



MND23

SELFIE-SHOT



User Manual

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1.0 Introduction

About this Manual:

Congratulations on purchasing the Minolta MND23 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 adaptor to high temperatures or moisture places. Otherwise, it may cause fire or electric shock.
- Do not attempt to repair, disassemble, change or transform the adaptor.
- Avoid sudden changes in temperature, which may cause condensation on the adaptor'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.

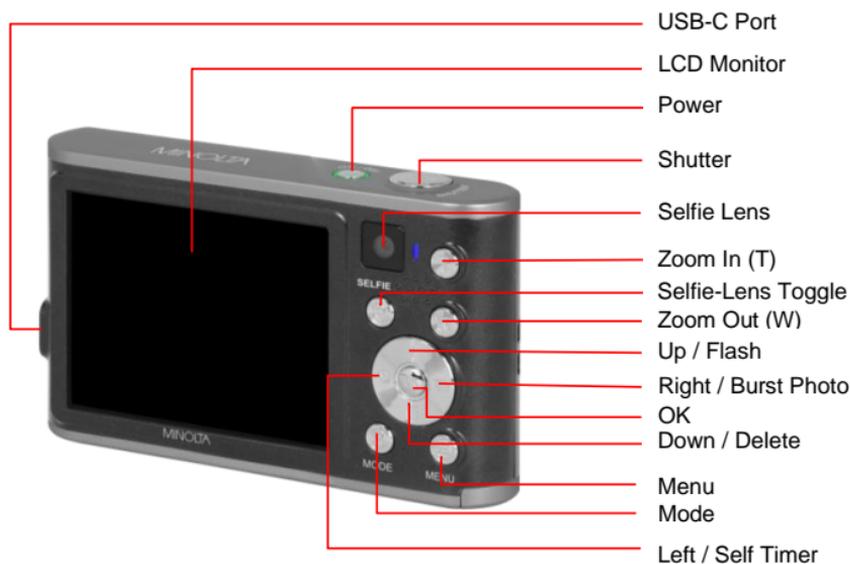
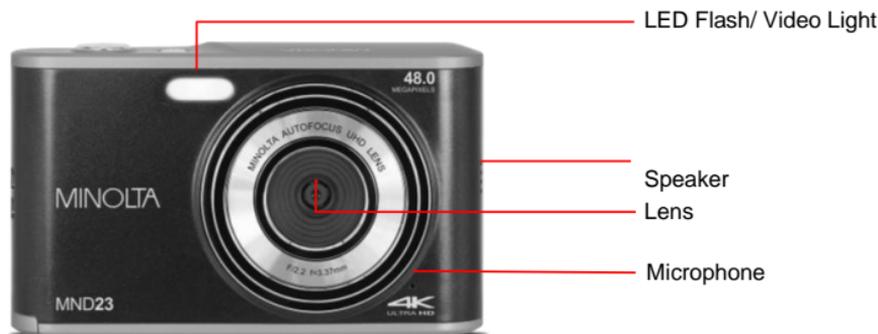
Storage:

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



1.1 Buttons and Operation Overview Explained

Function	Description
Power	Button to power on or off.
Shutter	In Photo: Tap to capture a photo. In Video: Tap to start and stop recording. In Playback: Tap to play and stop recorded videos.
Zoom Out (W)	In Video or Photo: Tap/hold (W) to zoom-out. In Playback: Tap to view multiple files on the screen. Once zoomed into a captured photo, tap to zoom out.
Zoom In (T)	In Video or Photo: Tap/hold (T) to zoom-in. In Playback: Tap to zoom in on a captured photo.
Mode	Tap button to switch between Photo, Video & Playback Mode.
Up Flash	In Video or Photo: Tap to turn the flash on and off. In Playback: While playing a video, tap to fast forward. In Settings: Tap to navigate the submenu.
Down Delete	In Video or Photo: Tap to delete the last photo or video. In Playback: Tap to delete the currently selected photo or video. In Settings: Tap to navigate the submenu.
Left Self Timer	In Photo: Tap to navigate the Self-Timer settings. In Playback: Tap to view the previous photo or video. In Settings: Tap to navigate the submenu.
Right Burst Photo	In Photo: Tap to turn Burst Photo on and off. In Playback: Tap to view the next photo or video. In Settings: Tap to navigate the submenu.
OK	In Playback: Tap to pause a playing video. In Settings: Tap to enter the selected submenu.
Menu	Tap to show the settings available in each mode.
USB-C Port	Port for charging battery, transferring photos to a PC, or using your camera as a PC Camera.
Battery & Memory Card Door	Door to protect the battery compartment and memory card slot.
Tripod Socket	Mount port for attaching to a tripod nut. Threading is 1/4".
LED Flash/ Video Light	In Photo: White LED flash In Video: Fill-in white LED video light for additional lighting
Microphone	Used to capture audio during video recording.

1.2 Camera Features and Operation

In addition to basic photo and video capture, the Minolta MND23 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

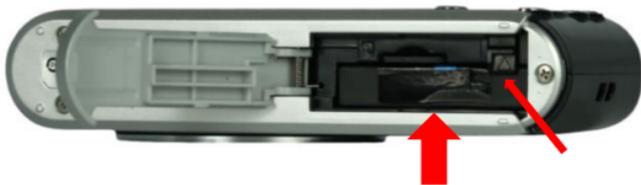
1.3 Operating the Battery Door

Unlock the battery door by sliding the door to the right, away from the center of the camera. The battery door will flip open to the left.



1.4 Installing the Battery

Insert the lithium-ion battery into the battery compartment with the arrow facing forward. If the battery is inserted correctly, the metal contacts will face the inside of the camera.



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

Removing the Battery

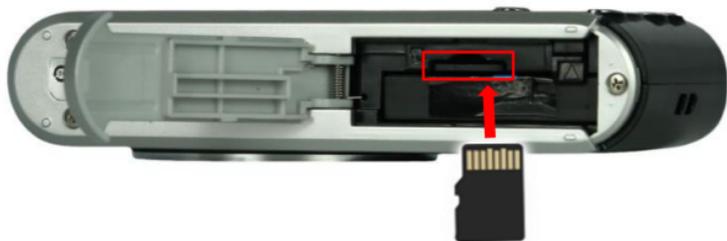
In order to remove the battery, push the black battery locking tab upwards, and the battery will eject. The up-arrow icon on the battery locking tab will indicate direction in which to push the tab for releasing the battery.



1.5 Installing and Removing Memory Card

A memory card is required in order to record and store your photos and videos. Insert the memory card by following the below steps.

1. Open the battery door by following the above diagram.
2. Insert the memory card with the metal contacts facing upwards. Push the memory card until you hear an audible click, indicating security.



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.

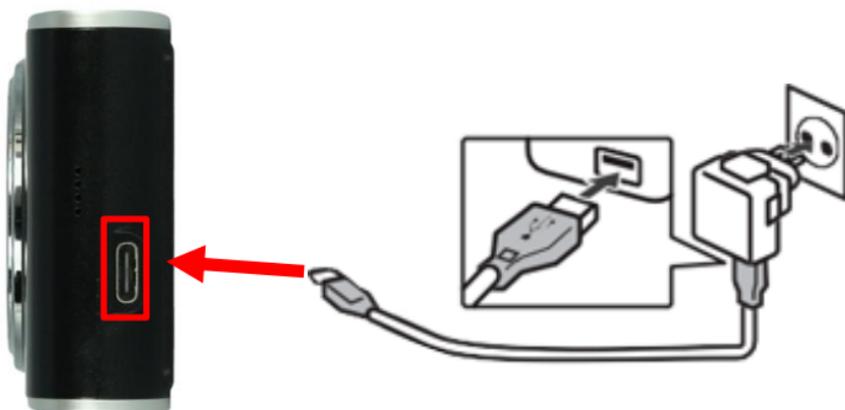
To remove the MicroSD memory card, simply push the card in and the card will eject back out.

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.

1.6 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 on the side of the camera's body as shown in the figure below. Plug the larger end into the included AC adaptor. While charging, the LED indicator light will illuminate solid red and will turn off once charging is completed.



1.7 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.



1.8 Shooting Modes

The MND23 includes two shooting modes – Photo and Video. Press the **MODE** button (**M**) to cycle between Photo, Video, Playback, and Settings. The current mode will be indicated by an icon in the top left corner of the screen and will be explained further within this User Manual.



1.9 Photo Mode Capture Screen Icons

When the MND23 powers on, the automatic setting is in Photo Mode. To access Photo Mode while in other modes, press the **MODE** button (**M**) until back in Photo Mode. Take note of the icon in the top left corner of the screen to confirm the mode. See below table to understand the meaning of each icon within Photo Mode.



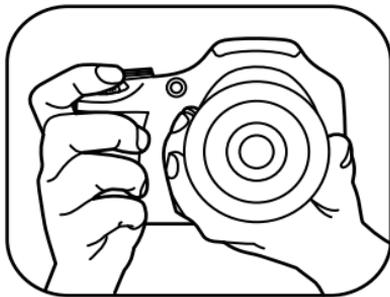
	Function:
1	Photo Mode Indicator
2	Current Photo Resolution
3	Current Scene Mode
4	Anti-Shake Image Stabilization Status
5	Face Detection Status
6	Smile Detection Status
7	Current Flash Setting
8	Number of Photos Remaining
9	Memory Card Status

	Function:
10	Zoom Level Indicator
11	Battery Level Indicator
12	Color Effect Filter Setting
13	Current Sharpness Setting
14	Current ISO Setting
15	Current Exposure Setting
16	Current Photo Quality Setting
17	Current White Balance Setting
18	Menu Indicator

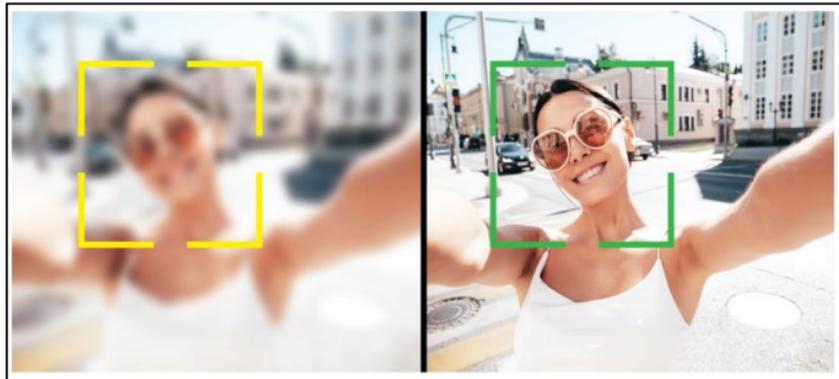
1.10 Capturing a Photo

Once the camera is powered on, the camera will default to Photo Mode and is ready for shooting. You may press the MODE button (M) to switch to another 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.
- Use the **ZOOM** buttons to select **Tele** or **Wide** 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 will 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 yellow rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.



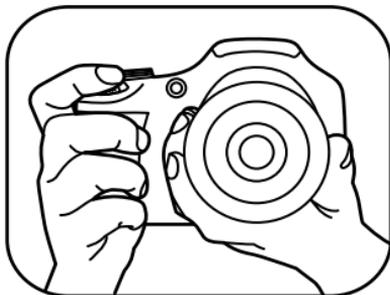
NOTES:

- The number of photos that can be captured at a particular resolution will be displayed at the top right corner of the screen. The number of remaining photos is determined by the selected resolution. The higher the resolution, the fewer number of photos that can be saved to the memory card. Before photo capture, you may select a preferred photo resolution.
- A "NO CARD" alert will be displayed on the screen if there is no memory card inserted. This will also be indicated by a red X icon on the top right side of the screen. A "MEMORY FULL" alert will be displayed on the screen when the memory card is full.

1.11 Capturing a Macro Photo (Close-Up)

The MND23 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.

- 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.
- Use the **ZOOM** buttons to select **Tele** or **Wide** 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 will 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 yellow rectangle, then the lens cannot achieve a clear focus and you need to adjust your shooting distance or the photo will capture blurry.

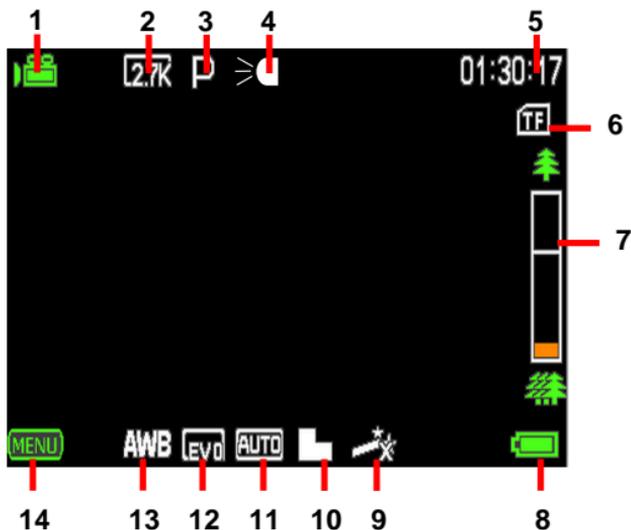


NOTES:

- 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 Video Mode Capture Screen Icons

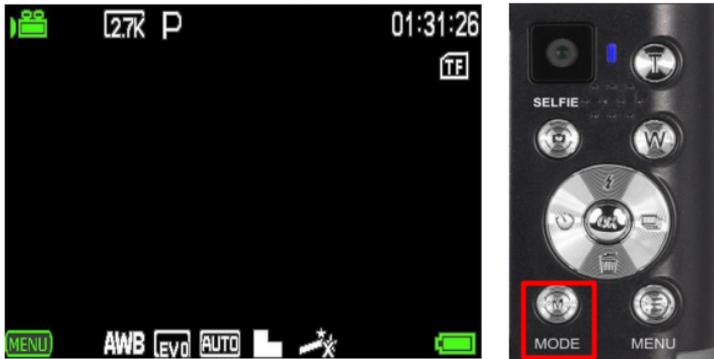
The MND23 includes an array of Video recording modes – each with their own unique features. Once the camera is powered, press the **MODE** button to switch to Video Mode. Video Mode will be indicated by a camcorder icon in the top left corner of the screen



	Function:
1	Video Mode Indicator
2	Current Video Resolution
3	Current Scene Mode
4	Video Light Indicator
5	Recording Time Elapsed
6	Memory Card Status
7	Zoom Level Indicator
8	Battery Level Indicator
9	Color Effect Filter Setting
10	Current Sharpness Setting
11	Current ISO Setting
12	Current Exposure Setting
13	Current White Balance Setting
14	Menu Indicator

1.13 Capturing Video

Once the camera is powered, press the **MODE** button to switch to Video Mode. Video Mode will be indicated by a camcorder icon in the top left corner of the screen.



- Line up your shot by looking at the LCD screen to evaluate what is in frame.
- Hold the camera steady and press the **SHUTTER** button to begin recording.
- Once recording, a rolling timer will be displayed in the top right corner of the screen. This indicates the recorded video time that has elapsed.



- 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.
- 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.

1.14 Using the Zoom Function

The MND23 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, press and hold the **ZOOM IN T**(ele) button to zoom in closer to the subject, and press and hold the **ZOOM OUT W**(ide) button to zoom out away from the subject.



Photo Mode – Zoom Bar



Video Mode – Zoom Bar

1.15 Using the LED Flash / Video Light

The MND23's built-in LED light provides supplemental light for any scene. It is also suitable for metering and shooting in darker scenes to improve the exposure. The LED's most effective range is 8 – 16 ft. To enable the LED Flash or Video Light options, press the **UP / FLASH** button and cycle through the Flash / Light options.

In Photo shooting mode only, press the **UP/FLASH** button to cycle through the Flash options.



Auto 

Flash goes on automatically based on existing light conditions.

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.

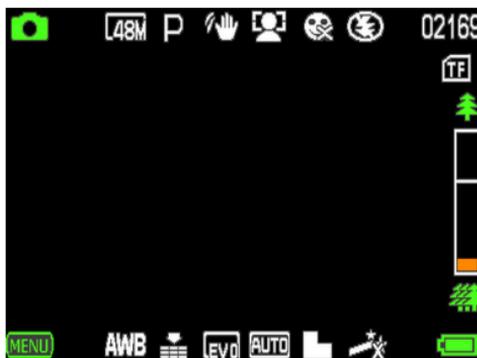


Photo Mode – Flash

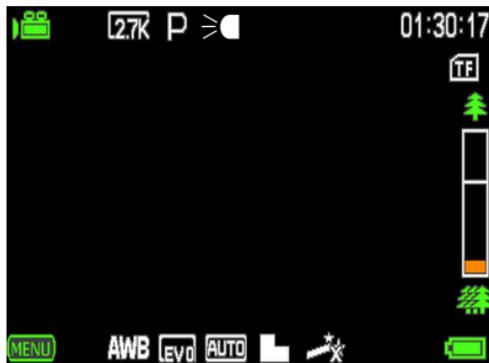
In Video shooting modes, the only options available are **On** and **Off**.

On 

LED light stays on and illuminated

Off

LED Light is turned off.



Video Mode – Video Light

1.16 Using the Selfie Lens

The MND23 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. With Face Detection enabled, the monitor will still display an orange 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.



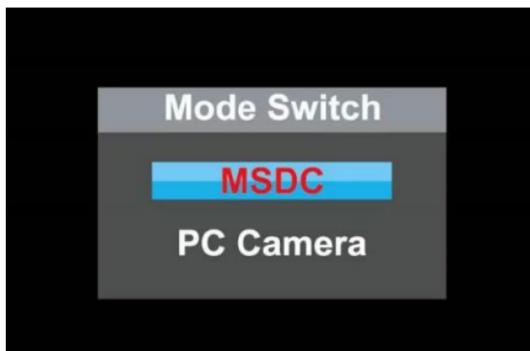
1.17 Connecting to a Computer

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 web cam. To connect the camera to your computer, open the protective cover on the back 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. Use the **UP** or **DOWN** buttons to select your desired mode and press the **OK** button to enter into the selected mode.



MSDC

Will allow you to access the files on the inserted memory card via your computer, and recharge the battery using your computer as a power source.

PC Camera

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

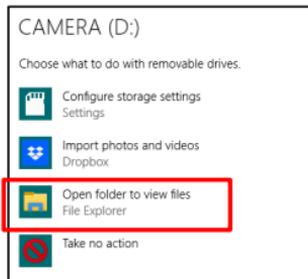
1.17.1 Transferring Media to PC

Once you've connected the USB-C cable to your computer, powered on your camera, and entered **MSDC** 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.

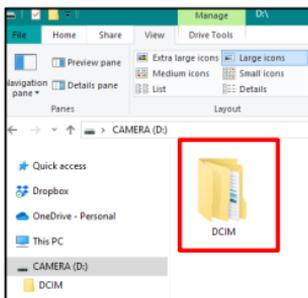


2. Select **Open folder to view files**. This will open the File Explorer. You may need to scroll down to find this option.



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.

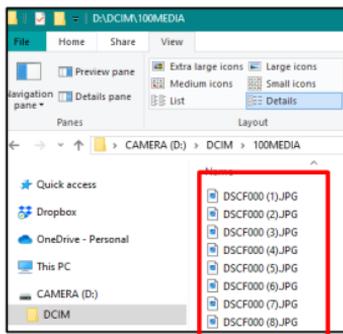


To select multiple photos, hold **CTRL** and click each photo.

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**.



2.0 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 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.

2.1.1 Scene

Scene modes are pre-programmed settings that change your camera's aperture, shutter speed, ISO, white balance, focus, and flash according to the type of scene you want to capture. They are designed to make your life easier by taking care of the technical aspects of exposure and color for you.

1. In Photo Mode, press the **MENU** button.
2. Select 'Scene' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the 'Scene' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Auto, Night, Portrait, Landscape, Backlight, Sport, Party, Beach, High Sensitivity*).
4. Press the **MENU** button to exit the settings menu.

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 'Resolution' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the 'Resolution' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected resolution (48MP, 36MP, 24MP, 16MP).
4. Press the **MENU** button to exit the settings menu.

2.1.3 Beauty Filter

This menu softens the appearance and improves skin tone.

1. In Photo Mode, press the **MENU** button.
2. Select 'Beauty Filter' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the 'Beauty Filter' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*On, Off*).
4. Press the **MENU** button to exit the settings menu.

2.1.4 Capture Mode

This menu will allow you to select the type of capture method in Photo Mode.

1. In Photo Mode, press the **MENU** button.
2. Select 'Capture Mode' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the 'Capture Mode' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (Single, Burst Photo). Burst Photo will capture 3 photos.
4. Press the **MENU** button to exit the settings menu.

Note: You may also select photo burst options by clicking the **RIGHT** button while in Photo Mode. The selected mode will be indicated by an icon in the top left corner.

2.1.5 Self Timer

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

1. In Photo Mode, press the **MENU** button.
2. Select ‘Self-Timer’ by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the ‘Self-Timer’ submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Off, 2 Seconds, 5 Seconds, 10 Seconds*).
4. Press the **MENU** button to exit the settings menu.

Note: You may also select Self-Timer options by clicking the **LEFT** button while in Photo Mode. The selected modes will be indicated by an icon in the top left corner.

2.1.6 Exposure

This menu adjusts the brightness in your scene.

1. In Photo Mode, press the **MENU** button.
2. Select ‘Exposure’ by using the **LEFT** or **RIGHT** buttons, and press the **OK** button to enter the ‘Exposure’ submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press **OK** to confirm your selected option (+3, +2, +1, 0, -1, -2, -3).
4. Press the **MENU** button to exit the settings menu.

2.1.7 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’ by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the ‘White Balance’ submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Auto, Daylight, Cloudy, Florescent, Tungsten*).
4. Press the **MENU** button to exit the settings menu.

2.1.8 Photo Quality

The photo quality menu determines the level of compression that the camera uses when saving photos to a memory card.

1. In Photo Mode, press the **MENU** button.
2. Select ‘Quality’ by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the ‘Quality’ submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected quality option (*Super Fine, Fine, Normal*). As an example, Super Fine uses the least amount of compression for saving, and as a result produces a higher photo quality.

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

2.1.9 Sharpness

This menu adjusts the visible detail of a photo.

1. In Photo Mode, press the **MENU** button.
2. Select '*Sharpness*' using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Sharpness*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Sharp, Normal, Soft*).
4. Press the **MENU** button to exit the settings menu.

2.1.10 Color Effect

This menu allows for a unique color filter to be applied to your photos. **Note:** The applied filter cannot be removed from an existing photo.

1. In Photo Mode, press the **MENU** button.
2. Select '*Color Effect*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Color Effect*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Normal, B & W (Black and White), Sepia, Red, Green, Blue, Sunset, Warm, Cool, Over Exposure, IR, Binary, Vivid, Undertone, Dog Eye, Aibao, Gothic, Japan Style, LOMO, Negative*).
4. Press the **MENU** button to exit the settings menu.

2.1.11 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 '*ISO*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*ISO*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Auto, 100, 200, 400*).
4. Press the **MENU** button to exit the settings menu.

2.1.12 Anti-Shake

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 '*Anti-Shake*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Anti-Shake*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*On, Off*).

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

2.1.13 Face Detection

This menu will allow you to set your camera to detect faces in a scene and adjust your camera's setting for the most optimal picture. You can also enable your camera to capture a photo once a smile is detected on the faces in a scene, as described in the next step.

1. In Photo Mode, press the **MENU** button.
2. Select '*Face Detection*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Face Detection*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*On, Off*).
4. Press the **MENU** button to exit the settings menu.

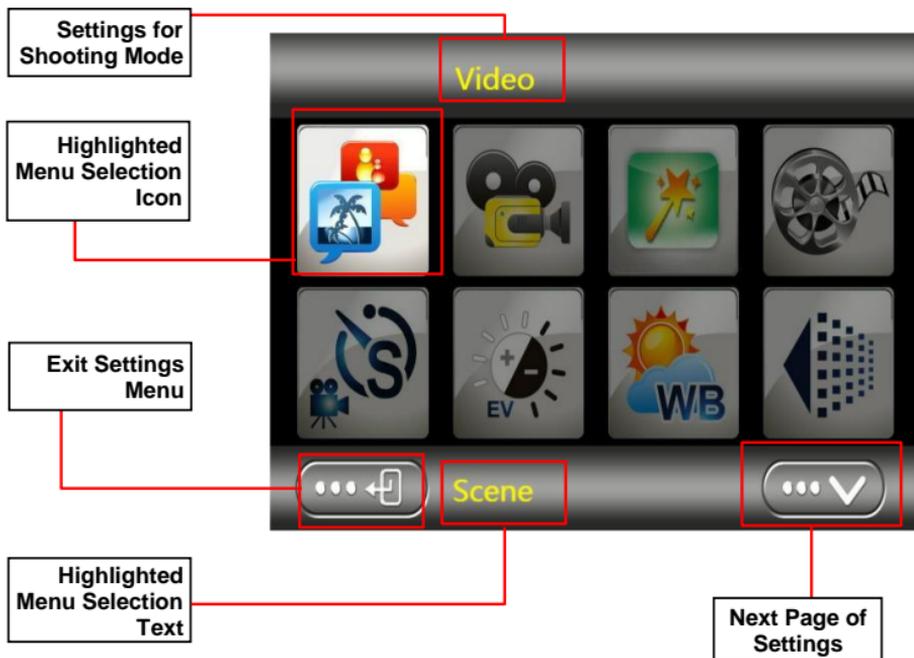
2.1.14 Smile Capture

This menu will allow you to set your camera to detect smiles in a scene and capture a photo automatically.

1. In Photo Mode, press the **MENU** button.
2. Select '*Smile Capture*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Smile Capture*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*On, Off*).
4. Press the **MENU** button to exit the settings menu.

2.2 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 within the menus. To confirm a menu selection, press the **OK** button.



2.2.1 Scene

Scene modes are pre-programmed settings that change your camera's aperture, shutter speed, ISO, white balance, and focus according to the type of scene you want to capture. They are designed to make your life easier by taking care of the technical aspects of exposure and color for you.

1. In Video Mode, press the **MENU** button.
2. Select '*Scene*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Scene*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Auto, Night, Portrait, Landscape, Backlight, Sport, Party, Beach, High Sensitivity*).
4. Press the **MENU** button to exit the settings menu.

2.2.2 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 '*Resolution*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Resolution*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected resolution (*4K UHD, 2.7K QHD, 1080PFHD*).
4. Press the **MENU** button to exit the settings menu.

2.2.3 Beauty Filter

This menu softens the appearance and improves skin tone.

1. In Video Mode, press the **MENU** button.
2. Select '*Beauty Filter*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Beauty Filter*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (On, Off).
4. Press the **MENU** button to exit the settings menu.

2.2.4 Recording Mode

This menu will allow you to select the type of video the camera will record.

1. In Video Mode, press the **MENU** button.
2. Select '*Recording Mode*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Recording Mode*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Normal, Motion Detection, Video Time Lapse, Photo Time Lapse, Slow Motion*). Each setting is explained as follows:

Normal:

You can record standard videos in this mode.

Motion Detection:

After pressing the **SHUTTER** button, the camera will automatically start recording when it detects motion.

Video Time Lapse:

The camera will take a single picture at a set interval length of time, and combine the photos into a single video.

Photo Time Lapse:

The camera will take a single picture at a set interval length of time and save them as individual files.

Slow Motion:

The camera will record at a much higher frame rate so the video is slowed down.

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

2.2.5 Time Lapse Settings

This menu will allow you to capture long sequences of events in a shorter time period.

1. In Video Mode, press the **MENU** button.
2. Select '*Time Lapse Settings*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Time Lapse Setting*' menu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to enter the selected submenu (*Resolution, Time Lapse Schedule, Interval*). Each setting is explained as follows:

Resolution:

This function sets the photo resolution of each photo taken during the time lapse.

Time Lapse Schedule:

This function sets the start and end time of the time lapse. (Example 10:02 to 15:06)
Time lapsing can only run for a maximum of 24 hours at a time.

Interval:

This function sets the time interval in between photos.

NOTE: By selecting '10 Sec' the camera will capture a photo every 10 seconds.

4. To set the Time Lapse Schedule or Interval, press the **OK** button to enter the selected submenu.
5. Press the **UP** or **DOWN** buttons to change the highlighted value.
6. Press the **LEFT** or **RIGHT** buttons to move to the next option and press the **OK** button at any time to save the settings.

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

2.2.6 Exposure

This menu adjusts the brightness in your scene.

1. In Video Mode, press the **MENU** button.
2. Select '*Exposure*' by using the **LEFT** or **RIGHT** buttons, and press the **OK** button to enter the '*Exposure*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press **OK** to confirm your selected option (+3, +2, +1, 0, -1, -2, -3).
4. Press the **MENU** button to exit the settings menu.

2.2.7 White Balance

White Balance changes the color of light in your videos, 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*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*White Balance*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Auto, Daylight, Cloudy, Florescent, Tungsten*).
4. Press the **MENU** button to exit the settings menu.

2.2.8 Sharpness

This menu adjusts the visible detail of captured video.

1. In Video Mode, press the **MENU** button.
2. Select '*Sharpness*' using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Sharpness*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Sharp, Normal, Soft*).
4. Press the **MENU** button to exit the settings menu.

2.2.9 Color Effect

This menu allows for a unique color filter to be applied to your videos. **Note:** The applied filter cannot be removed from an existing video.

1. In Video Mode, press the **MENU** button.
2. Select '*Color Effect*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Color Effect*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Normal, B & W (Black and White), Sepia, Red, Green, Blue, Sunset, Warm, Cool, Over Exposure, IR, Binary, Vivid, Undertone, Dog Eye, Aibao, Gothic, Japan Style, LOMO, Negative*).
4. Press the **MENU** button to exit the settings menu.

2.2.10 ISO

This menu adjusts the light sensitivity of your videos.

1. In Video Mode, press the **MENU** button.
2. Select '*ISO*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*ISO*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Auto, 100, 200, 400*).
4. Press the **MENU** button to exit the settings menu.

3.0 Playback Mode

Playback mode will allow you to review all of your captured videos and photos. Press the **MODE** button to enter Playback Mode. A 'play' icon will display in the top left corner of the screen.



To exit Playback Mode and return to the main shooting screen, press the **MODE** button at any time.

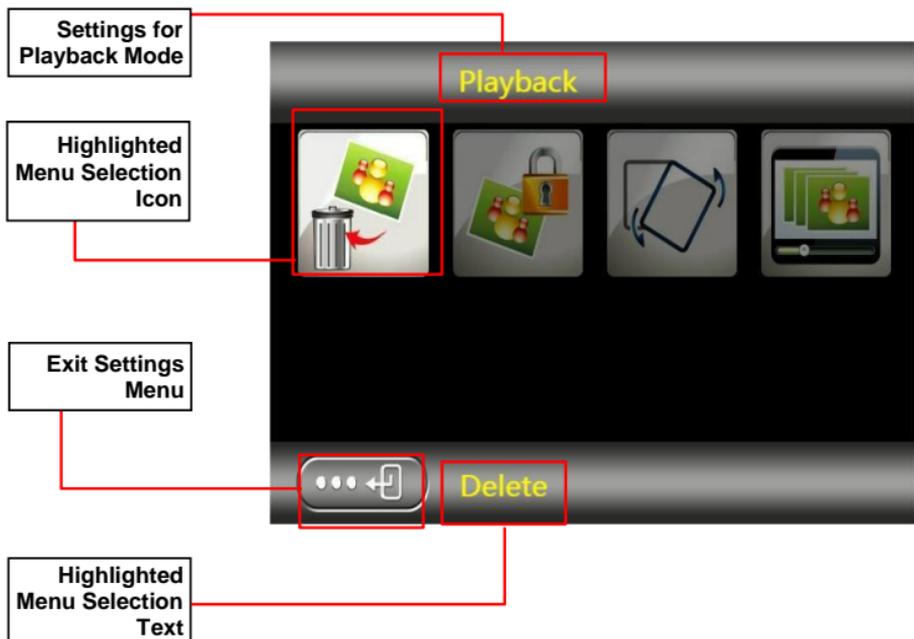
3.0.1 Playback Mode Navigation

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

- Press the **LEFT** or **RIGHT** buttons to cycle through the captured videos and photos stored on the memory card.
- When viewing a photo, press and hold the **ZOOM IN (T)** button to zoom in on the picture on the screen, press and hold the **ZOOM OUT (W)** button to view the entire photo. While zoomed in, use the **UP**, **DOWN**, **LEFT** or **RIGHT** buttons to move within the photo on the screen.
- Push the **ZOOM OUT** button to view a 9-photo grid on the screen. Use the **UP** or **DOWN** buttons to change the page. Press the **OK** button to view the selected media.
- While viewing a recorded video, press the **SHUTTER** button or the **OK** button to start the video. Press the **OK** button to pause the video and again to continue playing the video. Press the **SHUTTER** button to stop the video.

3.1 Photo Playback Screen Menu

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 **LEFT** and **RIGHT** buttons to navigate within the menus. To confirm a menu selection, press the **OK** button. To exit the settings menu, press the **MENU** button again.



3.1.1 Delete

This menu will allow you 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*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Delete*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (This Image/Video, All).
4. Press the **MENU** button to exit the settings menu.

3.1.2 Protect

This menu will allow 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*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Protect*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (*Lock This, Unlock This, Lock All, Unlock All*).
4. Press the **MENU** button to exit the settings menu.

3.1.3 Rotate

This menu will allow you to rotate a single selected file. **NOTE:** This function is not available for recorded videos.

1. In Playback Mode, press the **MENU** button.
2. Select '*Rotate*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Rotate*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (90°, 180°, 270°).
4. Press the **MENU** button to exit the settings menu.

3.1.4 Slideshow

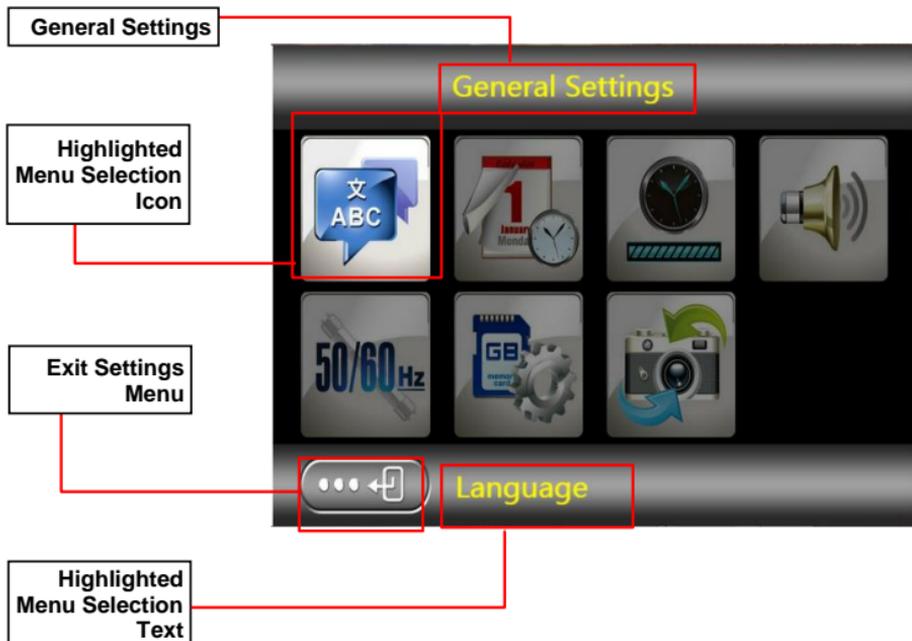
This menu will allow you to initiate an automatic slide show playback of all files captured. The setting will determine how long each file is displayed before proceeding to the next file in the sequence.

1. In Playback Mode, press the **MENU** button.
2. Select '*Slideshow*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Slideshow*' submenu.
3. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (3 Seconds, 5 Seconds, 10 Seconds).
4. Press the **UP** button to exit the slideshow.
5. Press the **MODE** button to exit the settings menu.

4.0 General Settings

The Settings menu adapts based on the current shooting mode of the camera. For example, when in Photo Mode, the Settings 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.

Basic settings can be changed in the General Settings menu. These features include date & time, language, sound options, and functionality features. To access Settings, power the camera on and press the **MODE** button **3 times**. A menu will display on the screen.



4.0.1 Language

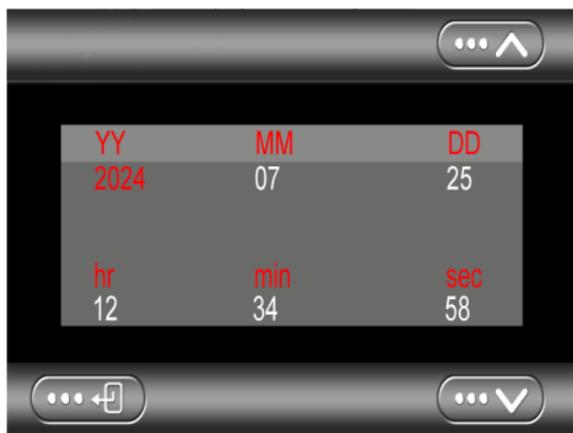
This menu will allow you to set the camera's interface language.

1. In General Settings, select '*Language*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Language*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected language.
3. Press the **MENU** button to exit the settings menu.

4.0.2 Date/Time Set

This menu will allow you to set the current Date and Time on your recorded captured photos and video clips. Once a photo or video file is captured with the imprint, the imprint cannot be removed.

1. In General Settings, select '*Date/Time Set*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Date/Time Set*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (On, Off, Set Date & Time).
3. Press the **MENU** button to exit the settings menu.



4. To set the current date and time, use the **LEFT** or **RIGHT** buttons to select '*Set Date & Time*', and press the **OK** button to enter date setup menu.
5. Press the **UP** or **DOWN** buttons to change the highlighted field.
6. Press the **LEFT** or **RIGHT** buttons to change the selected field.
7. Press the **OK** button to save the entered date and time and to exit the menu.

Note: The **ON** mode indicates an active Date/Time value. The **OFF** mode turns off this value.

4.0.3 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 General Settings, select '*Auto Power Off*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Auto Power Off*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (Off, 1 Minute, 3 Minutes, 5 Minutes).
3. Press the **MENU** button to exit the settings menu.

4.0.4 Beep

This menu will allow you to enable or disable various system sounds.

1. In General Settings, select '*Beep*' by using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Beep*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (On, Off).
3. Press the **MENU** button to exit the settings menu.

4.0.5 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 General Settings, select '*Frequency*' using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Frequency*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (50 Hz, 60 Hz). The default frequency for the United States is 60Hz.
3. Press the **MENU** button to exit the settings menu.

4.0.6 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 General Settings, select '*Format Memory Card*' using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Format Memory Card*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (Yes, No).
3. Press the **MENU** button to exit the settings menu.

4.0.7 Restore Default Settings

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.

1. In General Settings, select '*Restore Default Settings*' using the **LEFT** or **RIGHT** buttons and press the **OK** button to enter the '*Restore Default Settings*' submenu.
2. Press the **LEFT** or **RIGHT** buttons to navigate the menu, and press the **OK** button to confirm your selected option (Yes, No).
3. Press the **MENU** button to exit the settings menu.

5.0 Technical Specifications

Model Number	Minolta MND23
Lens (Main)	Auto Focus • f=3.37mm • F/2.2
Lens (Selfie)	Fixed Focus • f=3.37mm • F/2.2
Zoom	16X Digital Zoom
Photo Sensor	13MP Sony CMOS Sensor
Shutter	Electronic • Digital Photo Stabilization
Pixels (photo)	JPEG: 48 Mega Pixels • 36 Mega Pixels • 24 Mega Pixels • 16 Mega Pixels
Pixels (video)	AVI: 4K (10FPS) • 2.7K (30FPS) • 1080P (30FPS)
ISO Sensitivity	Auto • 100 • 200 • 400 •
LCD Monitor	2.8" IPS LCD Monitor
Assistive Light	LED Flash Strobe • Video Light
Auto Power Off	OFF • 1 Minute • 3 Minutes • 5 Minutes
White Balance Control	Auto • Daylight • Cloudy • Tungsten • Fluorescence
Scene Modes	Night • Portrait • Landscape • Backlight • Sport • Party • Beach • High Sensitivity
Special Features	Beauty Filter • Self-Timer • Face Detection • Smile Capture
Recording Media	MicroSD • MicroSDXC; Maximum: 256GB
I/O Ports	USB-C • Microphone (built-in) • Speaker (built-in)
Power	Lithium-Ion 3.7V, 800mAh (NP-6L)
Dimensions	4.0 x 2.4 x 0.9 in. • 4.1 oz.



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