MINOLTA®

4K ULTRA HD

MND65
SELFIE-SHOT

MINOLTA

MND65

MINOLTA AF DIS UHD LENS

F:2.2 f=2.0mm Ø 52mm

MND65 User Manual

About this Manual
Congratulations on purchasing the Minolta MND65 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.

Safety and Handling Precautions

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, please do not use the camera while you are walking, driving or extreme riding a vehicle.
- Please 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.
- Please 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. Please 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.

Notes about Opening and Closing the Battery Door

- Make sure the camera and your hands are not wet.
- Make sure that there are no debris inside the battery-chamber or memory card slot.
- Make sure that the battery cover is firmly closed and the security lock is in the lock position.

Precautions When Cleaning

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

Do Not Apply Strong Impact to the Camera

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

Avoid Sudden Changes in Temperature

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

Keep Away from Strong Magnetic Fields

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

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

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

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

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

Notes about the LCD Screen

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

The Battery

Precautions for Use

- 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.

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.

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. Please recycle used batteries in accordance with local regulations.

Cleaning After Using the Camera

Use a blower to remove any dust or lint that adheres to the lens, monitor or camera body. To remove fingerprints or other stains that cannot be removed with a blower, gently wipe the parts with a soft dry cloth. If you wipe with too much pressure or with a rough cloth, it may damage the camera or cause a malfunction.

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).
- Place next to equipment that produces strong electromagnetic field, such as television or radios.

To prevent mold or mildew, take the camera out of storage at least once a month, and turn it on and release the shutter a few times before putting it away again.

1.1 Camera Interface
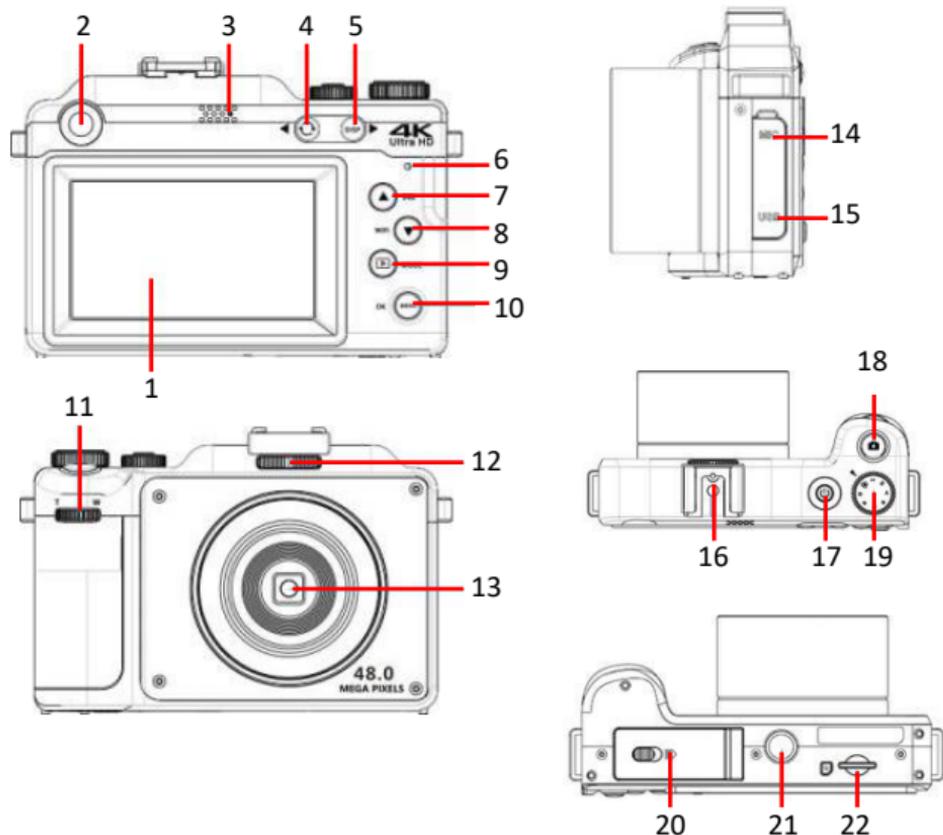
1. LCD Screen	9. Mode	17. Power
2. Rear Camera Lens	10. Ok | Menu	18. Shutter
3. Microphone	11. Zoom	19. Color Effect Dial
4. Left | Switch Lens	12. LED Flash	20. Battery Door
5. Right | Display	13. Front Camera Lens	21. Tripod Mount
6. Status LED Indicator	14. Mic Port	22. Memory Card Slot
7. Up | Delete	15. USB-C Port	
8. Down | Wi-Fi	16. Hot Shoe Mount	

1.2 Button Function Description

Function	Description
Power	Tap once to power on. Press and hold for 3 seconds to power off.
Color Effect Dial	Rotate to change color effect mode.
Zoom	**In Video or Photo:** Slide to zoom in and out.
Shutter	**In Photo:** Tap to capture a photo. **In Video:** Tap to start and stop recording.
Left | Switch Lens	**In Video or Photo:** Tap to switch active camera lens. Tap to scroll through menus, modes and media.
Right | Display	**In Video or Photo:** Tap to change the LCD screen display and to turn off the LCD screen. Tap to scroll through menus, modes and media.
Up | Delete	**In Playback:** Tap to access Delete and Protect settings. Tap to scroll through menus, modes and media.
Down | Wi-Fi	**In Video or Photo:** Tap to turn Wi-Fi on, tap again to turn Wi-Fi off. Tap to scroll through menus, modes and media.
Mode	Tap to switch between Photo, Video and Playback modes. **In Video or Photo:** Press and hold to access the mode selection screen. **In Settings:** Tap exit menus and submenus.
Menu | OK	Tap to show the settings available in each mode. **In Settings:** Tap to confirm selected setting. **In Playback:** Tap to view selected file. Tap to start and pause video playback.
Tripod Mount	Mount port for attaching to a tripod nut.
Battery Door	Door to cover the battery compartment.
Front Lens	Front capture device for all video and photo.
Rear Lens	Rear capture device for all video and photo.
Flash	LED Flash used to help capture images in dark environments.
Hot Shoe Mount	Used for attaching accessories.

Memory Card Slot	Used for inserting a memory card.
Mic Port	Used to connect an external microphone.
USB-C Port	Used to charge the camera and for connecting to a computer.

2. First Use

2.1 To Open the Battery Door

Unlock the battery door by sliding the battery door latch toward the center of the camera. Use a fingernail or other pointy object when sliding the latch to get a better grip. When the latch is fully open, the door will swing up.

2.2 Installing the Battery

Insert the lithium-ion battery into the battery compartment with the metal contacts facing the inside of the camera. The battery can only be inserted one way.

2.3 Installing the Memory Card

Insert the included Micro SD memory card to record and store your videos and photos. When the battery is low, media stored on the memory card will not be erased. Please insert the SD memory card by following the steps below:

1. Ensure that the camera is powered off.
2. Insert the memory card. Ensure that the metal contacts are inserted first. Push the memory card down until you hear an audible click.
   The memory card can only be inserted in one way. Do not force the card in if it will not go in smoothly.
3. To remove the memory card, simply push in and the card will eject back out.

> **NOTE:**
> • Please 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.

2.4 Charging the Battery

Connect your camera to the included AC adaptor with the USB cable provided for charging. Insert the small end of the USB plug into the camera's port under the USB port door, and the larger end in to the included AC adaptor. While charging the camera with the camera turned off, the LED indicator light will light up solid red, when finished charging the light will turn off. While charging the camera with the camera powered on, the battery symbol on the LCD screen will show as red.

2.5 Powering the Camera On/Off

Tap the **POWER** button once to power the camera on. To power the camera off, press and hold the **POWER** button for 3 seconds.
If the camera's battery is low, a "Low Power" message will display on the screen and it will automatically shut down within a few seconds to prevent memory corruption or loss.

2.6 Switching Modes

Press the **MODE** button to cycle between Photo, Video, and Playback

modes. In Photo or Video modes, press and hold the **MODE** button to access the mode selection screen. In the mode selection screen, you can select the following modes: Photo, Interval Photo, Photo Burst, Self Timer, Video, Slow Motion, Loop Recording, Time Lapse. While in mode selection, press the **LEFT** or **RIGHT** buttons to highlight your desired mode, then press the **OK** button to enter that mode. The corresponding mode will be displayed in the top left corner of the screen.

2.7 Connecting to a Computer

Your camera can connect to a computer to transfer photo and video files for viewing and editing, you can also use the camera as a webcam or you can use your computer to charge the camera. Once connected and powered on, the camera's screen will show "Charging mode", "Mass storage mode" and "PC camera". Use the **UP** or **DOWN** buttons to select your desired mode. Press the **OK** to select your desired mode.

2.8 Color Effect Dial

This function sets the color filter effect of a photograph or video. In Photo or Video modes, simply rotate the dial to switch the color effect modes, the modes available are below.
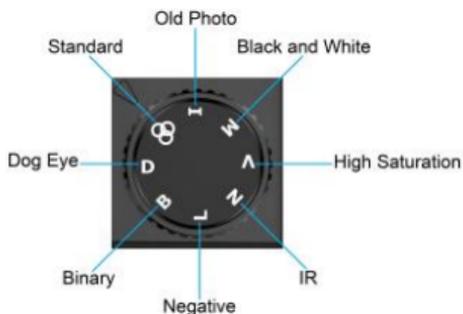
2.9 Flash

The LED flash is used to help brighten dark environments allowing you to capture images with clarity. Follow the steps in each photo mode section further in the manual. Please note: flash is only active in photo modes.

2.10 Using the Zoom Function

This camera has a digital zoom function. To operate the zoom function, slide the **ZOOM** button to the right to zoom in closer to the subject, and slide the **ZOOM** button to the left zoom away from the subject.

2.11 Rear Camera Lens

This camera is equipped with a rear camera lens allowing you take capture selfies with ease. To activate the rear lens, simply press the **SWITCH LENS** button. Please note: both lenses cannot be active at the same time.

3. Using the Camera

3.1 Photo Shooting

Power the camera on and it will be ready to take pictures right away. You may tap the **MODE** button once to switch to another mode or press and hold the **MODE** button to access the mode selection screen.

1. Line up your shot by looking at the LCD screen to see what is in the shot.
2. Hold the camera steady and press the **SHUTTER** button to capture a photo.
3. The number of photos that can be captured at a particular resolution will be displayed in the top right corner of the screen.
4. The number of photos that can be captured will be displayed as 0 on the screen if there is no memory card inserted in the camera's memory card slot.
5. The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution, 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.

3.1.1 Photo Size

This function 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 *'Photo Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Photo Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected resolution *(56MP, 48MP, 36MP, 24MP, 20MP, 16MP, 12MP, 8MP, 5MP)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.1.2 White Balance

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

1. In Photo Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.

3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**
   button to confirm your selected option *(Auto, Sunny, Cloudy,
   Incandescent, Florescent).*
4. Press the **MODE** button to exit the settings menu without making a
   selection.

3.1.3 Exposure

This function adjusts the frame brightness in your photograph.
1. In Photo Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK**
   button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**
   button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3).*
4. Press the **MODE** button to exit the settings menu without making a
   selection.

3.1.4 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 LCD and the Multi setting measures the
light at several points on the screen.
1. In Photo Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button
   to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**
   button to confirm your selected option *(Multi, Center, Spot, Matrix).*
4. Press the **MODE** button to exit the settings menu without making a
   selection.

3.1.5 Sharpness

This function adjusts the visible detail of a photograph.
1. In Photo Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK**
   button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**

button to confirm your selected option *(Sharp, Normal, Soft)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.1.6 Flash

This function allows to change the flash settings.
1. In Photo Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Flash'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.1.7 ISO

This function adjusts the light sensitivity in your photograph.
1. In Photo Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'ISO'* menu.
3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, 100, 200, 400, 800, 1600, 3200, 6400)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.1.8 Time Stamp

This setting allows you to imprint a date & time onto your captured image files. Once an image file is captured with the imprint, the imprint cannot be removed.
1. In Photo Mode press the **MENU** button.
2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.2 Interval Photo

In the interval photo mode, the camera will take a single photo at a set interval until stopped.

To enter interval photo mode, power the camera on and press and hold the **MODE** button. Use the **LEFT** or **RIGHT** buttons to select Interval Photo and press the **OK** button to enter the Interval Photo Mode.
1. Line up your shot by looking at the LCD screen to see what is in the shot.
2. Hold the camera steady and press the **SHUTTER** button to capture a photo and start the countdown.
3. At the end of each countdown, a new photo will be captured, each captured photo will be saved as an individual file.
4. To end the interval photo, press the **SHUTTER** button.
5. The number of photos that can be captured at a particular resolution will be displayed in the top right corner of the screen.
6. The number of photos that can be captured will be displayed as 0 on the screen if there is no memory card inserted in the camera's memory card slot.
7. The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution, 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.

3.2.1 Photo Size

This function sets the photo resolution. The higher the resolution, the greater the photo quality and the larger the file size of the photo.
1. In Interval Photo Mode press the **MENU** button.
2. Select *'Photo Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Photo Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(56MP, 48MP, 36MP, 24MP, 20MP, 16MP, 12MP, 8MP, 5MP)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.2 Interval Duration

This function will let you set the amount of time between each photo.

1. In Interval Photo Mode press the **MENU** button.
2. Select *'Interval Duration'* using the **UP** or **DOWN** buttons and press the OK button to enter the *'Interval Duration'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the OK button to confirm your selected option *(3 Seconds, 10 Seconds, 15 Seconds, 20 Seconds)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.3 White Balance

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

1. In Interval Photo Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.4 Exposure

This function adjusts the frame brightness in your photograph.

1. In Interval Photo Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

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

1. In Interval Photo Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.6 Sharpness

This function adjusts the visible detail of a photograph.
1. In Interval Photo Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Sharp, Normal, Soft)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.7 Flash

This function allows to change the flash settings.
1. In Interval Photo Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Flash'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.8 ISO

This function adjusts the light sensitivity in your photograph.
1. In Interval Photo Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to

enter the *'ISO'* menu.

3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(ISO Auto, 100, 200, 400, 800, 1600, 3200, 6400)*.

4. Press the **MODE** button to exit the settings menu without making a selection.

3.2.9 Time Stamp

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

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

2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.3 Photo Burst

In photo burst mode, the camera will take a set number of images with each press of the **SHUTTER** button.

To enter Photo Burst mode, power the camera on and press and hold the **MODE** button. Use the **LEFT** or **RIGHT** buttons to select Photo Burst and press the **OK** button to enter the Photo Burst Mode.

1. Line up your shot by looking at the LCD screen to see what is in the shot.
2. Hold the camera steady and press the **SHUTTER** button to capture the set number of photos.
3. The number of photos that can be captured at a particular resolution will be displayed in the top right corner of the screen.
4. The number of photos that can be captured will be displayed as 0 on the screen if there is no memory card inserted in the camera's memory card slot.
5. The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution, 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.

3.3.1 Photo Size

This function 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 *'Photo Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Photo Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(56MP, 48MP, 36MP, 24MP, 20MP, 16MP, 12MP, 8MP, 5MP)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.3.2 Photo Burst

This function lets you set the number of photos captured with each photo burst.

1. In Photo Burst Mode press the **MENU** button.
2. Select *'Photo Burst'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Photo Burst'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(3-Photo Burst, 5-Photo Burst, 10-Photo Burst).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.3.3 White Balance

White Balance changes the color of light in your pictures, making it seem warmer or cooler depending on how the light you're shooting in affects the frame.
1. In Photo Burst Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.3.4 Exposure

This function adjusts the frame brightness in your photograph.
1. In Photo Burst Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3).*
4. Press the **MODE** button to exit the settings menu without making a selection.

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

1. In Photo Burst Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.3.6 Sharpness

This function adjusts the visible detail of a photograph.

1. In Photo Burst Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Sharp, Normal, Soft)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.3.7 ISO

This function adjusts the light sensitivity in your photograph.

1. In Photo Burst Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'ISO'* menu.
3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, 100, 200, 400, 800, 1600, 3200, 6400)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.3.8 Time Stamp

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

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

2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.4 Self Timer Mode

In Self Timer mode, the camcorder will take a single picture after a set amount of time has elapsed with each press of the **SHUTTER** button.

To enter Self Timer mode, power the camera on and press and hold the **MODE** button. Use the **LEFT** or **RIGHT** buttons to select Self Timer and press the **OK** button to enter the Self Timer Mode.

1. Line up your shot by looking at the LCD screen to see what is in the shot.
2. Hold the camera steady and press the **SHUTTER** button to start the timer, at the end of the countdown, a single photo will be captured.
3. The number of photos that can be captured at a particular resolution will be displayed in the top right corner of the screen.
4. The number of photos that can be captured will be displayed as 0 on the screen if there is no memory card inserted in the camera's memory card slot.
5. The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution, 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.

3.4.1 Photo Size

This function sets the photo resolution. The higher the resolution, the greater the photo quality and the larger the file size of the photo.
1. In Self Timer Mode press the **MENU** button.
2. Select *'Photo Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Photo Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(56MP, 48MP, 36MP, 24MP, 20MP, 16MP, 12MP, 8MP, 5MP)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.2 Timer Duration

This function determines the time delay before a photograph is captured. This setting can be used by photographers to take photographs of

themselves.

1. In Self Timer Mode press the **MENU** button.
2. Select *'Timer Duration'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Timer Duration'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(3 Seconds, 5 Seconds, 10 Seconds, 20 Seconds).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.3 White Balance

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

1. In Self Timer Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.4 Exposure

This function adjusts the frame brightness in your photograph.

1. In Self Timer Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3).*
4. Press the **MODE** button to exit the settings menu without making a selection.

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

1. In Self Timer Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.6 Sharpness

This function adjusts the visible detail of a photograph.

1. In Self Timer Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Sharp, Normal, Soft)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.7 Flash

This function allows to change the flash settings.

1. In Self Timer Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Flash'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.8 ISO

This function adjusts the light sensitivity in your photograph.

1. In Self Timer Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'ISO'* menu.

3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, 100, 200, 400, 800, 1600, 3200, 6400).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.4.9 Time Stamp

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

1. In Self Timer Mode press the **MENU** button.
2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.5 Video Recording

To switch to Video mode power the camera on and press and hold the **MODE** button, then using the **LEFT** or **RIGHT** buttons, select Video and press the **OK** button to enter Video mode. A camcorder icon will appear in the top left corner of the screen when you are in Video mode.

1. Line up your shot by looking at the LCD screen to see what is in view.
2. Hold the camera steady and press the **SHUTTER** button to begin recording.
3. When recording begins, a rolling timer will display at the top right corner of the screen and the LED status light will blink blue. This indicates the recorded video time elapsed.
4. Press the **SHUTTER** button to stop recording.
5. The recorded video files will automatically save onto the inserted memory card.

3.5.1 Movie Size (Video Resolution)

This function 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 *'Movie Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Movie Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(4K (60fps), 4K (30fps), 2.7K (30fps), 1080P (60fps), 1080P (30fps), 720P (120fps), 720P (60fps), 720P (30fps)).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.2 White Balance

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

1. In Video Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.

3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.3 Exposure

This function adjusts the frame brightness in your photograph.
1. In Video Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.4 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 LCD and the Multi setting measures the light at several points on the screen.
1. In Video Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.5 Sharpness

This function adjusts the visible detail of a photograph.
1. In Video Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**

button to confirm your selected option *(Sharp, Normal, Soft)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.6 Video Quality

The Video Quality function determines the level of compression the camera uses when saving photos to a memory card.

1. In Video Mode press the **MENU** button.
2. Select *'Video Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Video Quality'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Super Fine, Fine, Normal)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.7 Flash

This function allows to change the flash settings.

1. In Video Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Flash'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.8 ISO

This function adjusts the light sensitivity in your photograph.

1. In Video Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'ISO'* menu.
3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, 100, 200, 400, 800, 1600, 3200, 6400)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.5.9 Time Stamp

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

1. In Video Mode press the **MENU** button.
2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.5.10 Record Audio

This function allows you to turn audio recording in video and loop recording modes on and off. If this setting is set to off, any videos recorded in video and loop recording modes will not have any audio.

1. In Video Mode press the **MENU** button.
2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.6 Slow Motion

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

To switch to Slow Motion mode power the camera on and press and hold the **MODE** button, then using the **LEFT** or **RIGHT** buttons, select Slow Motion and press the **OK** button to enter Slow Motion mode. A camcorder icon will appear in the top left corner of the screen when you are in Slow Motion mode.

1. Line up your shot by looking at the LCD screen to see what is in view.
2. Hold the camera steady and press the **SHUTTER** button to begin recording.
3. When recording begins, a rolling timer will display at the top right corner of the screen and the LED status light will blink blue. This indicates the recorded video time elapsed.
4. Press the **SHUTTER** button to stop recording.
5. The recorded video files will automatically save onto the inserted memory card.

3.6.1 Slow Motion Rate

This function allows you to set the rate that the video is recorded in. If you choose if you choose 1080P 2X, then your video will playback at ½ speed.
1. In Slow Motion Mode press the **MENU** button.
2. Select *'Slow Motion Rate'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Slow Motion Rate'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(1080P 2X, 720P 2X)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.6.2 White Balance

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

1. In Slow Motion Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.6.3 Exposure

This function adjusts the frame brightness in your photograph.
1. In Slow Motion Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.6.4 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 LCD and the Multi setting measures the light at several points on the screen.
1. In Slow Motion Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.6.5 Sharpness

This function adjusts the visible detail of a photograph.
1. In Slow Motion Mode press the **MENU** button.

2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Sharp, Normal, Soft)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.6.6 Video Quality

The Image Quality function determines the level of compression the camera uses when saving photos to a memory card.
1. In Slow Motion Mode press the **MENU** button.
2. Select *'Video Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Video Quality'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Super Fine, Fine, Normal)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.6.7 Flash

This function allows to change the flash settings.
1. In Slow Motion Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Flash'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7 Loop Recording

This function allows you to set a maximum duration for each video clip recorded.

To switch to Loop Recording mode power the camera on and press and hold the **MODE** button, then using the **LEFT** or **RIGHT** buttons, select Loop Recording and press the **OK** button to enter Loop Recording mode. A camcorder icon will appear in the top left corner of the screen when you are in Loop Recording mode.

1. Line up your shot by looking at the LCD screen to see what is in view.
2. Hold the camera steady and press the **SHUTTER** button to begin recording.
3. When recording begins, a rolling timer will display at the top right corner of the screen and the LED status light will blink blue. This indicates the recorded video time elapsed.
4. Press the **SHUTTER** button to stop recording.
5. The recorded video files will automatically save onto the inserted memory card.

3.7.1 Movie Size (Video Resolution)

This function 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 *'Movie Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Movie Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(4K (60fps), 4K (30fps), 2.7K (30fps), 1080P (60fps), 1080P (30fps), 720P (120fps), 720P (60fps), 720P (30fps)).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.2 Loop Duration

This function allows you to set a maximum duration for each video clip recorded.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Loop Duration'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Loop Duration'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(1 Minute, 5 Minutes, 10 Minutes)*.
4. Press the MODE button to exit the settings menu without making a selection.

   Once you select an option, your camcorder will record video clips in this duration only. Once this duration is reached, the camcorder will seamlessly end recording and begin recording a new video file.

3.7.3 White Balance

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

1. In Loop Recording Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.4 Exposure

This function adjusts the frame brightness in your photograph.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

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

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.6 Sharpness
This function adjusts the visible detail of a photograph.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Sharp, Normal, Soft).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.7 Video Quality
The Image Quality function determines the level of compression the camera uses when saving photos to a memory card.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Video Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Video Quality'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Super Fine, Fine, Normal).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.8 Flash
This function allows to change the flash settings.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to

enter the *'Flash'* menu.

3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On)*.

4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.9 ISO

This function adjusts the light sensitivity in your photograph.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'ISO'* menu.
3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(ISO Auto, 100, 200, 400, 800, 1600, 3200, 6400)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.7.10 Time Stamp

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

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the OK button to turn the time stamp on or off. When On, a check mark will be shown.

3.7.11 Record Audio

This function allows you to turn audio recording in video and loop recording modes on and off. If this setting is set to off, any videos recorded in video and loop recording modes will not have any audio.

1. In Loop Recording Mode press the **MENU** button.
2. Select *'Time Stamp'* using the **UP** or **DOWN** buttons and press the **OK** button to turn the time stamp on or off. When On, a check mark will be shown.

3.8 Time Lapse

This feature allows you to capture long sequences of events in a much shorter time period.

To switch to Time Lapse mode power the camera on and press and hold the **MODE** button, then using the **LEFT** or **RIGHT** buttons, select Time Lapse and press the **OK** button to enter Time Lapse mode. A camcorder icon will appear in the top left corner of the screen when you are in Time Lapse mode.

1. Line up your shot by looking at the LCD screen to see what is in view.
2. Hold the camera steady and press the **SHUTTER** button to begin recording.
3. When recording begins, a rolling timer will display at the top right corner of the screen and the LED status light will blink blue. This indicates the recorded video time elapsed.
4. Press the **SHUTTER** button to stop recording.
5. The recorded video files will automatically save onto the inserted memory card.

3.8.1 Movie Size (Video Resolution)

This function 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 Mode press the **MENU** button.
2. Select *'Movie Size'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Movie Size'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(4K (30fps), 2.7K (30fps), 1080P (30fps), 720P (30fps)).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.2 Interval Duration

This function allows you to set the amount of time in between images.
1. In Time Lapse Mode press the **MENU** button.
2. Select *'Interval Duration'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Interval Duration'* menu.

3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(0.5 Seconds, 1 Second, 2 Seconds, 5 Seconds, 10 Seconds, 30 Seconds, 60 Seconds).*
4. Press the **MODE** button to exit the settings menu without making a selection.

NOTE: By selecting '10 Seconds' the camera will capture a single frame every 10 seconds and create a video combining all of the captured images. See the table below for how long it will take to record 1 second of video for each option;

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

3.8.3 White Balance

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

1. In Time Lapse Mode press the **MENU** button.
2. Select *'White Balance'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'White Balance'* **MENU**.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Sunny, Cloudy, Incandescent, Florescent).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.4 Exposure

This function adjusts the frame brightness in your photograph.

1. In Time Lapse Mode press the **MENU** button.
2. Select *'Exposure'* using the **UP** or **DOWN** buttons and press the **OK**

button to enter the *'Exposure'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(-3, -2, -1, 0, +1, +2, +3)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.5 Video Duration

This function allows you to set the length of the final time lapse video.
1. In Time Lapse Mode press the **MENU** button.
2. Select *'Video Duration'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Video Duration'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Unlimited, 6 Seconds, 8 Seconds, 10 Seconds, 20 Seconds, 30 Seconds, 60 Seconds, 120 Seconds)*.
4. Press the **MODE** button to exit the settings menu without making a selection.
   NOTE: By selecting '10 Seconds' the time lapse will automatically stop recording when the final video is 10 seconds long. The actual length of time that it will take to record the 10 second video will depend on the interval duration, see section 3.8.2.

3.8.6 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 LCD and the Multi setting measures the light at several points on the screen.
1. In Time Lapse Mode press the **MENU** button.
2. Select *'Metering'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Metering'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Multi, Center, Spot, Matrix)*.
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.7 Sharpness

This function adjusts the visible detail of a photograph.

1. In Time Lapse Mode press the **MENU** button.
2. Select *'Sharpness'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Sharpness'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Sharp, Normal, Soft).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.8 Video Quality

The Image Quality function determines the level of compression the camera uses when saving photos to a memory card.

1. In Time Lapse Mode press the **MENU** button.
2. Select *'Video Quality'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Video Quality'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Super Fine, Fine, Normal).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.9 Flash

This function allows to change the flash settings.

1. In Time Lapse Mode press the **MENU** button.
2. Select *'Flash'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Flash'* menu.
3. Use the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, Off, On).*
4. Press the **MODE** button to exit the settings menu without making a selection.

3.8.10 ISO

This function adjusts the light sensitivity in your photograph.

1. In Time Lapse Mode press the **MENU** button.
2. Select *'ISO'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'ISO'* menu.

3. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(ISO Auto, 100, 200, 400, 800, 1600, 3200, 6400).*

4. Press the **MODE** button to exit the settings menu without making a selection.

3.9 Playback Mode

Videos and photos captured on your camera can be easily played back.

1. Press the **MODE** button to enter Playback mode, previously recorded videos and captured images will show on the screen.
2. Press the **LEFT** or **RIGHT** buttons to cycle through the captured videos and photos stored on the memory card. Press the **OK** button to view the selected file.
3. While viewing a recorded video, press the **OK** button to start the video, press the **OK** button again to pause the video.
4. Press the **DELETE** button to access the delete menu.
5. Press the **UP** or **DOWN** buttons to navigate the Delete menu, and press the **OK** button to confirm your selected option *(Delete Current, Delete All, Lock Current, Lock All, Unlock Current, Unlock All)*. Locked files cannot be deleted using the delete menu, they need to be unlocked before they can be deleted.
6. Press the **MODE** button to exit the settings menu without making a selection.
   NOTE: There is no way to recover deleted media. Once you delete a single file or all files, they cannot be recovered. Only files that are locked are protected from deletion in PLAYBACK mode.

3.10 Settings Menu

The Settings Menu can be accessed while in any Photo or Video mode. From the main screen, press the **MENU** button, then press the **RIGHT** button. The menu will move right and switch tabs from the current mode's icon to the Settings menu.

*NOTE: The settings menu cannot be accessed while the camcorder is recording a video file. If the camcorder is recording a file, you must stop recording before the settings menu can be accessed. To stop recording at any time, press the **SHUTTER** button.*

3.10.1 Button Sound

This function allows you to turn off the sounds of the camera.
1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Button Sound'* using the **UP** or **DOWN** buttons and press the OK button to enter the *'Button Sound'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the OK button to confirm your selected option *(Off, Low, Medium, High)*.
5. Press the **MODE** button to exit the settings menu without making a selection.

3.10.2 Focus Mode

This function allows you to change the camera's focusing mode, either manual focus or auto focus.
1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Focus Mode'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Focus Mode'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto Focus, Manual Focus)*.
5. When Manual Focus is selected, to focus the camera in all photo and video modes, half press the **SHUTTER** button until the red box on the screen turns green. The subject surrounded by the box will now be in focus.
6. Press the **MODE** button to exit the settings menu without making a

selection.

3.10.3 Wi-Fi

This function allows you activate the Wi-Fi on the camera.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Wi-Fi'* using the **UP** or **DOWN** buttons and press the **OK** button to activate the Wi-Fi.
4. Press the DOWN button to turn the Wi-Fi off.
5. See section 4.1 for Wi-Fi instructions.

3.10.4 Frequency

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

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Frequency'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Frequency'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Auto, 50 Hz, 60 Hz)* the default frequency for the United States is 60Hz.
5. Press the **MODE** button to exit the settings menu without making a selection.

3.10.5 Screen Saver

This function sets the duration of time in which the camcorder will wait with no user input before automatically turning off the LCD screen. Note: even while the screen is off, the camera will still be powered on.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Screen Saver'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Screen Saver'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Off, 30 Seconds, 1 Minute, 2 Minutes, 10 Minutes).*
5. Press the **MODE** button to exit the settings menu without making a

selection.

3.10.6 Auto Power Off

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

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Auto Power Off'* using the **UP** or **DOWN** buttons and press the **OK**
   button to enter the *'Auto Power Off'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**
   button to confirm your selected option *(Off, 3 Minutes, 5 Minutes, 10
   Minutes)*.
5. Press the **MODE** button to exit the settings menu without making a
   selection.

3.10.7 Language

This function allows you to set the camera's interface language.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Language'* using the **UP** or **DOWN** buttons and press the **OK**
   button to enter the *'Language'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**
   button to confirm your selected language.
5. Press the **MODE** button to exit the settings menu without making a
   selection.

3.10.8 Date Format

This function allows you to set the current Date and Time on your recorded
video clips and captured photos.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Date Format'* using the **UP** or **DOWN** buttons and press the **OK**
   button to enter the *'Date Format'* menu.
4. Press the **UP** or **DOWN** buttons to navigate the menu, and press the **OK**
   button to confirm your selected option *(YYYY/MM/DD, MM/DD/YYYY,
   DD-MM-YYYY)*.

5. Press the **MODE** button to exit the settings menu without making a selection.

3.10.9 Time Set

This function allows you to set the current time on your camera.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Time Set'* using the **UP** or **DOWN** buttons and press the OK button to enter the *'Time Set'* menu.
4. Press the **UP** or **DOWN** buttons to change the value of the highlighted field.
5. Press the **OK** button to change to the next field.
6. Press the **OK** button to save the time and to exit the settings menu.

3.10.10 Date Set

This function allows you to set the current Date and Time on your recorded video clips and captured photos.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Date Set'* using the **UP** or **DOWN** buttons and press the OK button to enter the *'Date Set'* menu.
4. Press the **UP** or **DOWN** buttons to change the value of the highlighted field.
5. Press the **OK** button to change to the next field.
6. Press the **OK** button to save the date and to exit the settings menu.

3.10.11 Format Memory Card

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

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Format Memory Card'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Format Memory Card'* menu.
4. Press the **LEFT** or RIGHT buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Format, Cancel).*
   ***NOTE: This will delete all of your media and cannot be***

undone.

3.10.12 Device Info

This setting displays the current firmware version of your camera.

1. In all Photo and Video Modes press the **MENU** button.
2. Press the **RIGHT** button to enter the settings menu.
3. Select *'Device Info'* using the **UP** or **DOWN** buttons and press the OK button to enter the *'Device Info'* menu. The camera information will now be displayed on the screen.
4. Press the **OK** button to exit the Device Info menu.

3.10.13 Restore Default Settings

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

5. In all Photo and Video Modes press the **MENU** button.
6. Press the **RIGHT** button to enter the settings menu.
7. Select *'Restore Default Settings'* using the **UP** or **DOWN** buttons and press the **OK** button to enter the *'Restore Default Settings'* menu.
8. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option *(Confirm, Cancel)*.

4. Wireless Connectivity

4.1 Connecting to the ELook Pro App

To wirelessly operate the MND65 camera you will need to install the "ELook Pro" app on your Android or iOS device. To download the app, search for "ELook Pro" in the Apple App Store or Google Play Store. You can also scan the QR code that will be shown on the camera's LCD screen once Wi-Fi has been activated.

The camera can be operated remotely by following the steps below:

1. Turn the camera on and press the **DOWN** button to activate the Wi-Fi.
2. The network name (SSID) and the password will be displayed on the screen.
3. Open your phone's wireless menu, turn all wireless settings on and connect to the network named "Minolta_MND65_XXXXXXXX" then join the network, password is 12345678.
4. Exit the wireless menu on your smartphone and open the "ELook Pro" app to launch remote operation of the camcorder.
5. When first launching the app, you will be prompted to allow the app to use your location. Select **"Allow Once"** or **"Allow While Using App"**. This will allow the app to communicate with your camcorder and will allow the app to work properly. The app will not connect to your camcorder if you select **"Don't Allow"**.
6. As part of the iOS operating system, your smartphone's Location Settings must be enabled in order to allow proper communication between your smartphone and your Minolta camcorder. Selecting will prevent your camcorder from connecting to the ELook Pro app.
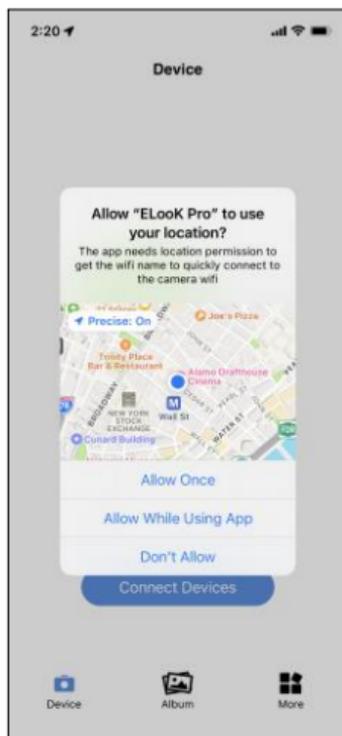
7. If you selected **"Don't Allow"**, then you can change this setting by going into your iOS Settings, selecting the ELook Pro app, selecting the Location settings and select **"While Using App"**.
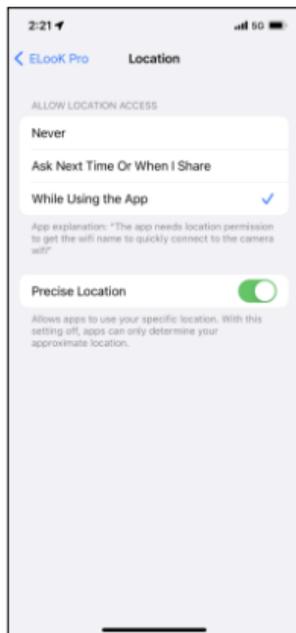
8. To connect to your camera, select "Connect Devices" this will allow you to control the camera from your smartphone.

4.2 Operating the ELook Pro App

Your MND65 will now be operable via your smartphone. It will initially default to photo mode. To change modes, simply tap the icon of the mode you wish to change to. All of the mode icons can be found in the center of your smartphone's screen.

Photo Modes   **Video Modes**

4.3 Taking Photos Remotely

1. To capture a photo, make sure you are in a photo mode, then press the capture button, a blue camera icon, in the middle of your smartphone's screen.

2. The photo capture mode can be changed by selecting the mode from the middle of your smartphone's screen.

3. The photo mode settings can be accessed by selecting the gear icon in the bottom right corner of your smartphone's screen.
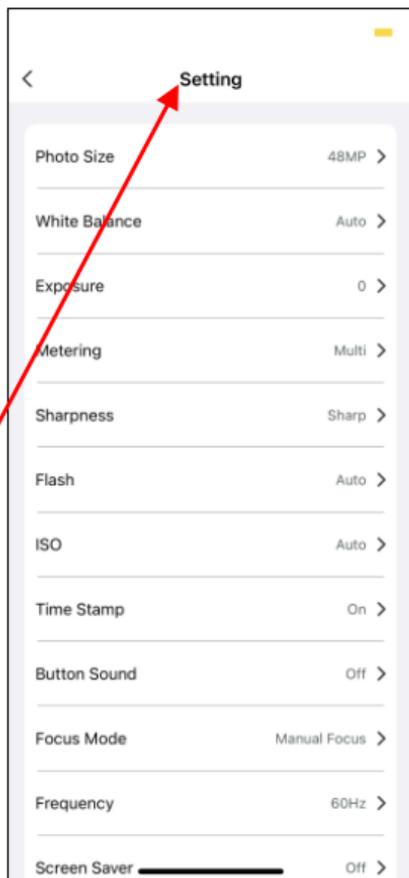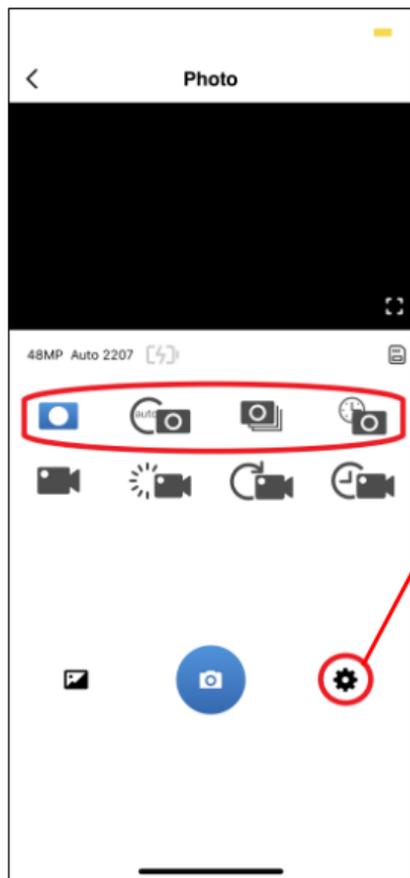
4.4 Recording Videos Remotely

1. To start recording a video, make sure you are in a video mode, then press the record button, the blue camcorder icon, in the middle of your smartphone's screen.
2. The video recording mode can be changed by selecting the mode from the middle of your smartphone's screen.
3. The video mode settings can be accessed by selecting the gear icon in the bottom right corner of your smartphone's screen.
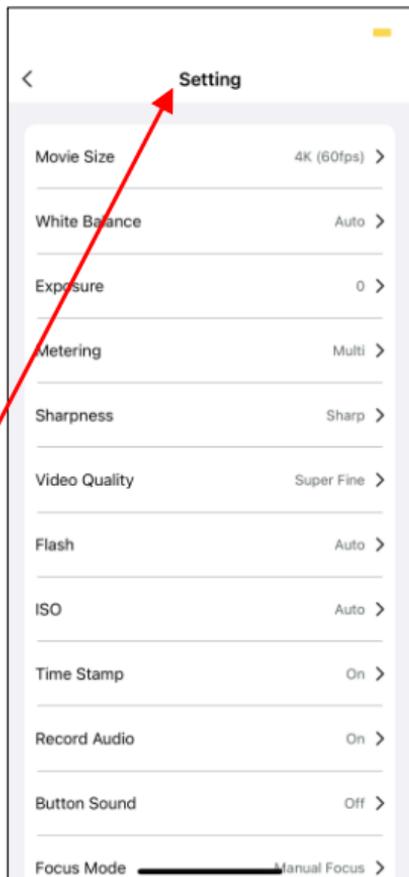
4.5 Viewing Media on the App

1. To view the recorded images and videos stored on the memory card on the app, press the photo gallery button in the bottom left of your smartphone's screen.
2. Tap the photo or video file you wish to view. From this screen media can be saved to your smartphone and deleted. If a photo or video is deleted on the app, it will also be removed from the memory card in the camera.
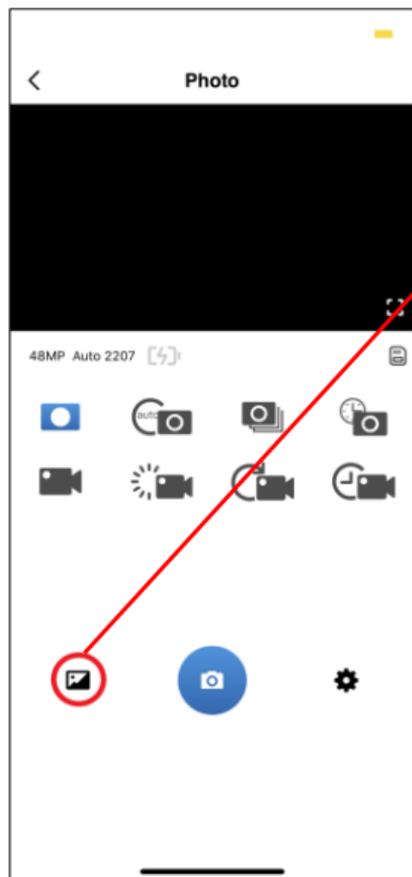
4.6 Changing Camera Settings on the App

Camera settings can also be changed on the app. The settings can be found at the bottom of the photo and video mode settings. Press the gear icon in the bottom right corner of your smartphone's screen to launch the settings menu. From here, a number of settings can be changed.
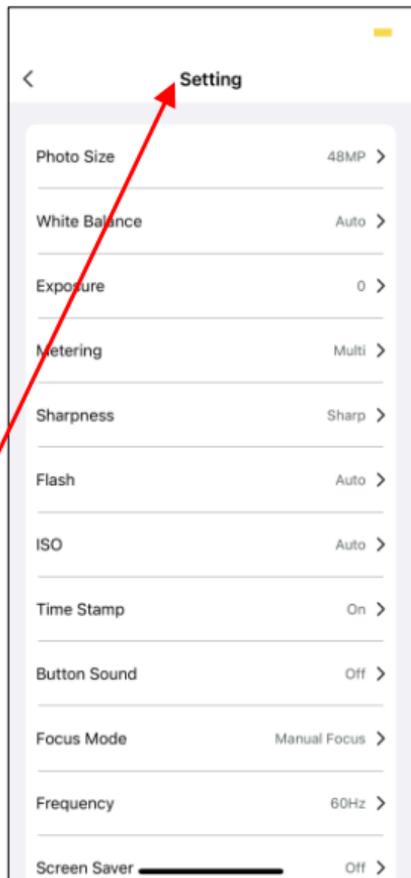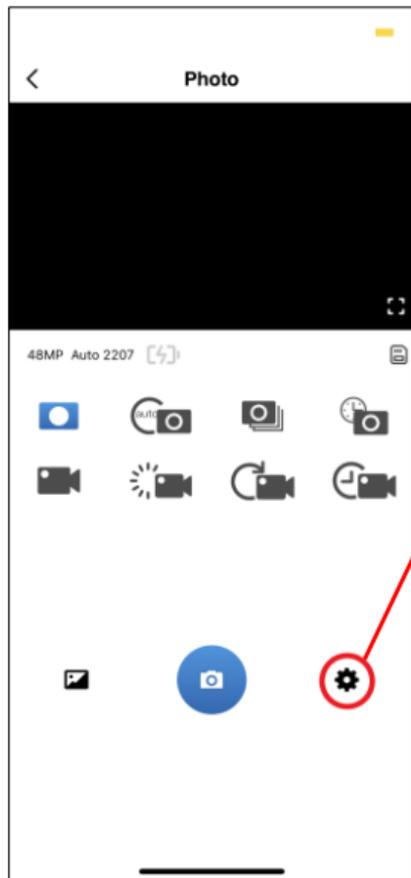
5. **Technical Specifications**

Model Number	Minolta MND65
Lens	Front: Auto Focus • f=2.0mm • F/2.2 • 52mm Front Threading for Lens Accessory Attachments Selfie: Fixed Focus
Zoom	18X Digital Zoom
Image Sensor	Front: 13MP CMOS Sensor Selfie: 13MP CMOS Sensor
Shutter	Electronic • Digital Image Stabilization
Pixels (photo)	JPEG: 56 MP • 48 MP • 36 MP • 24 MP • 20 MP • 16 MP • 12 MP • 8 MP • 5 MP
Pixels (video)	MP4: 4K 60fps • 4K 30 fps • 2.7K 30fps • 1080P 60fps • 1080P 30fps • 720P 120fps • 720P 60fps • 720P 30fps
ISO Sensitivity	Auto • 100 • 200 • 400 • 800 • 1600 • 3200 • 6400
LCD Screen	3.0" HD TFT LCD Screen
Assistive Light	White LED Flash
Power Saving Mode	OFF • 3 Minutes • 5 Minutes • 10 Minutes
White Balance Control	Auto • Sunny • Cloudy • Incandescent • Florescent
Wi-Fi	Built-In with app integration
Recording Media	MicroSD • MicroSDXC; Maximum: 256GB
I/O Ports	USB-C • External Microphone Port • Microphone (built-in MIC) • Speaker • Accessory Shoe Mount
Power	Lithium-Ion 3.7V, 1,800mAh, 3.7Wh
Dimensions	4.8 x 2.36 x 3.15 in. • 9.1 oz.

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**If you're having difficulties with your camera, or would like further assistance,
please call our toll-free technical support hotline at 800-441-1100. Please be
sure to have your camera handy when calling.**

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