcorder. When prompted, enter the password **12345678**.



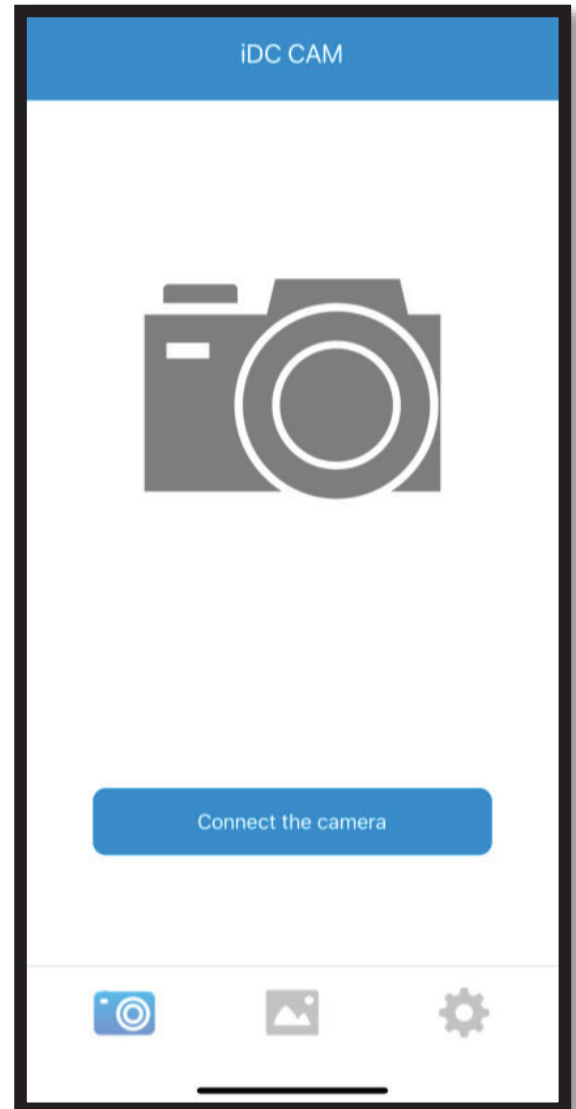
If your smartphone is having trouble finding the camcorder's Wi-Fi name, press the **UP** button to exit the Wi-Fi status screen and try re-enabling the Wi-Fi setting.



Once connected successfully, exit the Wi-Fi menu on your smartphone and open the “iDC CAM” app to connect your camcorder to the app.

NOTE: When first launching the app on your Apple smartphone, you *may* be prompted to allow the app to use your location. Select “**Allow Once**” or “**Allow While Using App**”. This will allow the app to communicate with your camcorder and will allow the app to work properly. The app will not operate properly with your camcorder if you select “Don't Allow”.

As part of the iOS operating system, your smartphone's *Location Settings* must be enabled in order to allow proper communication between your smartphone and your Minolta camcorder. If not enabled, it will prevent your camcorder from connecting to the iDC CAM app.



To exit Wi-Fi mode on your camcorder, press the **UP** button. Press the **MENU** button again to exit settings and your camcorder will return to the main shooting screen.

Wi-Fi Information

Wi-Fi ID: MN4K35NV_146d

Wi-Fi Pass: 12345678

Press UP to turn off WiFi



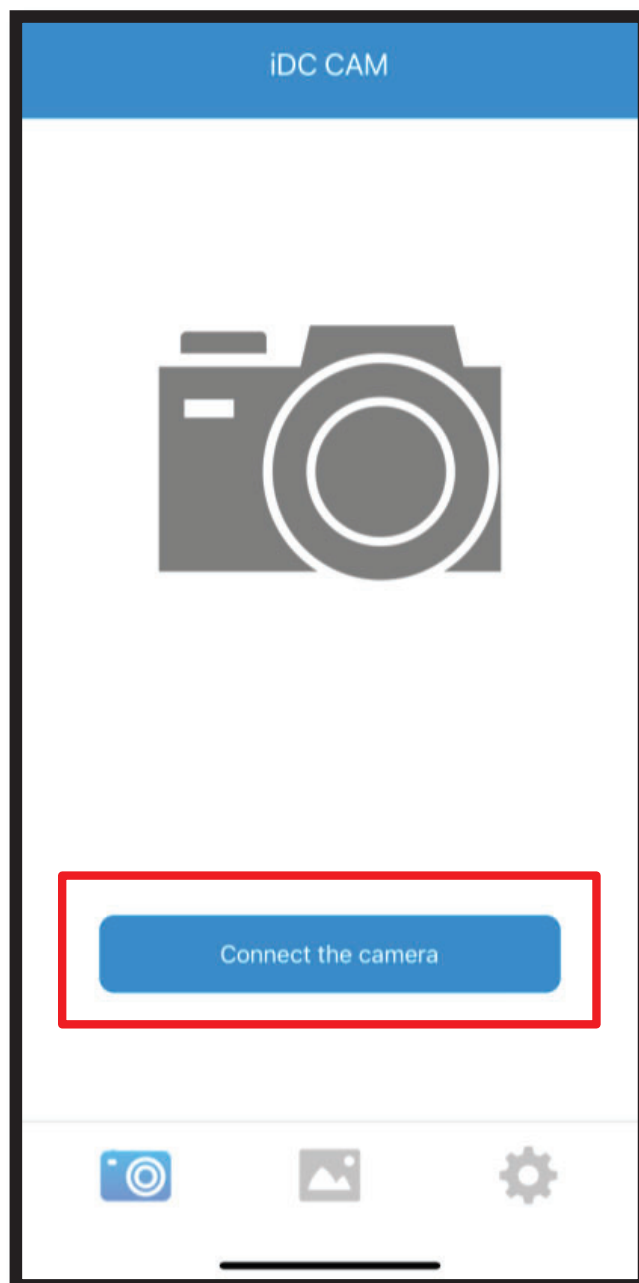
Please scan the QR code to download APP

13.1.1 Wi-Fi and Smartphone App Guide

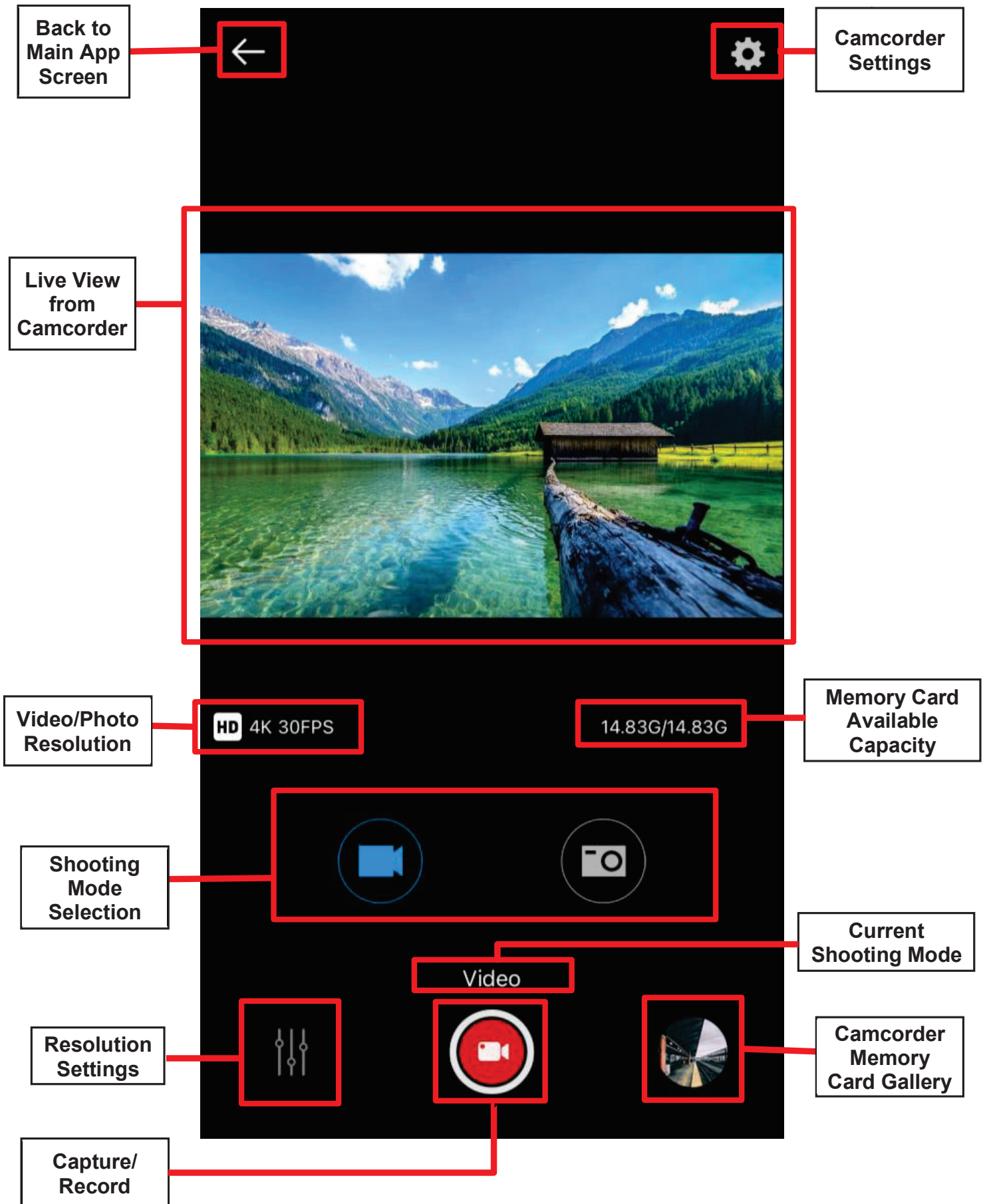
The figures provided in this user manual will offer a simple guide and explanation of the “iDC CAM” app. The “iDC CAM” smartphone app may be updated periodically and the version displayed on your smartphone may differ slightly than the figures shown in this user manual.

After following the instructions on enabling Wi-Fi on your camcorder and connecting to your smartphone, exit the Wi-Fi menu on your smartphone and open the “iDC CAM” app to connect your camcorder to the app.

Once the “iDC CAM” app launches, you’ll be prompted with the below app screen. Tap **Connect Devices** on your screen and your camcorder should connect automatically within a few seconds and display a live video feed.



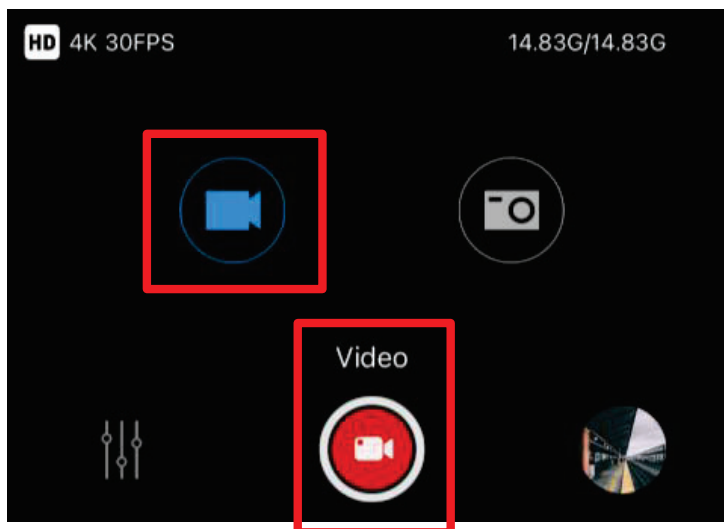
13.1.2 Smartphone App Main Screen Explanation



13.1.3 Smartphone App Operation

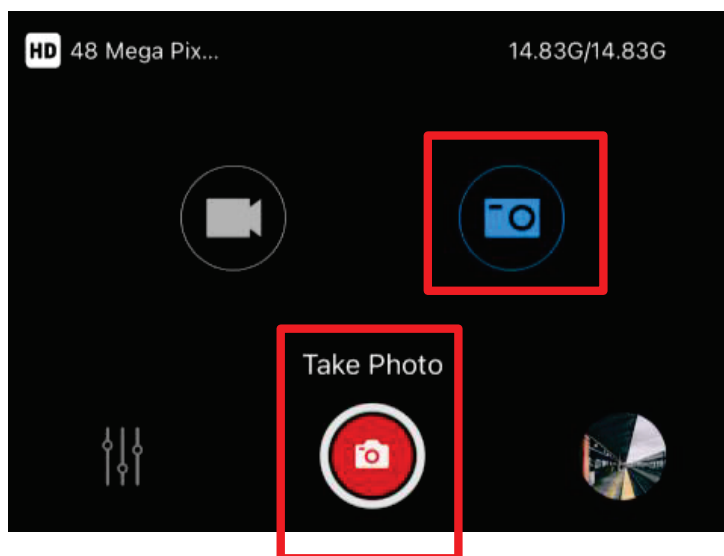
Record Video

To capture a video, make sure you are in Video Shooting mode by tapping the **Video** icon. Once in Video Shooting mode, tap the red **Record** icon and your camcorder will begin to record a video.



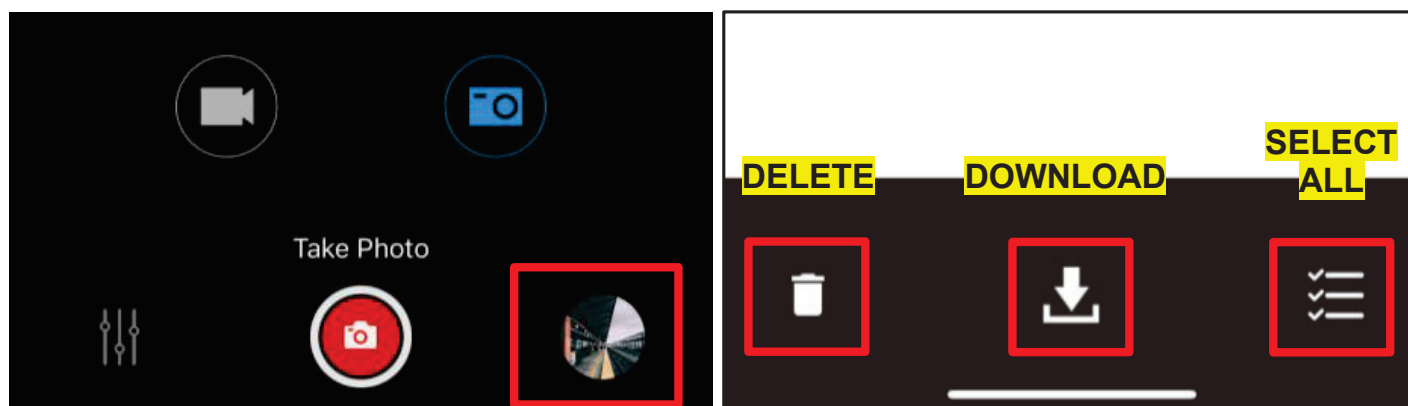
Capture Photo

To capture a photo, make sure you are in Photo Shooting mode by tapping the **Camera** icon. Once in Photo Shooting mode, tap the red **Capture** icon and a photo will capture.



Download Photos & Videos to Smartphone

Tap the **Gallery** icon to access all photos and videos stored on your camcorder's memory card. Once you enter the Gallery, tap on a photo or video file to preview. Then tap the **Download** button in the bottom corner. You may also **Delete** a file from this same screen, or **Select All** to download or delete multiple files at once.



14.0 Technical Specifications

Model Number	Minolta MN4K35NV
Lens	f=3.6mm • F/2.0 • 37mm Front Threading for Accessory Lens Attachments
Zoom	18X Digital Zoom
Image Sensor	13MP CMOS Sensor
Shutter	Electronic • Digital Image Stabilization
Pixels (photo)	JPEG: 48 Mega Pixels • 30 Mega Pixels • 20 Mega Pixels • 8 Mega Pixels
Pixels (video)	MP4: 4K (30FPS) • 1080P (60FPS) • 720P (120FPS)
ISO Sensitivity	Auto • 100 • 200 • 400 • 800 • 1600 • 3200 • 6400
LCD Monitor	3.0" IPS HD Touchscreen LCD Panel
Assistive Lighting	Infrared LED • White LED
Auto Power Off	OFF • 3 Minutes • 5 Minutes • 10 Minutes
White Balance Control	Auto • Sunny • Cloudy • Incandescent • Fluorescence
Recording Media	MicroSD • MicroSDXC; Maximum: 256GB
Wireless	Wi-Fi 802.11 b/g/n
I/O Ports	USB-C • Microphone (built-in) • Microphone (3.5mm) • Speaker (built-in) • Accessory Shoe Mount • IR Remote Control Receiver
Power	Lithium-Ion 3.7V, 1500mAh (NP-40)
Dimensions	4.90 x 2.3 x 2.2 in. • 9.9 oz.



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