MINOLTA®

5K ULTRA HD

MND70



User Manual

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1.0 Introduction

About this Manual:
Congratulations on purchasing the Minolta MND70 Digital Camera!

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 camera.

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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 photo 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 photos 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 photos recorded with the device.
- Photos 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:

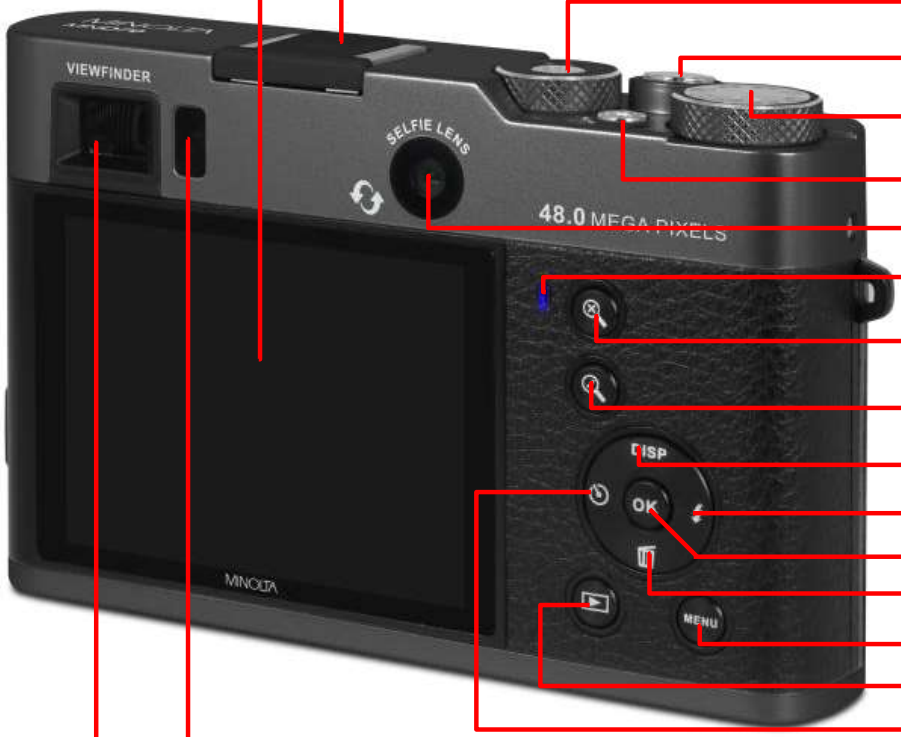
- Places that are poorly ventilated or subject to humidity of over 60%
- Place exposed to temperatures above 50°C (122°F) or below -10°C (14°F).

Getting Started

1.1 Buttons and Operation Overview



Shooting Mode Dial
Power
Shutter/Record
Viewfinder
LED Flash / Video Light
AF Focus Assist Lamp
HDMI-D Output
USB-C Port
3.5mm Mic Input
Speaker
Microphone
Automatic Lens Cover



LCD Monitor
Accessory Shoe Mount
Power
Shutter/Record
Shooting Mode Dial
Selfie-Lens Toggle
Selfie-Lens
Status LED
Zoom In (Tele)
Zoom Out (Wide)
Up / Display
Right / Flash
OK
Down / Delete
Menu
Playback Mode
Left / Self-Timer
Viewfinder Sensor
Viewfinder

1.2 Buttons and Operation Overview Explained

Name:	Function:
Shooting Mode Dial	Rotatable dial to change shooting mode
Power	Button to power the camera on or off
Shutter/Record	**In Photo Mode:** Button to capture a photo **In Video Mode:** Button to start or stop recording video
Viewfinder	Observation windows used for framing a photo or video
LED Flash / Video Light	**In Photo Mode:** White LED flash **In Video Mode:** Fill-in white LED video light for additional lighting
AF Focus Lamp	Additional lamp to help the camera's autofocus system work more effectively in low light conditions
HDMI-D Output	Port for outputting to an HDMI input
USB-C Port	Port for charging battery, transferring photos to a PC, or using your camera as a PC Camera
3.5mm Microphone Input	Input port for adding an external microphone (3.5mm)
Speaker	Built-in speaker plays button-press sounds and other video playback sounds
Microphone	Built-in microphone to capture audio during a video recording
Automatic Lens Cover	Cover that protects front lens when powered off
LCD Monitor	Monitor to display media and live view
Accessory Shoe Mount	Remove placeholder plate to mount hot-shoe accessories like an external microphone, video light, etc.
Selfie-Lens Toggle	Button to toggle front lens and selfie lens for capture
Selfie-Lens	Back lens used for capturing a selfie photo or video
Status LED	Fast Blinking Blue: Working Solid Blue: Powered On/Standby Slow Blinking Blue: Recording Solid Red: Battery is charging

■ CONTINUED ■

Name:	Function:
Zoom In (Tele)	Digital Zoom In (Tele) 1 -16x
Zoom Out (Wide)	Digital Zoom Out (Wide) 1 -16x
Up / Display	**In Settings:** Button to move Up when navigating menus **In Shooting:** Button to turn the display on or off
Right / Flash	**In Settings:** Button to move Right when navigating menus **In Shooting:** Button to cycle through Flash options
OK	**In Shooting:** Enable and select creative color Filter effects **In Settings:** Button to confirm a selection
Down / Delete	**In Settings:** Button to move Down when navigating menus **In Shooting:** Button to delete last photo/video captured
Menu	Button to enter the settings menu in each mode
Left / Self-Timer	**In Settings:** Button to move Left when navigating menus **In Self-Timer:** Button to cycle through Self-timer options
Viewfinder Sensor	Sensor to detect when using the viewfinder. This will turn off the monitor temporarily to conserve battery power.

1.3 Camera Features and Operation

In addition to basic photo and video capture, the Minolta MND70 offers a variety of shooting modes to suit different situations. This section describes how to make the most of your camera's key features. Along with the explanation of its operations, it will enable you to enjoy your camera 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 camera as shown in the figure below. The camera will only power up if the metal contacts on the battery line up with the metal contacts inside the battery compartment.

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



1.6 Installing the Memory Card

Insert a MicroSD memory card into the battery compartment with the metal contacts 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.

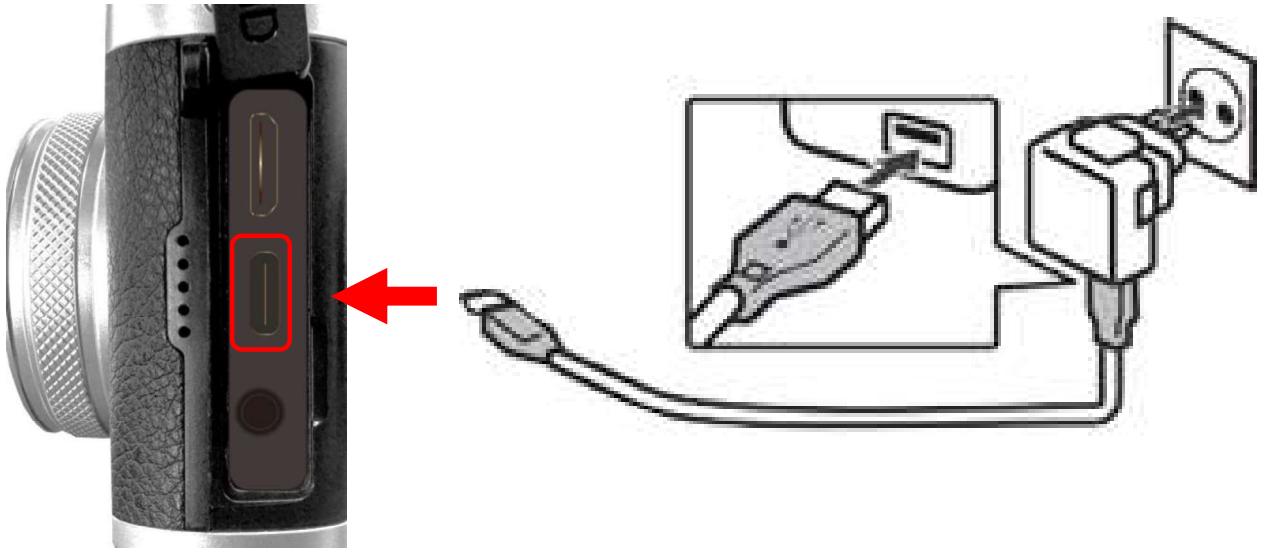
To remove the MicroSD memory card, simply push the card in and the card will eject back out.

NOTE:

- Format the memory card before using the camera (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.

1.7 Charging the Battery

Connect your camera to the included AC adaptor and USB-C cable. Insert the small end of the USB plug into the camera'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 Camera On and Off

Hold the **POWER** button for 3 seconds to power the camera on. To power the camera off, press and hold the **POWER** button for a further 3 seconds.

If the camera'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 Shooting Modes

The MND70 includes several advanced shooting modes. To switch shooting modes, rotate the Mode Dial at the top of the camera. The dial can be rotated in either direction. An explanation of each mode is listed below the figure.



Photo Mode

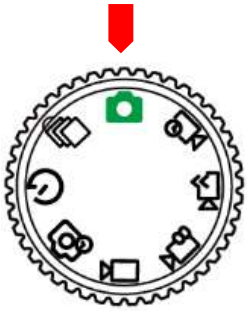
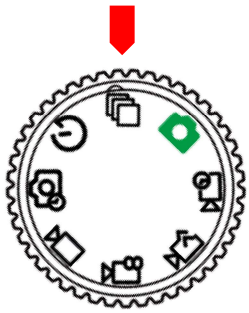


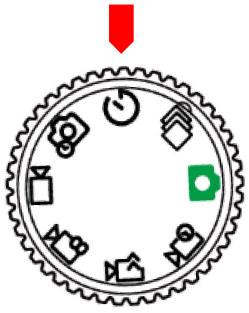
Photo mode is a photo capture mode that lets the camera make all of the setting decisions for you. The camera analyses the scene and pre-selects optimized settings to capture a clear photo. Shooting in this mode will generally result in great photos. Only one photo can be captured per shutter press.

Photo Burst Mode



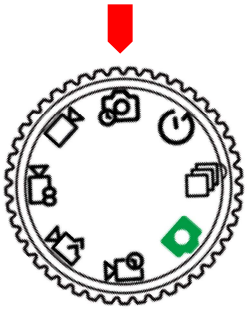
In Photo Burst mode, your camera automatically captures a series of photos in quick succession based on the settings defined in the menu. This mode works well in scenery where the subject being photographed moves around a lot while being photographed. For example, a baby or pet.

Self-Timer Photo Mode



Self-Timer Photo mode will allow you enable a countdown timer to automatically capture a photo after a set elapsed duration. For example, a “2-second” self-timer setting will automatically capture a photo 2 seconds after pressing the **SHUTTER** button in this mode.

Time Lapse (Photo) Mode

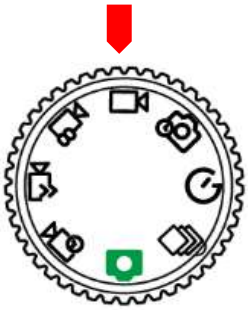


Time Lapse (Photo) mode will allow you to enable an automatic capture of photos set by a time interval and duration. There are 2 settings that will determine the "**Interval**" and "**Duration**".

The **Interval** setting is the amount of time the camera will wait in between each auto capture. For example, an **Interval** setting of "10 seconds" will set the camera to automatically capture a photo every 10 seconds.

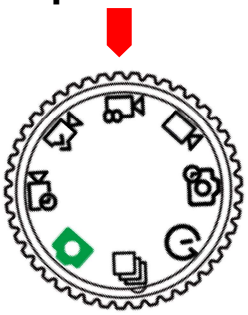
The **Duration** setting is the amount of time the camera will run the "Time-Lapse (Photo)" program. For example, a **Duration** setting of "5 Minutes" will run the Time-Lapse (Photo) capture program for 5 minutes and then stop. With an **Interval** setting of "10 seconds" and a **Duration** setting of "5 Minutes", the camera will automatically capture a photo every 10 seconds for 5 minutes and then stop automatically. So, with these settings, the camera will capture 30 photos (1 photo every 10 seconds for 5 minutes or 300 seconds total).

Video Mode



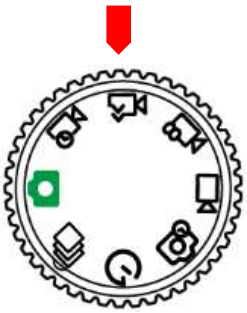
Video mode is a standard mode for recording video. Only one video file can be recorded per shutter press. Press the **SHUTTER** button to begin recording, and press the **SHUTTER** button to stop recording.

Loop Recording Mode



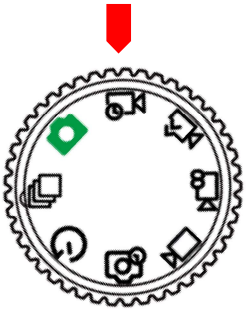
Loop Recording mode will allow you to enable an automatic capture of multiple video recordings in a loop determined by the duration setting. For example, a "1 minute" setting will automatically capture 1-minute long recordings until the memory card storage depletes or until you stop the recording. To start or stop recording, simply press the **SHUTTER** button.

Slow Motion Mode



Slow Motion mode will allow you to record a slow-motion video. The camera will record a video at a higher frame rate resulting in a slower motion. The file will also play back in slower motion. The **Resolution** setting will determine the capture quality and play back duration. For example, a “720 8X” slow-motion setting will record a video in 720P resolution and will play back the file 8 times slower than the recorded duration. If the recorded duration of the original recording was 5 seconds, the play back duration will be 40 seconds.

Time Lapse (Video) Mode



Time-lapse (Video) mode 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.

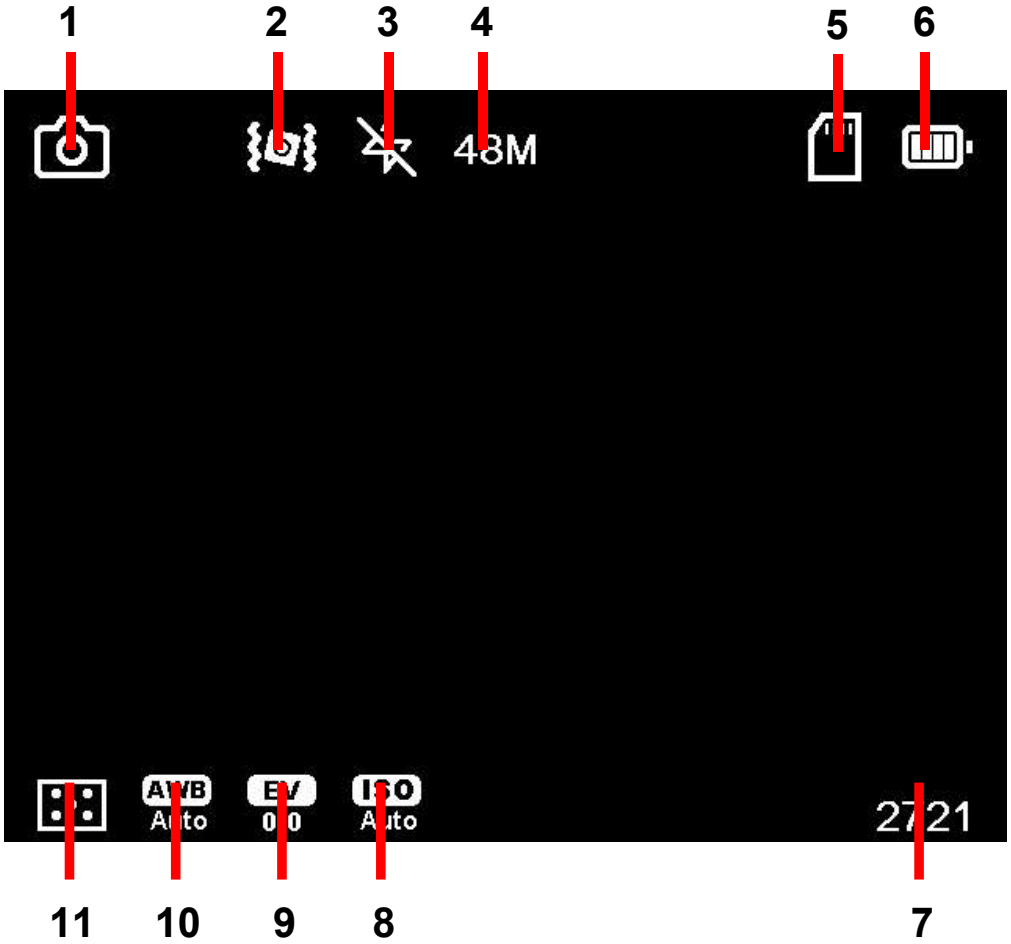
For example, an photo of a scene may be captured at 1 frame per second but then played back at 30 frames per second; the result is an apparent 30 times speed increase. This mode will capture a sequence of frames at set intervals to record changes that take place slowly over time. When the frames are shown at normal speed, or in quick succession, the action seems much faster.

When entering this shooting mode, it will allow you to enable an automatic recording of video set by a time **interval** and a **duration**. There are 2 settings that will determine the “**Interval**” and “**Duration**”.

The **Interval** setting is the interval in which the camera will capture photos for the time-lapse based on a default 30 frames per second. For example, an **Interval** setting of “*5 seconds*” will capture 150 photos (5 seconds multiplied by 30 frames per second).

The **Duration** setting is the amount of time the camera will run the “Time-Lapse (Video)” program and record the scene. For example, a Duration setting of “*10 Minutes*” will capture video for 10 minutes and then stop. With an **Interval** setting of “*5 seconds*” and a **Duration** setting of “*10 Minutes”,* the camera will record video for 10 minutes and then play it back in a compressed time of 4 seconds long.

1.10 Photo Capture Screen Icons

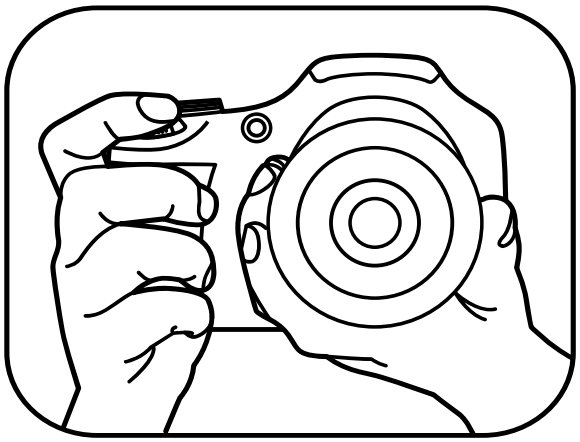


	Icon name:	Function:
1	Photo Capture Mode	Press shutter button to capture a photo
2	Photo Stabilization	Indicates that Photo Stabilization is activated
3	LED Assistive Light	Automatic / Off / Forced / Always On
4	Photo Resolution	Current photo resolution setting
5	Memory Card	Indicates if a memory card is installed
6	Battery Status	Battery charging status or battery level
7	Available Photo Count	Number of photos that can be captured with the memory card's current storage remaining
8	ISO	Current ISO sensitivity setting
9	Exposure Compensation	Current exposure compensation value
10	White Balance	Current white balance setting
11	Metering	Current metering mode: Center, Multi, Spot

1.11 Capturing a Photo

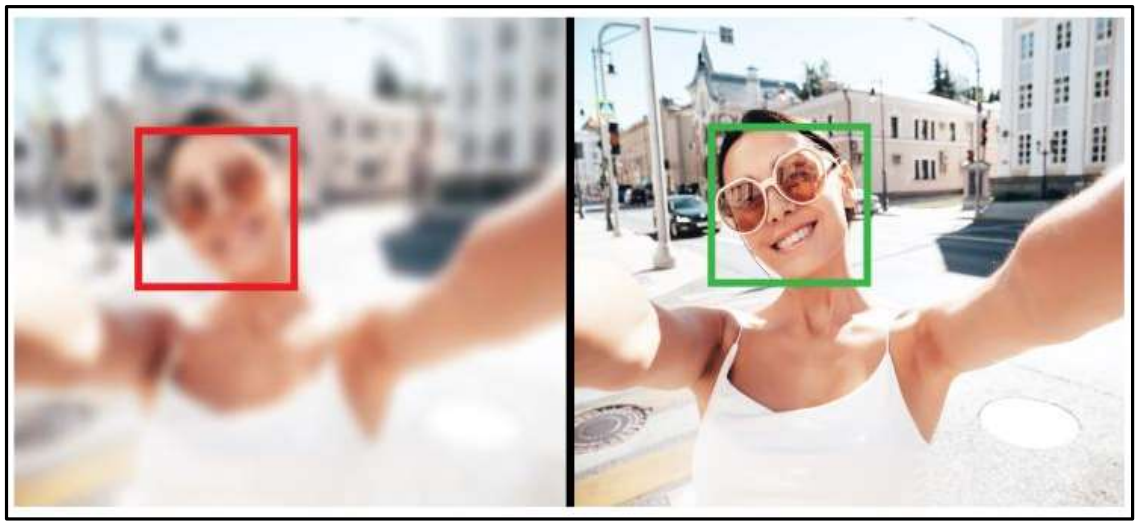
The MND70 includes an array of photo shooting modes – each with their own unique features. Capturing a photo in each mode follows similar procedures.

Once you've selected your photo shooting mode, hold the camera steady with both hands, being careful not to block the flash and lens with fingers.



- Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.
- Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.
- Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo.

  When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to capture the photo. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.



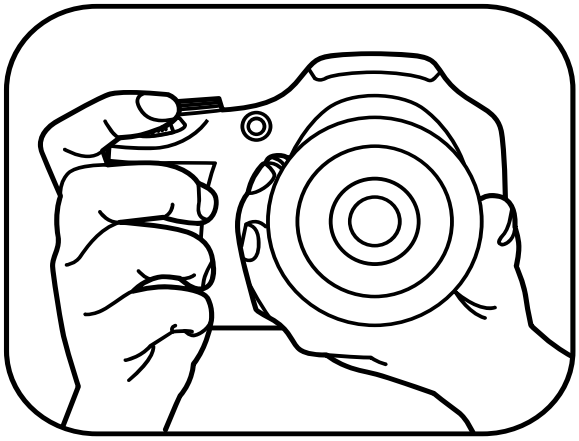
NOTES:

- The number of photos that can be captured at a particular resolution will be displayed at the top 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.

1.12 Capturing a Macro Photo (Close-Up)

The MND70 includes an autofocusing lens and is capable of sharp macro or close-up shots. Macro photography is about showcasing a subject larger than it is in real life — an extreme close-up of something very small.

Once you've selected your shooting mode, hold the camera steady with both hands, being careful not to block the flash and lens with fingers.



- Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.
- Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.
- Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo.

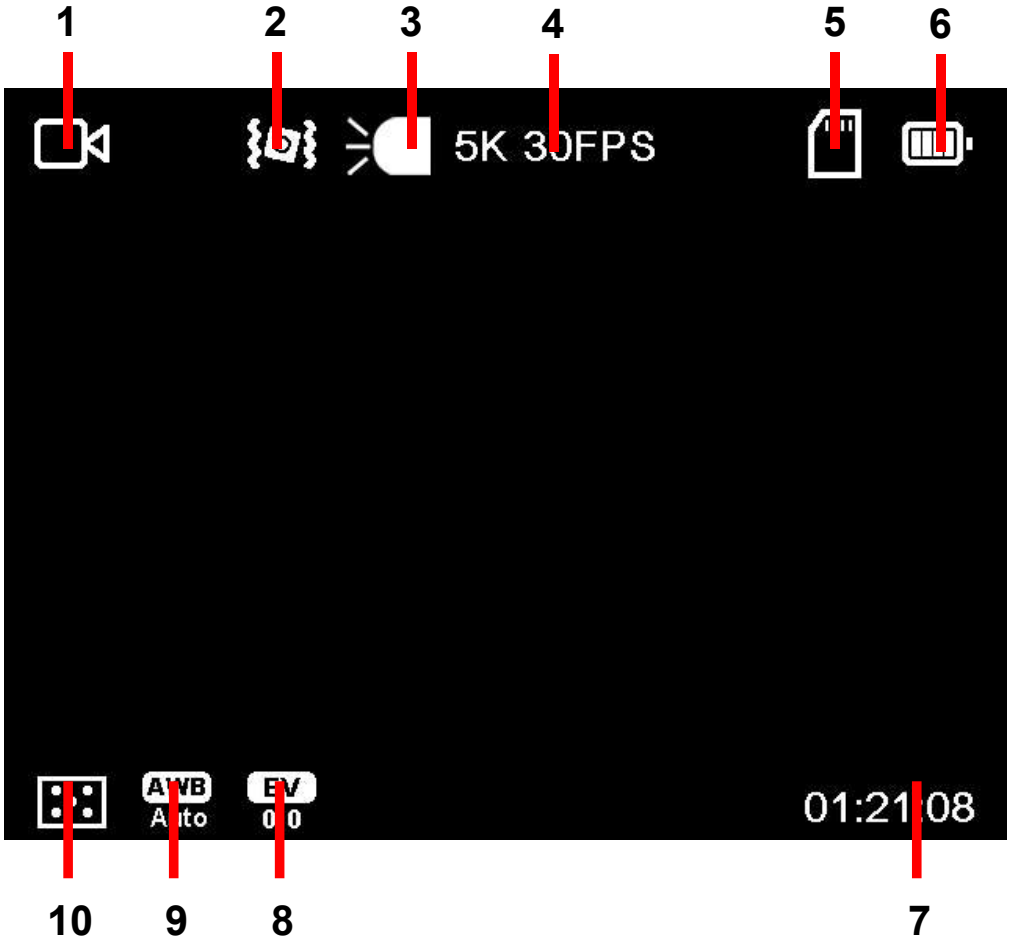
  When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to capture the photo. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.



NOTES:

- The number of photos that can be captured at a particular resolution will be displayed at the top 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.

1.13 Video Capture Screen Icons

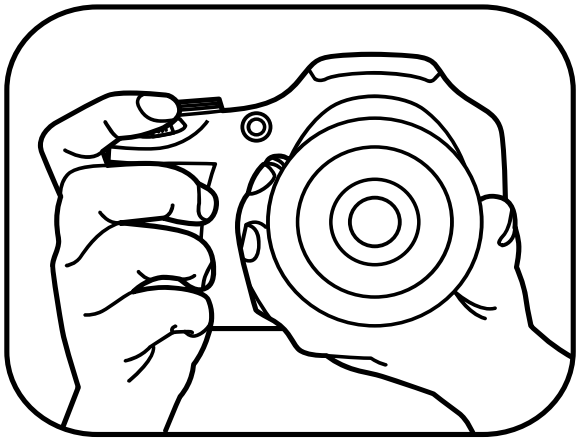


	Icon name:	Function:
1	Video Capture Mode	Press shutter button to start/stop recording
2	Photo Stabilization	Indicates that Photo Stabilization is activated
3	LED Assistive Light	Automatic / Off / Forced / Always On
4	Video Resolution	Current Video resolution setting
5	Memory Card	Indicates if a memory card is installed
6	Battery Status	Battery charging status or battery level
7	Available Recording Time	Remaining available recording time with the memory card's current storage remaining
8	Exposure Compensation	Current exposure compensation value
9	White Balance	Current white balance setting
10	Metering	Current metering mode: Center, Multi, Spot

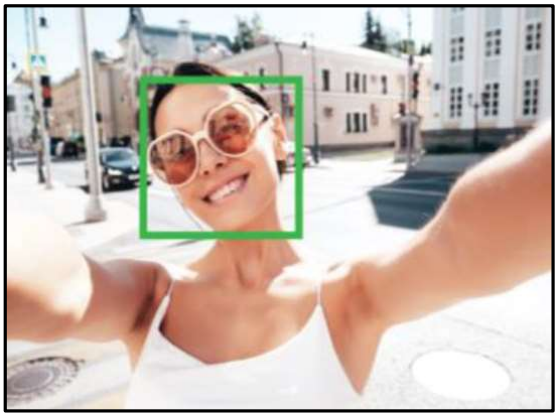
1.14 Capturing a Video

The MND70 includes an array of video recording modes – each with their own unique features. Recording a video in each mode follows similar procedures.

Once you've selected your shooting mode, hold the camera steady with both hands, being careful not to block the flash and lens with fingers.



- Point the lens toward the object you want to take a video of and then frame it with the LCD monitor or viewfinder.
- Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.
- Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to begin recording a video.



When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to start recording. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the video might capture blurry.

You may also refocus your subject during a recording. Simply half-press the **SHUTTER** button again and the lens will attempt to refocus. Since it is in the middle of an active recording, the monitor will **NOT** display a green rectangle or make a beep sound to notify you that it has achieved a clear focus.

Pause / OK
To pause recording, press the **OK** 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 **OK** button again.

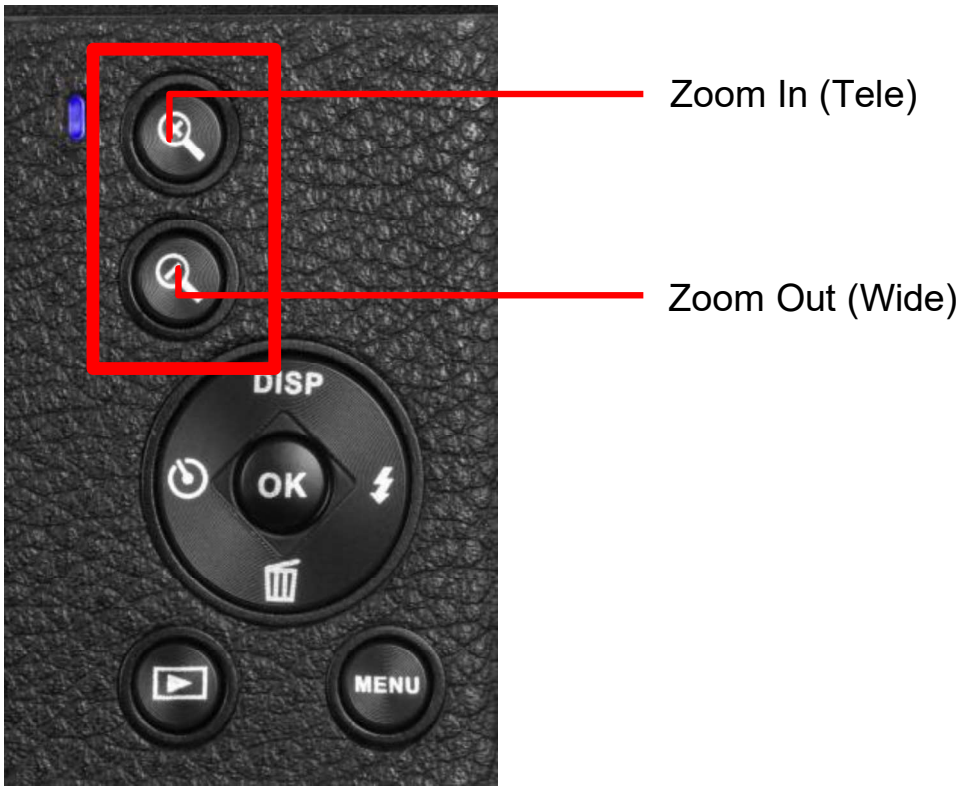


Stop / SHUTTER
To stop recording, press the **SHUTTER** button again. Each time you stop a recording, the camera will create a separate, new video file and save.

1.15 Using the Zoom Function

The MND70 is equipped with a 16x digital zoom function. Digital zoom enlarges your photo electronically by cropping and enlarging the central part of the photograph.

To operate the zoom function, push and hold the **ZOOM IN** (Tele) button to zoom in closer to the subject, and push and hold the **ZOOM OUT** (Wide) button to zoom out away from the subject.



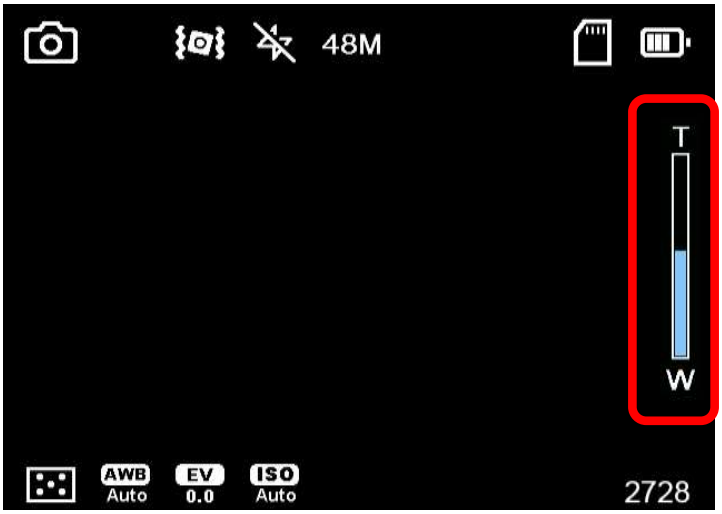


Photo Mode – Zoom Bar



Video Mode – Zoom Bar

1.16 Using the LED Flash / Video Light

The MND70's built-in LED flash provides supplemental light for any scene. It is also suitable for metering and shooting in darker scenes to improve the exposure. The LED light's most effective range is 8 – 16 ft. To enable the LED Flash or Video Light options, press the **RIGHT/FLASH** button and cycle through the Flash / Light options.



Photo Shooting Modes

In Photo shooting modes, there are four options to select from.

On
LED light stays on and illuminated.

Auto
Flash goes on automatically as needed based on existing light conditions in the scene.

Force
The flash goes on when a picture is taken, supplementing the existing light in a scene and helping to eliminate shadows.

Off
Flash is turned off.

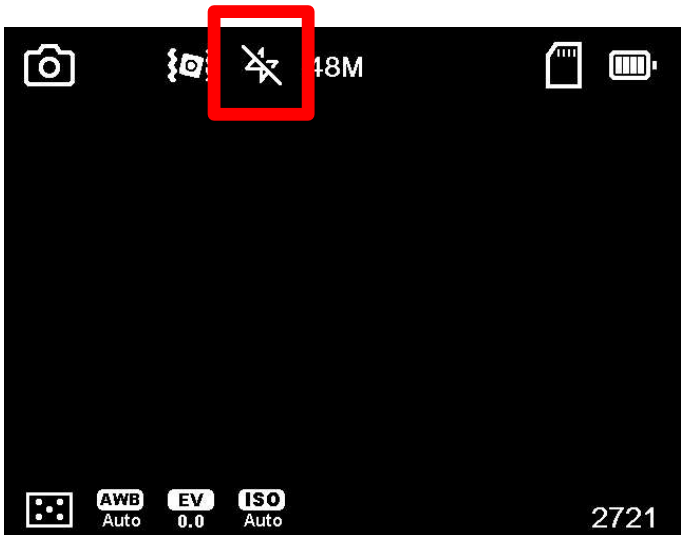


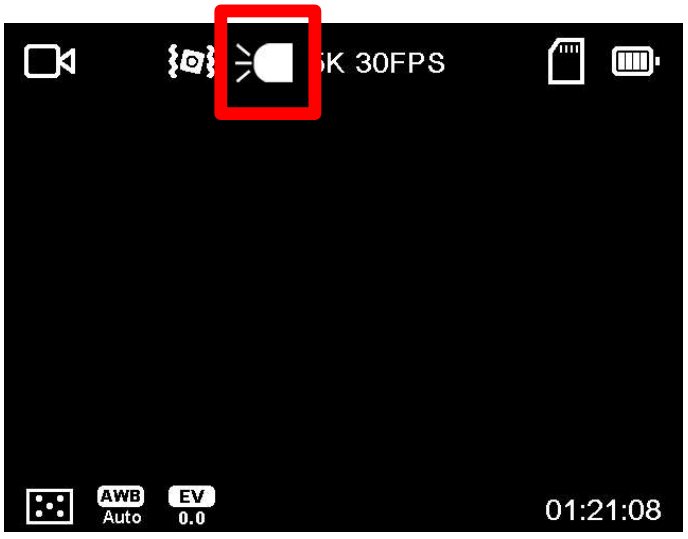
Photo Mode – Flash Icon

Video Shooting Modes

In Video shooting modes, the only options available are **On** and **Off**.

On
LED light stays on and illuminated

Off
LED Light is turned off.



Video Mode – LED Light Icon

1.17 Using the Selfie Lens

The MND70 is equipped with a secondary selfie lens on the back of the camera. This allows you to snap creative and fun selfie shots in any shooting mode easily without the need of complicated equipment or maneuvers. The Selfie Lens can be enabled in any Shooting Mode.

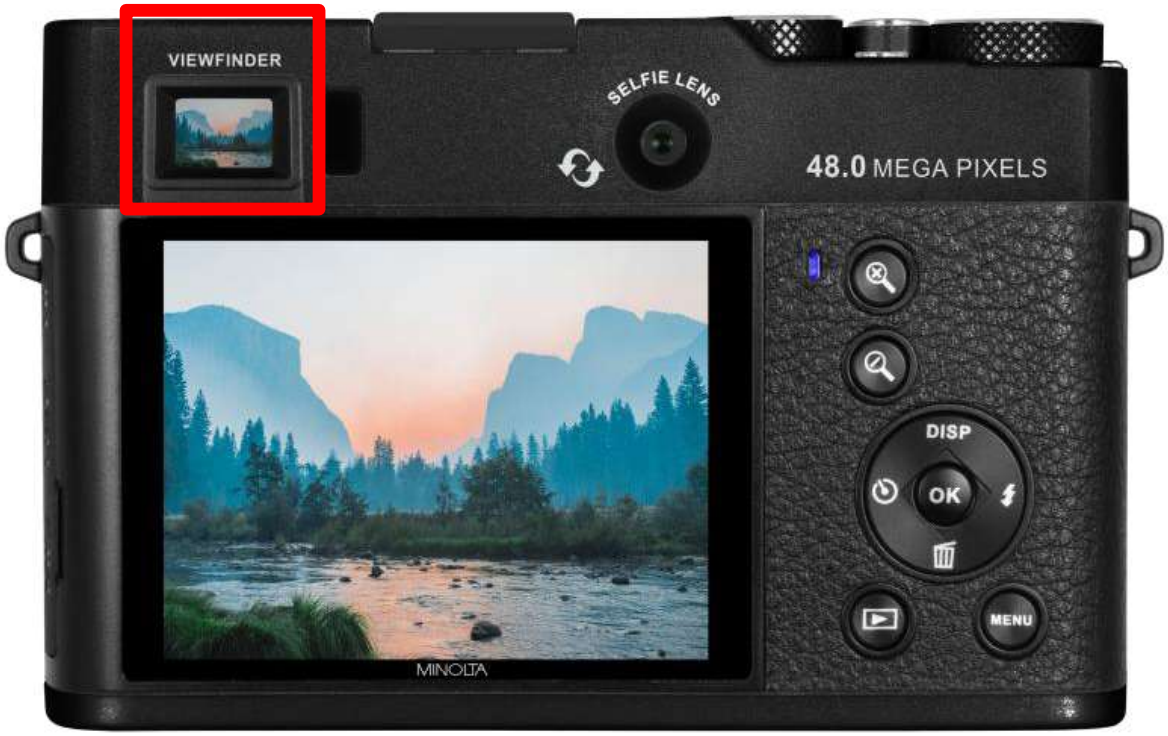
To activate the **Selfie Lens**, simply press the **SELFIE TOGGLE** button. You may then use the camera as normal for a selfie or other shot. Press the **SELFIE TOGGLE** button again to revert back to shooting with the front lens.

NOTES: Only one lens can be enabled at a time. The selfie lens does not autofocus on your intended subject. The monitor will still display a green rectangle but does not make a beep sound to notify you that it has achieved a clear focus. You may then need to adjust your shooting distance or the photo may capture blurry.

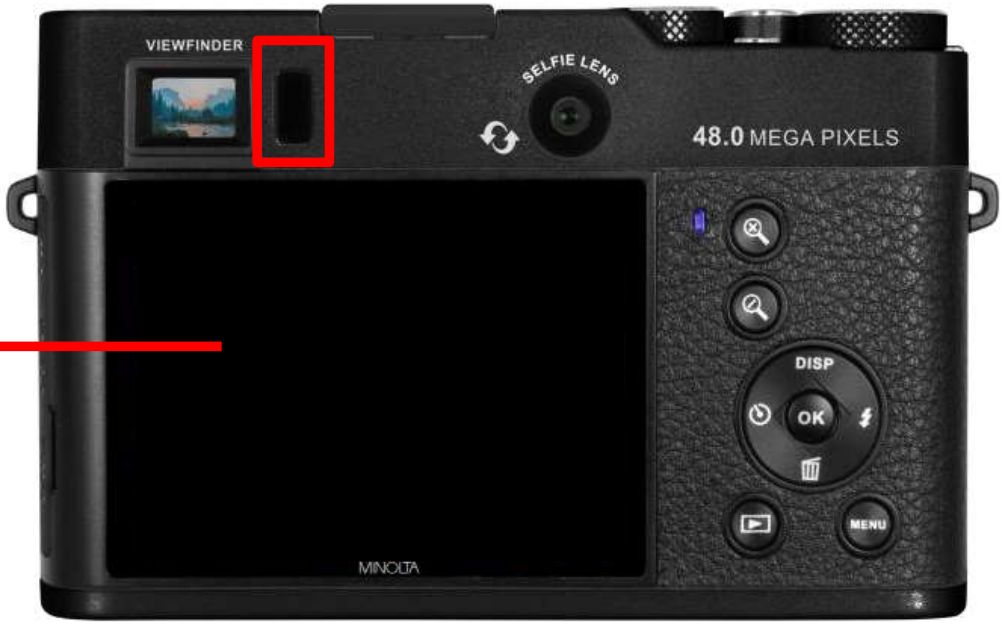


1.18 Using the Viewfinder

The MND70 is equipped with a built-in glass viewfinder. The viewfinder is a small window that a photographer looks through to see what a photo will look like before they capture. The viewfinder allows you to frame a shot and show an approximation of what the captured photo might look like.



To use the viewfinder effectively, it is best to bring the camera close to your face at eye level and look through the glass window. To the immediate right of the viewfinder is the viewfinder's sensor. When the sensor detects that you are using the viewfinder, it will temporarily disable the LCD monitor for battery conservation.



Monitor automatically turns off when using viewfinder up close

1.19 Attachments

The MND70 supports many different accessory attachment capabilities such as additional lighting and external microphones. The top of the camera features an accessory shoe mount. The side protective door features a 3.5mm microphone input and HDMI-D output.



Accessory Shoe Mount



HDMI Output Port

3.5mm Microphone Input Port

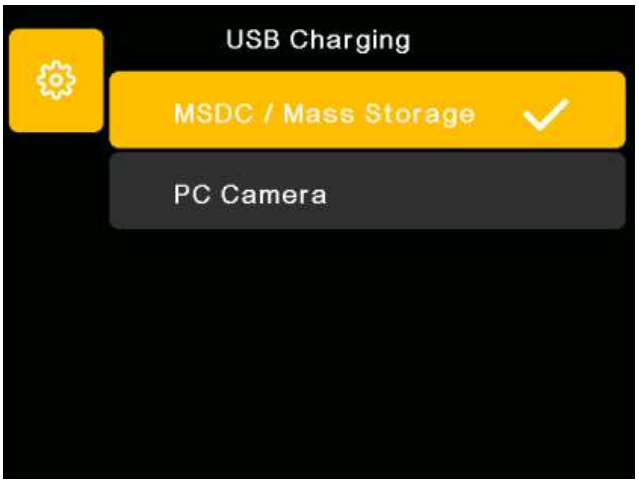
1.20 Connecting to a Computer

Your camera can connect to a computer to transfer photo and video files for viewing and editing, or to use your camera as a PC Camera. To connect the camera to your computer, open the protective cover on the side of the camera to access the USB-C port. Insert the small end of the USB-C plug into the camera'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 camera's screen will display two options as follows:



MSDC / Mass Storage
Will allow you to access the files on the inserted memory card via your computer.

PC Camera
Will allow the camera 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. A selection is not required. You may leave the camera as-is to recharge the camera's battery using your computer as a power source.

1.20.1 Transferring Media to PC

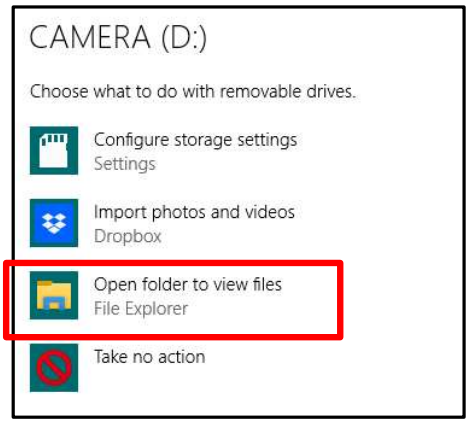
Once you've connected the USB-C cable to your computer, powered on your camera, and entered **MSDC / Mass Storage Mode** on your camera, your computer should recognize it immediately.

1. You should see the **AutoPlay** window pop up. Click the **AutoPlay** box in the bottom-right corner of your computer screen.



2. Select **Open folder to view files**. This will open the File Explorer. You may need to scroll down to find this option.

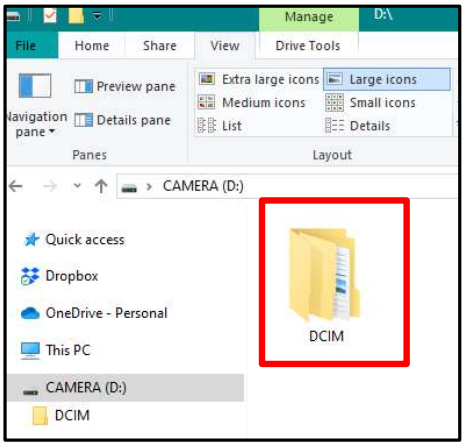
   Alternatively, you can open this folder manually. Right-click the Start menu and click **File Explorer**. Click **This PC** listed on the left panel, and then find the drive of your memory card.



3. Click **DCIM**. You may see the photos immediately. In most cases, photos will be in folder labeled DCIM (Digital Camera Photos), or in another subfolder with the DCIM folder.

4. Select the photos you want to transfer. You can transfer individual photos, or press **CTRL + A** on your keyboard to select all the photos in the folder.

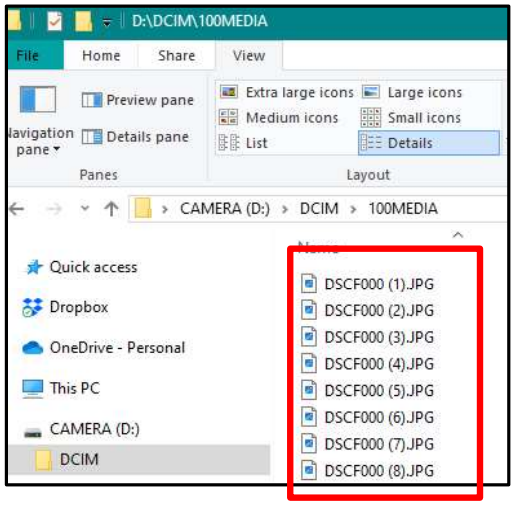
   To select multiple photos, hold **CTRL** and click each photo.



5. Drag the pictures to a new location on your PC. You can drag the photos into the **Pictures** folder, or you can create a new folder.

   The amount of time it takes to transfer will depend on the number of files being copied, the files sizes, and your computer's specifications.

   If you want to delete the photos from your camera's memory card, wait for the files to finish transferring to your computer. Return to the memory card's folder and press **CTRL + A** to select all the photos. Right-click the photos, then click **Delete**.



1.21 Connecting to an HDMI Input

The MND70 includes an HDMI output port for connecting to an HDMI TV or monitor for live viewing. In order to use the HDMI output on the camera, a required Mini HDMI to HDMI cable is required (not included). See example photo below.



Connect the mini HDMI end to the camera's HDMI port, and connect the larger HDMI end to a compatible HDMI input device. Once connected, your camera's screen will project to the HDMI connected device.



1.22 Camera Settings Menu Explanation

The settings menu adapts based on the current shooting mode of the camera. 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 etc.

To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

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

Using the Camera – Photo Capture

2.0 Photo Shooting Modes

The MND70 features four separate photo shooting modes as explained below.



Photo Mode:

Photo mode is a photo capture mode that lets the camera make all of the setting decisions for you. The camera analyses the scene and pre-selects optimized settings to capture a clear photo. Shooting in this mode will generally result in great photos. Only one photo can be captured per shutter press.



Burst Photo:

Burst Photo mode will allow you to enable an automatic capture of multiple photos in sequence determined by the setting. For example, a "*5 shots*" setting will automatically capture 5 photos in quick sequence or a "burst" after pressing the shutter button in this mode.



Self-Timer:

Self-Timer mode will allow you enable a countdown timer to automatically capture a photo after a set elapsed duration. For example, a "2-second" self-timer setting will automatically capture a photo 2 seconds after pressing the shutter button.



Time-Lapse (Photo):

Time-Lapse (Photo) mode will allow you to enable an automatic capture of photos set by a time interval and duration. There are 2 settings that will determine the "*Interval*" and "*Duration*".

The Interval setting is the amount of time the camera will wait in between each auto capture. For example, an Interval setting of "*10 seconds*" will set the camera to automatically capture a photo every 10 seconds.

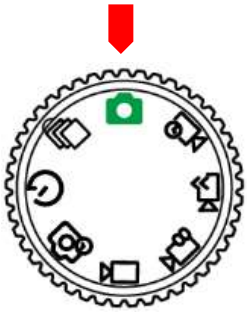
The *Duration* setting is the amount of time the camera will run the "Time-Lapse (Photo)" program. For example, a Duration setting of "*5 Minutes*" will run the Time-Lapse (Photo) capture program for 5 minutes and then stop. With an Interval setting of "*10 seconds*" and a Duration setting of "*5 Minutes*", the camera will automatically capture a photo every 10 seconds for 5 minutes and then stop automatically. So, with these settings, the camera will capture 30 photos (1 photo every 10 seconds for 5 minutes or 300 seconds total).

2.1 Photo Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Photo** mode. The dial can be rotated in either direction.



Photo Mode



This shooting mode is a photo capture mode that lets the camera make all of the setting decisions for you. The camera analyses the scene and pre-selects optimized settings to capture a clear photo. Shooting in this mode will generally result in great photos. Only one photo can be captured per shutter press.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo.

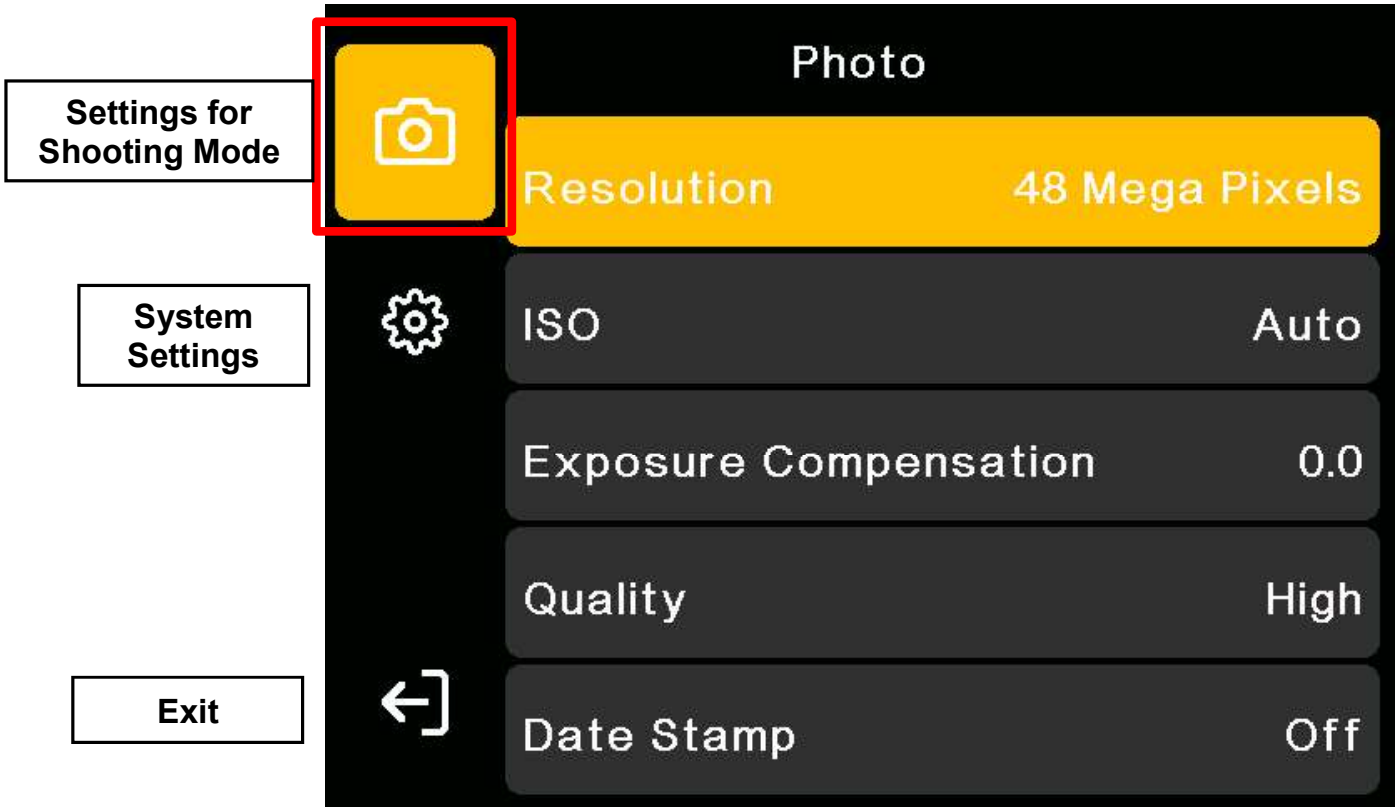
When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to the capture the photo. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.

- The number of photos that can be captured at a particular resolution will be displayed at the top 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.

2.1.1 Photo Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents general settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

2.1.2 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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *48 Mega Pixels, 36 Mega Pixels, 20 Mega Pixels,* and *12 Mega Pixels*.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.1.3 ISO

This menu adjusts the light sensitivity in your photo. If you are unsure which setting suits best, select *Auto* and the camera 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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600,* and *ISO 3200.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.1.4 Exposure Compensation

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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.1.5 Quality

This menu adjusts the visible detail of a photograph by determining the level of compression that the camera uses when saving photos to a memory card. For example, *High* uses the least amount of compression for saving, and as a result produces a higher photo quality.

1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *High, Middle,* and *Low.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.1.6 Date & Time Stamp

This menu 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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.1.7 Photo Stabilization

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

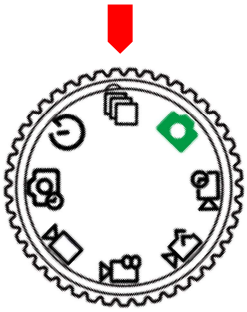
1. In Photo Mode press the **MENU** button.
2. Select the Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2 Photo Burst Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Photo Burst** mode. The dial can be rotated in either direction.



Photo Burst Mode



In Photo Burst mode, your camera automatically captures a series of photos in quick succession based on the settings defined in the menu. This mode works well in scenery where the subject being photographed moves around a lot while being photographed. For example, a baby or pet.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

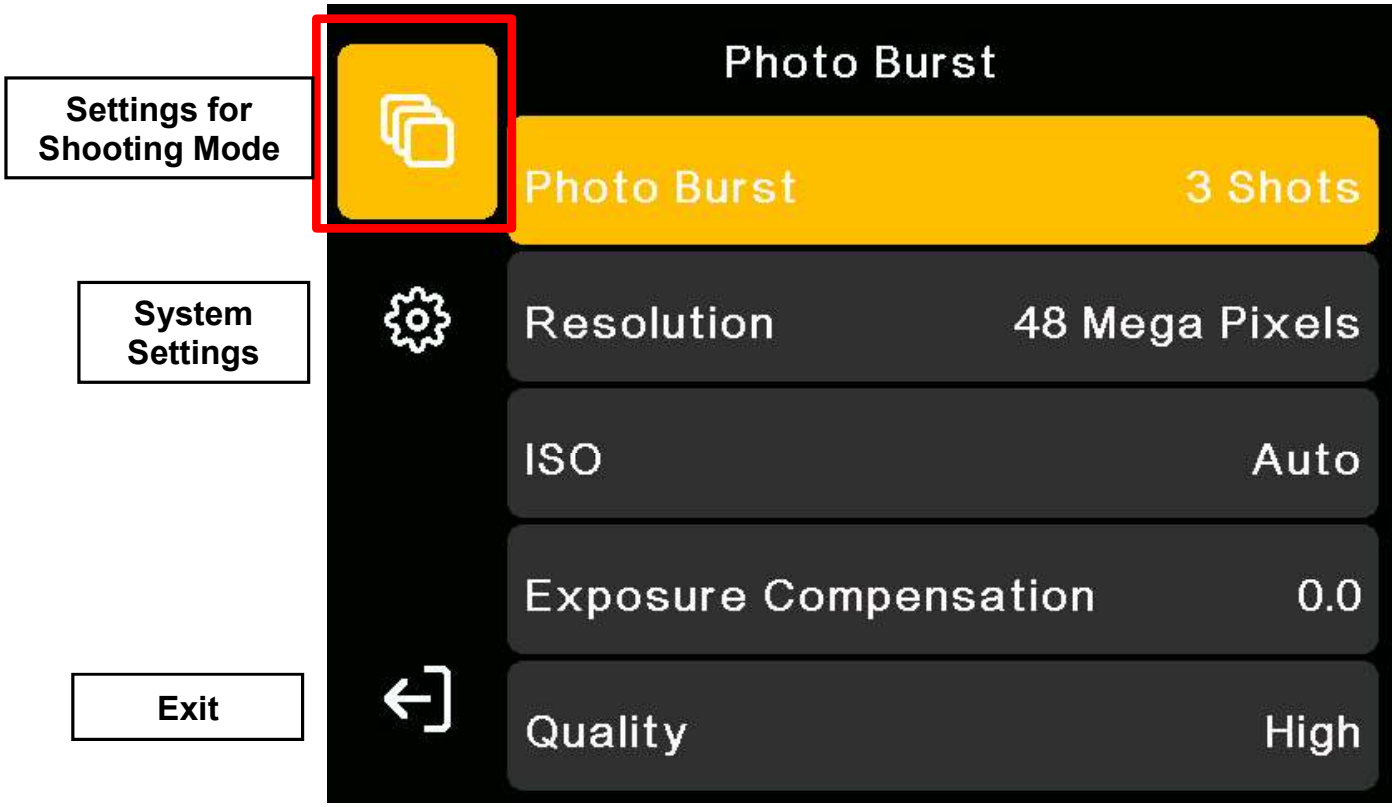
3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo. The pre-selected Photo Burst setting will begin to capture photos based on the setting. For example, if the setting is “3 Shots”, the camera will automatically capture 3 photos in quick sequence or “burst” after pressing the shutter button in this mode.

When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to the capture the photo. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.

2.2.1 Photo Burst Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

2.2.2 Photo Burst

This menu sets the number of photos captures each time the shutter button is pressed.

1. In Photo Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Burst'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *3 Shots, 5 Shots,* and *10 Shots.* Each setting represents how many shots will capture each time the shutter button is full pressed.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2.3 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 Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *48 Mega Pixels, 36 Mega Pixels, 20 Mega Pixels,* and *12 Mega Pixels*.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2.4 ISO

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

1. In Photo Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600,* and *ISO 3200.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2.5 Exposure Compensation

This menu adjusts the frame brightness in your scene.

1. In Photo Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2.6 Quality

This menu adjusts the visible detail of a photograph by determining the level of compression that the camera uses when saving photos to a memory card. For example, *High* uses the least amount of compression for saving, and as a result produces a higher photo quality.

1. In Photo Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *High, Middle,* and *Low.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2.7 Date & Time Stamp

This menu 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 Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.2.8 Photo Stabilization

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

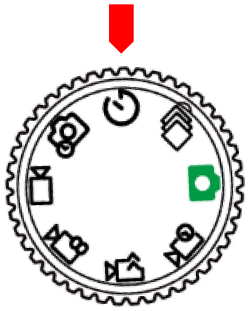
1. In Photo Burst Mode press the **MENU** button.
2. Select the Photo Burst icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3 Self-Timer Photo Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Self-Timer Photo** mode. The dial can be rotated in either direction.



Self-Timer Photo Mode



This mode will allow you enable a countdown timer to automatically capture a photo after a set elapsed duration. For example, a “2-second” self-timer setting will automatically capture a photo 2 seconds after pressing the shutter button in this mode.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

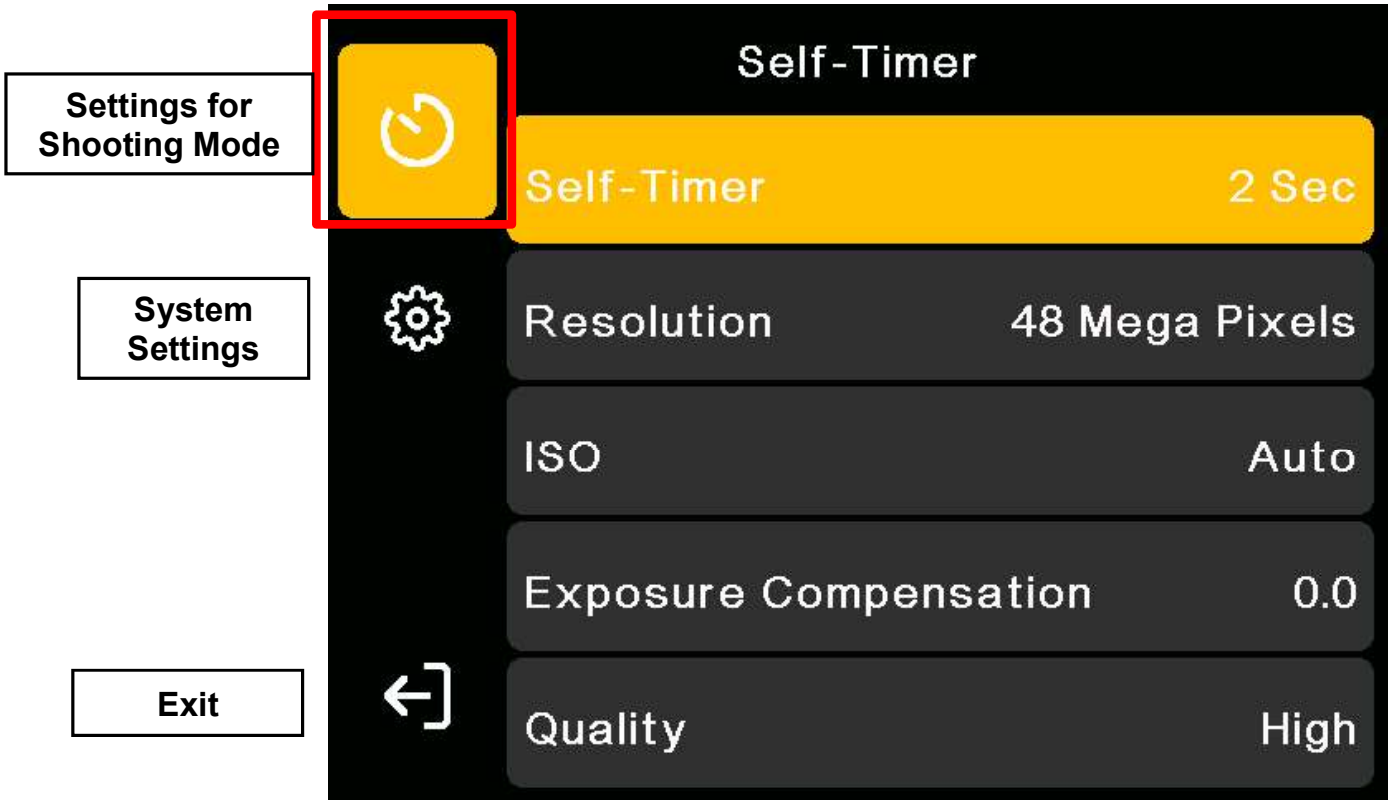
3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo. The pre-selected timer will begin to count down and will capture a photo once the time has elapsed. For example, if the setting is “5 Sec”, the camera will countdown 5 seconds and then automatically capture a photo.

When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to the capture the photo. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.

2.3.1 Self-Timer Photo Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

2.3.2 Self-Timer

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

1. In Self-Timer Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Self-Timer'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *2 Sec, 5 Sec,* and *10 Sec.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3.3 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 Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *48 Mega Pixels, 36 Mega Pixels, 20 Mega Pixels,* and *12 Mega Pixels*.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3.4 ISO

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

1. In Self-Timer Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600,* and *ISO 3200.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3.5 Exposure Compensation

This menu adjusts the frame brightness in your scene.

1. In Self-Timer Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3.6 Quality

This menu adjusts the visible detail of a photograph by determining the level of compression that the camera uses when saving photos to a memory card. For example, *High* uses the least amount of compression for saving, and as a result produces a higher photo quality.

1. In Self-Timer Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *High, Middle,* and *Low.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3.7 Date & Time Stamp

This menu 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 Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.3.8 Photo Stabilization

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

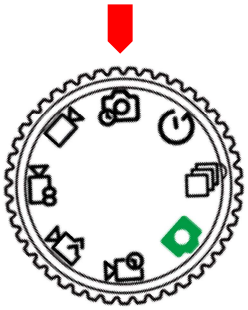
1. In Self-Timer Photo Mode press the **MENU** button.
2. Select the Self-Timer Photo icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4 Time Lapse (Photo) Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Time Lapse (Photo)** mode. The dial can be rotated in either direction.



Time Lapse (Photo) Mode



This mode will allow you to enable an automatic capture of photos set by a time interval and duration. There are 2 settings that will determine the "**Interval**" and "**Duration**".

The **Interval** setting is the amount of time the camera will wait in between each auto capture. For example, an **Interval** setting of "10 seconds" will set the camera to automatically capture a photo every 10 seconds.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

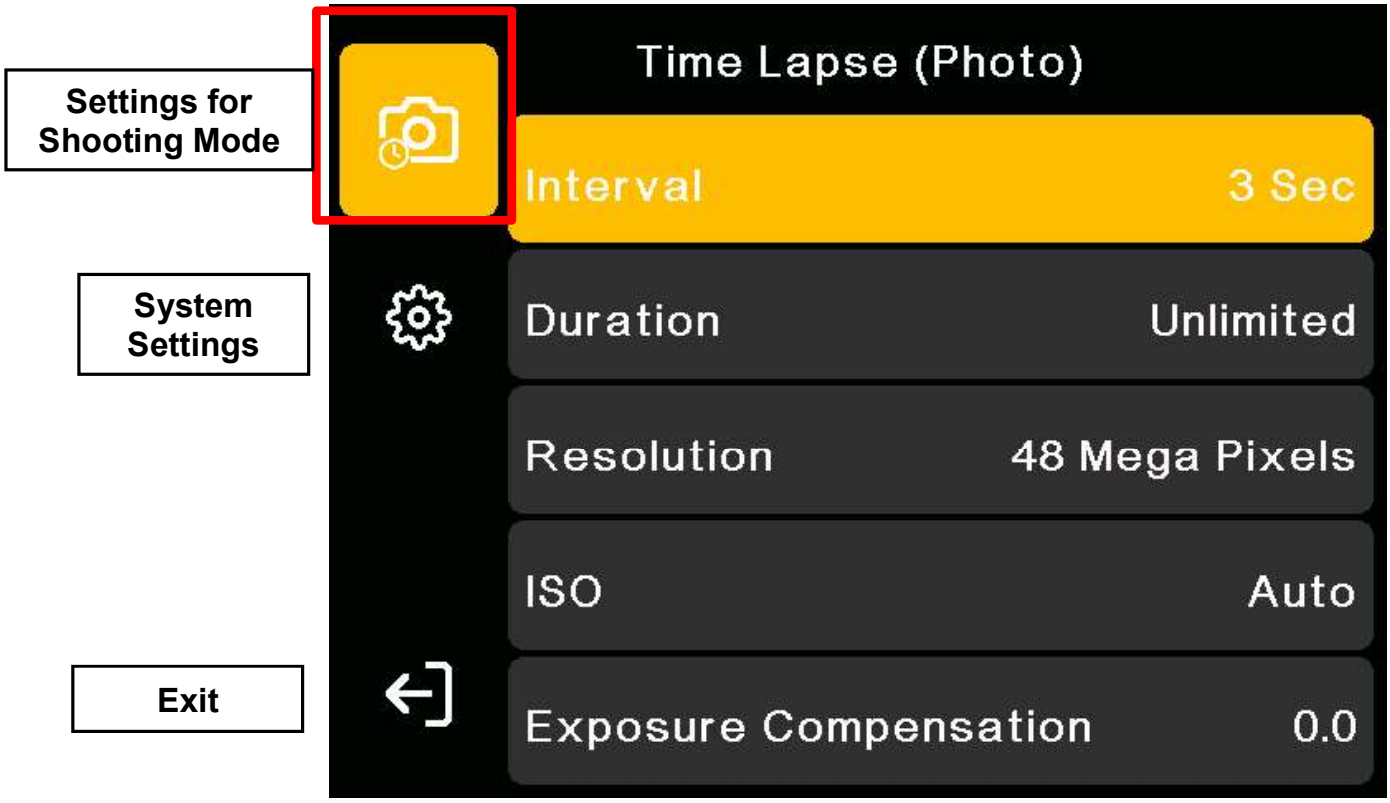
3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo. The 2 pre-selected **Interval** and **Duration** settings will begin to capture photos based on these 2 settings. With an Interval setting of "10 seconds" and a Duration setting of "5 Minutes", the camera will automatically capture a photo every 10 seconds for 5 minutes, and then stop automatically.

When half-pressing the **SHUTTER** button, the lens will attempt to focus on your intended subject. Once a satisfactory focus is achieved, the monitor will display a green rectangle and make a beep sound to notify you that it has achieved a clear focus. You may then fully press the **SHUTTER** button to the capture the photo. If the monitor displays a red rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo may capture blurry.

2.4.1 Time Lapse (Photo) Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

2.4.2 Interval

This menu sets the amount of time the camera will wait between each photo capture for the time lapse compilation. For example, an Interval setting of "*10 seconds*" will set the camera to automatically capture a photo every 10 seconds for the time lapse compilation.

1. In Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Interval'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *3 Sec, 5 Sec, 10 Sec, 30 Sec,* and *1 Min.* Each setting represents the amount of time the camera will wait between each photo capture.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.3 Duration

This menu sets the amount of time the camera will run the Time Lapse program. For example, a Duration setting of "*5 Minutes*" will run the Time Lapse capture program for 5 minutes and then stop.

1. In Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Duration'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *You may select from Unlimited, 5 min, 10 Min, 15 Min, 20 Min, 30 Min* and *60 Min.* Each setting represents how long the camera will automatically capture photos based on the set interval.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.4 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 Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *48 Mega Pixels, 36 Mega Pixels, 20 Mega Pixels,* and *12 Mega Pixels*.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.5 ISO

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

1. In Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Auto, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600,* and *ISO 3200.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.6 Exposure Compensation

This menu adjusts the frame brightness in your scene.

1. In Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.7 Quality

This menu adjusts the visible detail of a photograph by determining the level of compression that the camera uses when saving photos to a memory card. For example, *High* uses the least amount of compression for saving, and as a result produces a higher photo quality.

1. In Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *High, Middle,* and *Low.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.8 Date & Time Stamp

This menu 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 Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

2.4.9 Photo Stabilization

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

1. In Time Lapse (Photo) Mode press the **MENU** button.
2. Select the Time Lapse (Photo) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

Using the Camera – Video Capture

3.0 Video Shooting Modes

The MND70 features four separate video shooting modes as explained below.



Video Mode:

Video Mode is a standard video recording mode. Only one video file can be recorded per shutter press. Press the shutter button to begin recording, and press the shutter button to stop recording.



Loop Recording:

Loop Recording mode will allow you to enable an automatic capture of multiple video recordings in a loop determined by the duration setting. For example, a “1 minute” setting will automatically capture 1-minute long recordings until the memory card storage depletes or until you stop the recording. To start or stop recording, simply press the Shutter button.



Slow-Motion:

Slow-Motion mode will allow you to record a slow-motion video. The camera will record a video at a higher frame rate resulting in a slower motion. The file will also play back in slower motion. The Resolution setting will determine the capture quality and play back duration. For example, a “720 8X” slow-motion setting will record a video in 720P resolution and will play back the file 8 times slower than the recorded duration. If the recorded duration of the original recording was 5 seconds, the play back duration will be 40 seconds.



Time-Lapse (Video):

Time-lapse 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, a photo 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 set intervals to record changes that take place slowly over time. When the frames are shown at normal speed, or in quick succession, the action seems much faster.

When entering this shooting mode, it will allow you to enable an automatic recording of video set by a time **interval** and a **duration**. There are 2 settings that will determine the “**Interval**” and “**Duration**”.

The **Interval** setting is the interval in which the camera will capture photos for the time-lapse based on a default 30 frames per second. For example, an **Interval** setting of “*5 seconds*” will capture 150 photos (5 seconds multiplied by 30 frames per second).

The **Duration** setting is the amount of time the camera will run the “Time-Lapse (Video)” program and record the scene. For example, a Duration setting of “*10 Minutes*” will capture video for 10 minutes and then stop. With an **Interval** setting of “*5 seconds*” and a **Duration** setting of “*10 Minutes”,* the camera will record video for 10 minutes and then play it back in a compressed time of 4 seconds long.

The calculation to determine the playback length is:
Duration (in seconds) / (Interval * 30 frames per second)

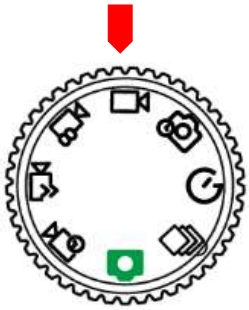
Using an **Interval** setting of “*5 seconds*” and a **Duration** setting of “*10 Minutes”,* the calculation to determine the playback length is:
10 minutes / (5 seconds * 30 frames per second) =
600 seconds / 150 = 4

3.1 Video Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Video** mode. The dial can be rotated in either direction.



Video Mode



Video Mode is a standard video recording mode. Only one video file can be recorded per shutter press. Press the shutter button to begin recording, and press the shutter button to stop recording.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, fully press the **SHUTTER** button begin recording. You may also refocus in the middle of a recording by tapping or halfway pressing the **SHUTTER** button.

4. To pause recording, press the **OK** 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 **OK** button again.

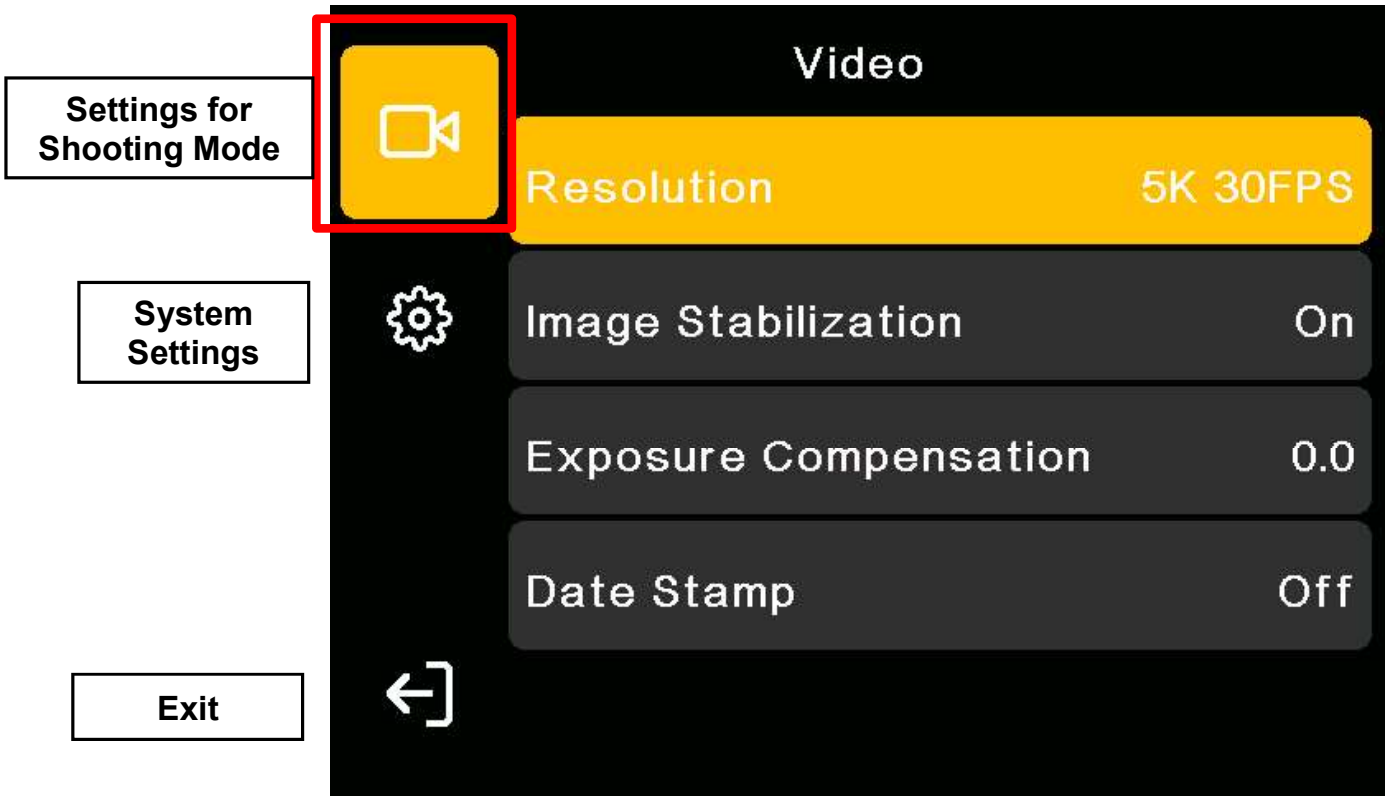
5. To stop recording, fully press the **SHUTTER** button again. Each time you stop a recording, the camera will create a separate, new video file.

During a recording, the time counter will incrementally increase with each passing second. During standby, the available time duration of video recordings that can be captured at a particular resolution will be displayed at the bottom right corner of the screen. The available recording time is determined by the selected video resolution. The higher the resolution setting, the less amount of recording time you are able to be save to the memory card. Before recording any video, you can select a preferred resolution within the settings menu.

3.1.1 Video Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

3.1.2 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.

1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *5K 30FPS, 4K 30FPS, 1080P 120FPS, 1080P 60FPS,* and *720P 240FPS.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.1.3 Photo Stabilization

This menu 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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.1.4 Exposure Compensation

This menu 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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.1.5 Date & Time Stamp

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

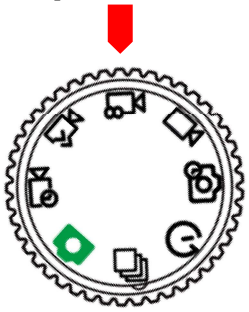
1. In Video Mode press the **MENU** button.
2. Select the Video icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.2 Loop Recording Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Loop Recording** mode. The dial can be rotated in either direction.



Loop Recording 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 **SHUTTER** button, the camera 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.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, fully press the **SHUTTER** button begin recording. You may also refocus in the middle of a recording by tapping or halfway pressing the **SHUTTER** button.

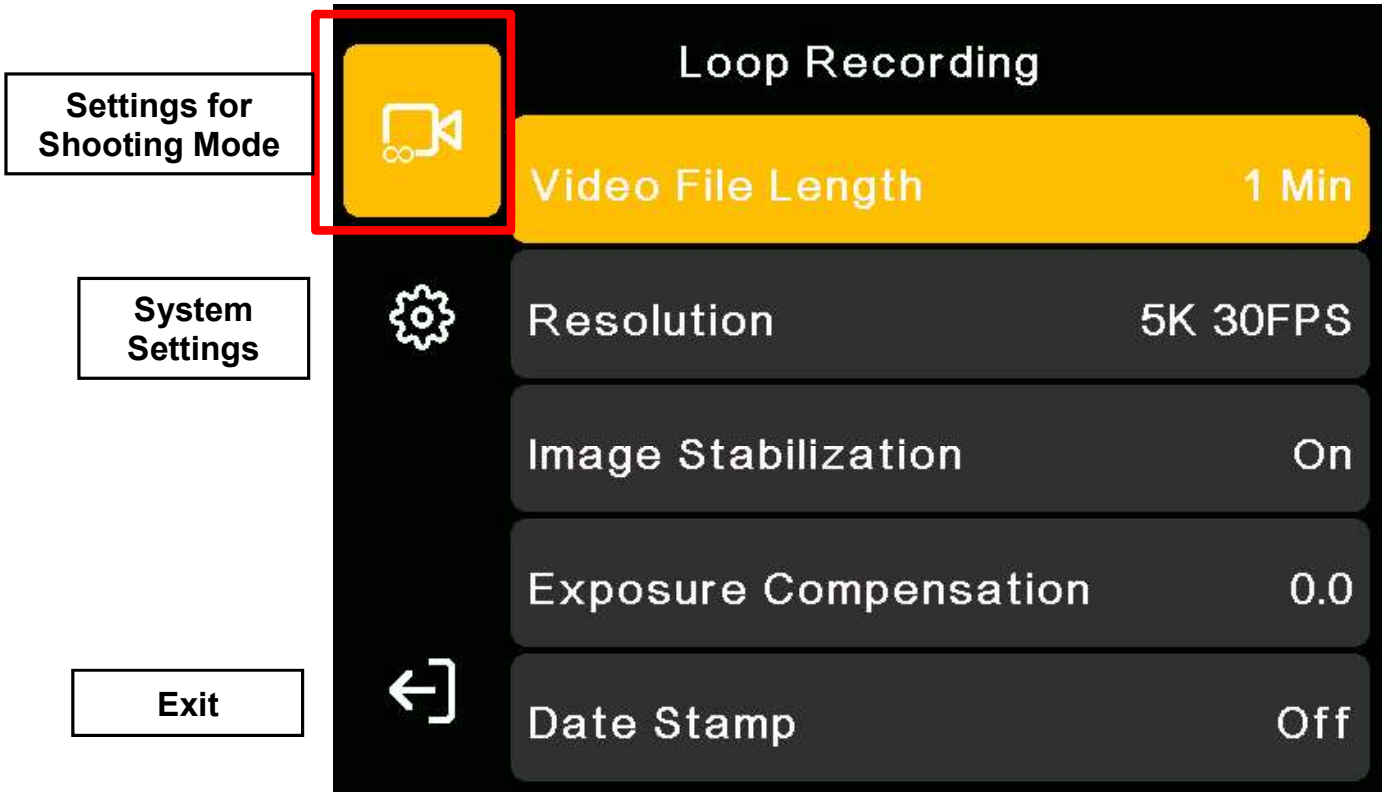
4. To pause recording, press the **OK** button. Pausing a recording will simply pause a recording to allow you to continue recording to the same original file. When resuming, it will resume recording to the same file. To resume recording, press the **OK** button again.

5. To stop recording, fully press the **SHUTTER** button again. Each time you stop a recording, the camera will create a separate, new video file.

3.2.1 Loop Recording Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

3.2.3 Video File Length

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

1. In Loop Recording Mode press the **MENU** button.
2. Select the Loop Recording icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Video File Length'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *1 Min, 3 Min, 5 Min,* and *10 Min.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.2.4 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.

1. In Loop Recording Mode press the **MENU** button.
2. Select the Loop Recording icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *5K 30FPS, 4K 30FPS, 1080P 120FPS, 1080P 60FPS,* and *720P 240FPS.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.2.5 Photo Stabilization

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

1. In Loop Recording Mode press the **MENU** button.
2. Select the Loop Recording icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.2.6 Exposure Compensation

This menu adjusts the frame brightness in your scene.

1. In Loop Recording Mode press the **MENU** button.
2. Select the Loop Recording icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.2.7 Date & Time Stamp

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

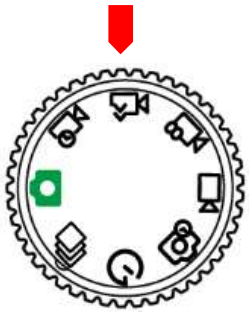
1. In Loop Recording Mode press the **MENU** button.
2. Select the Loop Recording icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
   Press the **MENU** button to exit the settings menu.

3.3 Slow Motion Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Slow Motion** mode. The dial can be rotated in either direction.



Slow Motion Mode



Slow Motion mode will record a video at a higher frame rate resulting in a slower motion. The file will also play back in slower motion. The Resolution setting will determine the capture quality and play back duration. For example, a “720 8X” slow-motion setting will record a video in 720P resolution and will play back the file 8 times slower than the recorded duration. If the recorded duration of the original recording was 5 seconds, the play back duration will be 40 seconds.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, fully press the **SHUTTER** button begin recording. You may also refocus in the middle of a recording by tapping or halfway pressing the **SHUTTER** button.

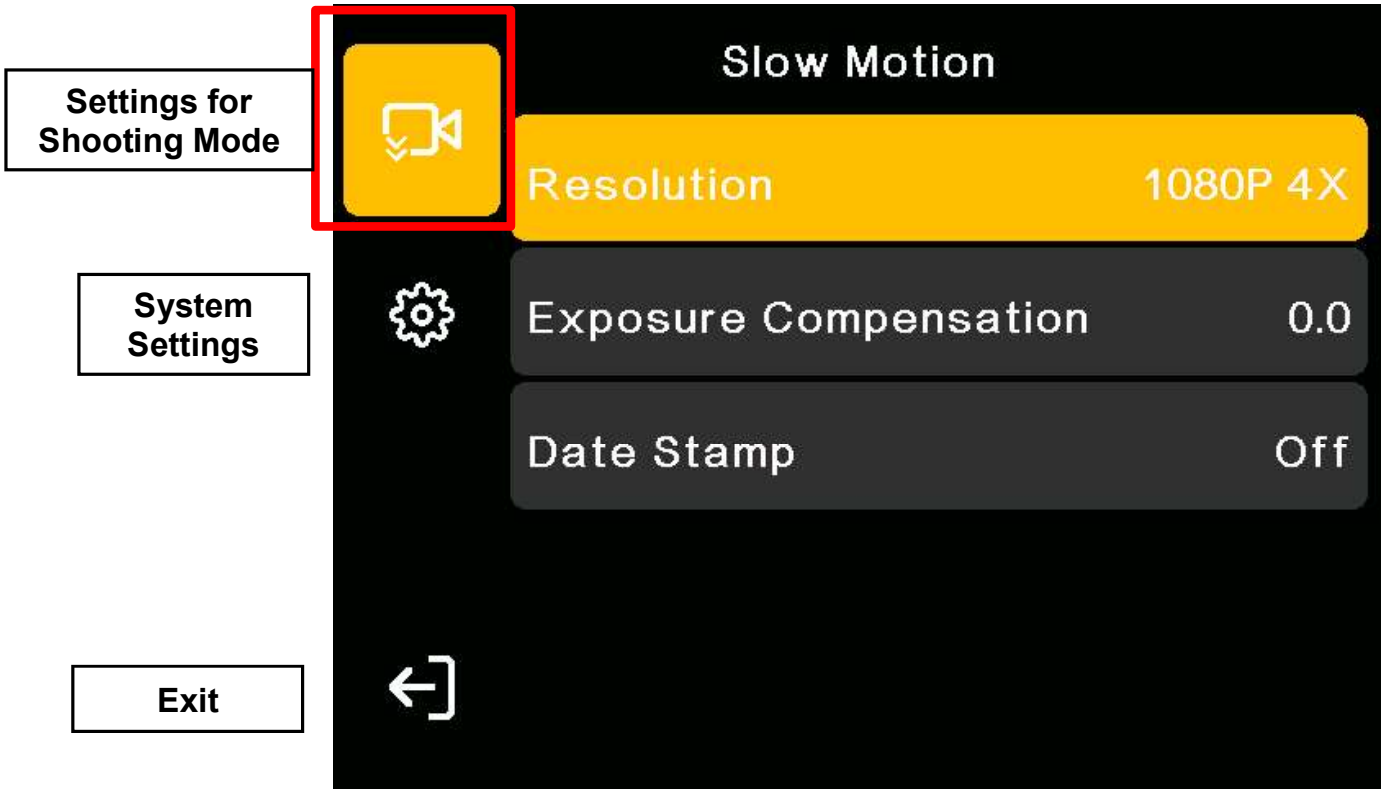
4. To stop recording, fully press the **SHUTTER** button again. Each time you stop a recording, the camera will create a separate, new video file.

During a recording, the time counter will incrementally increase with each passing second. During standby, the available time duration of video recordings that can be captured at a particular resolution will be displayed at the bottom right corner of the screen. The available recording time is determined by the selected video resolution. The higher the resolution setting, the less amount of recording time you are able to be save to the memory card. Before recording any video, you can select a preferred resolution within the settings menu.

3.3.1 Slow Motion Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

3.3.2 Resolution

This menu sets the video resolution and playback duration of the video being recorded. The camera will record a video at a higher frame rate resulting in a slower motion. The file will also play back in slower motion. For example, a “720 8X” slow-motion setting will record a video in 720P resolution and will play back the file 8 times slower than the real recorded duration. If the recorded duration of the original recording was 5 seconds, the play back duration will be 40 seconds.

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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *‘Resolution’* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *1080P 4X, 720P 8X,* and *720P 4X.* As a guide, the “720P 8X” setting will record a video in 720P resolution and will play back the video 8 times slower than the real recorded duration.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.3.3 Exposure Compensation

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 by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *‘Exposure Compensation’* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.3.4 Date & Time Stamp

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

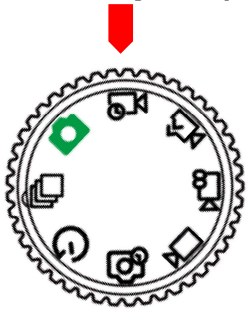
1. In Slow Motion Mode press the **MENU** button.
2. Select the Loop Recording icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *‘Date & Time Stamp’* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
   Press the **MENU** button to exit the settings menu.

3.4 Time Lapse (Video) Mode

Power the camera on and rotate the **Shooting Mode Dial** at the top of the camera to **Time Lapse (Video)** mode. The dial can be rotated in either direction.



Time Lapse (Video) Mode



Time-lapse 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 photo 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 set intervals to record changes that take place slowly over time. When the frames are shown at normal speed, or in quick succession, the action seems much faster.

When entering this shooting mode, it will allow you to enable an automatic recording of video set by a time **interval** and a **duration**. There are 2 settings that will determine the "**Interval**" and "**Duration**".

The **Interval** setting is the interval in which the camera will capture photos for the time-lapse based on a default 30 frames per second. For example, an **Interval** setting of "*5 seconds*" will capture 150 photos (5 seconds multiplied by 30 frames per second).

The **Duration** setting is the amount of time the camera will run the "Time-Lapse (Video)" program and record the scene. For example, a Duration setting of "*10 Minutes*" will capture video for 10 minutes and then stop. With an **Interval** setting of "*5 seconds*" and a **Duration** setting of "*10 Minutes",* the camera will record video for 10 minutes and then play it back in a compressed time of 4 seconds long.

1. Point the lens toward the object you want to take a picture of and then frame it with the LCD monitor or viewfinder.

2. Use the **ZOOM** buttons to select **T**ele or **W**ide positions to zoom in or out of your subject.

3. Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, fully press the **SHUTTER** button begin recording. You may also refocus in the middle of a recording by tapping or halfway pressing the **SHUTTER** button.

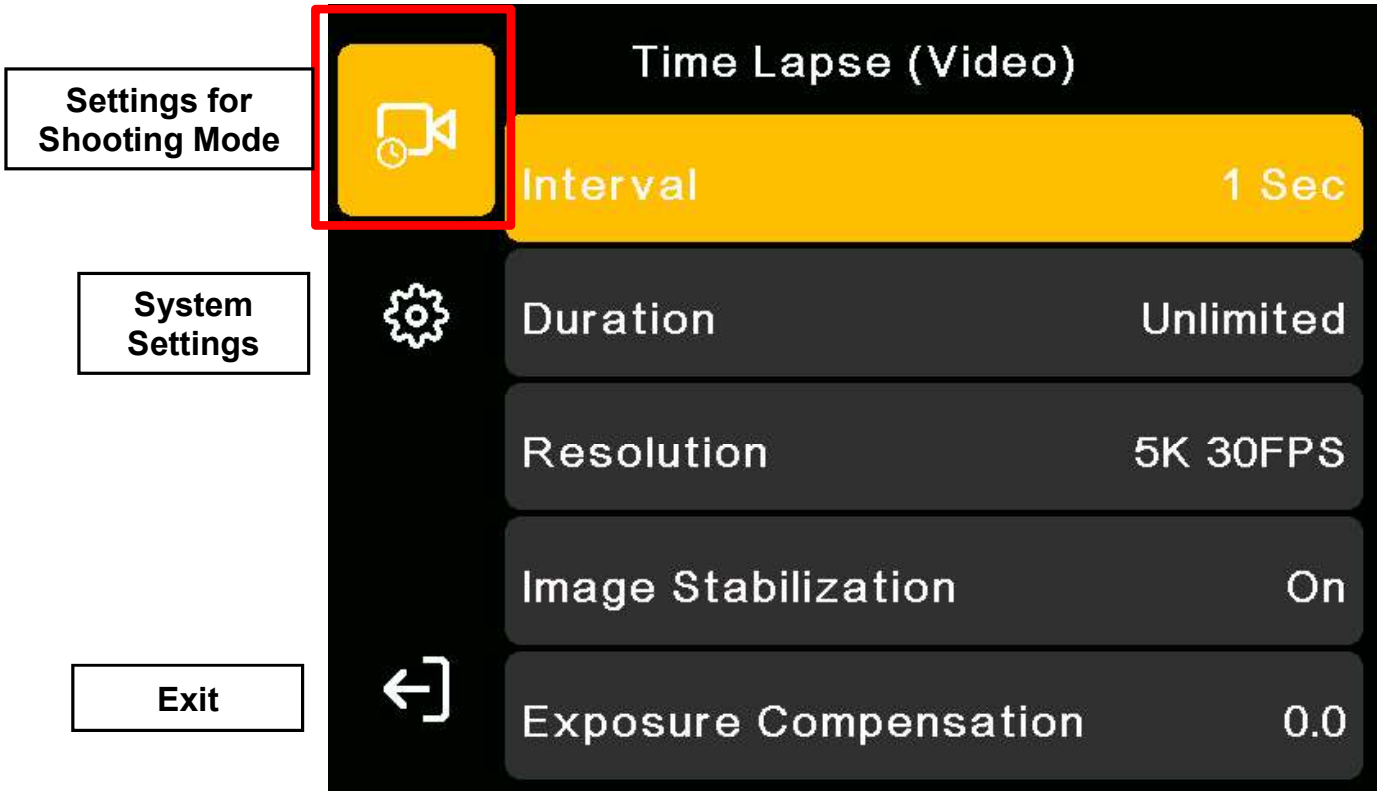
4. To stop recording, fully press the **SHUTTER** button again. Each time you stop a recording, the camera will create a separate, new video file.

During a recording, the time counter will incrementally increase with each passing second. During standby, the available time duration of video recordings that can be captured at a particular resolution will be displayed at the bottom right corner of the screen. The available recording time is determined by the selected video resolution. The higher the resolution setting, the less amount of recording time you are able to be save to the memory card. Before recording any video, you can select a preferred resolution within the settings menu.

3.4.1 Time Lapse (Video) Mode Settings

The settings menu adapts based on the current selected shooting mode. To access the settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

3.4.1 Interval

This menu sets the amount of time the camera will wait between each photo capture for the time lapse compilation. For example, an Interval setting of "*10 seconds*" will set the camera to automatically capture a photo every 10 seconds for the time lapse compilation.

1. In Time Lapse (Video) Mode press the **MENU** button.
2. Select the Time Lapse (Video) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Interval'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *3 Sec, 5 Sec, 10 Sec, 30 Sec,* and *1 Min.* Each setting represents the amount of time the camera will wait between each photo capture.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.4.2 Duration

This menu sets the amount of time the camera will run the Time Lapse program. For example, a Duration setting of "5 Minutes" will run the Time Lapse capture program for 5 minutes and then stop.

1. In Time Lapse (Video) Mode press the **MENU** button.
2. Select the Time Lapse (Video) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Duration'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *You may select from Unlimited, 5 min, 10 Min, 15 Min, 20 Min, 30 Min* and *60 Min.* Each setting represents how long the camera will automatically capture photos based on the set interval.
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.4.3 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.

1. In Time Lapse (Video) Mode press the **MENU** button.
2. Select the Time Lapse (Video) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Resolution'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *5K 30FPS,* and *4K 30FPS.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.4.4 Photo Stabilization

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

1. In Time Lapse (Video) Mode press the **MENU** button.
2. Select the Time Lapse (Video) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Photo Stabilization'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off,* and *On.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.4.5 Exposure Compensation

This menu adjusts the frame brightness in your scene.

1. In Time Lapse (Video) Mode press the **MENU** button.
2. Select the Time Lapse (Video) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Exposure Compensation'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *-2.0* to *+2.0.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

3.4.6 Date & Time Stamp

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

1. In Time Lapse (Video) Mode press the **MENU** button.
2. Select the Time Lapse (Video) icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, Date,* and *Date & Time.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

4.0 Playback Mode

Playback mode will allow you to review all of your captured videos and photos. To enter **Playback** mode, press the **PLAYBACK** button. To exit **Playback** mode at any time, press the **PLAYBACK** button again.



4.1.1 Playback Mode Navigation and Screen Explanation

Once you enter **Playback** mode, use the **LEFT** and **RIGHT** buttons to navigate through all the captured files. Below is an explanation of each of the button's functions when in **Playback** mode.

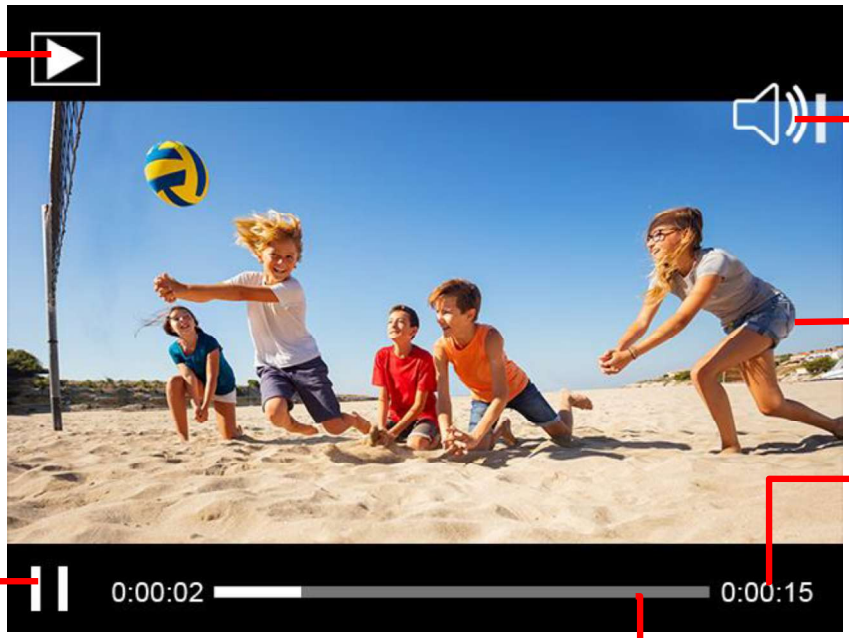


4.1.2 Photo Playback Screen Explanation



Photo Playback

4.1.2 Video Playback Screen Explanation



Video Playback

4.1.3 Playback Screen Menu

The Playback settings menu adapts based on the file selected. The menu will only apply to the currently selected file. To access the Playback settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To exit the Playback settings menu at any time, press the **MENU** button again.

4.1.3.1 Delete

This menu allows to delete a single selected file or all files. Alternatively, you may use press the **DOWN** button in Playback mode to quickly access the *Delete* menu.

1. In Playback Mode press the **MENU** button.
2. Select *'Delete'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
3. You may select from *Single* and *All.*
4. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
5. Press the **MENU** button to exit the settings menu.

4.1.3.2 Rotate

This menu allows you to rotate a single selected file.

1. In Playback Mode press the **MENU** button.
2. Select *'Rotate'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
3. You may select from *Rotate, Save* and *Back.*
4. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm. Once you select Rotate, the selected photo will rotate. Once you are satisfied with the rotated angle, select Save and press the **OK** button.
5. Press the **MENU** button to exit the settings menu.

4.1.3.3 Protect

This menu allows you to protect a single selected file or all files from accidental deletion within the Playback menu.
NOTE: This will not protect files from deletion when formatting your memory card.

1. In Playback Mode press the **MENU** button.
2. Select *'Protect'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
3. You may select from *Protect This File, Unprotect This File, Protect All* and *Unprotect All.*
4. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm. Once a file is protected, a lock icon will appear in the upper right of the screen.
5. Press the **MENU** button to exit the settings menu.

4.1.3.4 Slide Show

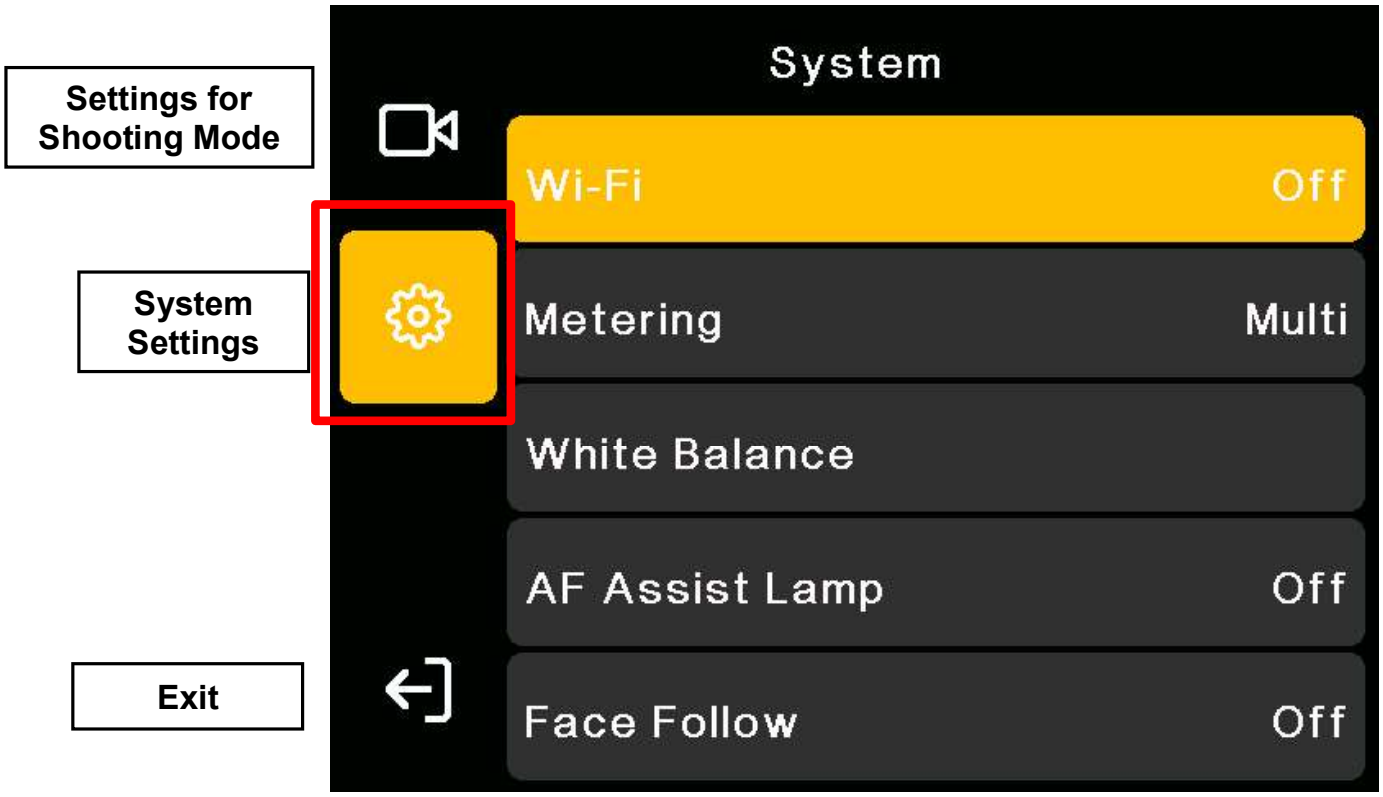
This menu allows you to initiate a slide show playback of all files captured. The setting will determine how long each file is displayed before proceeding to the next file in the sequence.

1. In Playback Mode press the **MENU** button.
2. Select *'Slide Show'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
3. You may select from *2 Sec* and *5 Sec.* This setting will determine how long each file is displayed before proceeding to the next file in the sequence.
4. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
5. Press the **MENU** button to stop the slide show and return to the default Playback screen.

5.0 System Settings

To access the system settings menu, press the **MENU** button. Once in the menu, use the **UP**, **DOWN, LEFT,** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button.

The setting menu is separated by two submenus. The top most icon represents settings relevant to the current selected shooting mode. The middle icon represents the system settings related to the general operation of the camera. The bottom icon allows you to exit the menu.



To cycle between the submenu icons, use the **LEFT** and **RIGHT** buttons to navigate. To confirm a menu selection, press the **OK** button. To quickly exit the settings menu, press the **MENU** button again.

5.0.1 Wi-Fi

This menu will enable the Wi-Fi function on your camera. Below are quick instructions for enabling the Wi-Fi option. Refer to **Section 6.0** 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 top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Wi-Fi'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *On* and *Off.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm. To turn off Wi-Fi from this screen, press the **MENU** button.
6. Press the **MENU** button to exit the settings menu.

5.0.2 Metering

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 monitor. Multi metering measures light on each area after dividing the total area into multiple areas and determines the proper exposure of the entire screen.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Center, Multi,* and *Spot.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.3 White Balance

White Balance changes the color of light in your scene, making it seem warmer or cooler depending on how the light you're shooting in affects the frame.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Auto, Daylight, Cloudy, Tungsten Light, Fluorescent (H),* and *Fluorescent (L).*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.4 AF Assist Lamp

This setting enables the auto focus assist lamp to assist the camera's auto focus lens in attaining a proper focus point.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'AF Assist Lamp'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Auto* and *Off.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.5 Face Follow

Face Follow detects faces in a scene and optimizes the scenery color and focus for optimum clarity and hue.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Face Follow'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *On* and *Off.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.5 Filter

This menu sets a creative color filter effect of the photo or video being captured to create unique and fun photos and videos.

Alternatively, you can access this setting quickly by pressing the **OK** button while in any shooting mode. Each filter effect is unique and adds a creative touch to your captured photos and videos.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Filter'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Normal, Humanity, Film, Blue, Tone, Delicious, Texture, Natural, Vivid, Fresh, Contrast (H), Warm, Cold, B&W,* and *Sepia.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.6 Light Frequency

This menu sets the frequency of the camera from 50Hz to 60Hz. Please check the frequency of your location to set accordingly. The default frequency for the United States is 60Hz.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Light Frequency'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *50H* and *60Hz.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.7 Sounds

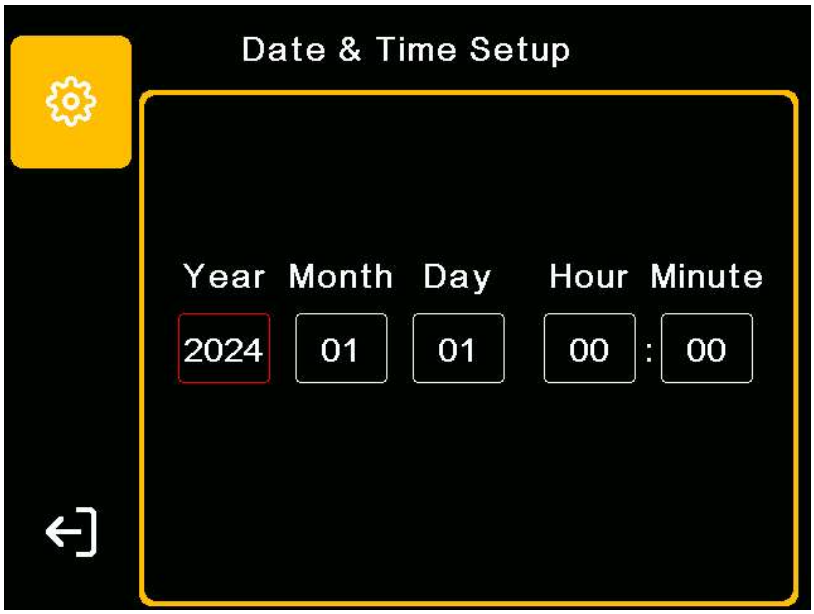
This menu allows you to enable or disable various system sounds and set the volume.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Sounds'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select the sound feature for the shutter release and key-button presses.
5. Once entering the submenu for Shutter and Beep, you may select from *On* and *Off.*
6. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
7. Further down, you may adjust the volume for all system sounds. Select *'Volume'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
8. You may select from *Off, Low, Middle,* and *High.*
9. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
10. Press the **MENU** button to exit the settings menu.

5.0.8 Date & Time Setup

This menu sets system date and time for use when enabling the time stamp.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date & Time Setup'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You will be prompted with the screen below. Use the **UP** or **DOWN** buttons to cycle each column's value. Use the **LEFT** and **RIGHT** buttons to proceed to the next column. Press the **OK** button to set confirm the value and to save.
5. Press the **MENU** button to exit the settings menu.



5.0.9 Date Format

This menu sets the date format for the system.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Date Format'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *YY/MM/DD, MM/DD/YY,* and *DD/MM/YY.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.10 Auto Power-Off

This menu sets the duration of time in which the camera 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 top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Auto Power-Off'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Off, 1 Min, 3 Min,* and *5 Min.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.11 Language

This menu sets the system language.

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Language'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
5. Press the **MENU** button to exit the settings menu.

5.0.12 Format Memory Card

This menu 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 top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Format Memory Card'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Yes* and *No.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.13 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 top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Factory Reset'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu.
4. You may select from *Yes* and *No.*
5. Highlight your selection using the **UP** or **DOWN** buttons and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu.

5.0.14 Version

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

1. In any Shooting Mode press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Version'* using the **UP** or **DOWN** buttons.
4. Press the **MENU** button to exit the settings menu.

6.0 Wi-Fi

The MND70 includes a Wi-Fi feature that will allow you to connect your camera to your smartphone. When connecting your camera to your smartphone, you can utilize your smartphone as a remote viewfinder with live viewing to fully control your camera and transfer all captured photos and videos to your smartphone.

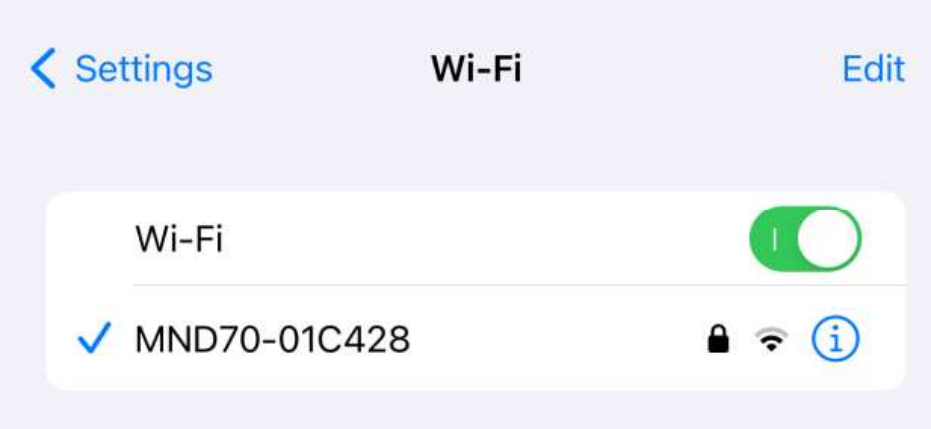
To wirelessly operate the MND70 camera, you will first need to install the "**iSmart DV2**" app on your Android or iOS device. To download the app, search for "**iSmart DV2**" in the Apple App Store or Google Play Store.

1. To access the camera's Wi-Fi settings in any mode, press the **MENU** button.
2. Select the Gear icon on the top of the left side of the screen by using the **LEFT** and **RIGHT** buttons to navigate.
3. Select *'Wi-Fi'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the submenu. Select '*On'* and press the **OK** button to enable Wi-Fi.

Once you enable Wi-Fi, the **SSID** (camera's Wi-Fi network name) and **password** are displayed on the camera's monitor for connecting to your smartphone.



Open your smartphone's Wi-Fi menu, turn all Wi-Fi settings On and tap the network named "**MND70_XXXXXXXX**" to connect to the camera. When prompted, enter the password **1234567890**.

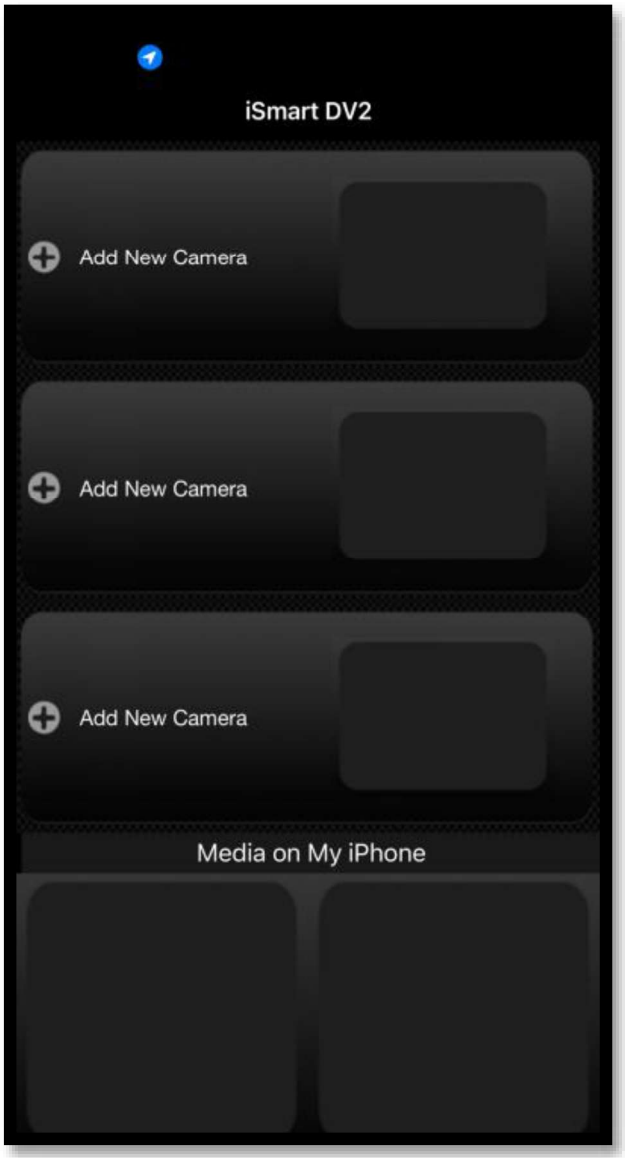


If your smartphone is having trouble finding the camera's Wi-Fi SSID/name, press the **MENU** again to exit the Wi-Fi status screen and try re-enabling the Wi-Fi setting. This will attempt to refresh the camera's Wi-Fi signal.



Once connected successfully, exit the Wi-Fi menu on your smartphone and open the "**iSmart DV2**" app to connect your camera 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 camera and will allow the app to work properly. The app will not operate properly with your camera 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 camera. If not enabled, it will prevent your camera from connecting to the "**iSmart DV2"** app.

To exit Wi-Fi mode on your camera, press the **MENU** button and your camera will return to the main shooting screen.

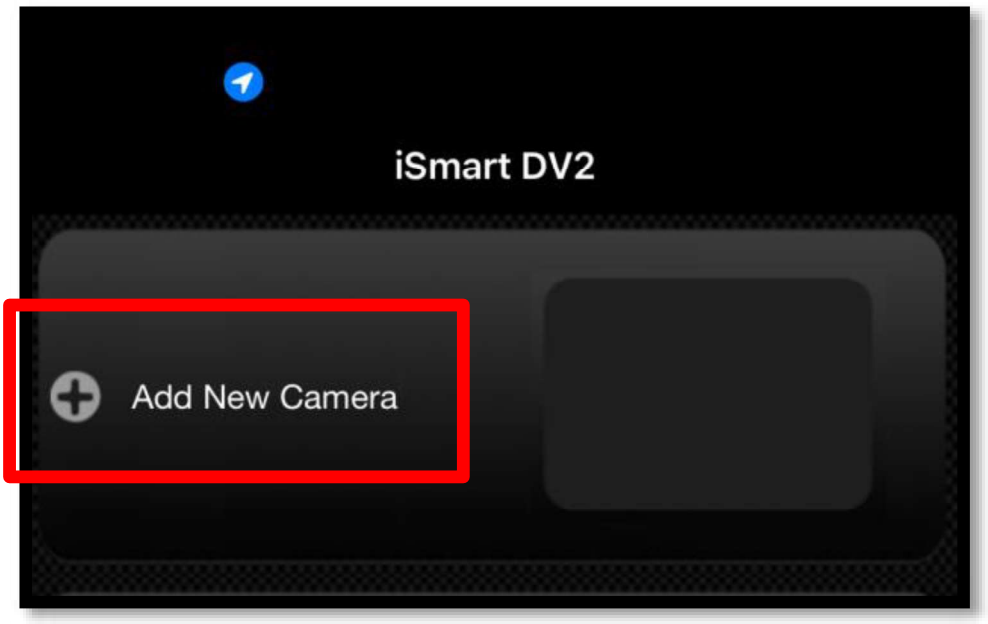


6.1 Wi-Fi and Smartphone App Guide

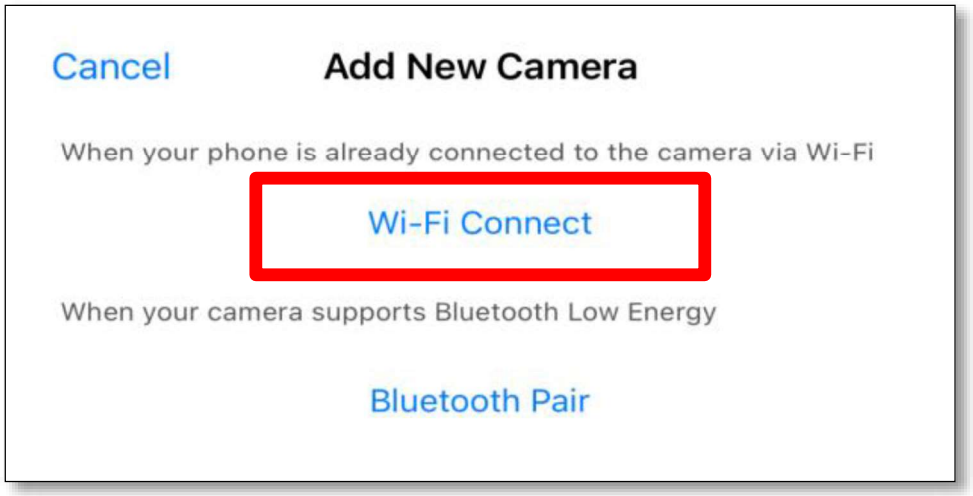
The figures provided in this user manual will offer a simple guide and explanation of the "**iSmart DV2**" app. The "**iSmart DV2**" smartphone app may be updated periodically and the version displayed on your smartphone may differ slightly than the figures shown in this User Manual.

After following the instructions on enabling Wi-Fi on your camera and connecting to your smartphone, exit the Wi-Fi menu on your smartphone and open the "**iSmart DV2**" app to connect your camera to the app.

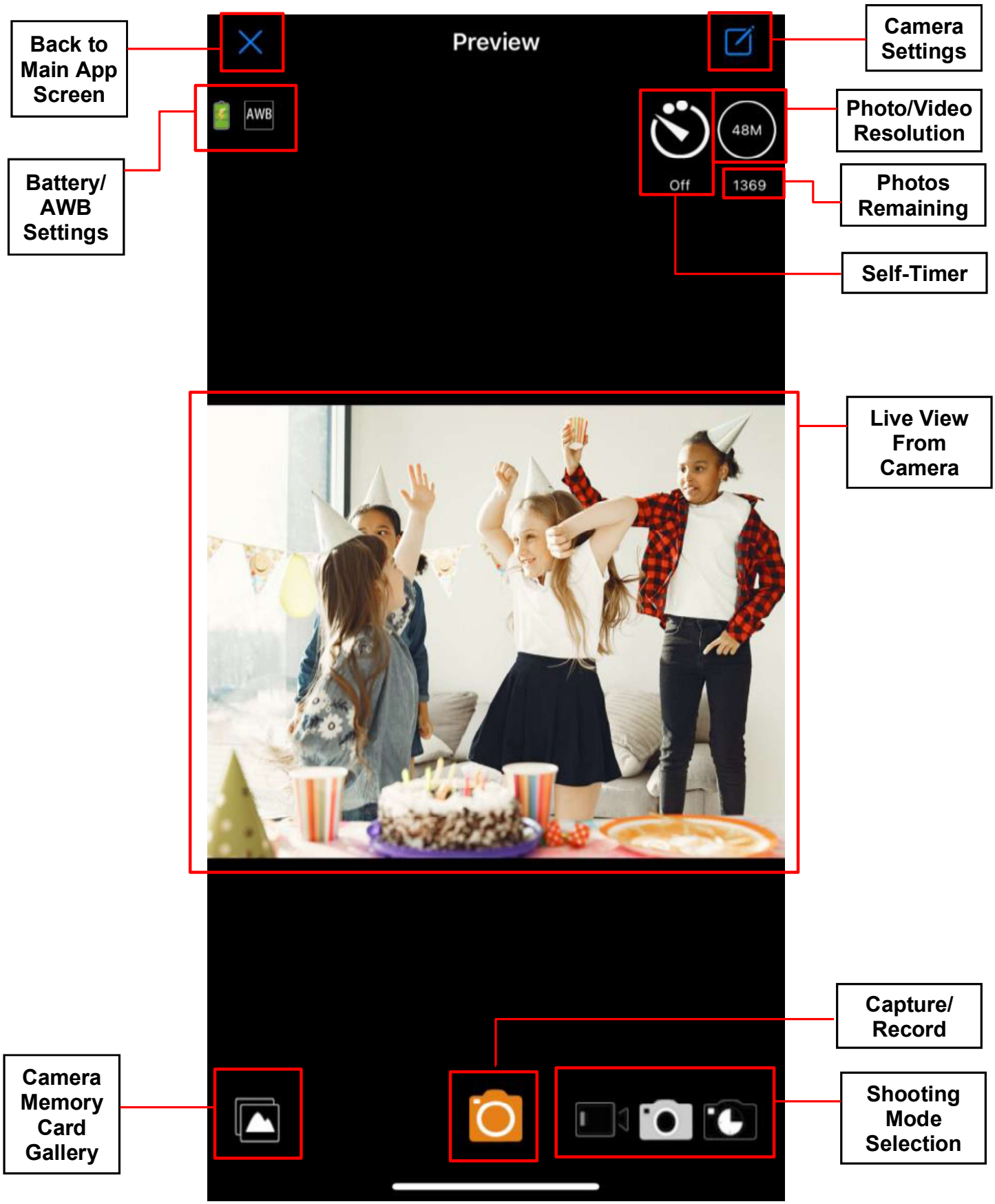
Once the "**iSmart DV2**" app launches, you'll be prompted with the below app screen. Tap **Add New Camera** on your smartphone screen.



Tap **Wi-Fi Connect** on your screen. The app will now attempt to connect to your camera. Your camera and smartphone should connect automatically within a few seconds and display a live video feed on the smartphone app.



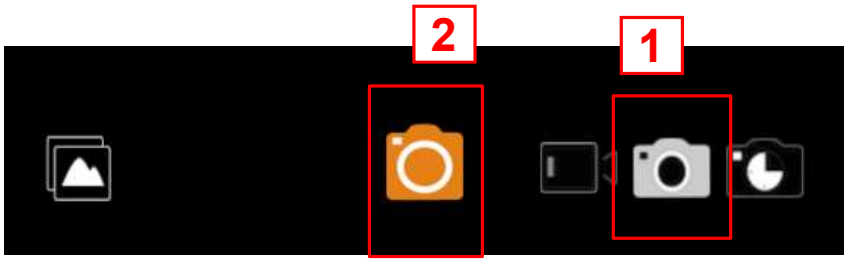
6.2.1 Smartphone App Main Screen Explanation



6.2.2 Smartphone App Main Screen Explanation

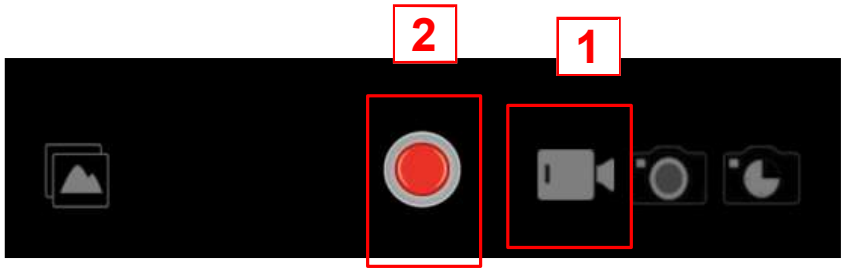
Capture Photo

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



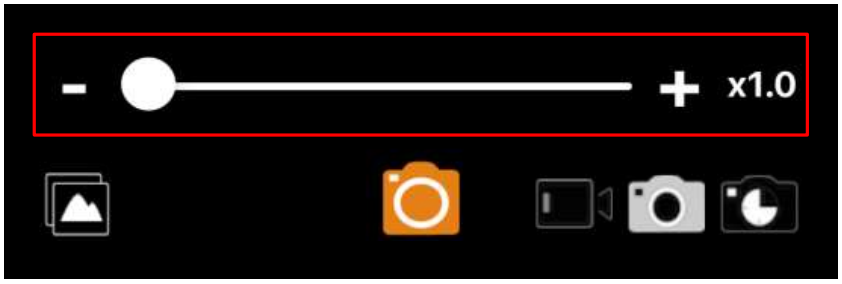
Record Video

To record 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 camera will begin to record a video. Tap the red **Record** icon again to stop recording.



Zooming In & Out

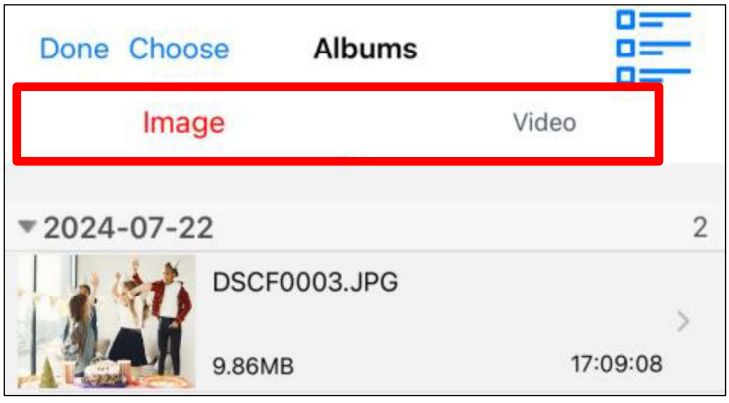
To zoom in and out, simply tap anywhere on the live feed and a zoom bar will appear at the screen. Then slide your finger along the zoom bar left or right to zoom in or out.



Download Photos & Videos to Smartphone

Tap the **Gallery** icon to access all photos and videos stored on your camera's memory card. Once you enter the Gallery, scroll to one of the shooting modes at the top. Now tap on a file to preview. Then tap the **Download** button in the bottom corner. You may also **Delete** a file from this same screen.





7.0 Technical Specifications

Model Number	Minolta MND70
Lens (Main)	Auto Focus • f=3.37mm • F/2.2 • Electronic Lens Cover
Lens (Selfie)	Fixed Focus • f=3.37mm • F/2.2
Zoom	16X Digital Zoom
Photo Sensor	12MP CMOS Sensor (Main) • 12MP CMOS Sensor (Selfie)
Shutter	Electronic • Digital Photo Stabilization
Pixels (photo)	**JPEG:** 48 Mega Pixels • 36 Mega Pixels • 20 Mega Pixels • 12 Mega Pixels
Pixels (video)	**MP4**: 5K (30FPS) • 4K (30FPS) • 1080P (120FPS) • 1080P (60FPS) • 720P (240FPS)
ISO Sensitivity	Auto • 100 • 200 • 400 • 800 • 1600 • 3200
LCD Monitor	2.8” IPS LCD
Assistive Light	LED Flash • Video Light
Auto Power Off	OFF • 3 Minutes • 5 Minutes • 10 Minutes
White Balance Control	Auto • Sunny • Cloudy • Incandescent • Fluorescent
Color Filters	Normal • Humanity • Film • Blue • Tone • Delicious • Texture • Natural • Vivid • Fresh • Contrast (H) • Warm • Cold • B&W • Sepia
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) • HDMI-D Out • Accessory Shoe Mount
Power	Lithium-Ion 3.7V, 1050mAh (NP-40)
Dimensions	4.6 x 3.1 x 1.1 in. • 5.1 oz.



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MINOLTA®
MND70