



MNB10Z



User Manual

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1.0 Introduction

About this Manual:

Congratulations on purchasing the Minolta MNB10Z 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 image sensor to deteriorate or produce a white blur effect in photographs.

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

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

Notes about the LCD Screen:

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

Charging the Battery:

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

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

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

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

Using the Battery When Cold:

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

Recycling Used Batteries:

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

Storage

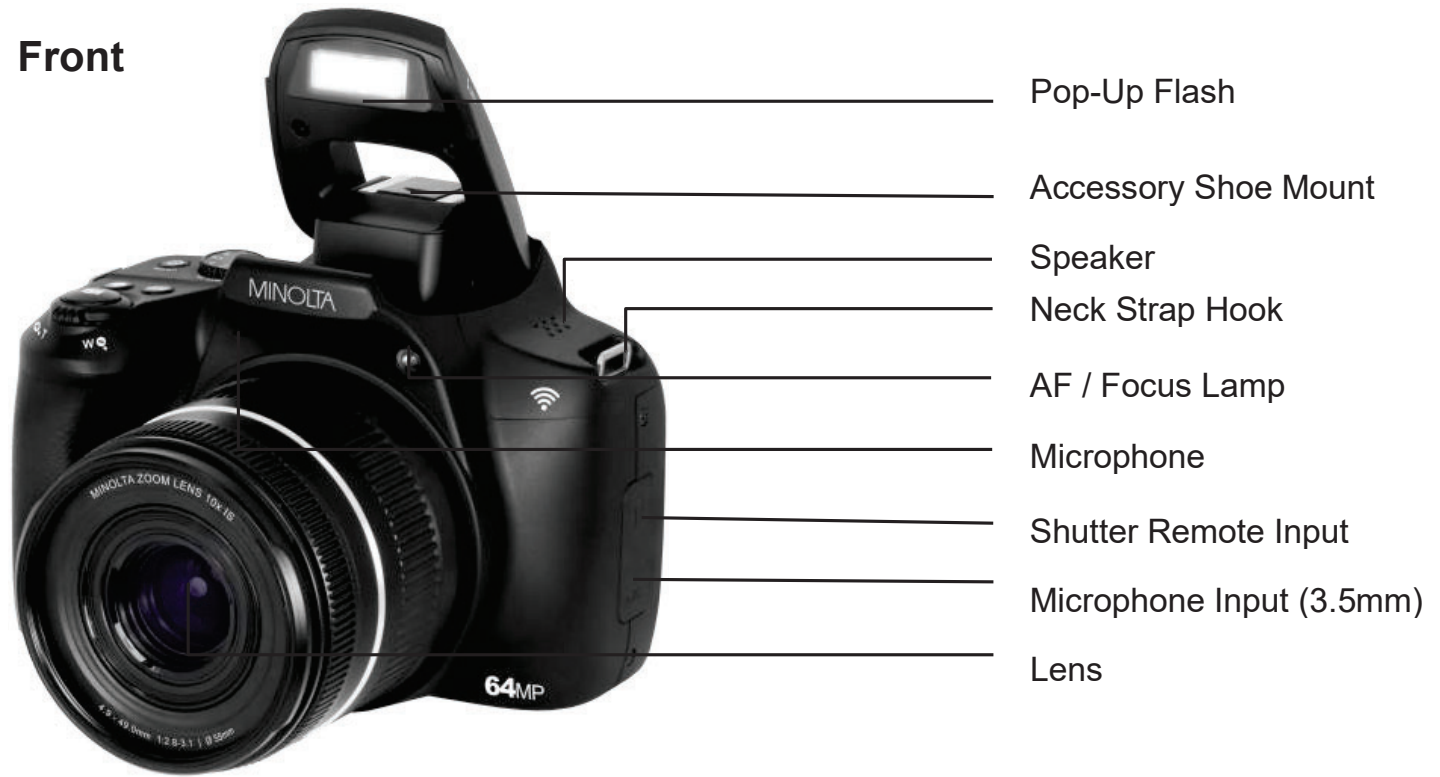
If you do not intend to use the camera for an extended period, remove the battery and avoid storing the camera in any of the following types of locations:

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

Getting Started

1.1 Buttons and Operation Overview

Front

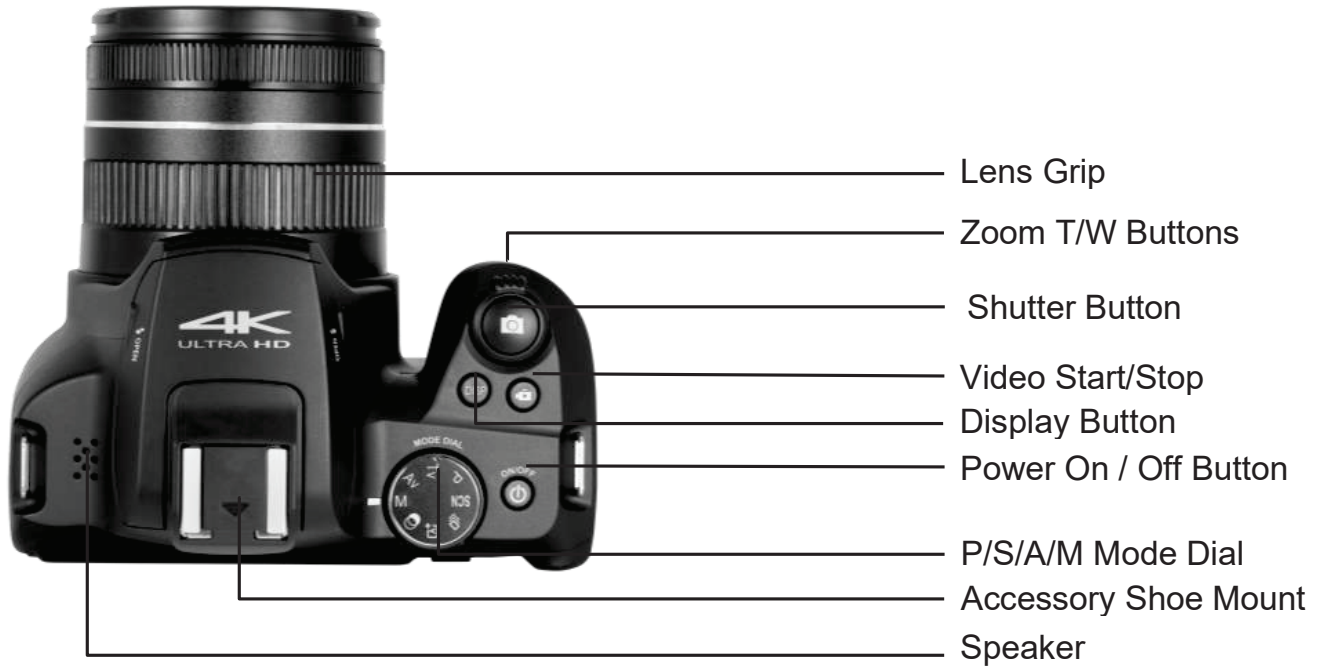


Back

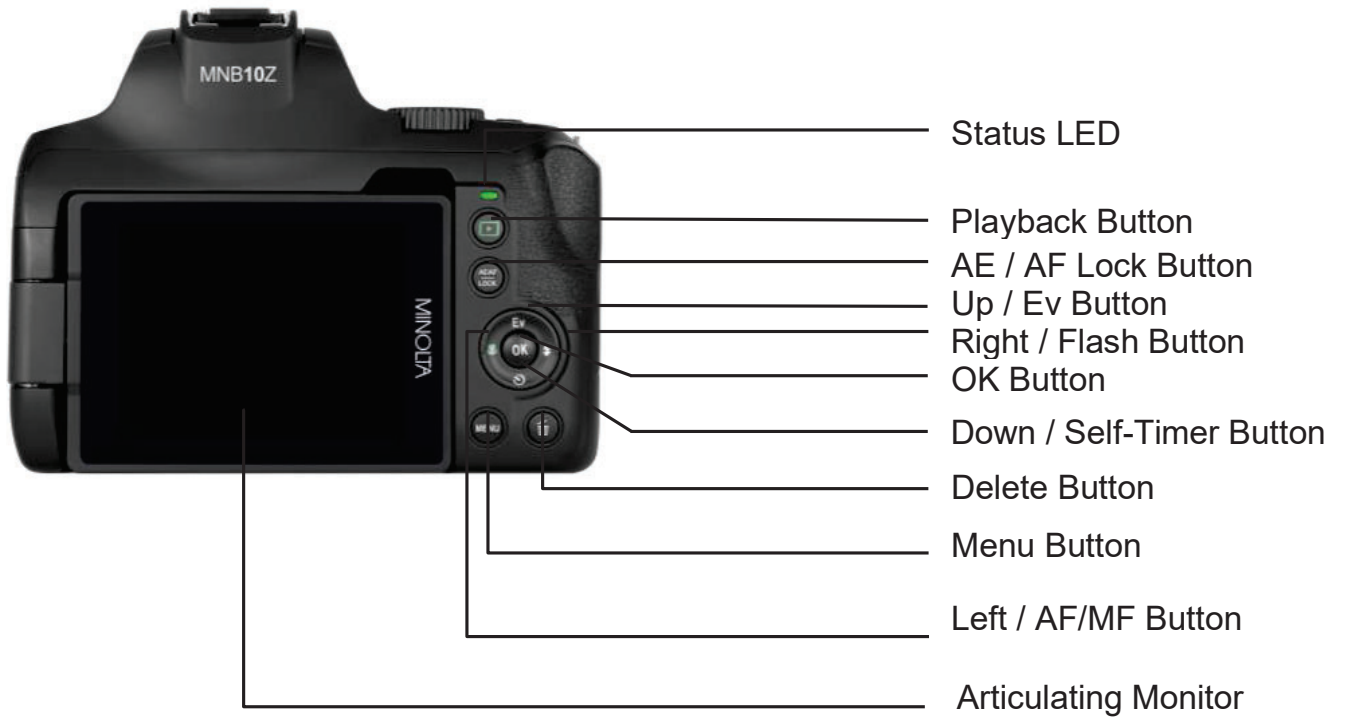


Name:	Function:
Pop-Up Flash	Open the flash door manually by pushing up
Accessory Shoe Mount	Remove placeholder plate and mount hot-shoe accessories like an external microphone, video light, flash unit or other
Speaker	Built-in speaker plays button press sounds and other video playback sounds
Neck Strap Hook	Install a neck strap using these mounting hooks
AF / Focus Lamp	Lamp to assist the camera's system in attaining a proper focus point
Built-in Microphone	Built-in Microphone to capture audio during a video recording
Shutter Remote Input	Input port for a dedicated wired shutter remote controller
Microphone Input	Input port for an external microphone (3.5mm)
Lens	Front objective lens for photo and video capture
Zoom & Shutter Buttons	<p>Zoom Buttons: T and W buttons for optical zooming in and zooming out</p> <p>Shutter Button: Button to focus and capture a photo</p>
HDMI-D Output	Output port for displaying video by HDMI
USB-C Interface	Interface port for charging battery, transferring photos to a PC, or using your camera as a PC Camera
Battery / SD Card Door	Access door for installing/removing the battery and SD memory card
Tripod Mount	Socket for installing a tripod or other mount plate (1/4-20 UNC thread)
Articulating Monitor	IPS monitor than can be opened and swiveled

Top



Back



Name:	Function:
Lens Grip	Grip point when holding the camera
Zoom T/W Buttons	<p>AF Mode (normal): T and W buttons for optical zooming in and zooming out</p> <p>MF Mode (manual): T and W buttons for precise focus adjustment</p>
Shutter Button	Button to focus and capture a photo
Video Start/Stop	Button to enter and start/stop video recording
Display Button	Button to enable or display the display monitor
Power On/Off Button	Button to power the camera on or off
P/S/A/M Photo Mode Dial	Turn the dial to enter all of the various shooting modes
Status LED	<p>Solid Green: Power is on and in standby</p> <p>Blinking Green: Recording Video</p> <p>Single Blink: Photo Captured</p> <p>Fast Blink: Flash strobe is recharging</p> <p>Solid Red: Battery is charging</p>
Playback Button	Button to enter Playback mode
AE/AF Lock Button	Button to lock the current exposure value or focus distance
Up / Ev Button	<p>Button to move Up when navigating menus</p> <p>Button to set the Exposure Value adjustment</p>
Right / Flash Button	<p>Button to move Right when navigating menus</p> <p>Button to set the Flash mode</p>
OK Button	Button to confirm highlighted menu selection
Down / Self-Timer Button	<p>Button to move Down when navigating menus</p> <p>Button to set the Self-Timer function</p>
Delete Button	Button to delete most recent or highlighted file
Menu Button	Button to enter the settings menu
Left / AF/MF Button	<p>Button to move Left when navigating menus</p> <p>Button to set Auto, Manual or Macro focusing</p>

1.2 Camera Features

In addition to basic photo capture, the Minolta MNB10Z has a variety of shooting modes to suit different situations. This section describes how to make the most of the key features of your camera. Together with the explanation of the camera's operations, it will enable you to enjoy your camera to the fullest.



First Use

1.3 Operating Battery Door

Unlock the battery door by sliding the locking latch left with your thumb or nail and release. The battery door should spring open.



1.4 Installing the Battery

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



1.5 Installing the Memory Card

Insert the SD memory card into the battery compartment with the metal contact facing up as shown in the diagram below. Push the memory card in until you hear and audible click.

The SD 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.



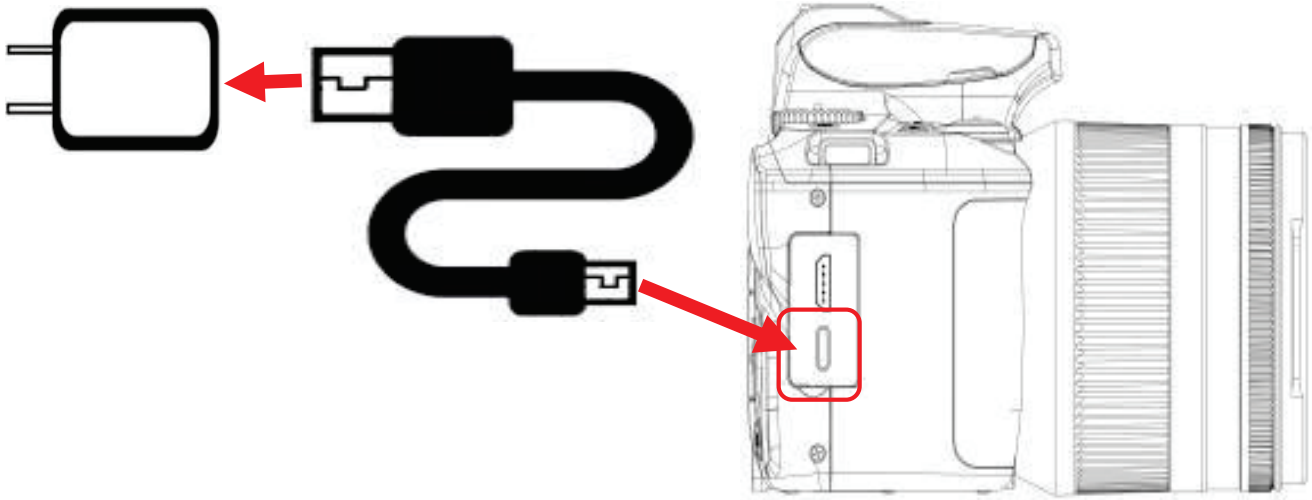
To remove the SD memory card, simply push the card in and the card will eject back out.

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 SD supported is 256GB.

1.6 Charging the Battery

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



1.7 Powering the Camera On and Off

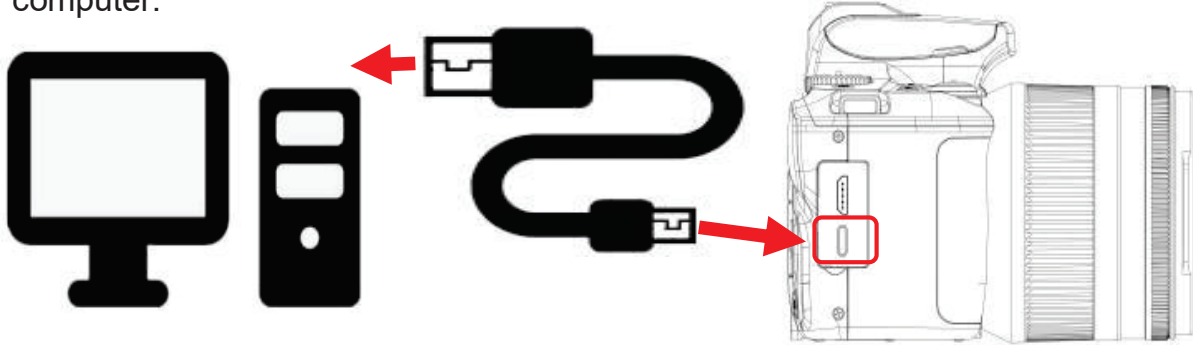
Hold the **POWER** button for 3 seconds to power the camera on. To power the camera off, press and hold the **POWER** button for a further 3 seconds. Alternatively, you can also open the LCD monitor and the camera will automatically power on. Closing the LCD monitor will also automatically power the camera off.

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.



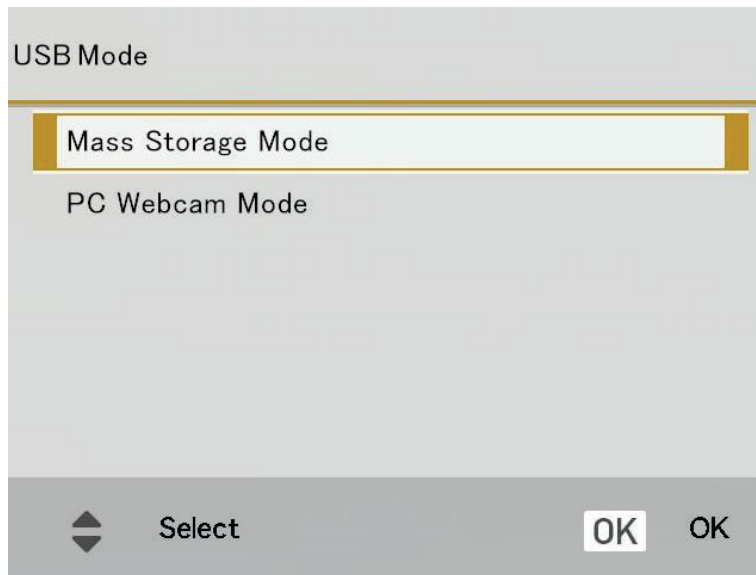
1.8 Connecting to a Computer

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 side of the camera to access the USB-C port. Insert the small end of the USB-C plug into the camera's port and the larger end into a USB port on your computer.



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

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



Mass Storage Mode

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

PC Webcam Mode

will allow the camera to function as a PC web cam.

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

NOTE: When using the camera as a PC Camera, the camera is not able to record video.

Minolta MNB10Z

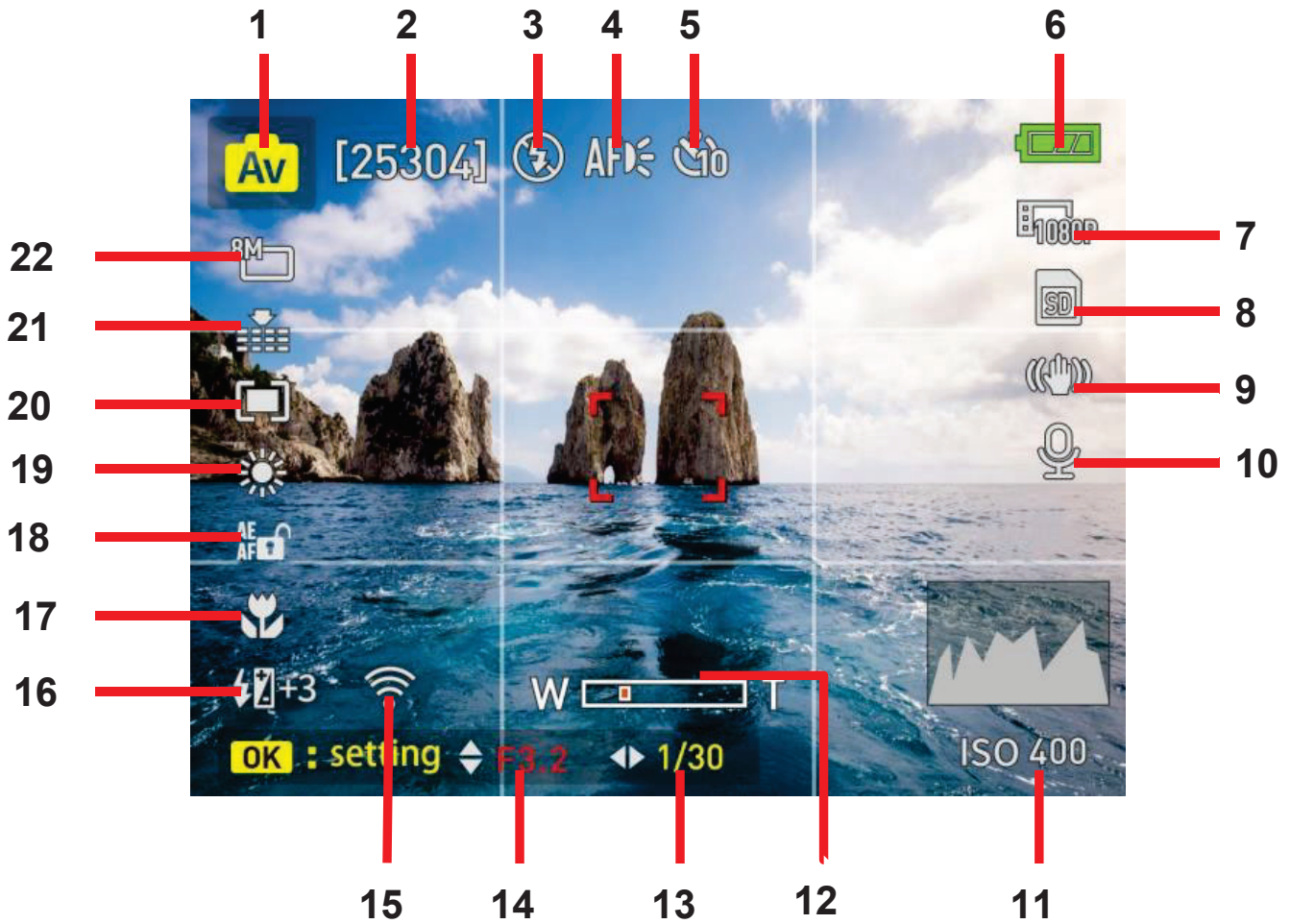
1.9 Accessory Attachments

The MNB10Z supports many different accessory attachment capabilities such as lens filters & attachments, external microphones and assistive lighting utilizing power from the hot-shoe mount.

The front lens has a 55mm diameter threading for compatible filters and attachments.



2.0 Photo Capture Screen



	Function:
1	Current Photo Shooting Mode
2	Remaining Number of Photo Captures
3	Flash Status
4	Focus Lamp Status
5	Self-Timer Status
6	Battery Status
7	Video Resolution Setting
8	Memory Card Inserted
9	Image Stabilization Status
10	External Microphone Connected
11	ISO Status

	Function:
12	Zoom Bar Status
13	Shutter Setting
14	Aperture Setting
15	WiFi Status
16	Exposure Value Setting
17	Macro Mode
18	Face Detection Status
19	Automatic White Balance Status
20	Metering Status
21	Photo Quality Status
22	Photo Resolution Setting

Capture

2.1 Photo Capture Modes

Turn the Mode Dial to switch between the various shooting modes. An explanation of each mode is listed below the figure.

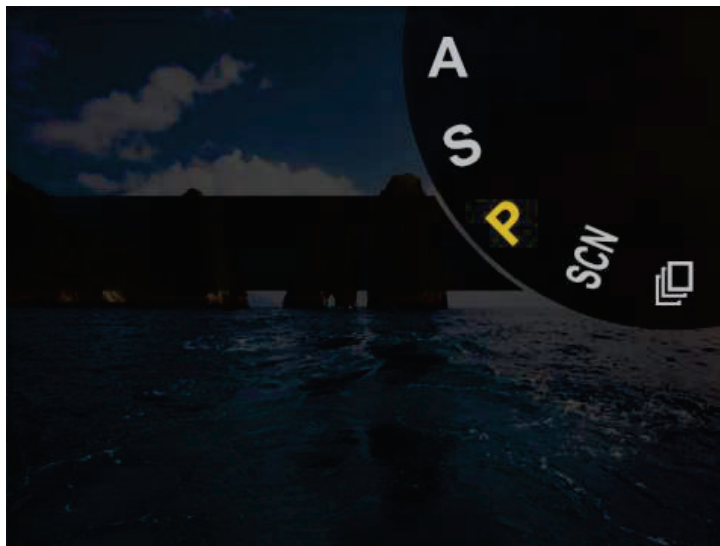


Photo Mode Selection

AUTO (A+ Intelligent Scene)

This shooting mode is an automatic mode that lets the camera make all of the exposure decisions for you. The camera analyses the scene and pre-selects optimized settings to capture a clear photo. Shooting in automatic mode will generally result in great photos.

P (Program)

Program selects the optimal shutter speed and aperture. You can change either of these settings yourself and the camera will adjust the other one to keep the exposure

correct. If you want a shallower depth of field, select a lower f-stop setting and the camera will increase the shutter speed setting to compensate. If you want motion blur in your photo, reduce the shutter speed and the camera will adjust to a smaller aperture (higher f-stop). Using Program Mode is an excellent way to familiarize yourself with the exposure variables.

Av (Aperture Priority)

Aperture Priority allows you to select an aperture setting which helps to determine the depth of field. Based on the aperture setting, the camera will calculate what your shutter speed should be. If shooting in lower light, this can sometimes result in photos that are blurry if a narrow aperture is selected. Aperture Priority Mode is a good choice in bright settings or for shooting fixed or non-moving objects. It is best for achieving a very specific depth of field in your photo.

Tv (Shutter Priority)

Shutter Priority allows you select a fast or slow shutter speed and lets the camera decide on the correct aperture setting needed to get a properly exposed photo. Because the camera gets to choose the aperture setting though, this means that the depth of field effect in your shots will not be consistent. Shutter Priority is best for shooting a moving object like a car driving by or a sports game so that the shutter speed could remain quick enough to capture these moving subjects. Keep in mind that if the lighting conditions are not consistent, you may end up with backgrounds that are different in each shot since the depth of field will keep changing.

M (Manual Exposure)

Manual puts you in control for figuring out the correct exposure for each scene. In Manual Mode, you'll need to determine what the right shutter speed, aperture, and ISO settings should be. This is a lot to figure out for most new or novice photographers, but with a good understanding of how exposure settings work, Manual Mode offers the highest degree of control over your shots.

SCN (Scene Selection)

Similar to AUTO mode, Scene mode allows you manually select from 10 pre-programmed scene settings. Each scene is programmed and optimized for the scene setting selected. You may select from Auto / Scenery / Portrait / Sport / Night Portrait / Night Scenery / Party / Sunset / Backlight / High Sensitivity.

CS (Continuous/Sequential Shooting)

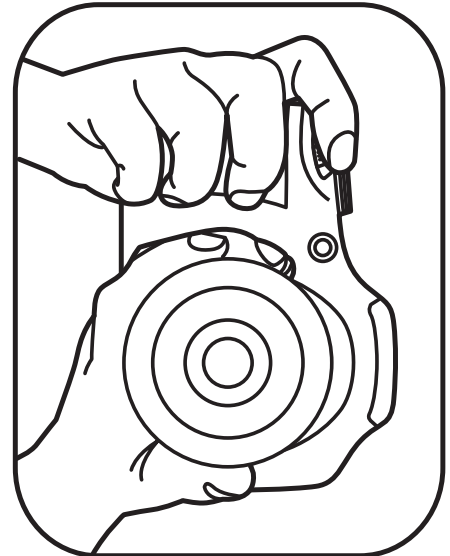
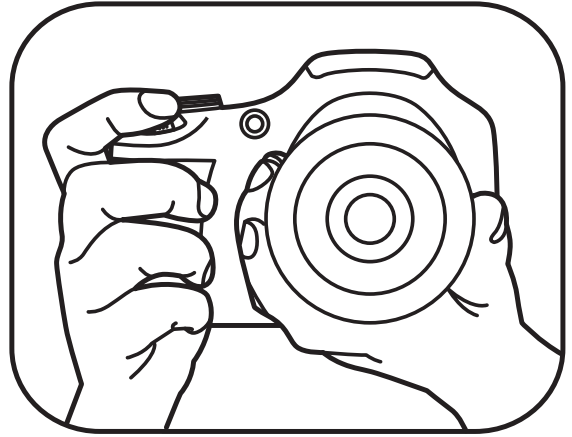
Continuous Shooting captures 3 photos sequentially. Press the shutter button and the camera will begin capturing automatically. Note that when shooting in this mode, the Flash is disabled and cannot be used.

CA (Filter Selection)

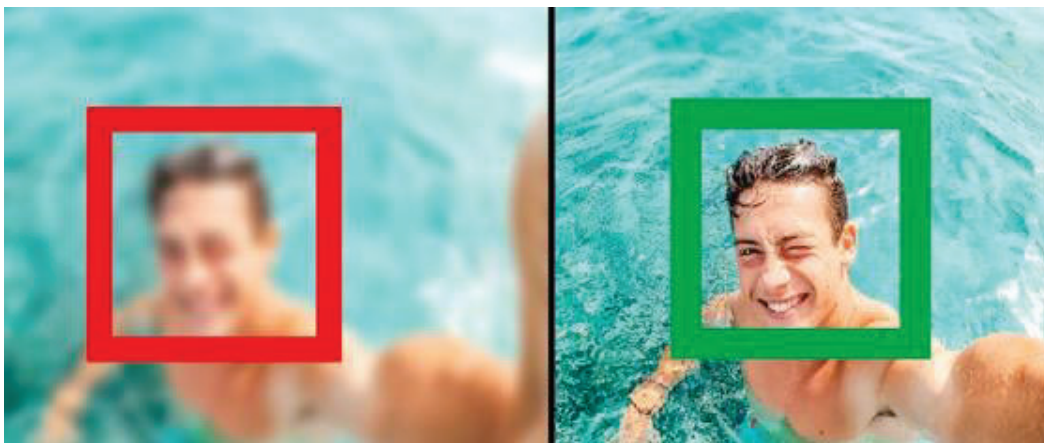
Similar to SCN mode, Filter mode allows you manually select from 10 pre-programmed filter effect settings. Each filter is programmed and optimized for the color setting selected. You may select from Standard / Color Enhancement (Red) / Color Enhancement (Green) / Color Enhancement (Blue) / Color Enhancement (Orange) / Color Enhancement (Yellow) / Color Enhancement (Purple) / Sepia / Monochrome / Pen / Vivid.

2.2 Capturing a Photo

- Once you've selected your shooting mode, hold the camera with both hands, being careful to not 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** lever to select **Tele** or **Wide** positions to zoom in or out on your subject.
- Press the **SHUTTER** button halfway to focus on the subject. When the focus frame turns green, press the **SHUTTER** button down completely to capture the photo.



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



NOTES:

- The number of photos that can be captured at a particular resolution will be displayed at the bottom of the screen.
- The number of remaining photos is determined by the selected photo resolution. The higher the photo resolution setting, the lower the number of photos you are able to be save to the memory card. Before capturing any photos, you can select a preferred photo resolution within the settings menu.

2.3 Capturing a Macro Photo (Close-Up)

The MNB10Z includes an autofocus optical zoom lens and is capable of super 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. It can also be used to zoom into a very small detail of a much larger object.

To capture a macro or close-up shot, press the **LEFT / MACRO** button and you will be presented with 4 macro shooting options. Press the **UP** and **DOWN** buttons to select an option.



Macro Mode Selection

MacroAF – 10 cm Minimum Distance

Select this option to focus on an object of **10 cm** away. The camera will try to attain a clear focus automatically when half-pressing the shutter button.

MacroMF – Super Close 1 cm Minimum Distance

Select this option to manually fully control the focusing when shooting an object 10 cm or less away from the front lens. In this mode, you should be able to shoot an object up to **1 cm** away. Once in this mode, press and hold down the **Zoom T** and **W** slider keys to adjust the focusing manually. You will hear the lens moving with each press and hold of the **T** or **W** keys.

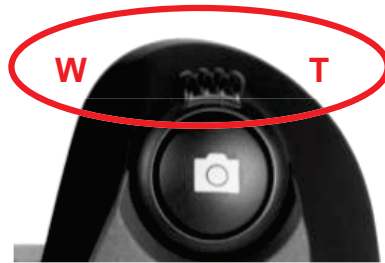


AF – Normal Shooting

Select this option to turn off Macro shooting and return to normal autofocus shooting.

MF – Normal Shooting Manual Focus

Select this option manually focus your shot in normal shooting. In this mode, the **Zoom T** and **W** keys are used to adjust focus and not for zooming. Press and hold down the **Zoom T** and **W** slider keys to adjust the focusing manually. You will hear the lens moving with each press and hold of the **T** or **W** keys.



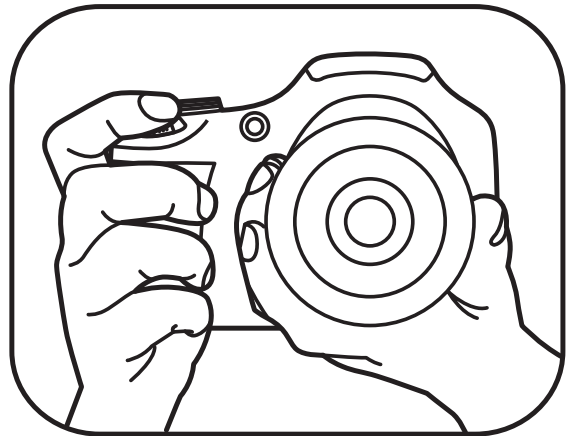
Once ready, press the **OK** button to confirm your selected setting and enter the shooting screen.

Line up your shot by looking at the LCD screen to see what is in the shot. Hold the camera steady with two hands and half-way press the **SHUTTER** button to auto focus. If the intended subject appears blurry, adjust the distance very slightly and half-way press the **SHUTTER** button again. Once you are satisfied with the focus and clarity, fully press the **SHUTTER** to capture a photo.

2.4 Capturing a Video – One Touch Movie Capture

The MNB10Z includes a one touch movie capture button. A single press of the **VIDEO** button will put the camera in Video mode and begin recording a video clip automatically.

- Hold the camera with both hands
- Point the lens toward the object you want to take recording and then frame it with the LCD monitor.
- Use the **ZOOM** lever to select **Tele** or **Wide** positions to zoom in or out on your subject.
- Press the **VIDEO** hotkey shown in the figure below. Once pressed, the camera will go into Video mode and automatically begin recording a video clip.



Video Capture Screen

- To pause recording, press the **UP** button.
- To stop recording and return back to Photo shooting, press the **VIDEO** button again.

2.5 Capturing a Photo with Self-Timer

Use this function to capture pictures at pre-set intervals. The camera can be set to shoot after 2 seconds, 5 seconds, or 10 seconds after pressing the shutter button.

To capture a photo with Self-Timer, or close-up shot, press the **DOWN / SELF-TIMER** button and you will be presented with 4 options. Press the **UP** and **DOWN** buttons to select an option.



Self-Timer Selection

Off

Disables the Self-Timer program.

2 Seconds Timer

When selected, a single photo is captured 2 seconds after the **SHUTTER** button is pressed.

5 Seconds Timer

When selected, a single photo is captured 5 seconds after the **SHUTTER** button is pressed.

10 Seconds Timer

When selected, a single photo is captured 10 seconds after the **SHUTTER** button is pressed.

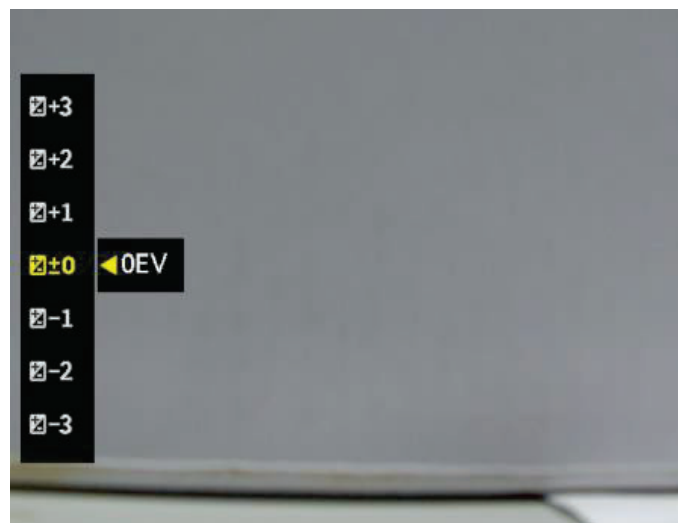
Once ready, press the **OK** button to confirm your selected setting and enter the shooting screen.

Line up your shot by looking at the LCD screen to see what is in the shot. Hold the camera steady with two hands and half-way press the **SHUTTER** button to auto focus. If the intended subject appears blurry, adjust the distance very slightly and half-way press the **SHUTTER** button again. Once you are satisfied with the focus and clarity, fully press the **SHUTTER** to capture a photo.

2.6 Exposure Value Compensation Settings

The exposure value is a number on a scale that represents scene luminance, which is the amount of light present in your composition and falling on your subject (be it a person, place, or thing). For a bright, midday scene, you'll want a high EV like +2 or +3. In other words, you won't want to capture too much light with your aperture/shutter speed combination. For a dark subject – say, the Northern Lights – you'll need a much lower value like -3 EV in order to avoid underexposure.

To enter the Ev menu settings, press the **UP / EV** button and you will be presented with 7 options. Press the **UP** and **DOWN** buttons to select an option. A higher or positive (+) Ev value will brighten a scene, whereas a lower or negative (-) Ev value will darken a scene.



Ev Selection

Once ready, press the **OK** button to confirm your selected setting and enter the shooting screen.

Line up your shot by looking at the LCD screen to see what is in the shot. Hold the camera steady with two hands and half-way press the **SHUTTER** button to auto focus. If the intended subject appears blurry, adjust the distance very slightly and half-way press the **SHUTTER** button again. Once you are satisfied with the focus and clarify, fully press the **SHUTTER** to capture a photo.

2.7 Using the Built-in Flash

The flash provides supplemental light for the scene. It is also suitable for metering and shooting in darker scenes to improve the exposure.

1. Pop the flash up manually as shown below:



2. Press the **LEFT / FLASH** button to enter the Flash menu.



3. Press the **UP** and **DOWN** buttons to select from the following modes:

**Auto**

Camera flash goes off automatically based on existing light conditions.

Red-Eye Reduction

The camera emits a brief pre-flash before the picture is taken to reduce red-eye effects.

Flash On

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

Slow Flash

This allows you to take pictures of people at night that clearly show both your subjects and the night time backdrop. The use of a tripod is recommended when shooting with this setting.

Flash Off

Flash is turned off.

4. Press the **OK** button to confirm the settings and enter the shooting screen.

NOTE:

Flash is not available when recording a video.

2.8 AE/AF Lock

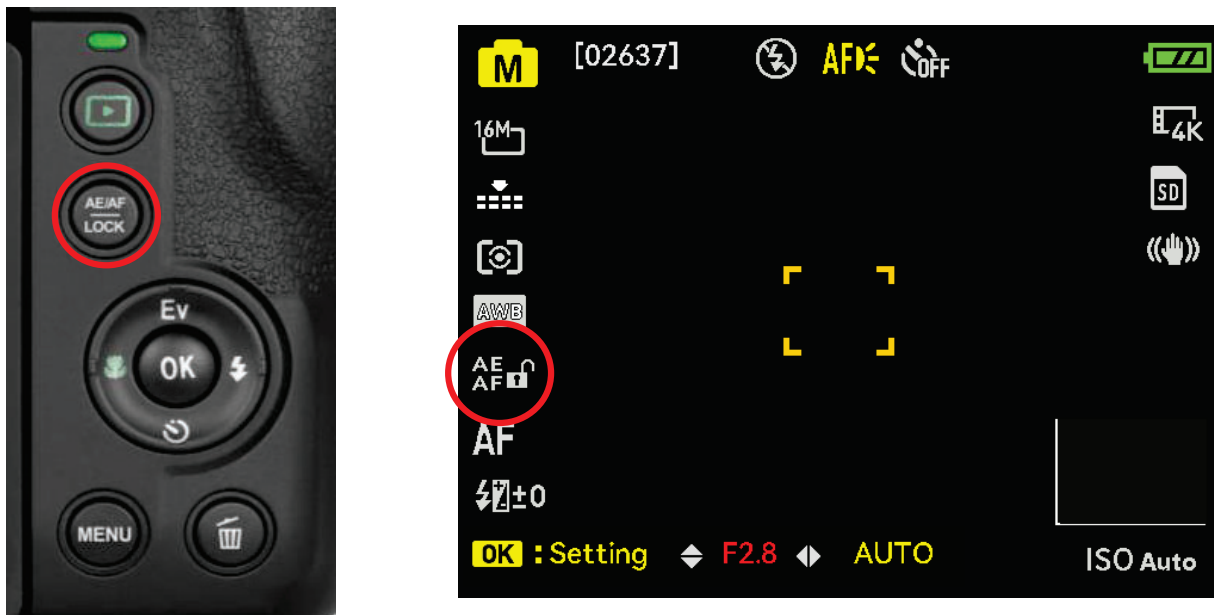
This button allows you quickly lock Exposure or Focus. The default setting for whether the button locks Exposure and/or Focus can be found in the Settings menu.

AE-L (Auto Exposure Lock)

This function allows you to lock the auto exposure during shooting. It is useful for when you want to reframe the scene, but keep the current exposure from changing. It allows the camera to maintain the same brightness between captures.

AF-L (Auto Focus Lock)

This function allows you to lock the lens focus during shooting. It is useful for when you want to focus on an object, and then recompose your shot freely while still focused on the desired subject. It allows the camera to maintain the same focus between captures.



To unlock AE/AF, press the **AE/AF LOCK** button again.

2.9 Using the Optical Zoom Function

The MNB10Z is equipped with an autofocus lens and a 10x optical zoom and 2x digital zoom function. Optical zoom uses a real multi-focal-length camera lens to bring the image close to you before you capture a photo. It differs greatly from digital zoom, which only enlarges your image electronically by cropping and enlarging the central part of the photograph.

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

When the optical zoom reaches the threshold at digital zoom, release and turn the **ZOOM** lever to **T** to switch between the optical zoom and digital zoom. The threshold will be marked by a red line in the zoom bar indicator.

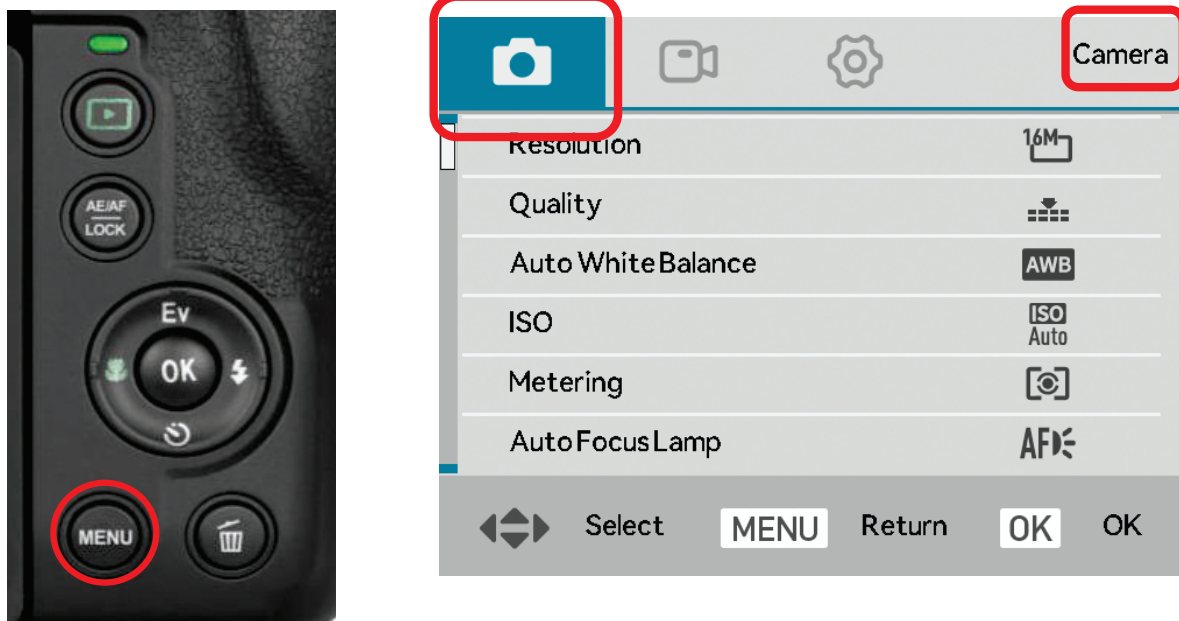


Photo Mode – Zoom Bar

3.0 Camera Settings Menu

All settings in this menu will affect the photos being captured. To access this menu, press the **MENU** button. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from *Camera* settings to *Video* or *System* settings.

The highlighted screenshot below shows the Photo settings. The Photo mode icon selected, and “Camera” is displayed at the top right corner.



Each setting in the menu is explained in further below in the manual.

NOTE: Not all settings below are available in all shooting modes. If a menu is not visible in the menu, change the shooting mode dial to another applicable shooting mode.

3.1 Resolution

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

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Resolution*' and press the **OK** button to enter the submenu.
4. You may select from *64 Mega Pixels*, *32 Mega Pixels*, *16 Mega Pixels*, and *8 Mega Pixels*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.2 Quality

This setting adjusts the visible detail of a photograph. The higher the quality, the greater the photo detail and the larger the file size of the photo.

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Quality*' and press the **OK** button to enter the submenu.
4. You may select from *Super Fine*, *Fine*, and *Normal*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.3 Auto 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. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Auto White Balance*' and press the **OK** button to enter the submenu.
4. You may select from *Auto*, *Daylight*, *Cloudy*, *Tungsten*, and *Fluorescent*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.4 ISO

ISO allows you to set the sensitivity of the camera sensor. Use a higher ISO value in darker places and a lower value in brighter conditions. The lower the ISO, the more detailed and photo will appear. The higher the ISO, the less detailed it will appear.

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*ISO*' and press the **OK** button to enter the submenu.
4. You may select from *Auto*, *100*, *200*, *400*, *800*, *1600*, and *3200*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.5 Metering

Metering is the process of how your camera decides to assign the right shutter speed and aperture based on the amount of light the camera can pick up. This setting allows you to set the “target” size of the camera’s field of view to be metered.

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select ‘*Metering*’ and press the **OK** button to enter the submenu.
4. You may select from:

Multi

Evaluates the light intensity at multiple points in the frame and automatically determines the best value for the light meter.

Center

For metering the object in the center of the screen.

Spot

For metering the block displayed in the center of the screen.

5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.6 Auto Focus Lamp

This setting adjusts the to assist the camera’s system in attaining a proper focus point.

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select ‘*Auto Focus Lamp*’ and press the **OK** button to enter the submenu.
4. You may select from *Auto* and *Off*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.7 Face Detection

Face detection simply detects the face in the frame and then it set the autofocus and exposure settings to give priority to the face.

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select ‘*Face Detection*’ and press the **OK** button to enter the submenu.
4. You may select from *On* and *Off*.

5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.8 AE-L & AF-L

This setting allows you set the default setting for the **AE/AF LOCK** hotkey. When pressing this button, it allows to quickly lock the Exposure and/or Focus.

AE-L (Auto Exposure Lock)

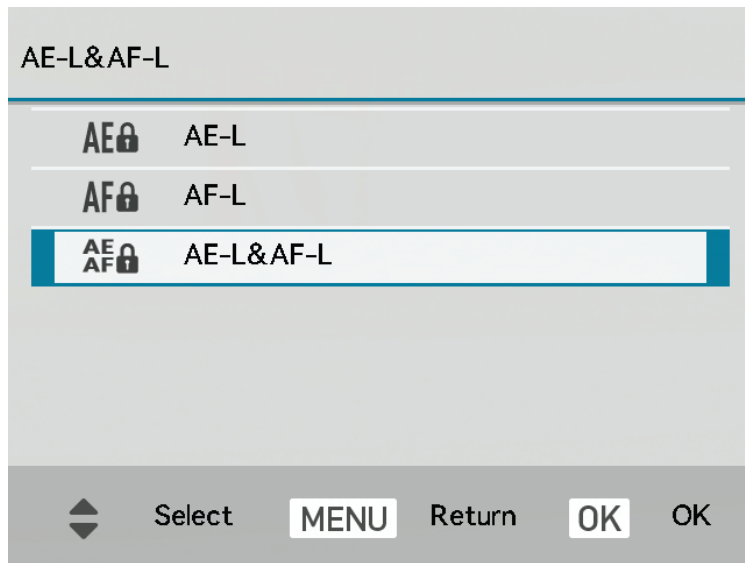
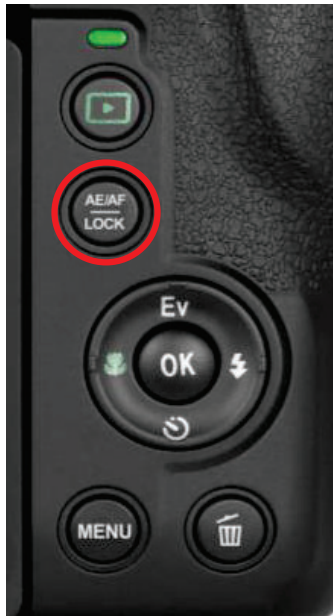
This function allows you to lock the auto exposure during shooting. It is useful for when you want to reframe the scene, but keep the current exposure from changing. It allows the camera to maintain the same brightness between captures.

AF-L (Auto Focus Lock)

This function allows you to lock the lens focus during shooting. It is useful for when you want to focus on an object, and then recompose your shot freely while still focused on the desired subject. It allows the camera to maintain the same focus between captures.

AE-L & AF-L (Auto Focus Lock)

This function allows you to lock both the auto exposure and lens focus during shooting.



AE-L & AF-L Selection

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select 'AE-L & AF-L and press the **OK** button to enter the submenu.
4. You may select from *AE-L*, *AF-L* and *AE-L & AF-L*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.9 Grid Lines

This setting allows you to add gridlines to the photo capture screen. The gridlines may help with aligning and aiming your shot.

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Grid Lines*' and press the **OK** button to enter the submenu.
4. You may select from *On* and *Off*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.10 Anti-Shake

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

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Anti-Shake*' and press the **OK** button to enter the submenu.
4. You may select from *On* and *Off*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.11 Date Stamp

This setting allows you to imprint a date and/or time stamp onto your captured photos. Once a file is recorded with the imprint, the imprint cannot be removed

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Date Stamp*' and press the **OK** button to enter the submenu.
4. You may select from *Off* and *On*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

3.12 Quick Review

This setting allows you to automatically display a photo immediately after it is captured.

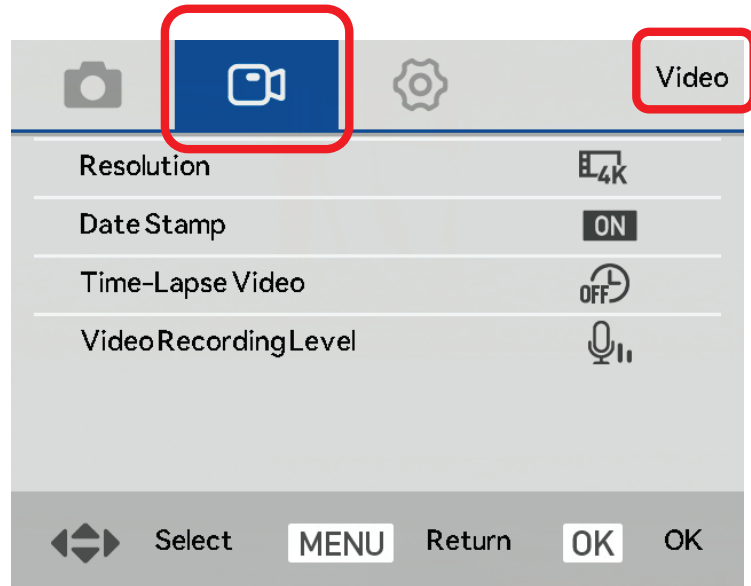
1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons will switch the menu from Photo settings to Video or System settings.
3. Select '*Quick Review*' and press the **OK** button to enter the submenu.
4. You may select from *Off*, *2 Seconds*, and *5 Seconds*.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to shooting.

4.0 Video Settings Menu

All settings in this menu will affect the videos being captured. To access this menu, press the **MENU** button. Once in the menu, press the **RIGHT** button to switch from *Camera* settings to *Video* settings.

Use the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons again will switch the menu from *Video* settings to *System* or *Camera* settings.

The highlighted screenshot below shows the *Video* settings. The *Video* mode icon selected, and “*Video*” is displayed at the top right corner.



Each setting in the menu is explained in further below in the manual.

4.1 Resolution

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

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button to switch from *Camera* settings to *Video* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select ‘*Resolution*’ and press the **OK** button to enter the submenu.
5. You may select from *4K 24FPS*, *2K 30FPS*, *1080P 30FPS*, *1080P 60FPS*, and *720P 60FPS*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

4.2 Date Stamp

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

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button to switch from *Camera* settings to *Video* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Date Stamp*' and press the **OK** button to enter the submenu.
5. You may select from *Off* and *On*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

4.3 Time Lapse Video

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

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

The length of time you record a Time-Lapse video will determine the final real compressed file length. For example, if you record a video for 10 minutes and stop, the camera will play it back in a compressed time of 4 seconds long.

The calculation to determine the final playback length is:

Duration (in seconds) / (Interval * 30 frames per second)

Using a Time-Lapse setting of "5 seconds" and a recording duration of 10 minutes, the calculation to determine the final compressed playback length is:

$\frac{10 \text{ minutes}}{(5 \text{ seconds} * 30 \text{ frames per second})} =$
 $600 \text{ seconds} / 150 = \mathbf{4 \text{ seconds}}$

1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button to switch from *Camera* settings to *Video* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Time-Lapse*' and press the **OK** button to enter the submenu.
5. You may select from *Off*, *1 Second*, *3 Seconds*, and *5 Seconds*.

6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

4.4 Video Recording Level

This setting sets the audio recording sensitivity when recording a video.

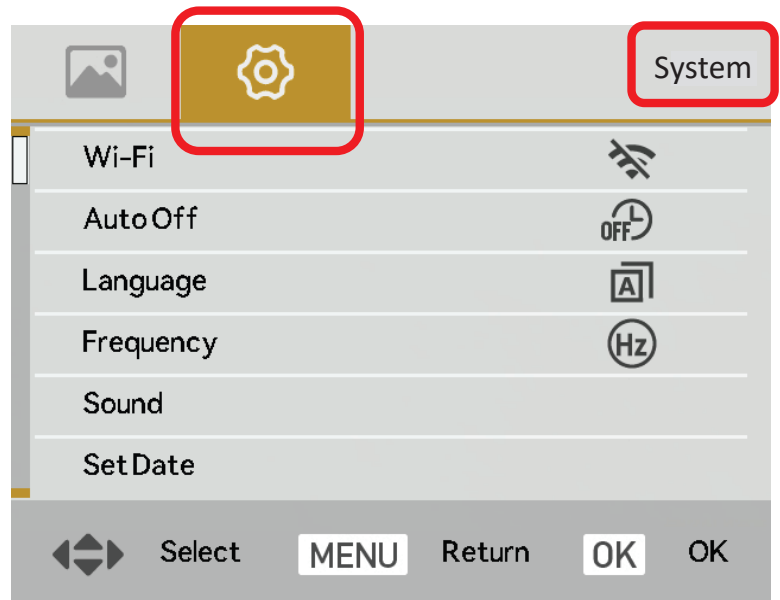
1. To access this menu, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button to switch from *Camera* settings to *Video* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Recording Sensitivity*' and press the **OK** button to enter the submenu.
5. You may select from *Soft*, *Normal*, and *Strong*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

5.0 System Settings Menu

All settings in this menu are system wide. To access this menu, press the **MENU** button. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.

Use the **UP** and **DOWN** buttons to navigate. Pressing the **LEFT** and **RIGHT** buttons again will switch the menu from System settings to *Camera* or *Video* settings.

The highlighted screenshot below shows the System settings. The System icon selected, and “System” is displayed at the top right corner.



Each setting in the menu is explained in further below in the manual.

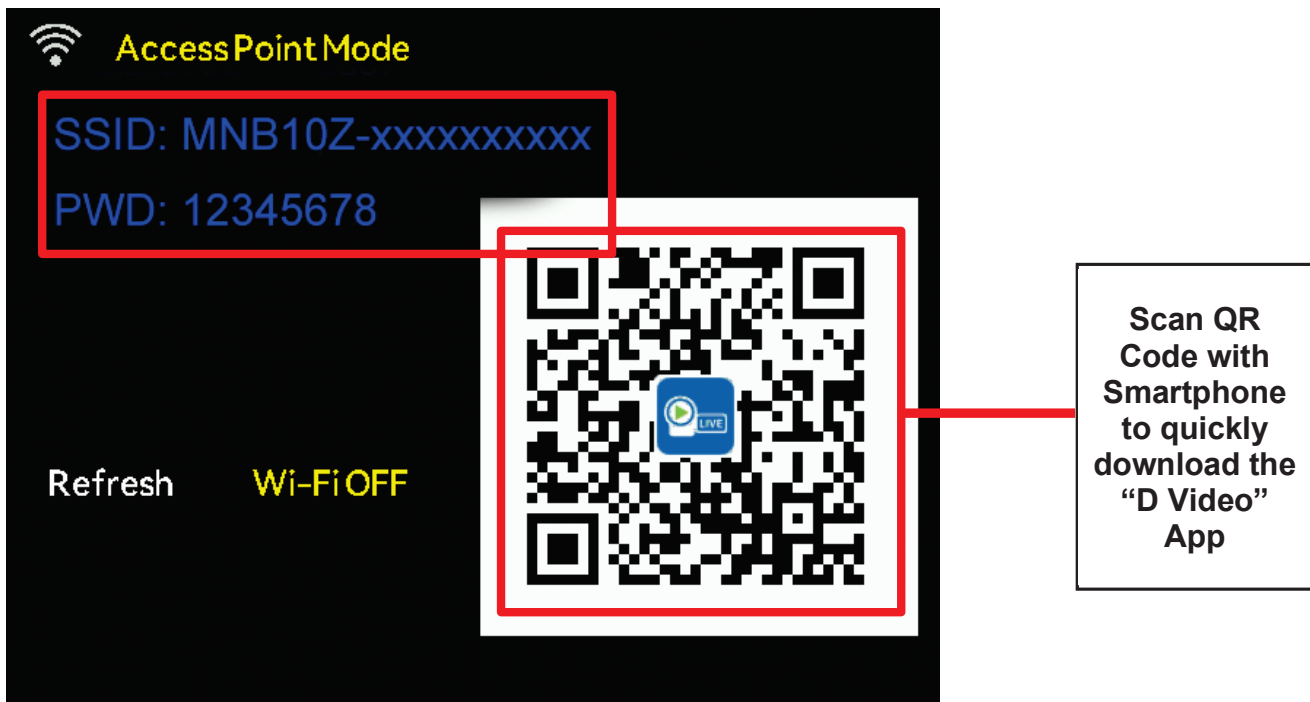
5.1.1 Wi-Fi

This setting allows to enable or disable Wi-Fi for connecting your camera to your smartphone. When connecting your MNB10Z to your smartphone, you can utilize your smartphone as a remote viewfinder with live viewing.

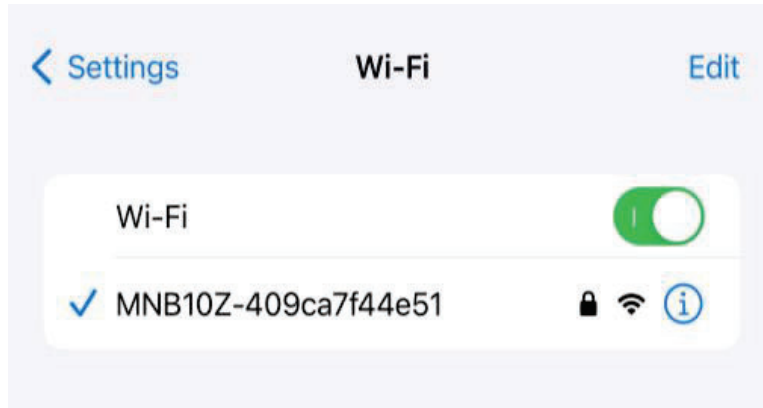
To wirelessly operate the MNB10Z camera, you will need to install the “D Video” app on your Android or iOS device. To download the app, search for “D Video” in the Apple App Store or Google Play Store. You may also scan the QR code that will be shown on the camera’s LCD monitor once your camera’s Wi-Fi has been enabled.

1. To access the camera’s Wi-Fi settings, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select ‘*Wi-Fi*’ and press the **OK** button to enter the submenu.
5. You may select from *Off* and *On*.
6. Highlight your selection and press the **OK** button to confirm and you will enter the Wi-Fi status screen.

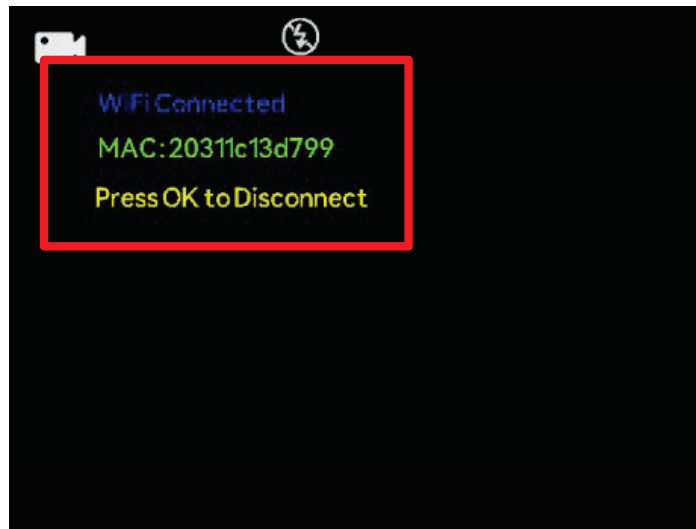
Once you enable Wi-Fi, the **SSID** (camera’s Wi-Fi network name) and **password** are displayed here for connecting to your smartphone.



Open your smartphone's Wi-Fi menu, turn all Wi-Fi settings On and tap the network named "**MNB10Z_XXXXXXX**" to connect to the camera. When prompted, enter the password **12345678**.



Once connected successfully, your camera will display the following success screen.



If your smartphone is having trouble finding the camera's Wi-Fi name, press the **LEFT** or **RIGHT** buttons to highlight '*Refresh*'. Press the **OK** button and your camera will reinitiate another broadcast.



Once connected successfully, exit the Wi-Fi menu on your smartphone and open the “D Video” app to launch remote operation of your camera.

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

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



To exit Wi-Fi mode on your camera, press the **LEFT** and **RIGHT** buttons to highlight ‘*Wi-Fi OFF*’. Press the **OK** button and your camera will return to the shooting screen.

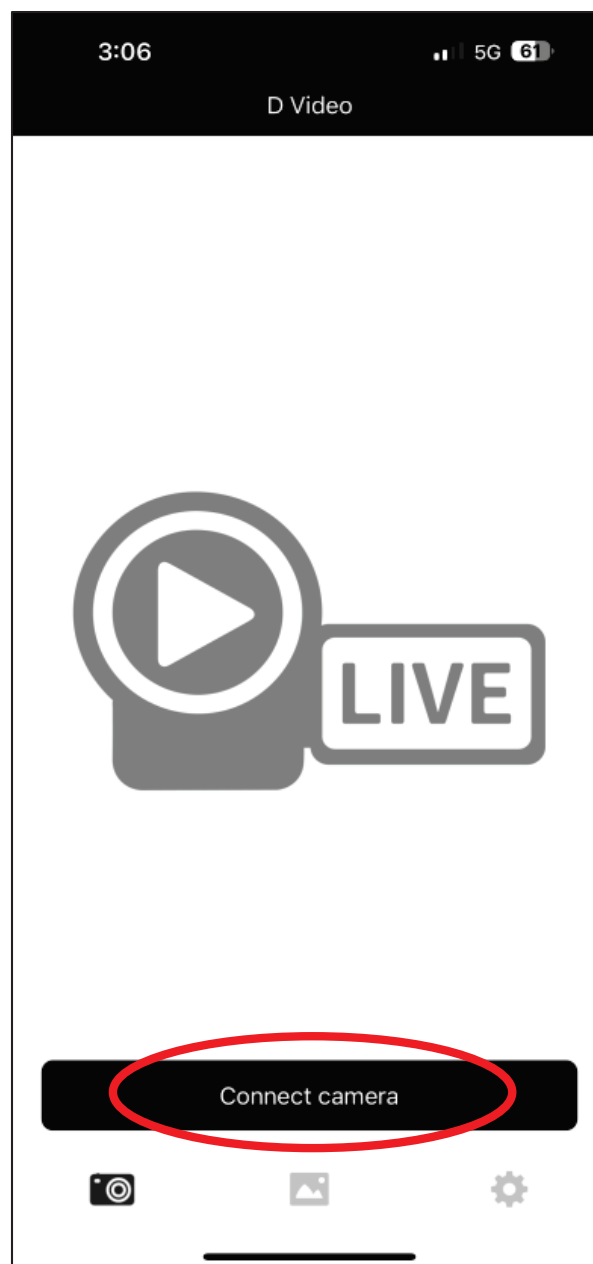


5.1.2 Wi-Fi and Smartphone App Guide

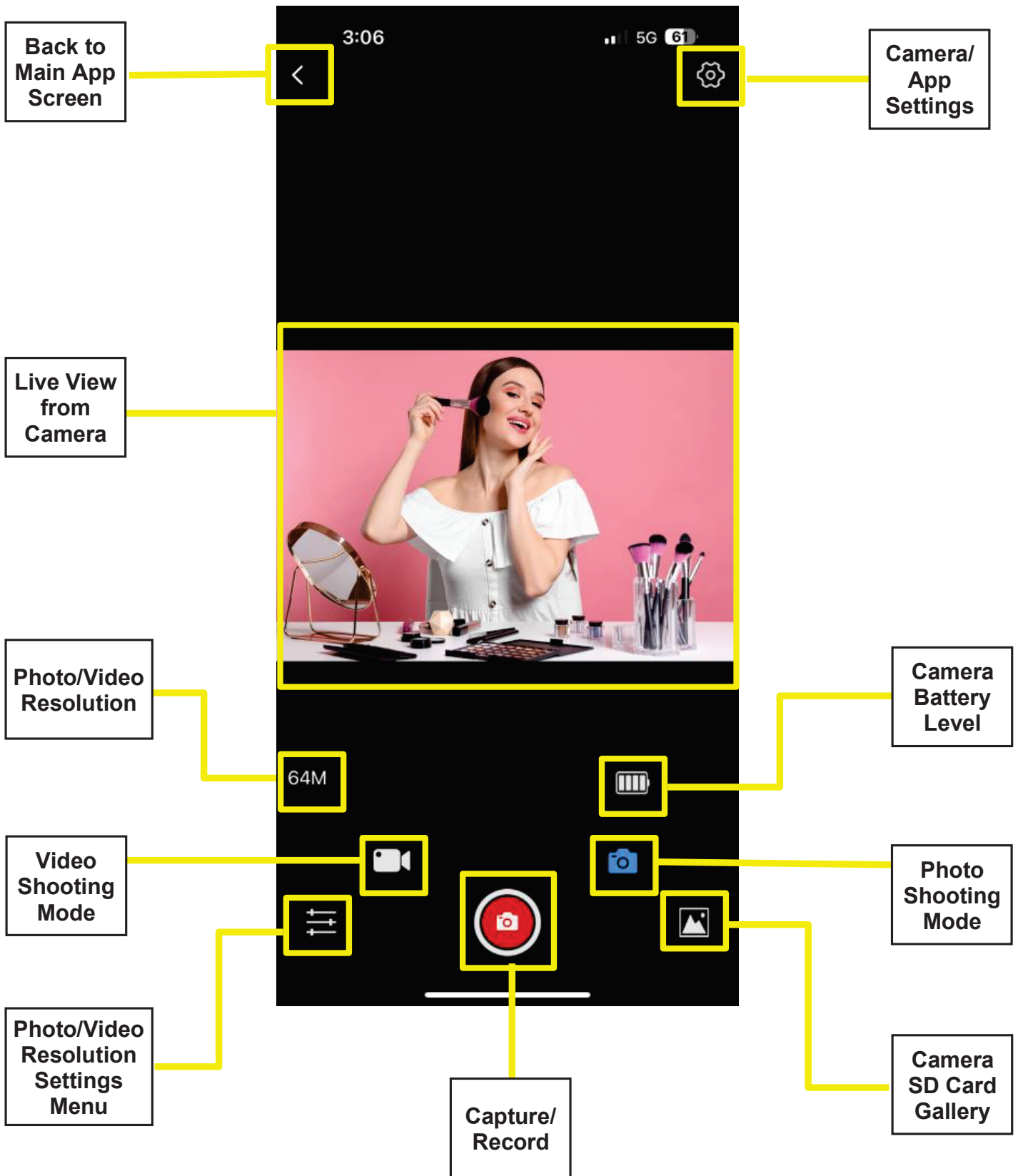
The figures provided in this user manual will offer a simple guide and explanation of the “D Video” app. Note that the “D Video” smartphone app may be updated periodically and the version displayed on your smartphone may differ slightly than the figures shown in this user manual.

After following the instructions on enabling Wi-Fi on your MNB10Z and connecting to your smartphone, exit the Wi-Fi menu on your smartphone and open the “D Video” app to launch remote operation of your camera.

Once the “D Video” app launches, you’ll be prompted with the below app screen. Tap **Connect Camera** on your screen and your camera should connect automatically and display a live video feed.



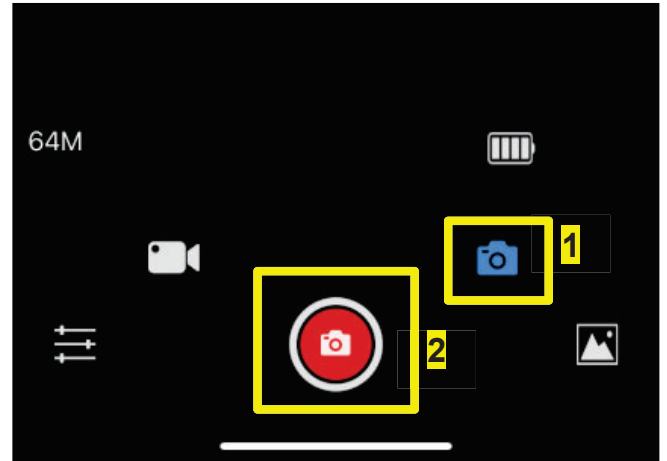
5.1.2.1 Smartphone App Main Screen Explanation



5.1.2.2 Smartphone App Operation

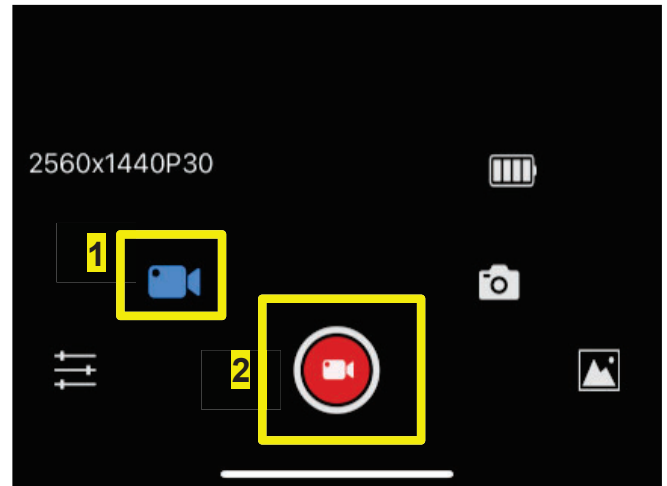
Capture Photo

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



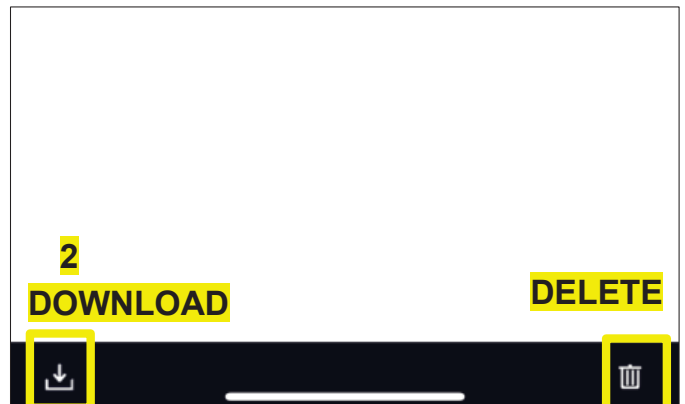
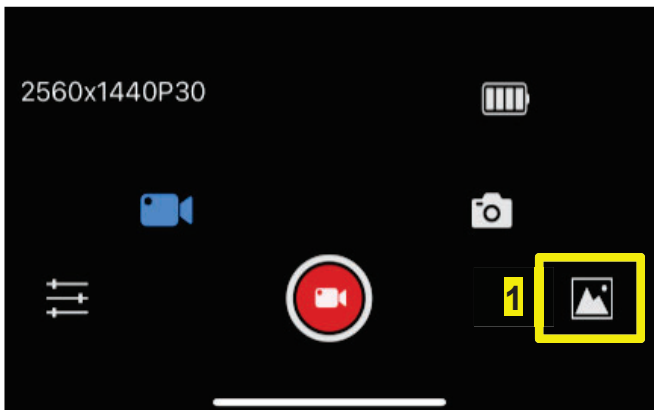
Record Video

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



Download Photos & Videos to Smartphone

Tap the **Gallery** icon to access all photos and videos stored on your camera's SD memory card. Once you enter the Gallery, tap on a photo or video file to preview. Then tap the **Download** button in the bottom right corner. You may also **Delete** a file from this same screen.



5.2 Auto Off

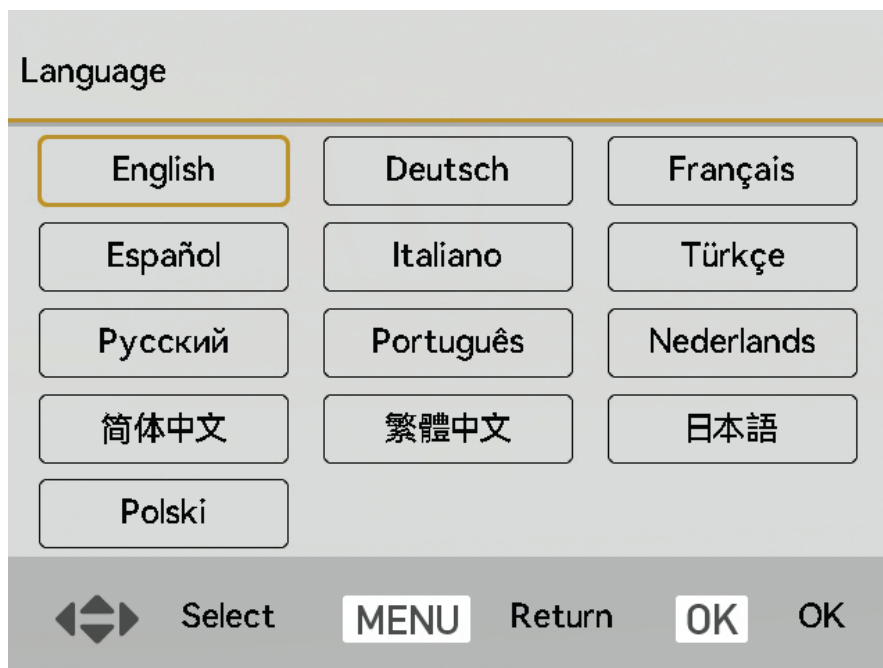
This menu sets the duration of time in which the camera will wait with no user input before automatically powering off.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Auto Off*' and press the **OK** button to enter the submenu.
5. You may select from *None*, *3 Minutes*, *5 Minutes*, and *10 Minutes*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

5.3 Language

This menu sets the display language for all menus.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Language*' and press the **OK** button to enter the submenu.
5. You may select from any of the display languages. Below is screenshot of all languages for reference.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.



5.4 Frequency

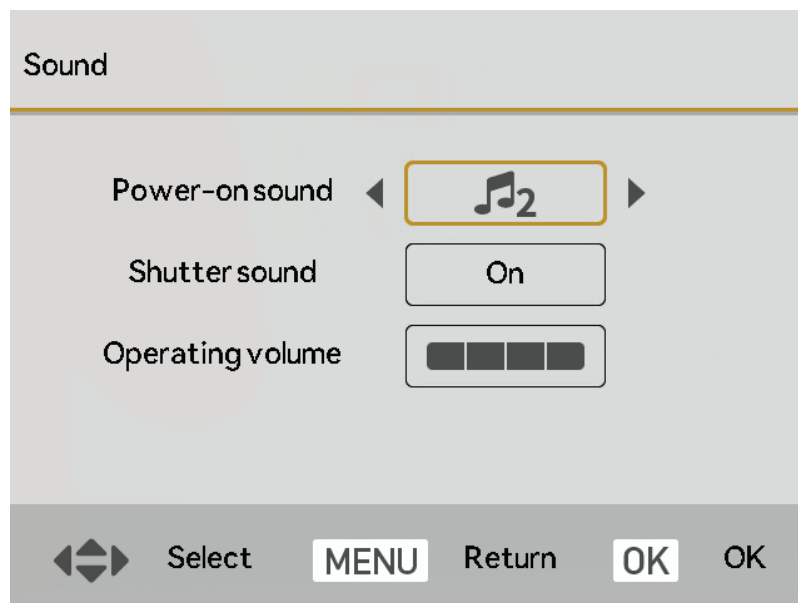
This menu sets the light frequency of the camera from 50Hz to 60Hz. Check the frequency of your geographical region and set accordingly.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Frequency*' and press the **OK** button to enter the submenu.
5. You may select from *50Hz* and *60Hz*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

5.5 Sound Settings

This menu sets all of the options for sounds emitted by the camera.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Sound Settings*' and press the **OK** button to enter the submenu.
5. You will be presented with the following screen. Use the **UP**, **DOWN**, **LEFT** and **RIGHT** buttons to navigate and adjust settings.

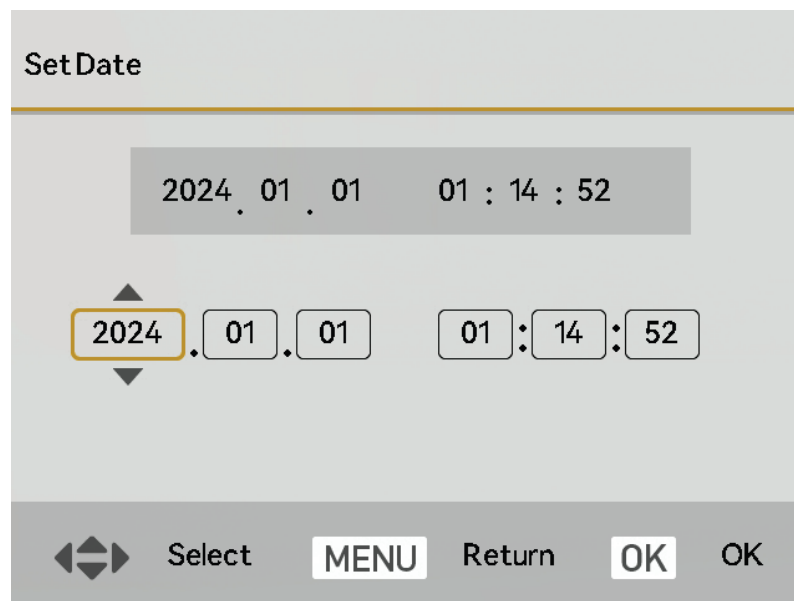


6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit this submenu, and press **MENU** again to exit the settings menu and return to shooting.

5.6 Set Date

This menu allows you to set the date and time for the system.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select 'Set Date' and press the **OK** button to enter the submenu.
5. You will be presented with the following screen. Use the **UP**, **DOWN**, **LEFT** and **RIGHT** buttons to navigate and adjust the value.



6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

5.7 Format

This menu erases all photos, videos and data stored on your memory card.

Warning: this cannot be undone.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select 'Format' and press the **OK** button to enter the submenu.
5. You will be prompted to select from *Cancel* or *OK*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

5.8 Default

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

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Default*' and press the **OK** button to enter the submenu.
5. You will be prompted to select from *Cancel* or *OK*.
6. Highlight your selection and press the **OK** button to confirm.
7. Press the **MENU** button to exit the settings menu and return to shooting.

5.9 Version

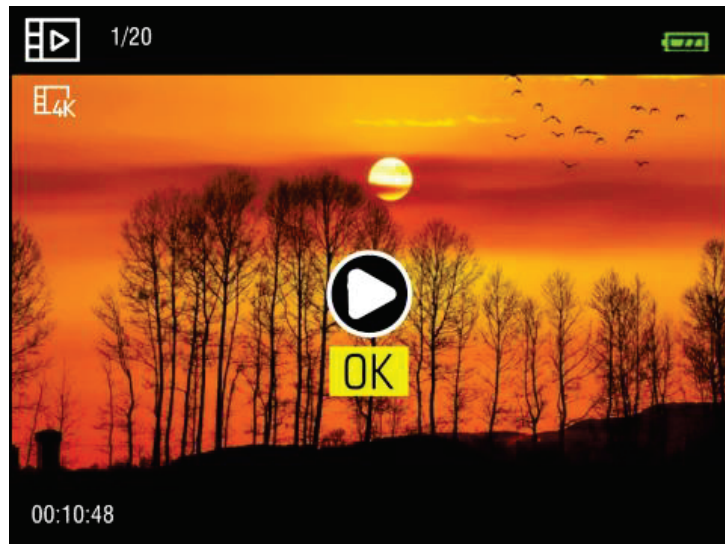
This submenu displays the firmware version of the current system. This menu is informational only and no settings can be accessed or changed here.

1. To access this setting, press the **MENU** button.
2. Once in the menu, press the **RIGHT** button twice to switch from *Camera* settings to *System* settings.
3. Press the **UP** and **DOWN** buttons to navigate.
4. Select '*Version*' and press the **OK** button to enter the submenu.
5. The current firmware version will display.
6. Press the **OK** button to confirm to exit this screen, and then press the **MENU** button to exit the settings menu and return to shooting.

6.0 Playback

To enter Playback mode, simply press the **PLAYBACK** button as shown in the figure below. In this mode, you can review all of the photos and videos captured.

Press the **LEFT** and **RIGHT** buttons to scroll through your photo and video files.



Video Playback Screen

To exit Playback mode and return back to shooting, press the **PLAYBACK** button again.

6.0.1 Photo Playback

To zoom into a photo, select a photo and press the **ZOOM T** and **W** lever to zoom in and out.

To delete a file, press the **DELETE** button. Select 'OK' and press the **OK** button to confirm.

6.0.2 Video Playback

Select a video and press the **OK** button to start or stop playback.

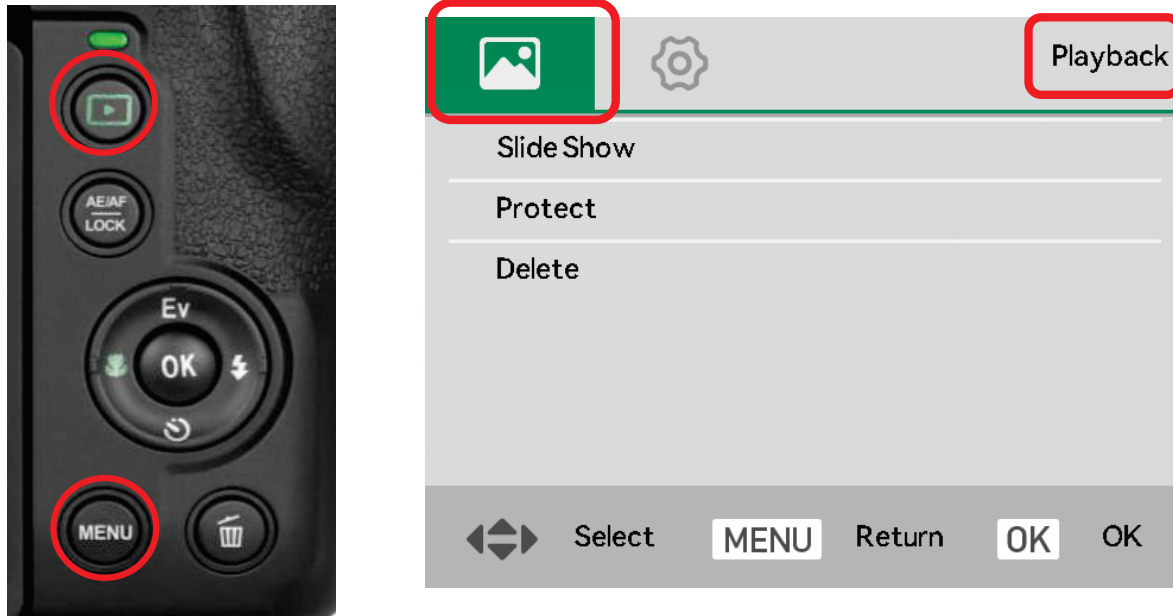
During playback, use the **LEFT** and **RIGHT** buttons to rewind or forward the playback. Use the **UP** and **DOWN** buttons to increase or decrease the playback audio volume.

To delete a file, press the **DELETE** button. Select 'OK' and press the **OK** button to confirm.



6.1 Playback Menu Settings

Various playback settings can be accessed in the Playback Menu. To access this menu, press the **PLAYBACK** button and then press the **MENU** button.



6.1.1 Slide Show

This menu sets the duration of a playback slide show.

1. To access this menu, press the **PLAYBACK** button and then press the **MENU** button.
2. Press the **UP** and **DOWN** buttons to navigate.
3. Select '*Slide Show*' and press the **OK** button to enter the submenu.
4. Use **UP**, **DOWN**, **LEFT** and **RIGHT** buttons to navigate and adjust any desired settings.
5. Highlight '*Start*' and press the **OK** button to begin a slide show playback, or highlight '*Cancel*' to exit and return to the previous menu.

Once the slide show begins, press the **OK** button to stop and return to the previous menu.

6. Press the **MENU** button to exit the settings menu and return to playback.

6.1.2 Protect

This menu allows you to protect your files from accidental deletion.

NOTE: This will not protect stored files from a Format.

1. To access this menu, press the **PLAYBACK** button and then press the **MENU** button.
2. Press the **UP** and **DOWN** buttons to navigate.
3. Select '*Protect*' and press the **OK** button to enter the submenu.
4. You may select from *Lock*, *Unlock*, *Lock All*, and *Unlock All*. 'Lock' and 'Unlock' will only lock the current photo selected prior to entering this menu.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to playback.

6.1.3 Delete

This menu allows you to delete a single file or all files.

1. To access this menu, press the **PLAYBACK** button and then press the **MENU** button.
2. Press the **UP** and **DOWN** buttons to navigate.
3. Select '*Delete*' and press the **OK** button to enter the submenu.
4. You may select from *Delete Current* and *Delete All*. 'Delete Current' will only delete the current photo selected prior to entering this menu.
5. Highlight your selection and press the **OK** button to confirm.
6. Press the **MENU** button to exit the settings menu and return to playback.

7.0 Technical Specifications

Model Number	Minolta MNB10Z
Lens	Auto Focus • f=4.9mm~49.0mm • F/2.8~F/3.1 • 55mm Front Threading for Accessory Attachments
Zoom	10X Optical Zoom • 2x Digital Zoom
Image Sensor	8MP Sony CMOS Sensor
Shutter	Electronic • Digital Image Stabilization
Pixels (photo)	JPEG: 64 Mega Pixels • 32 Mega Pixels • 16 Mega Pixels • 8 Mega Pixels
Pixels (video)	MP4: 4K (24FPS) • 2K (30FPS) • 1080P (30FPS) • 1080P (60FPS) • 720P (60FPS)
ISO Sensitivity	Auto • 100 • 200 • 400 • 800 • 1600 • 3200
LCD Monitor	3.0" Articulating IPS LCD 180° Variable Angle
Assistive Light	Flash Strobe Pop-up (Manual)
Power Saving	OFF • 1 Minute • 3 Minutes • 5 Minutes
White Balance Control	Auto • Daylight • Cloudy • Tungsten • Fluorescent
Special Features	P/S/A/M Mode Dial • Intelligent Scene • Color Filters • 10 Scene Modes • Burst/Continuous Photo • Time-Lapse • Face Detection • Macro • Manual Focus
Color Effects	Standard • Color Enhancement (Red) • Color Enhancement (Green) • Color Enhancement (Blue) • Color Enhancement (Orange) • Color Enhancement (Yellow) • Color Enhancement (Purple) • Sepia • Monochrome • Pen • Vivid
Recording Media	SD • SDXC; Maximum: 256GB
Wireless	Wi-Fi 802.11 b/g/n
I/O Ports	USB-C • HDMI-D • Microphone (built-in) • Microphone (3.5mm) • Speaker (built-in) • Shutter Remote Input • Accessory Shoe Mount
Power	Lithium-Ion 3.7V, 2000mAh (NP-120)
Dimensions	4.9 x 4.8 x 3.8 in. • 25.2 oz.



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