



ProShot MN40Z



User Manual

BEFORE YOU START

Declaration of Conformity

Responsible Party: Elite Brands Inc.

Address: 40 Wall St, Flr 61, New York, NY 10005 USA

Company Website: www.elitebrands.com ; www.minoltadigital.com

For Customers in the U.S.A.

Federal Communication Commission Interference Statement

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.

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 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.

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This product complies with the FCC portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. Additional RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

About this Manual

Thank you for purchasing this MINOLTA MN40Z Digital Camera. Please read this manual carefully and keep it in a safe place for future reference.

- Elite Brands Inc. reserves all rights of this document. No part of this published manual may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form, by any means, without the prior written permission of Elite Brands Inc.
- All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners and holders.
- This manual provides you with instructions on how to use your new MINOLTA MN40Z Digital Camera. Every effort has been made to ensure that the contents of this manual are accurate; however Elite Brands Inc. reserves the right to make changes without notice.
- Throughout this manual, the following symbols are used to help you locate information quickly and easily:



Indicates useful information.

- The following symbols may be used throughout this manual to facilitate your understanding of how to operate the camera:
[Item properties]:The optional properties in the camera interface are indicated by the [] symbol.

SAFETY NOTES

Safety Notes for this Camera

- Do not drop the camera or allow it to hit solid objects.
- Do not attempt to disassemble or repair the camera.
- Do not use or store the camera in dusty places or on a beach to help prevent dust or sand from entering the camera, causing possible damage.
- Do not use or store the camera in a hot environment or in direct sunlight.
- Do not use or store the camera near powerful magnetic fields, such as a magnet or transformer.
- Avoid touching the lens of the camera.
- Do not expose the camera to direct sunlight for a long period of time.
- To prevent the camera from being damaged by moisture, do not use or store the camera in very humid environments, such as in rain or near bodies of water.
- If water accidentally comes in contact with the camera, turn the camera off immediately, remove the battery and the memory card and dry it completely within 24 hours.
- When you take the camera from a cold environment to a warmer environment, condensation may occur. Please wait for a reasonable period of time before you turn the camera on.
- Before you remove the battery and memory card, the camera should be turned off.
- When you clean the body of the camera, do not use abrasive, alcohol-based or organic cleansers or solvents.
- Use a professional lens cleaning cloth and appropriate cleaner to wipe and clean the lens.

- Download your photos and remove the memory card when you are going to store the camera for long periods of time.
- If this camera is not in use for a long period of time, please keep it in a dry and clean storage location.
- Our company will not pay compensation for any failure of playback including: pictures or videos damaged or unrecoverable by improper operation.

Safety Notes for Battery

- If battery fluid leaks inside the camera, contact our customer service department immediately. If battery fluid leaks onto your skin, rinse your skin immediately with clean water and seek immediate medical attention.
- Disposal of used batteries should be carried out in accordance with your local (national or regional) regulations.
- To prevent the battery from being damaged, do not drop the battery or allow it to hit solid objects or to be scratched by foreign objects.
- Do not let the battery come in contact with metal objects (including coins) to avoid short circuiting, discharging, excessive heat or possible leakage.
- Do not attempt to disassemble the battery.
- Do not expose the battery to water. Always keep the battery contacts dry.
- Do not heat the battery or throw it into a fire to avoid a possible explosion.
- Do not store the battery in a hot environment or in direct sunlight.
- When the camera is stored for a long period of time, remove the battery and keep it in a safe, dry place that is not accessible to infants and children.
- In colder environments, the performance of the battery could be noticeably reduced.

- When you install the battery, align the battery markings according to the positive and negative markings inside the camera battery compartment. Never force the battery into the battery compartment.

Safety Notes for SD Memory Card

- We highly suggest buying only well-known, name brand memory cards to ensure peak performance and reliability.
- Format the memory card using the camera before you use it or insert a new one.
- Do not drop the memory card or allow it to hit solid objects to avoid damaging it.
- Do not attempt to disassemble or repair the memory card.
- Do not expose the memory card to water. Always keep it dry.
- Do not remove the memory card when the camera is turned on. Otherwise, the memory card and photo/video files could be permanently damaged.
- Do not directly edit the data on the memory card. Copy the data to your computer before you edit files.
- When the camera is stored for long periods of time, be sure to download your photos and remove the memory card. Store the memory card in a dry environment.
- Do not modify the name of the files or folders of the memory card using your computer. Modifying the file names may cause the files to not be recognized on the camera or a possible permanent error may occur.
- A photo taken with the camera will be stored in the folder that is automatically generated on the memory card. Do not store photos that are not taken using this camera in these folders as the pictures cannot be recognized during playback.
- When you insert the memory card, make sure the notch of the card matches the markings on the top of the camera card slot.

Other Safety Notes

- Do not disconnect the power or turn the camera off during the update process. Doing so may cause incorrect data to be written and the camera may not power on later.
- Do not hang the neck strap of the camera around the neck of a child.
- When using your camera on an airplane, observe the relevant rules specified by the airline and FAA regulations.
- Due to the limitations of manufacturing technology, the LCD may have a few dead or bright pixels. These pixels do no effect the quality or performance of the camera, photos or video.
- Do not expose the camera's LCD to water. In a humid environment, only wipe it with a soft, dry, cleaning cloth.
- If the LCD is damaged and the liquid crystal comes into contact with your skin, wipe your skin with a dry cloth immediately and rinse it with clean water. If liquid crystal comes into contact with your eyes, wash them with clean water at least for 15 minutes and seek immediate medical attention. If you accidentally swallow liquid crystal, rinse your mouth immediately and seek medical attention.

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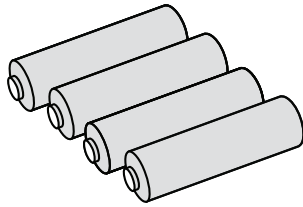
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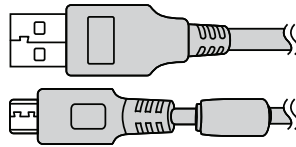
GETTING READY

Accessories Included

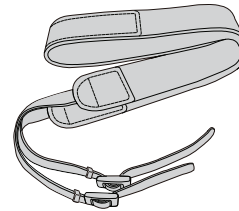
Your camera box should contain the camera model you purchased along with the following accessories. If anything is missing or appears to be damaged, please contact your retailer first or our customer service center.



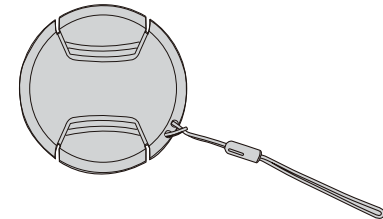
AA Alkaline Battery x4



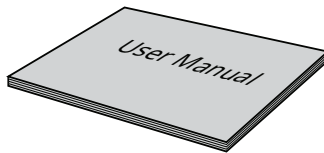
Micro USB Cable



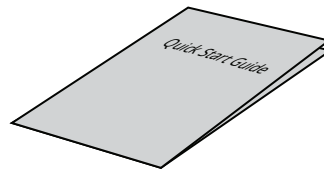
Neck Strap



Lens Cap With Strap



User Manual



Quick Start Guide

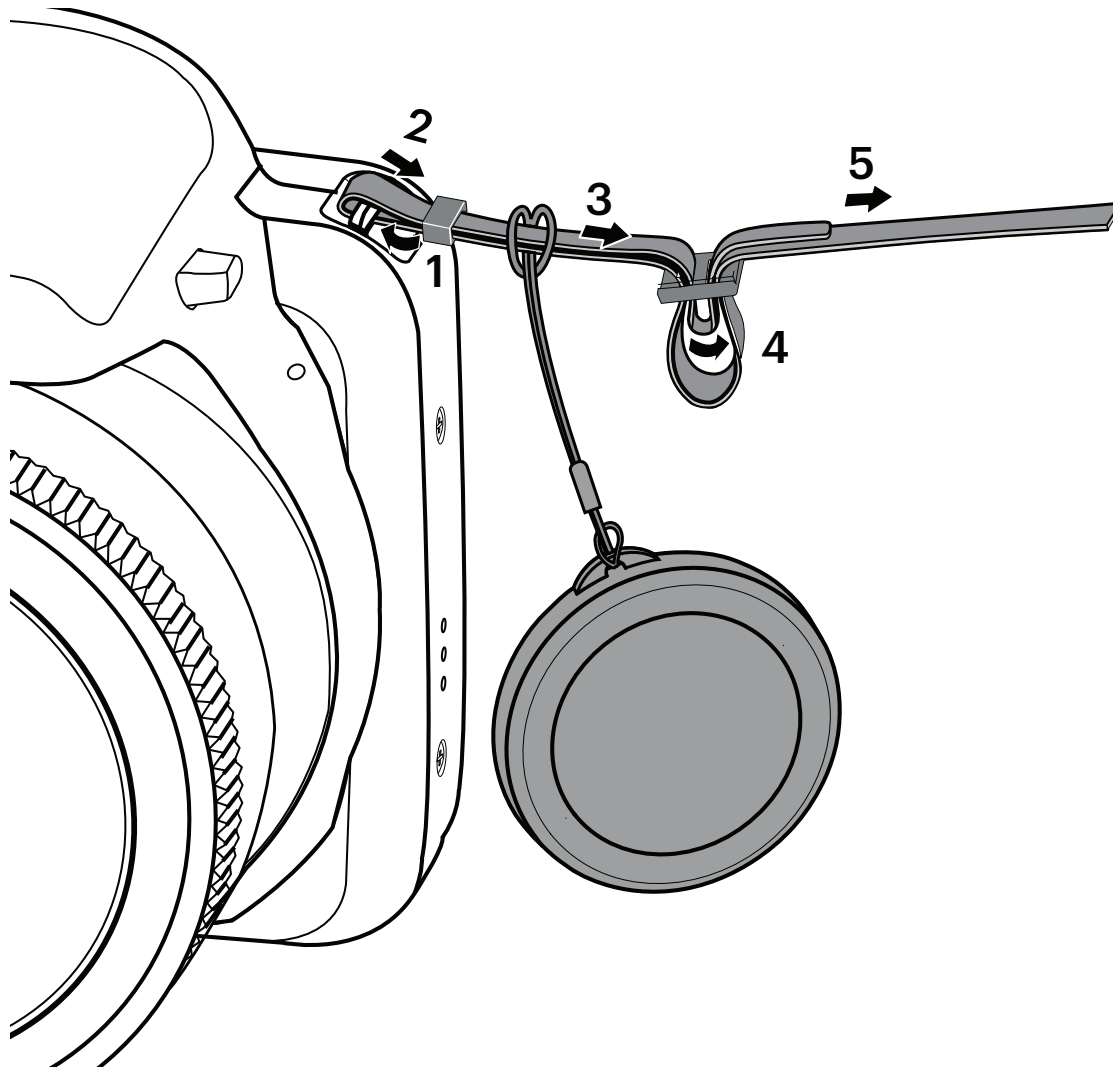


Warranty Card

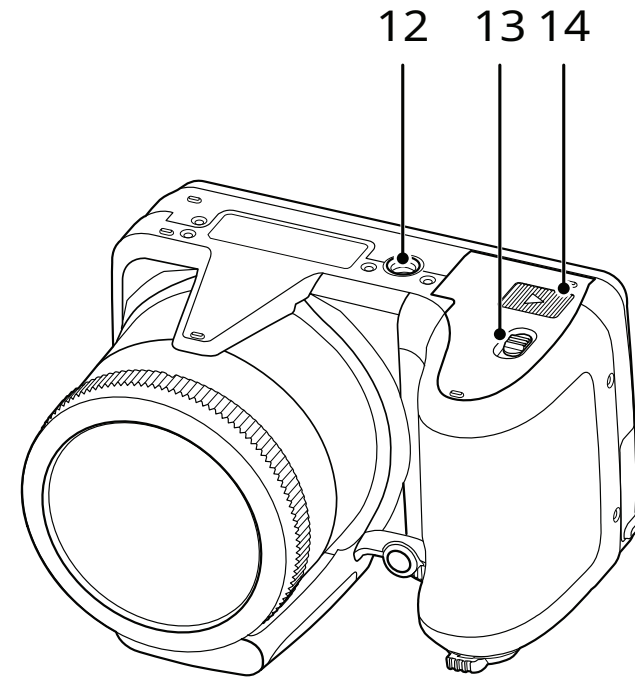
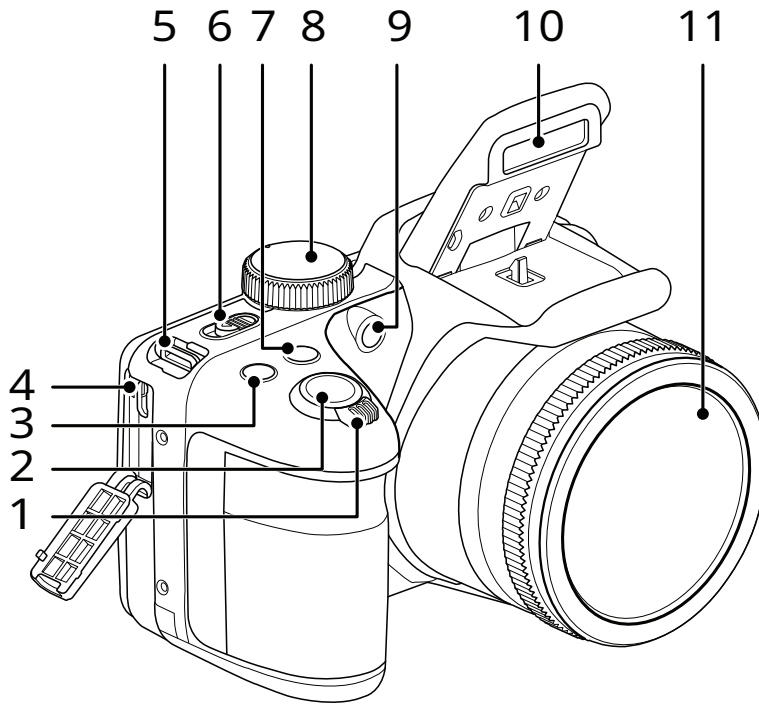


Pouch

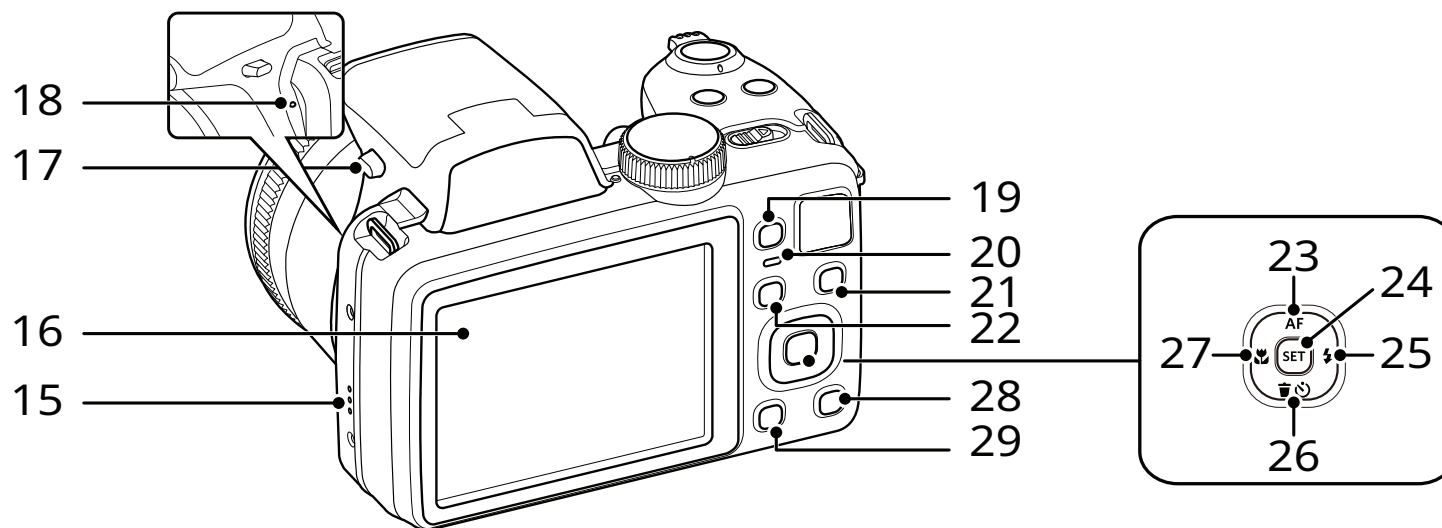
Installing Lens Cap and Neck Strap



Part Names



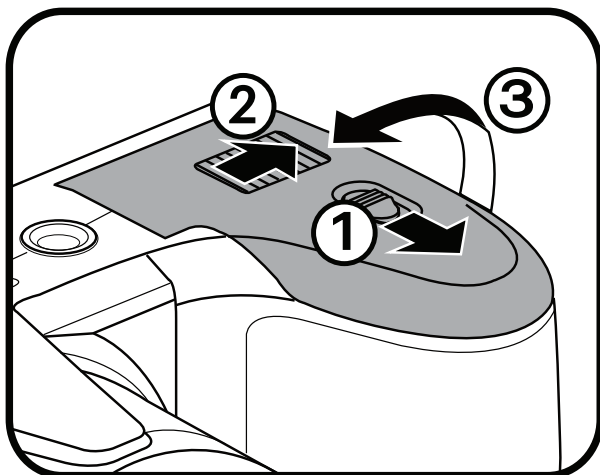
1	Zoom Lever	5	Strap Eyelet	10	Flash Lamp
2	Shutter Button	6	Power Switch	11	Lens
3	 Exposure Compensation Button	7	 Continuous Shot Button	12	Tripod Socket
		8	Mode Dial	13	Battery Cover Lock
		9	AF Assist Beam / Self-timer Lamp	14	Battery Door Cover
4	Micro USB Port				



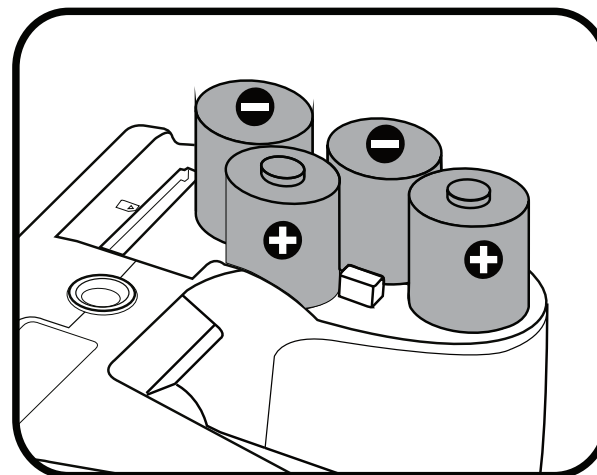
15	Speaker	21	Menu Button	26	[] Delete Button / Self-timer Button / Arrow Button (Down)
16	LCD	22	"T" Button	27	[] Macro Button / Arrow Button (Left)
17	Flash Button	23	[AF] AF Button / Arrow Button (Up)		
18	Microphone	24	SET Button		
19	Fast Video Recording Button	25	[] Flash Button / Arrow Button (Right)	28	Display Button
20	Indicator Lamp			29	Playback Button

Installing AA Batteries and SD Memory Card

1. Open the battery cover door.



2. Insert 4 AA batteries into the battery slot in the correct direction as shown in the following diagram:



Please use brand name batteries (such as Energizer®, Duracell® or equivalent) for optimal performance. Do not mix new and old batteries or use different brands of batteries. When replacing batteries, please replace all 4 batteries at the same time.

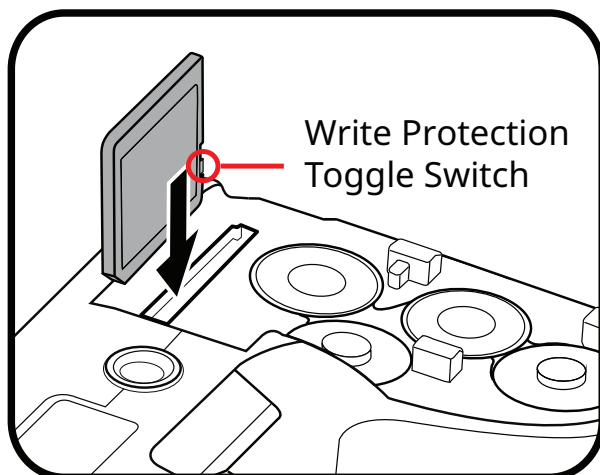


The performance and life expectancy of alkaline batteries will vary depending on the brand.

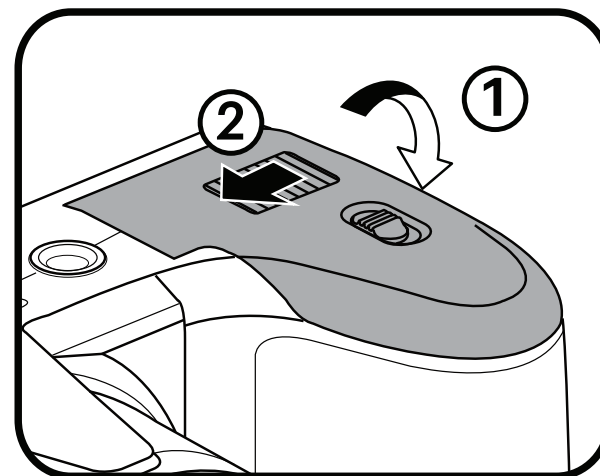


Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, i-mh, etc.) batteries.

3. Insert the memory card into the memory card slot as shown in the diagram:



4. Close the battery cover door.

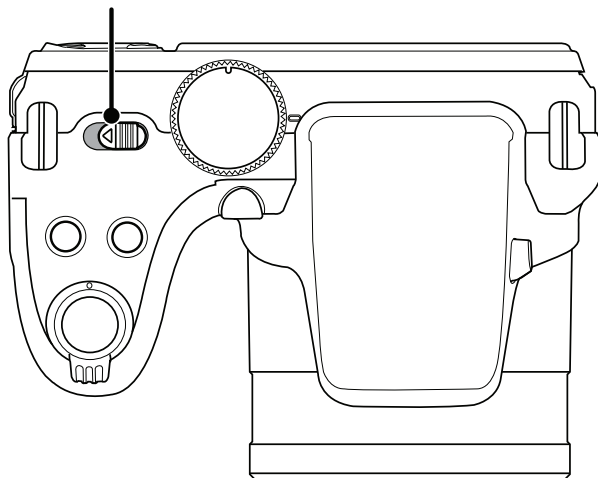


-  A memory card (SD / SDHC / SDXC) is necessary to store photos and videos and not included in all camera packaging. It needs to be purchased separately. Please use a memory card which is Class 10 or higher and has a capacity of 4GB to 512GB.
-  To remove your memory card, open the battery cover door, gently press the memory card to eject it and remove it carefully.

Turning Camera On and Off

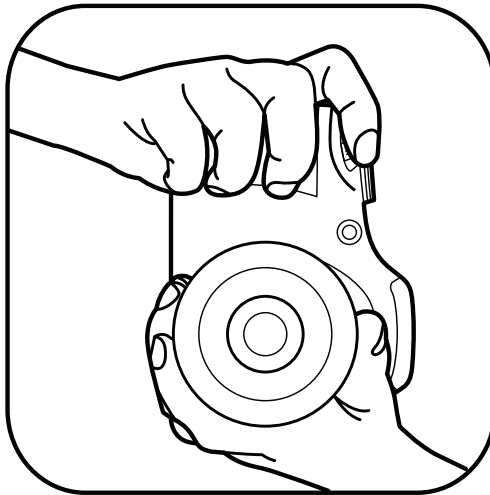
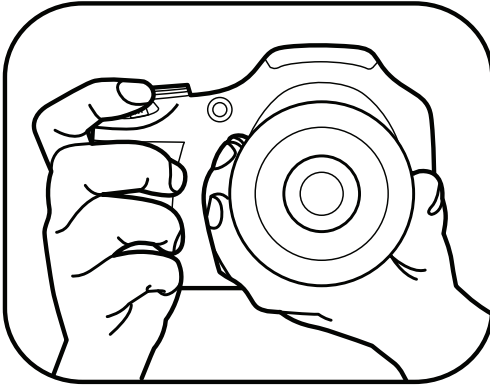
Slide the Power Switch to turn the camera on/off.

Power Switch



When the power is off, press and hold the playback  button to power on and enter Playback mode.

How to Take Pictures

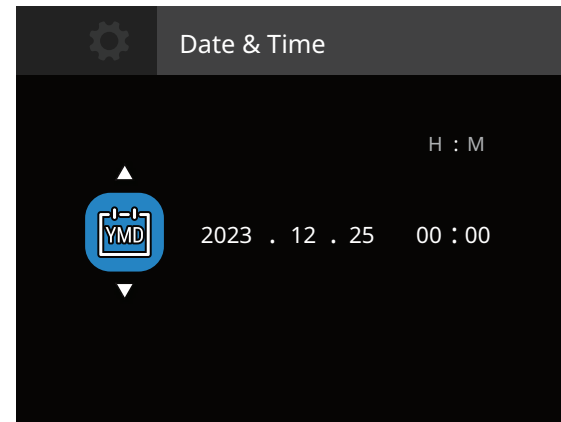


1. Hold the camera with both hands, being careful to not block the flash and lens with fingers.
2. Point the lens toward the object you want to take a picture of, and then frame it with the LCD.
3. Use the Zoom Lever to select Tele or Wide positions to zoom in or out on your subject.
4. Press the Shutter Button halfway to focus on the subject. When the focus frame turns green, press the Shutter Button down completely to take the picture.

Set your Language, Date/Time

Set your Language, Date/Time after the First Power-On

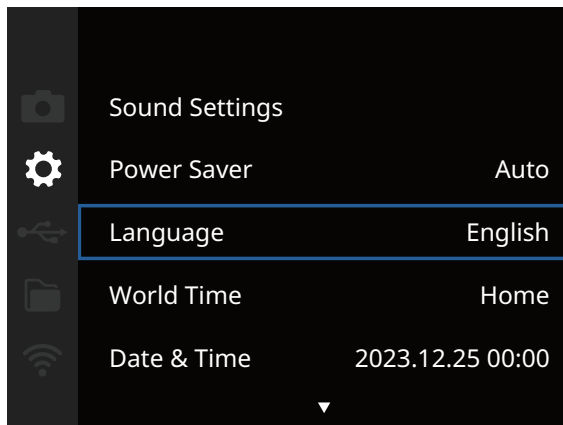
1. When you turn the camera on for the first time, the language selection screen appears.
2. Press the [▲ AF] / [▼ 🗑️ 🕒] / [▲ AF] / [▼ 🗑️ 🕒] buttons to select your desired language.
3. After you press the (SET) button to confirm your language selection, the Date/Time settings screen will appear.
4. Press the [⏪ 🌸] / [⏩ ⚡] button to select the Date/Time to be adjusted: Time is displayed in YYYY.MM.DD/HH:MM.
5. Press the [▲ AF] / [▼ 🗑️ 🕒] button to adjust the value for the desired Date/Time.
6. Press the (SET) button to confirm the time settings and the shooting screen will appear.



Resetting your Language

After you set your language for the first time, follow the instructions below to reset your language.

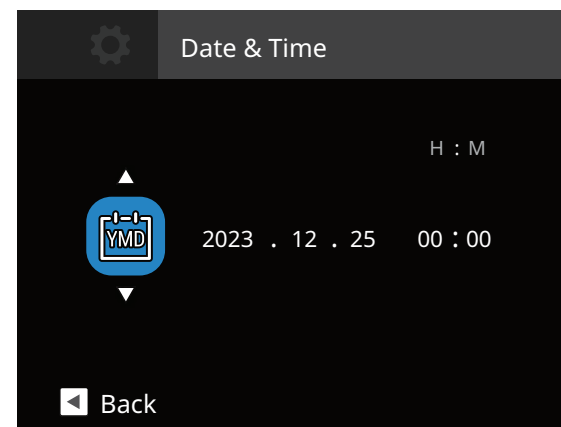
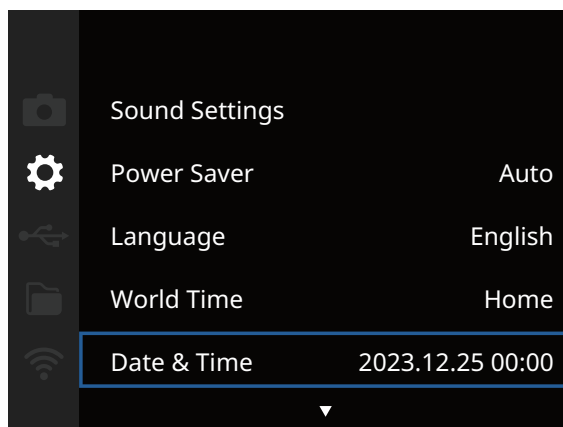
1. Press the  button, press the [▲ AF] / [▼  ] buttons to select  and press the  button to enter the menu.
2. Press the [▲ AF] / [▼  ] buttons to select  and press the  / [► ] button to confirm.
3. Press the [▲ AF] / [▼  ] buttons to select [Language] and press the  / [► ] button to enter the menu.
4. Press the [▲ AF] / [▼  ] / [▲ AF] / [▼  ] buttons to select your desired language and press the  button to confirm.
5. Press the  button and the shooting screen will appear.



Resetting Date/Time

After you set your Date/Time for the first time, follow the instructions below to reset date and time.

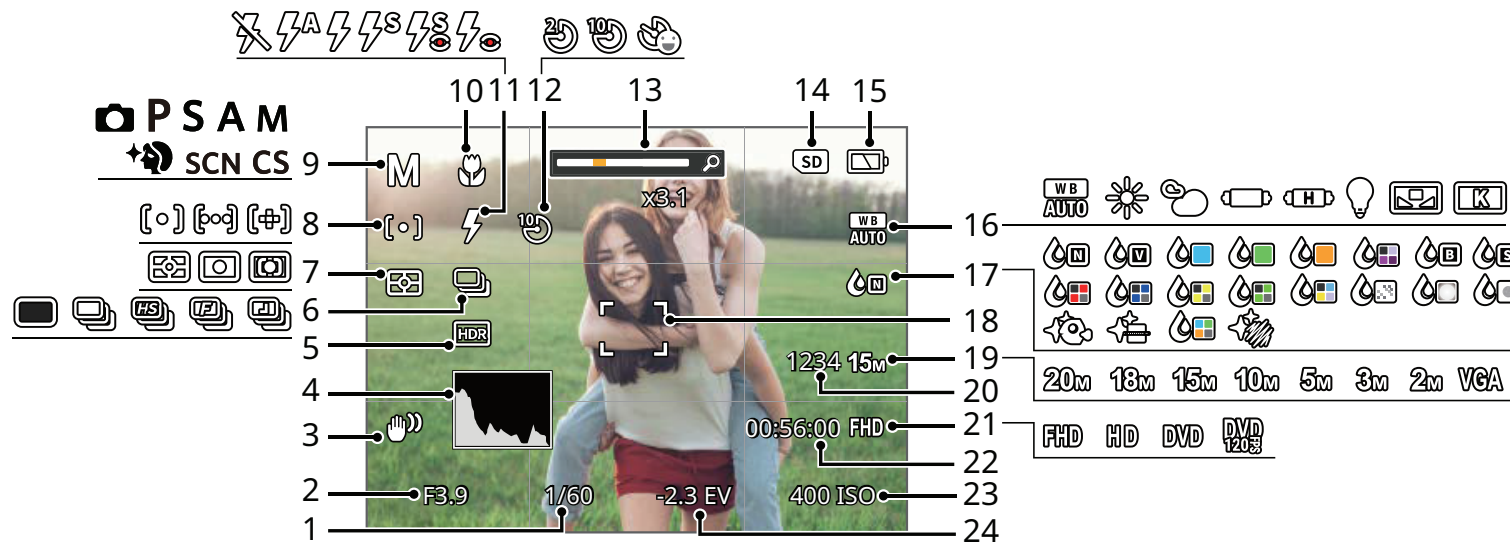
1. Press the  button, press the [▲ AF] / [▼ ⏻ ⏸] buttons to select , and press the  button to enter the menu.
2. Press the [▲ AF] / [▼ ⏻ ⏸] buttons to select  and press the  / [► ⚡] button to confirm.
3. Press the [▲ AF] / [▼ ⏻ ⏸] buttons to select [Date & Time] and press the  / [► ⚡] button to enter the menu.
4. Press the [◀ ⚡] / [► ⚡] button to select the Date/Time to be adjusted: Time is displayed in YYYY.MM.DD/HH:MM.
5. Press the [▲ AF] / [▼ ⏻ ⏸] button to press the value for your selected entry. After you finish your settings, press the  button to confirm.
6. Press the  button and the shooting screen will appear.



MODE OVERVIEW

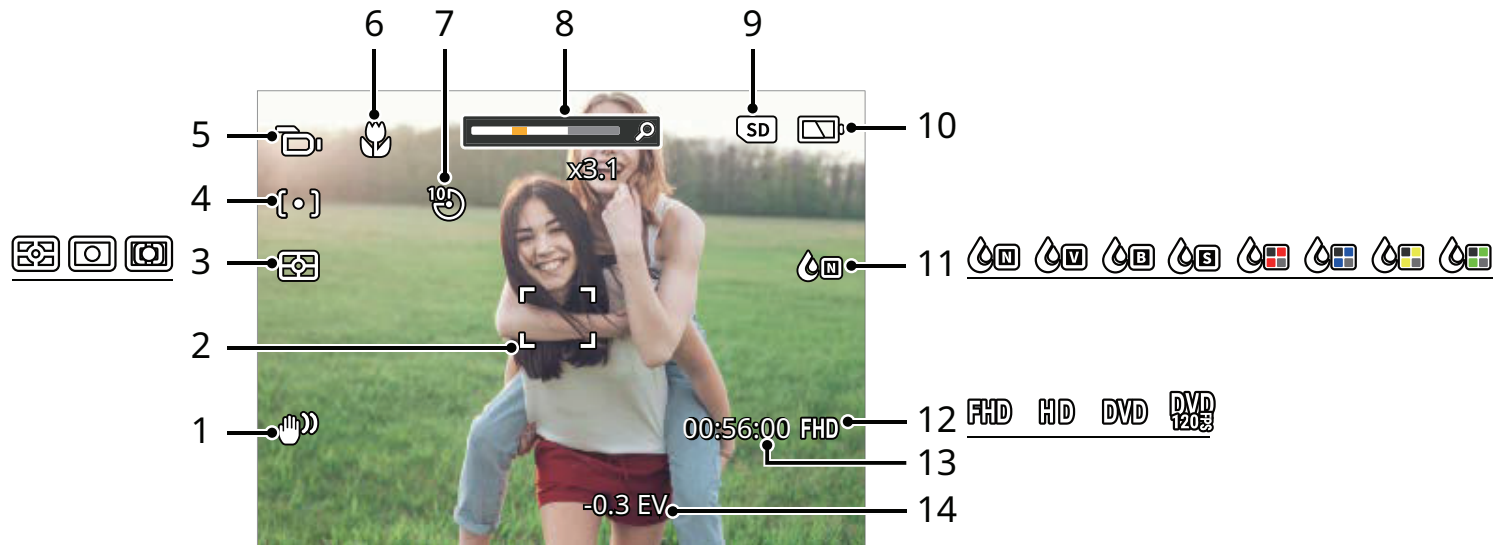
LCD Display

Overview of the Screen Icons in Shooting Mode



1	Shutter Speed	9	Shooting Mode	15	Battery Status	21	Video Quality
2	Aperture Value	10	Macro Mode	16	White Balance	22	Maximum Record Time
3	OIS	11	Flash Mode	17	Color Effect		
4	Histogram	12	Self-timer	18	Focus Frame	23	ISO Value
5	HDR	13	Zoom Display (By turning the Zoom Lever)	19	Image Size	24	Exposure Compensation Value
6	Continuous Shot			20	Number of Remaining Shots		
7	Expo Metering	14	Memory Card / Built-In Memory				
8	AF Mode						

Overview of the Screen Icons in Movie Mode



1	OIS	7	Self-timer	11	Color Effect
2	Focus Frame	8	Zoom Display (By turning the Zoom Lever)	12	Video Quality
3	Expo Metering			13	Maximum Record Time
4	Single-AF	9	Memory Card / Built-In Memory	14	Exposure Compensation Value
5	Movie Mode				
6	Macro Mode	10	Battery Status		

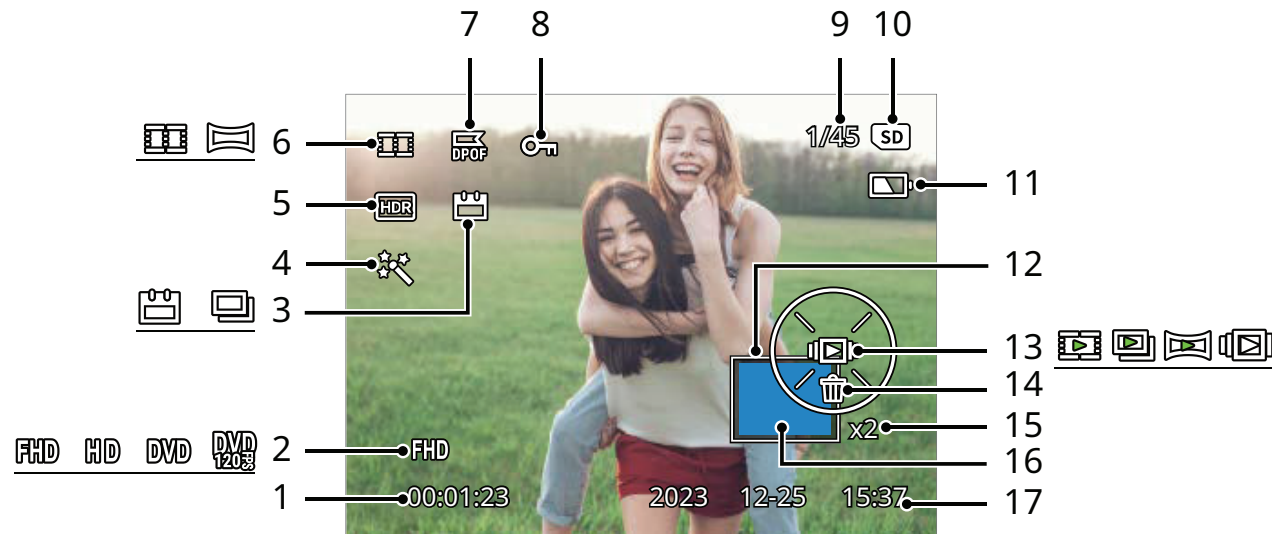


For optimal video recording and more than a couple of test photos, it is recommended that an SDHC or SDXC memory card be used.



Optical Zoom and Digital Zoom can be adjusted (160X in total). Digital Zoom can be adjusted to 4X.

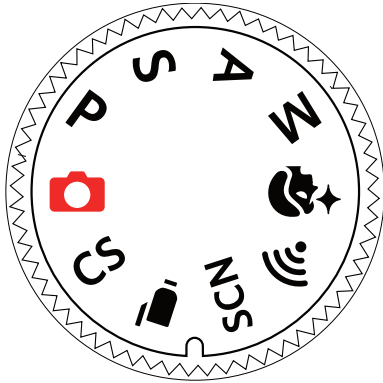
Overview of the Screen Icons in Playback Mode



1	Record Time	7	DPOF File Icon	12	Image Zone
2	Video Quality	8	File Protection Icon	13	Playback Type
3	Display Mode	9	Memory Space (indicating the current number of photos and total number of photos)	14	Deletion
4	Touch-up			15	Image Zoom Ratio
5	HDR			16	Zoom Magnification Area
6	Movies / Animated panoramas	10	Memory Card / Built-In Memory	17	Capture Date
		11	Battery Status		

Using the Mode Dial

This camera provides a convenient Mode Dial that allows you to manually switch between different modes with ease.



Auto Mode

In this mode, the optimal conditions for taking pictures will be set based on the subject and environment. It is the most commonly used mode for taking pictures.

Program AE **P**

Under different scenes, the user can switch the ISO and EV value according to personal preference, the camera can automatically set the shutter speed and aperture value.

Shutter priority **S**

Setting allows you to adjust the shutter speed / EV value and ISO value. The camera automatically sets the aperture value based on the shutter speed and ISO value to get the most appropriate exposure value.

Aperture priority **A**

In this mode, you can adjust the aperture size, EV and ISO values. The large aperture is to highlight the object focused through blurring the background, while the small aperture is for clear focus on both the background and the object.

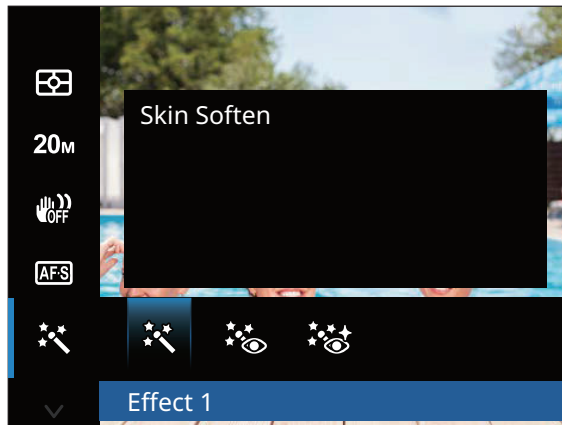
Manual Mode **M**

This mode is for manually setting the aperture, shutter speed and ISO value.

Face Beautifier ✨👤

This mode automatically enhances facial features with skin softening touches and eye brightening capabilities.

1. Turn the Mode Dial to select Face Beautifier Mode (✨👤).
2. Press the  button and press the [▲ AF] / [▼ 🗑️ 😊] button to select ✨👤.
3. Press the [⬅️ 🌸] / [➡️ ⚡] button to select an option and press the  button to confirm and enter the shooting screen.



- ✨👤 Effect 1: Skin Soften
- ✨👤👁️ Effect 2: Skin Soften+Eye Brightening
- ✨👤👁️👁️ Effect 3: Skin Soften+Eye Brightening+Eye Enlargement

Wireless Mode

Enable image transmission and remote control by connecting smart device with wireless network.

Before utilizing Wireless Mode, please review the following:

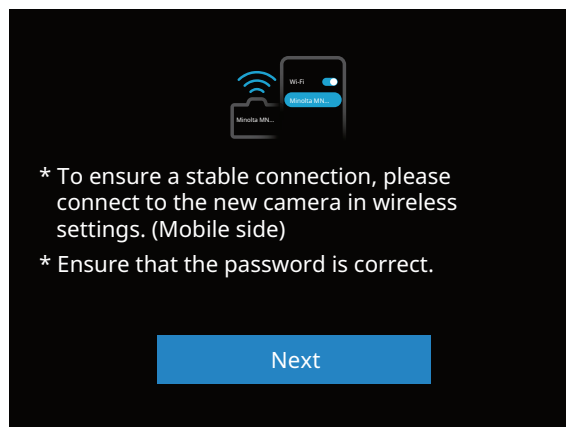
- Your smart device operating system version needs to be iOS 14 or higher, or ANDROID 8.0 or higher. If not, please upgrade your smart device before using the APP.
- Please do not use in places that have a high intensity magnetic field, electrostatic and electric wave interference (for example near a microwave oven), which may cause failure in receiving signals.
- To maintain a connection, please keep the camera within 10 meters (32.8 feet) without signal shielding interference.
- Please do not use wireless network connection functionality on a plane.
- The camera and the smart device can only be connected one to one.

Downloading the APP package:

Download a dedicated installation package from the application store (APP name: Minolta ProShot ) and then install it.

- ANDROID devices : Search and download the APP “Minolta ProShot”  in Google play, and install it following the instructions on the interface.
- iOS devices : Search and download the APP “Minolta ProShot”  in APP store, and install it following the instructions on the interface.

Rotate the Mode Dial to  and then enter the Wireless selection interface.



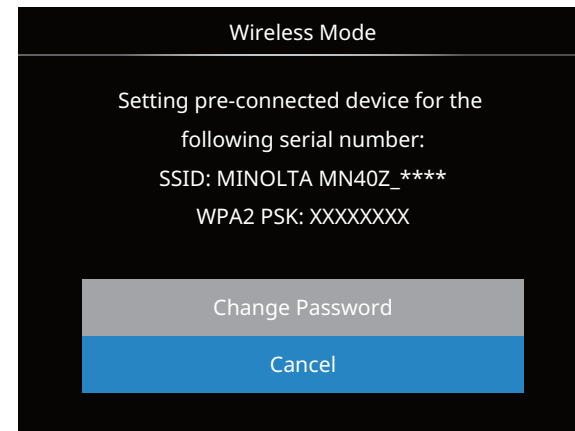
- Next: Enter the SSID interface.



Rotate the Mode Dial to disconnect.

Settings of Camera:

Press the [ **AF**] / [  ] button to select options to be adjusted and press the  button to enter the option setting interface.



- Change Password: Enter the WPA2 PSK password refresh interface.
Yes: Create a new WPA2 PSK password.
No: Back to previous page.
- Cancel: Back to previous page.



Every MN40Z camera is shipped with a default factory wireless network password that is randomized and unique to that camera and will not change unless you wish to reset the password with a new randomly generated password. If you wish to change the wireless network password in your MN40Z from the assigned, unique factory password, you can do so by selecting and using the Change Password setting. If “Yes” is selected, a new random password will be generated and saved in the camera until changed or if you use the “Reset” function. If you reset your MN40Z to the factory settings, then the initial, randomly factory assigned and unique wireless network password will be restored to your camera. (Please refer to Reset instructions on page 89).

Settings of Smart Device:

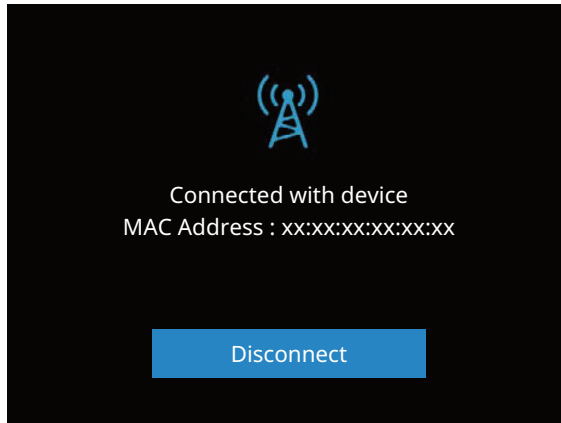
1. Enable the wireless network of smart device and then search surrounding wireless network devices.
2. Select the name of camera SSID to be connected and then input the eight-digit random password after WPA2-PSK on the camera.
3. Click the icon of the APP  to enable the APP.

Set up completion:

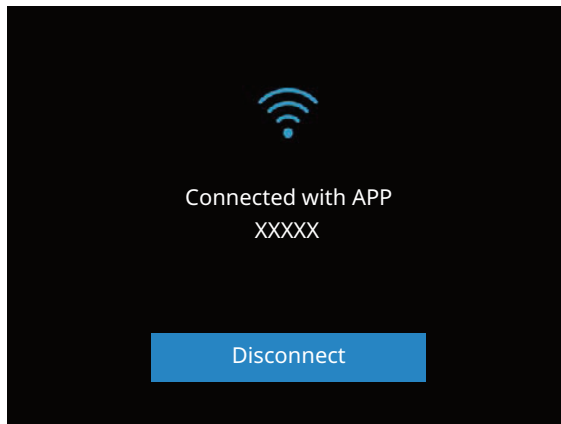
Once the APP is connected to the camera, functional operations can be enabled on the smart device.

Display of Wireless network Connection Status:

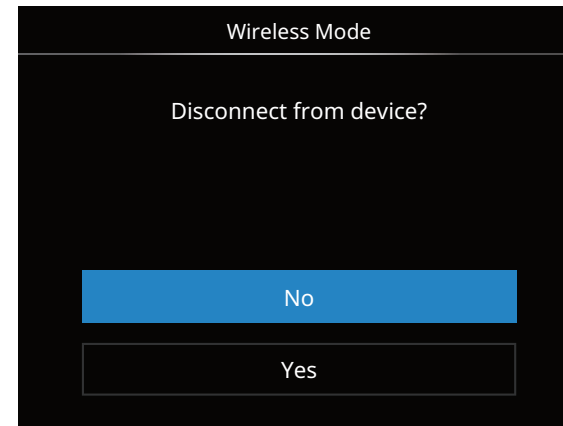
The wireless network has successfully connected but APP is not enabled.



The wireless network has successfully connected and APP is enabled.

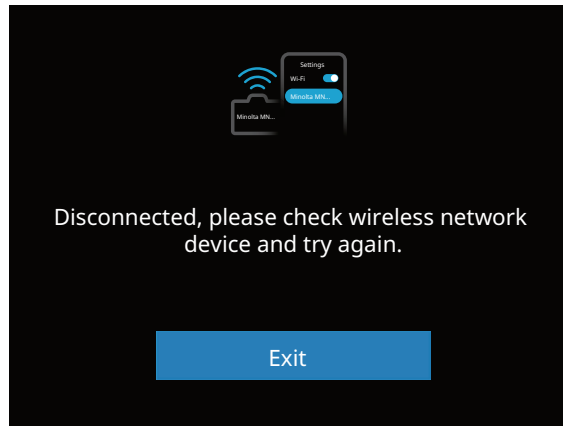


To disconnect from wireless network:



- No: Keep wireless network connected and back to previous page.
- Yes: Disconnect and back to wireless network connection screen.

Disconnected from smart device
wireless network:

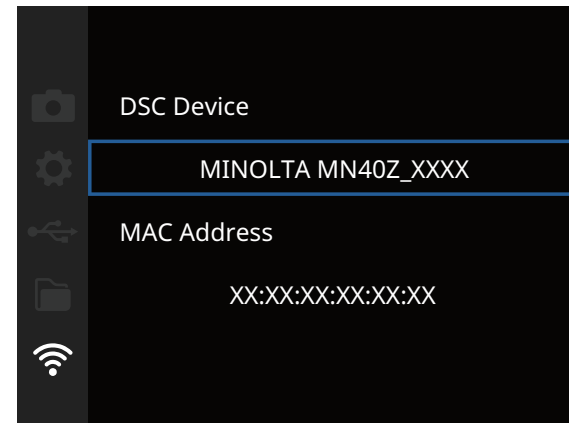


- Exit: Back to the SSID interface.

Setting

The name of this camera can be changed under wireless network settings.

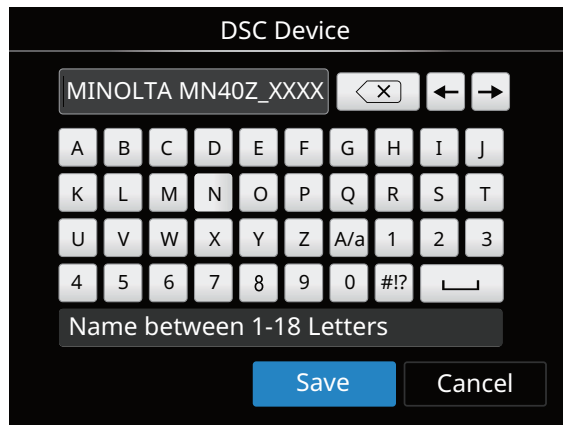
1. In other modes, press the  button, press the [ **AF**] / [  ] button to select . Press the  button to enter the menu.
2. Press the [ **AF**] / [  ] button to select . Press the [ ] /  button to enter the menu.



3. Press the [  ] button to enter Shoot Settings menu.
Press the [ ] /  button to enter DSC Device screen.

DSC Device

The default name of DSC device is [MINOLTA MN40Z_XXXX]. Change the name of DSC device through typing.



Meanings of Interface Icons:

Icon	Description
	Delete the last letter
	Switch the display of letters in capital and lowercase
	Move the Cursor
	Switch the symbol input
	Input Space

MAC Address

Check the wireless network MAC Address of this camera.

APP Operating Instructions

Refer to the "Minolta ProShot User Manual" located on the web:

Americas

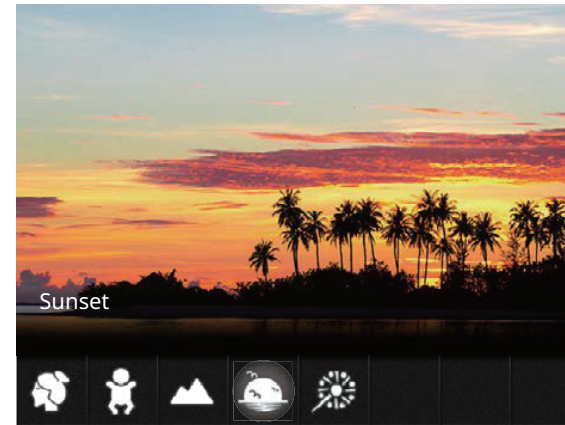


<https://www.minoltadigital.com/>

Scene Mode SCN

You can select an appropriate mode from the 13 scene modes according to the type of environment you are shooting in. The camera then automatically configures the most appropriate settings for the best possible photos.

1. Rotate the Mode Dial to **SCN** , press the [◀🌸] / [▶⚡] button to select a scene, and press the (SET) button to confirm.



2. If any need of changing the scene, please press the (⏏) button and then the (SET) button and finally the [◀🌸] / [▶⚡] button to reselect the scene.

Panorama Mode

This feature allows you to capture a panoramic view that will have significantly more content than a single photograph. Follow the arrow while keeping the camera steady to seamlessly shoot an ultra-wide scene of up to 360 degrees.

Follow the steps below:

1. Select the Panorama Mode () and then press the **(SET)** button to confirm.
2. Press the [ **AF**] / [  ] / [ ] / [ ] button to select a shooting direction. (Should you not select a direction, the default shooting direction is “right”.) 2 seconds later, the camera will be ready to take pictures. You can also press the **(SET)** button or press the Shutter Button halfway down to be ready to take pictures.
3. Compose your shot on the LCD and half press the Shutter Button to focus on the subject. After focusing, fully press the Shutter Button down to take the first picture. At this time, the process dialog of panorama mode stitching appears on the screen.



4. Pan the camera according to the set direction. When the range of motion does not exceed the range that the camera can detect, the progress bar behind the arrow partially turns blue. When it completely turns blue, panorama mode shooting is finished.



During panorama mode shooting, press the **(SET)** button to interrupt shooting and save the current pictures taken. Press the [  ] button to cancel shooting and not to save the previously taken pictures.



During panorama mode shooting, when the moving direction of the camera is wrong or the angle deviates from the internal settings, the LCD shows a warning message [Improper alignment. Please try again.] and the current pictures taken are saved.

📄 Panoramic image can be played back by the method of flash playing. Please see the animation panoramic playback on page 60.

📄 In Panorama Mode, the Flash, Self-timer, Macro Modes and Exposure Compensation are not available. Focus adjustment is also not available at this time.

Handheld Night 🖐️

Reduce blur when shooting low light/illuminated scenes.

Multi Exposure 🖼️

Suitable for shooting moving objects (as many as 7) in the same background.

📄 Keep camera steady before shooting. Press and hold the Shutter Button to take 7 photos continuously when it will stop automatically. To stop shooting, release the Shutter Button in the midway.

📄 Shooting effect will be influenced if object is moving too fast or too close.

📄 Objects shall be moved only from left to the right in order to be recorded. Objects moving from other directions would not be recorded.

Pet Mode 🐾

1. It defaults to enabling the auto shoot after entering the Pet Mode. When a face of cat or dog is detected, the camera will take photos automatically. Meanwhile, you also may press down the Shutter Button to shoot.
2. Press the [▼ 🗑️ ⏸] button to enter Auto Shoot menu. If this function is disabled, you may only take photos manually.



📄 At most, 10 cat /dog faces can be detected at one time.

Snow

For subjects in the snow. Reduce underexposure.

Party

For subjects at night without using a tripod. Capture sharp shots without blur.

Sport

For fast-moving subjects. Capture sharp action shots without blur.

Night Portrait

For portraits against night scenery. Use of a tripod or a flat surface to rest the camera on is recommended with this setting.

Portrait

Most suitable for capturing people, focusing on their face.

Children

For kids and pets. Flash is disabled for eye protection.

Landscape

Speed adjusted for brilliant images.

Sunset

For sunsets. Captures subjects in strong sunlight. Use of a tripod or a flat surface to rest the camera on is recommended with this setting.

Fireworks

For fireworks at night. Slow shutter speed adjusted for brilliant images. The use of a tripod is recommended with this setting.

Movie Mode

Switch to this mode to record videos.

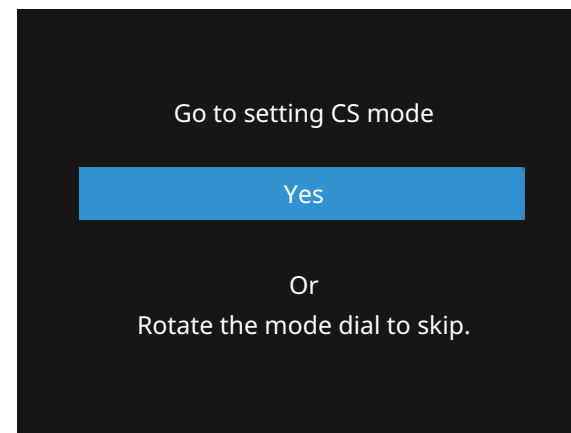
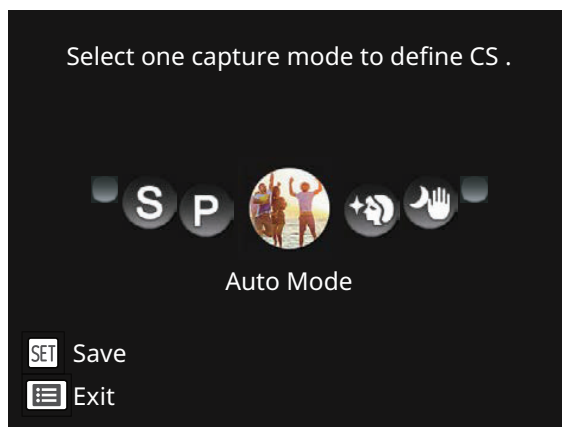
1. Press down the Shutter Button to start recording.
2. Once you are finished, press the Fast Video Recording Button  or the Shutter Button to stop recording and return to the shooting screen.

Custom Settings CS

The user can store frequently used shooting modes; and parameters and switch to this mode for a quick adjustment.

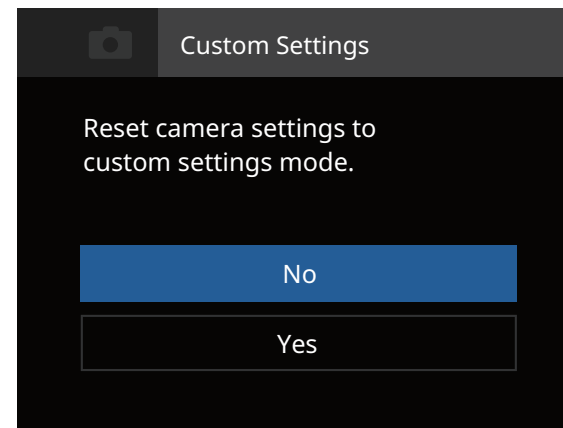
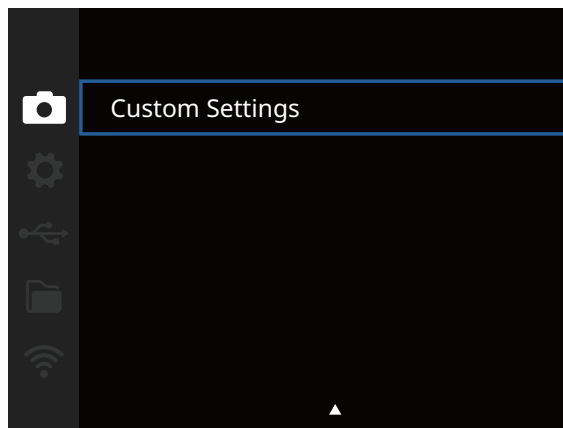
Settings under CS mode (unset state or state after reset):

1. Turn the Mode Dial to select the **CS** mode and enter the setup screen.
2. Press the [] / [] buttons to select a capture mode that you want to define as **CS**, and press the  button to enter the shooting screen.
3. Press the  button, and choose whether to continue the **CS** mode setting or rotate the Mode Dial to skip.



For setting under other modes (use this method to select a different custom setting):

1. Select any mode to be stored. Set your desired parameters in the current mode.
2. Press the  button, press the [ **AF**] / [  ] buttons to select , and press the  button to enter the menu.
3. Press the  / [ ] buttons and press the [  ] button select [Custom Settings] and press the  / [ ] buttons to enter the menu.
4. Select [Yes] to save or [No] to cancel.



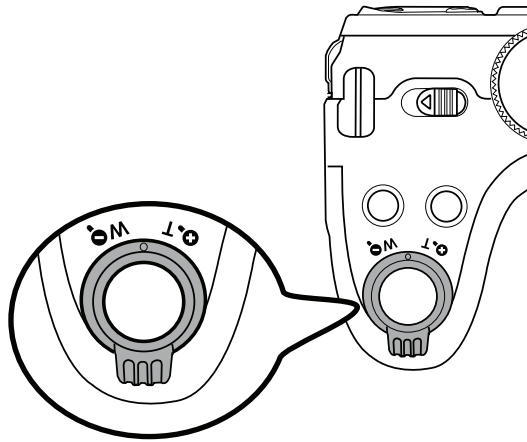
5. Turn the Mode Dial to switch to the Custom Settings (**CS**).
6. The photo settings you stored the last time are used.

-  When the **CS** mode is used for the first time, there is no preset parameter stored in the **CS** mode.
-  If you want to remove the parameter setting of [Custom Settings], please see the reset function on page 89 to operate.

BASIC OPERATION

Using the Zoom Function

Your camera is equipped with two types of zoom functions: Optical Zoom and Digital Zoom. Toggle the Zoom Lever of the camera to zoom in or out on the subject while taking pictures.



Zoom Lever



Zoom Indicator

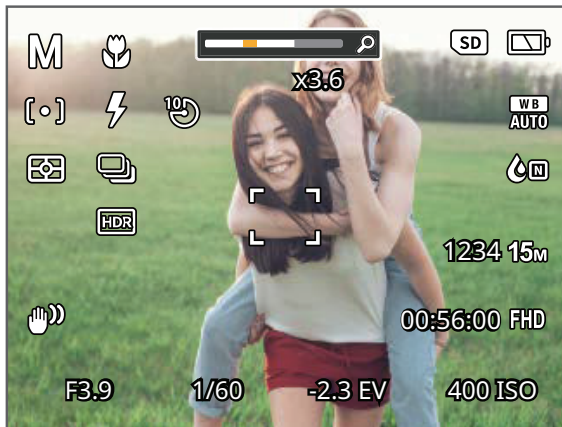
When the Optical Zoom reaches the threshold as Digital Zoom, release and turn the Zoom Lever to T to switch between the Optical Zoom and Digital Zoom.

Using the Display Button

Mode:  P S A M   SCN  CS

Press the  button to switch among 3 screens.

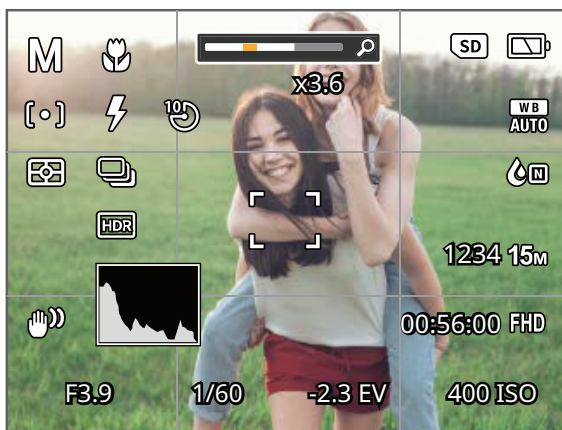
Function Message Display



No Message Display



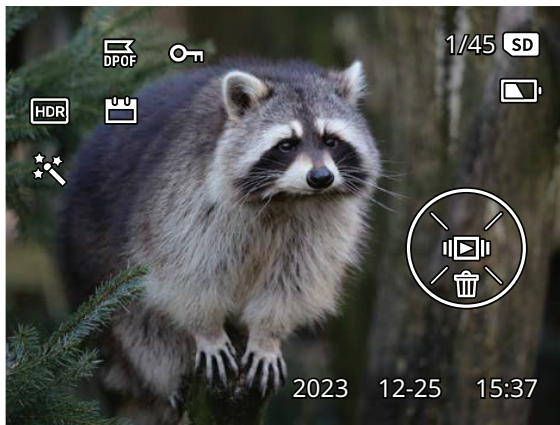
Display with Grid and Histogram



Mode: 

Press the  button to display the playback screen, press the  button to switch among 3 screens.

Function Message Display



No Message Display



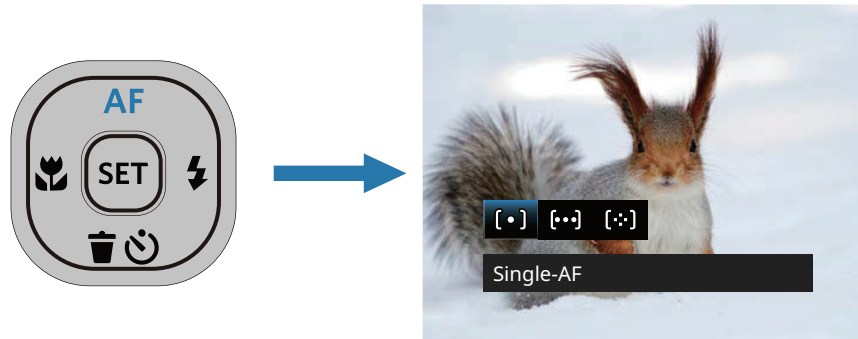
Detailed Message Display



Focus Setting

In different photo shooting modes, you can select different focus methods.

1. Press the [**▲ AF**] button to enter the Focus menu.



2. Press the [**◀** ] / [**▶** ] button to select the following 3 modes:

-  Single-AF
The focus frame appears on the center of the LCD to help you focus on the subject.
-  Multi-AF
The camera automatically focuses the subject in a wide area to find the focus point.
-  Object Tracking
Smart tracking of the object in motion under the focusing shooting.

3. Press the **(SET)** button to confirm the settings and enter the shooting screen.

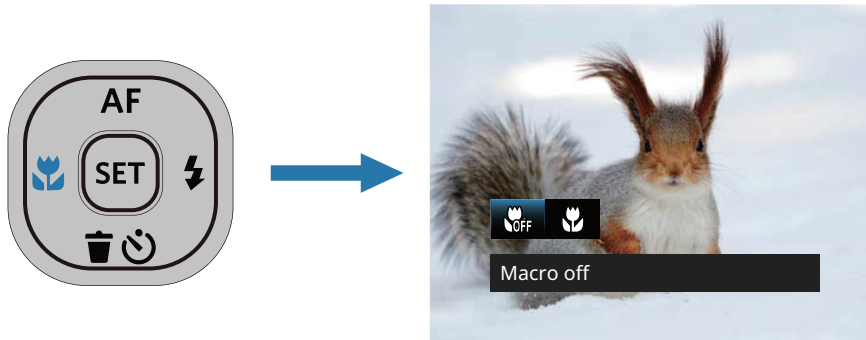
 Object Tracking cannot be enabled until the camera is focused. For tracking the focus, you need to keep the shutter semi-pressed.

 When  is enabled, Object Tracking function is not available.

Macro Mode

The Macro Setting is ideal for shooting small objects or close-up photos. This mode allows you to focus on subjects very close to the camera.

1. Press the [◀🌸] button to enter the Macro menu.



2. Press the [◀🌸] / [▶⚡] button to select the following 2 modes:

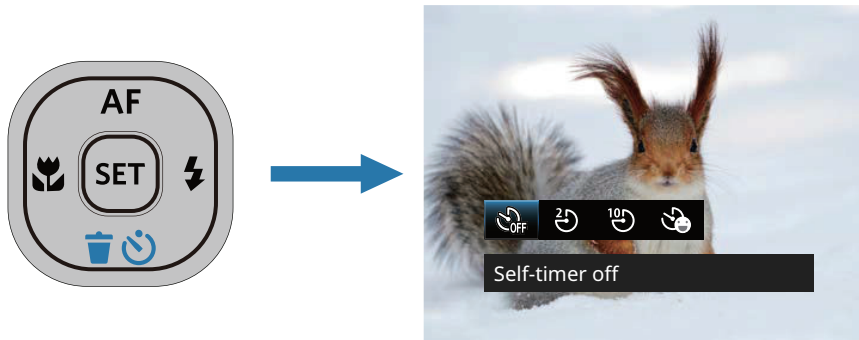
- 🌸 OFF Macro Off
Select this option to disable Macro.
- 🌸 Macro On
Select this option to focus on the object closer to the lens (At the W side, the shooting distance should be more than 1.6 cm).

3. Press the (SET) button to confirm the settings and enter the shooting screen.

Self-timer Mode

Using this function to take pictures at pre-set intervals. The camera can be set to shoot after 2 seconds, 10 seconds after pressing the shutter or when a smile is detected.

1. Press the [▼🗑️🕒] button to enter the Self-timer menu.



2. Press the [◀🌸] / [▶⚡] button to select the following 4 modes:

- 🕒 OFF Self-timer Off
Disables the Self-timer.
- 2s Self-timer 2sec
A single picture is shot 2 seconds after the Shutter Button is pressed.
- 10s Self-timer 10sec
A single picture is shot 10 seconds after the Shutter Button is pressed.
- 😊 Self-timer Smile
Press the Shutter Button and a picture will be taken immediately after a smile is detected.

3. Press the (SET) button to confirm the settings and enter the shooting screen.

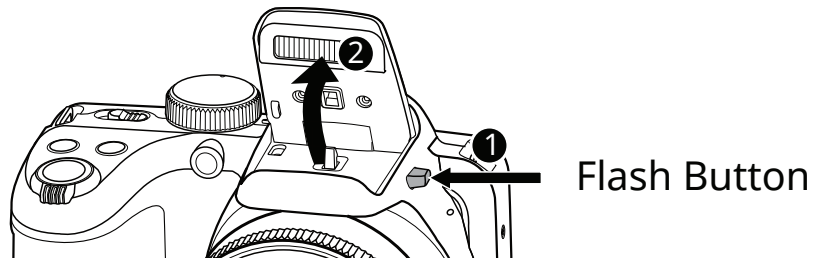
- 📝 Self-timer settings will remain after completion of shooting with the Self-timer.
They can be canceled by switching modes or by turning the camera off and then on again.

- When enabling the Self-timer, pressing the shutter or the [▼🗑️🕒] button can disable the Self-timer and return to the shooting screen while keeping the Self-timer setting.
- When enabling the Smile Detection, pressing the Shutter Button or the (SET) button can disable the Self-timer and return to the shooting screen while keeping the Self-timer Smile setting.

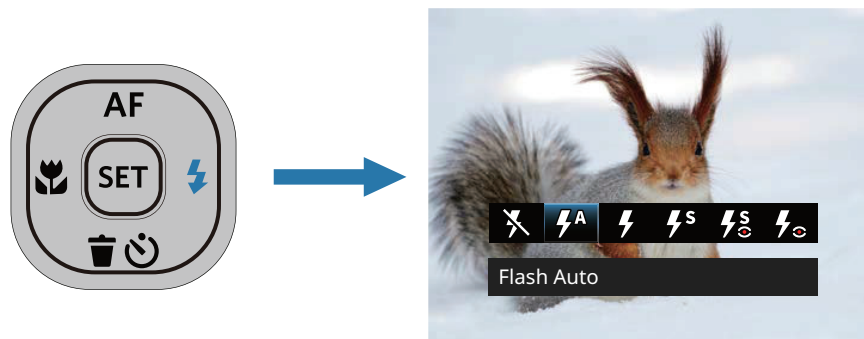
Flash Mode

The flash provides supplemental light for the scene. The flash is usually used when shooting against the light to highlight the object; it is also suitable for metering and shooting in darker scenes to improve the exposure.

1. Press the Flash Button to pop up the flash.



2. Press the [►⚡] button to enter the Flash menu.



3. Press the [] / [] buttons to select the following 6 modes:

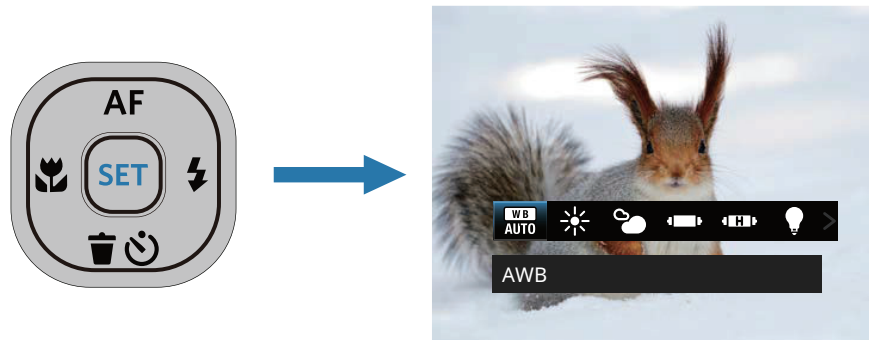
-  Force Off
Flash is turned off.
-  Flash Auto
Camera flash goes off automatically based on existing light conditions.
-  Fill Flash
The flash goes off when a picture is taken, supplementing the existing light in a scene and helping to eliminate shadows.
-  Slow Sync.
This allows you to take pictures 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.
-  Slow Sync.+Red-Eye
Use this mode for slow synchrony shots with red-eye reduction.
-  Red-Eye Reduction
The camera emits a brief pre-flash before the picture is taken to reduce red-eye effects.

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

WB (White Balance) Mode

The white balance function allows adjustment of the color temperature for different light sources.

1. Press the  button to enter the White Balance menu.



2. Press the [] / [] buttons to select the following 8 modes:

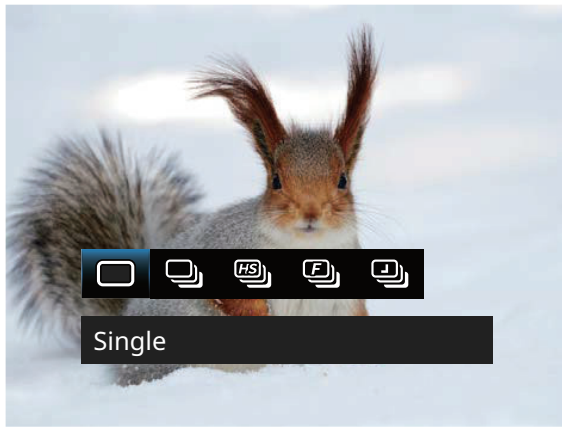
-  AWB
-  Daylight
-  Cloudy
-  Fluorescent
-  Fluorescent CWF
-  Incandescent
-  Manual WB (Fully press the Shutter Button to detect the White Balance value)
-  Color Temp. (1900K~10000K)
Press the [ AF] / [] buttons to "Adjust the Fluorescent CWF K value"; Press the [] button to exit the K value.

3. Press the  button to confirm the settings and enter the shooting screen.

Continuous Shot Mode

Use this setting to perform Continuous Shooting. After entering this mode, you can shoot multiple images by continuously holding the Shutter Button down.

1. Press the  button to enter the Continuous Shot menu.



2. Press the [] / [] button to select the following 5 modes:

-  Single
Capture a single shot only.
-  Continuous Shot
For taking more than one picture continuously.
-  Cont.Shot-High Speed (VGA)
For continuous shot with VGA pixel.
-  Cont.Shot-Fast (4M)
For continuous shot with 4M pixels.
-  Time-Lapse
(30sec/1min/5min/10min)
Take pictures based on the preset interval. Press the  button to select the interval time.

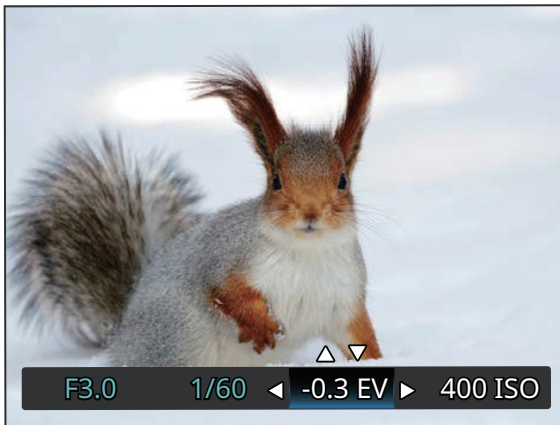
3. Press the  button to confirm the settings and then enter shooting screen.

Exposure Compensation Functions Setting

The EV Function Menu of the camera includes functions, such as EV (Exposure Value) Adjustment, ISO, Shutter Adjustment, Aperture Adjustment, etc. Using the appropriate Function Settings can improve your pictures.

Please follow the steps below to set:

1. Press the  button to display the Settings screen.



2. Press the [] / [] button to select the setting options.
3. Press the [ AF] / [] button to adjust the option values.
4. Press the  button to complete the setting and enter shooting screen.

EV Adjustment

Set up Exposure Compensation to adjust the picture brightness. If there is very high contrast between the photographed object and the background, the brightness of the picture can be adjusted as necessary.

The adjustable range of exposure value is from EV -3.0 to EV +3.0.

ISO Adjustment

ISO allows you to set the sensitivity of the camera sensor. Please use a higher ISO value in darker places and a lower value in brighter conditions.

Options of ISO value: Auto, 100, 200, 400, 800, 1600 and 3200.

Shutter Speed Adjustment

For shutter speed, the camera may automatically set the aperture value corresponding to the manually set shutter speed so as to obtain a most suitable exposure value. The movement of object may be shown by adjusting the shutter speed. High shutter value can help you more clearly capture fast moving objects, while low shutter value can better show the movement of objects.

Aperture Adjustment

You can adjust the aperture size value. Selecting a large aperture opening will emphasize the point of focus and show a blurry background and foreground. A small aperture opening will keep both the background and main object in clear focus.

Color Effects

The image color setting allows you to select different effects.

1. Press the **(i)** button to enter the image Color setting menu.
2. Press the [**◀🌸**] / [**▶⚡**] button to select the image color setting options.



Activate Continuous Shot / HDR (**PSA** Mode)

- **🌸N** Normal
- **🌸V** Vivid
- **🌸** Japan Style
- **🌸** Italian Style
- **🌸** French Style
- **🌸B** Black and White
- **🌸S** Sepia
- **🌸** Partial Color-Red
- **🌸** Partial Color-Blue
- **🌸** Partial Color-Yellow
- **🌸** Partial Color-Green
- **🌸** Negative

PSAM Mode

-  Normal
-  Vivid
-  Japan Style
-  Italian Style
-  French Style
-  Punk
-  Black and White
-  Sepia
-  Partial Color-Red
-  Partial Color-Blue
-  Partial Color-Yellow
-  Partial Color-Green
-  Negative
-  Dreamy
-  Vignetting
-  Salon
-  Fish Eye
-  Reflection
-  4 Grids - Stylish (2M)
-  Sketch

Mode

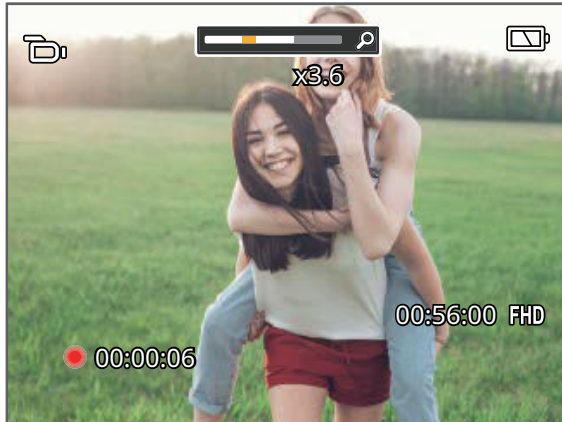
-  Normal
-  Vivid
-  Black and White
-  Sepia
-  Partial Color-Red
-  Partial Color-Blue
-  Partial Color-Yellow
-  Partial Color-Green



Fish Eye effect is not available when shot size is 20M.

Using Quick Recording

In Photo Shooting Mode, press the  button to begin recording video.



Once you are finished, press the  button again to stop recording. The camera will save the video and return to the shooting screen.

Options in the shooting mode (O: Available X: Unavailable)

Options	Shooting Modes																				
		P	S	A	M		SCN														
																					
	X	O	O	O	O	X	X														X
	X	O	O	O	O	O	X	X	X	O	X	O	X	X	O	X	X	X	X	O	
	O	O	O	O	O	O	X	O	X	O	O	O	X	O	O	X	O	O	O	O	
	X	O	O	O	O	O	X	X	X	X	O	O	X	X	O	X	X	O	X	X	
	X	O	O	O	O	X	X														X
	X	O	O	O	O	X	X	X	X	O	O	O	O	X	O	O	X	X	O	X	
Aperture	X	X	X	O	O	X	X														X
Shutter	X	X	O	X	O	X	X														X
EV	X	O	O	O	X	O	X	O	X												O
ISO	X	O	O	O	O	O	X														X
	X	O	O	O	O	X	X														O



If each option is available in the mode set to **CS** , the option is available in **CS** mode; otherwise, it is not available.

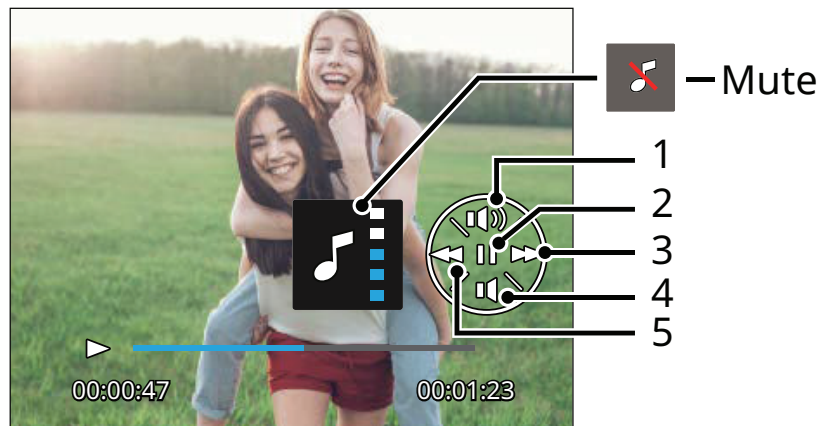
PLAYBACK

Viewing Photos and Videos

For viewing taken photos and videos on the LCD:

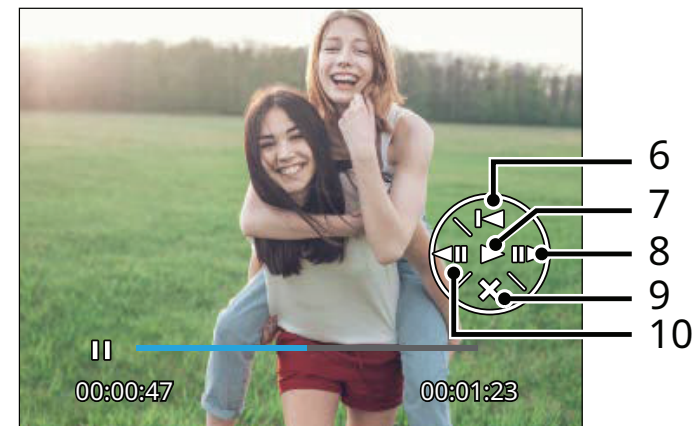
1. After pressing the  button, the last photo or video clip taken will be displayed on the LCD.
2. Press the [] / [] button to scroll through the photos or video clips stored in the built-in memory or on the Memory Card.
3. To play a selected video clip, press the  button to enter the movie playback mode. An operation guide appears on the screen when playing back a video. Press the appropriate buttons to enable the corresponding functions.

Under Playback



1	Increase Volume
2	Pause
3	Fast Forward
4	Decrease Volume
5	Rewind

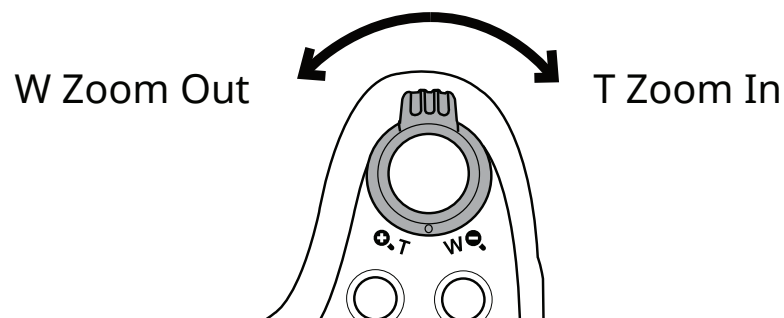
Paused



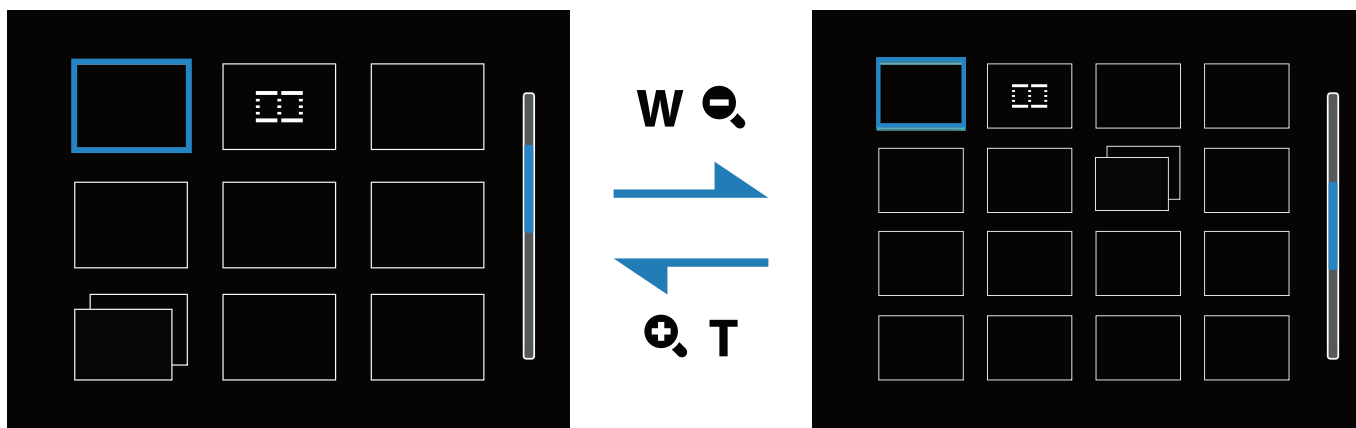
6	Return Back to the Beginning of the Video
7	Play
8	Frame Forward
9	Cancel Playback
10	Frame Backward

Thumbnail View

When in Playback Mode, rotate the Zoom Lever counter to the **W**  position to display thumbnail images of the photos and videos on the screen.

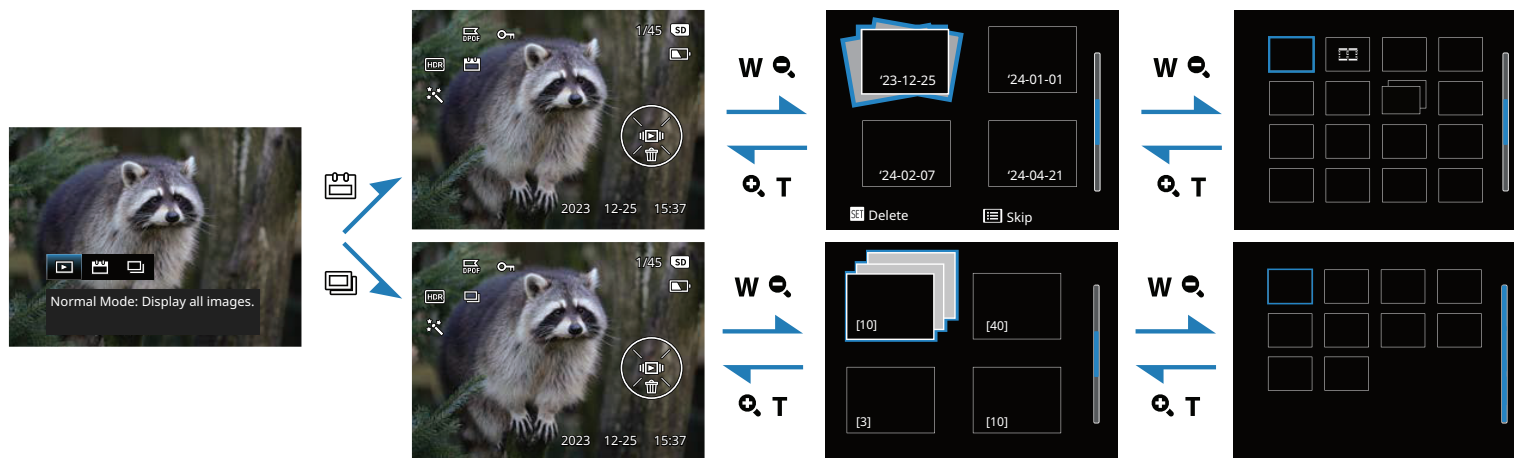


1. Slide the Zoom Lever to switch between 3 x 3 and 4 x 4 thumbnails.
2. When a 3 x 3 or 4 x 4 thumbnail is displayed, press the [ **AF**] / [ ] / [ ] / [ ] button to select a picture or video clip to view and press the **SET** button to restore it to the original size.



- **For Date Mode or Cont. Photo Mode**

1. Press the  button to display the playback screen and press the  button to enter the menu.
2. Select  and press the  button to confirm.
3. Press the [] / [] buttons to select  / .
4. Slide the Zoom Lever to switch between 2 x 2 and 4 x 4 thumbnails.
5. When a 2 x 2 or 4 x 4 thumbnail is displayed, press the [ AF] / [] / [] / [] buttons to select the picture or video clip to view. Press the  button to restore it to the original size.



When the icon  appears, it means this is a video file.

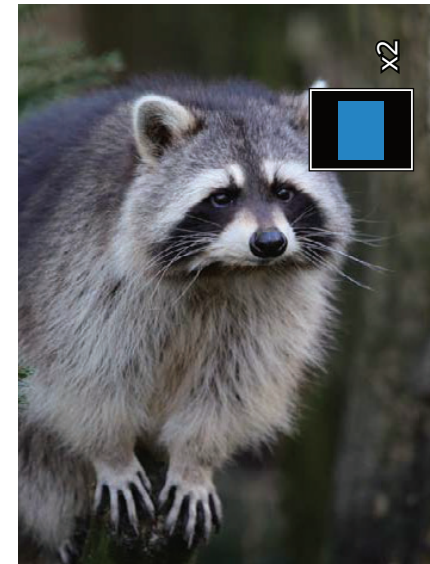
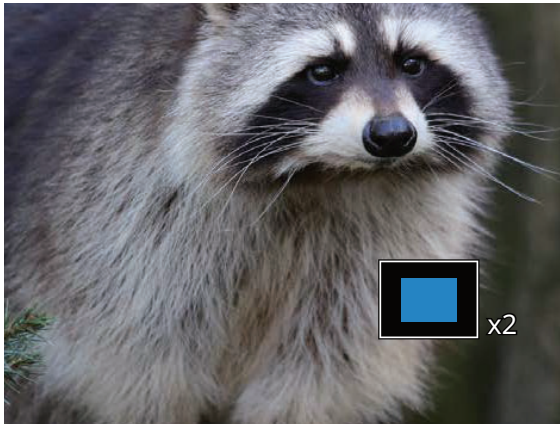


Press the  button to restore a preview icon to its original image size.

Using Zoom Playback (for still pictures only)

When playing back photos, you can also use the Zoom Lever to zoom in on the photos 2 to 8 times their original magnification.

1. Press the  button to switch to Playback Mode.
2. Press the [] / [] buttons to select a picture to be zoomed in on.
3. Rotate the Zoom Lever to  position to zoom in. The number of times the image is magnified and area of the photo will display on the LCD .



4. Press the [ AF] / [] / [] / [] buttons to navigate and select a portion of the photo to be zoomed in on.
5. Press the  button to return the image to its original scale.

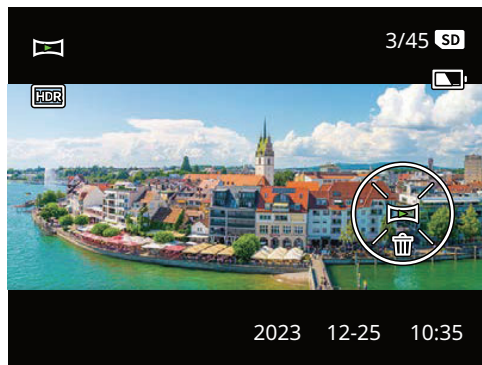


Movie images cannot be magnified.

Animation Panorama Play

Panoramic Animation Playing is to play full size image in accordance with the shooting direction. After playing, it will automatically return to the static screen of panoramic image.

1. Press the  button to enter Playback Screen.
2. Press the [] / [] buttons to select animated panoramic photos.
3. Press the  button to play in selected shooting direction.
4. During playback, press the  button to pause playback, and then press the  button to resume playback.



Video Panorama



Playing



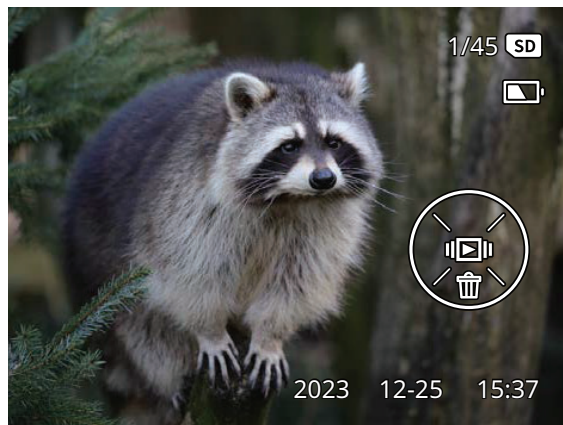
Pause

-  In the process of panoramic animation playback, press the [] button to stop playing and return to the playback screen.
-  Picture will not be rotated during panorama play or pause.

Slideshow

This setting allows you to view all the stored images as a slideshow.

1. Press the  button to enter playback screen.
2. Press the [] / [] button to select Slideshow Playing and then press the  button to enter slide option.
3. Press the [] / [] button to select play effect and then press the  button to confirm.



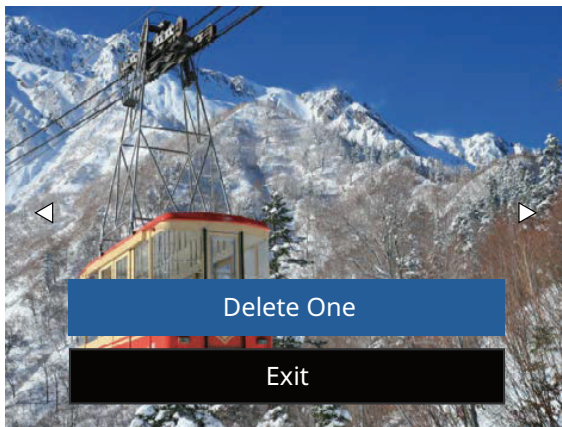
-  Play Slide Show Effect 1: Slow-in and slow-out
-  Play Slide Show Effect 2: Separate in middle and move off to the left and right
-  Play Slide Show Effect 3: Separate into blocks and spin in
-  : Cancel

Deleting Photos and Videos

In Playback Mode, press the [▼🗑️🕒] button to delete your photos and videos.

To delete photos or videos:

1. Press the [⏮] button to switch to playback mode.
2. Press the [◀🌸] / [▶⚡] button to select the photos or videos to be deleted.
3. Press the [▼🗑️🕒] button and the deletion screen is displayed.



4. Press the [▲AF] / [▼🗑️🕒] button to select [Delete One] or [Exit] and press the [SET] button to confirm.



Erased photos/video clips cannot be recovered.



Please refer to page 80 for instructions on deleting more than one image at a time.

USING THE MENUS

Shooting Menu

Mode:  **P** **S** **A** **M**  **SCN**  **CS**

1. In Shooting Mode, press the  button to enter the Shooting Menu.

-  Expo Metering
-  Image Size
-  Video Quality
-  OIS (Optical Image Stabilization)
-  Continuous AF
-  Beautifier
-  HDR (High Dynamic Range)
-  Scene
-  Menu

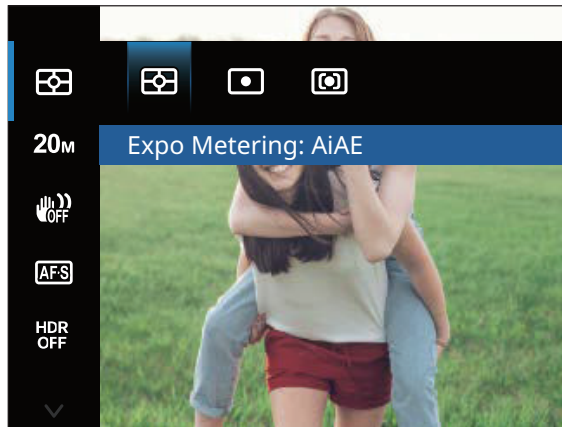
 Different features are enabled for each mode, please refer to page 70 of this manual for details.

2. Press the [ **AF**] / [  ] button to select the shooting menu to be set.

3. Press the [ ] / [ ] button to select options of the shooting menu to be set and then press the  button to confirm.

Expo Metering

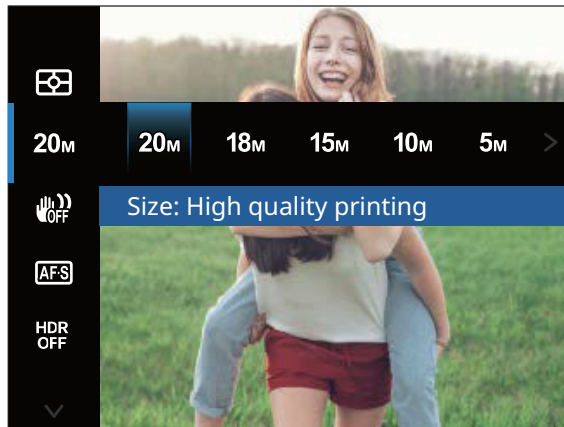
Use this setting to select the “target” size of the camera’s field of view to be metered.



-  AiAE (Artificial Intelligence AE)
Evaluates the light intensity at multiple points in the frame and automatically determines the best value for the light meter.
-  Spot
For metering the block displayed in the center of the screen.
-  Center
For metering the object in the center of the screen.

Image Size

The Size Setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the photo image quality.



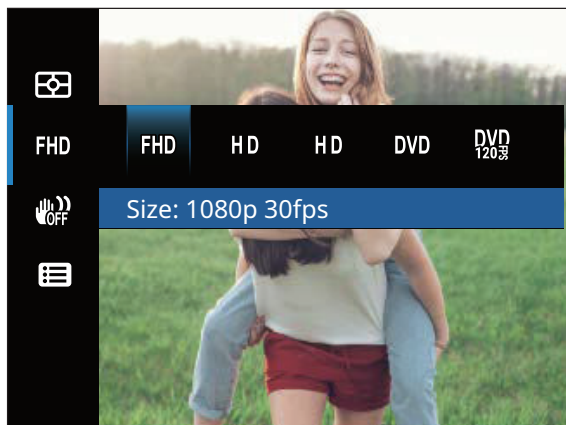
- 20M Size: High quality printing
- 18M Size: Full size printing
- 15M Size: 16:9 display
- 10M Size: Poster printing
- 5M Size: A3 printing
- 3M Size: A4 printing
- 2M Size: 4"x 6" printing
- VGA Size: E-Mail



The larger the number of recorded pixels is, the better the image quality becomes. As the number of recorded pixels lessens, you will be able to record more images on a memory card.

Video Quality

Set the image resolution used during video recording.



The speed requirements for reading and writing high resolution image pixel images to an SD card are as follows:

No.	Image Pixels	Frames	Recording Time (32GB) About
1	1920 x 1080 *	30	245 Minutes
2	1280 x 720 *	60	265 Minutes
3	1280 x 720 *	30	484 Minutes
4	640 x 480	30	892 Minutes
5	640 x 480	120	580 Minutes



* The longest recording time is 29 minutes at one time.



If the recorded video segment/file exceeds 4GB:

- 1) The camera will automatically generate a new separate file(s) sequentially and will continue recording until the SD memory card is full.
- 2) Each sequential recorded file of 4GB (max) will be a separate file and cannot be played back continuously.
To playback files, please manually select each one to view.



When recording in higher pixel resolutions for extended periods of time, this can cause the camera to generate heat. This is not a camera malfunction.



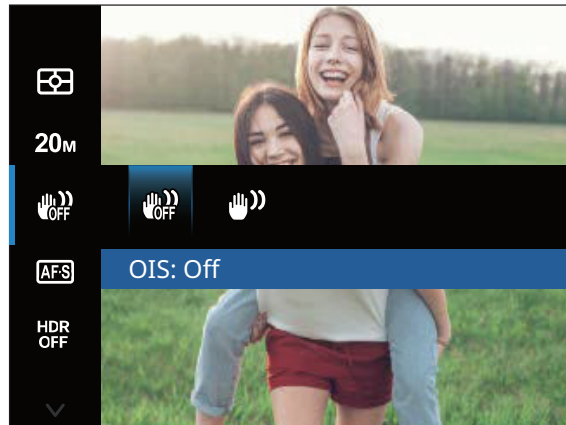
Sound recording is disabled when 640 x 480 (120fps) is chosen.



When the video format is set as 640 x 480 (120fps), the shooting time is 30 seconds and the playback time is 2 minutes.

OIS (Optical Image Stabilization)

This mode can help reduce photo blur caused by unintentional shaking, or low light.

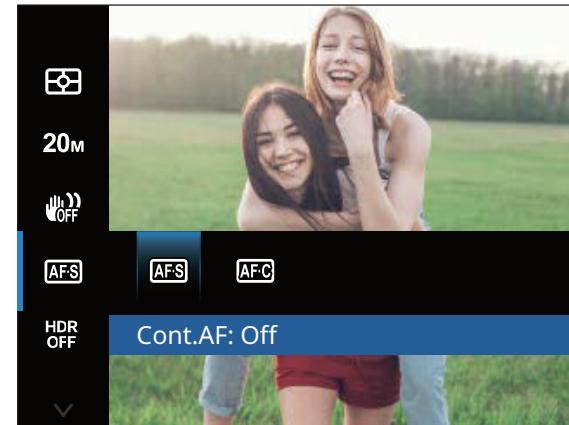


- OIS: Off
- OIS: On

- Use this image stabilization mode in dark environments.
- Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurry images.
- You may not need OIS when using a tripod.

Continuous AF

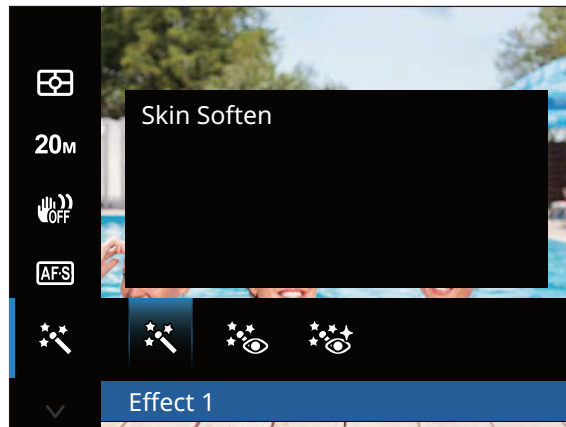
Use the Continuous AF setting to be able to continuously focus automatically when taking pictures.



- Cont.AF: Off
- Cont.AF: On

Beautifier

Select the effect for Face Beautifier Mode.



-  Effect 1: Skin Soften
-  Effect 2: Skin Soften
+Eye Brightening
-  Effect 3: Skin Soften
+Eye Brightening
+Eye Enlargement

HDR (High Dynamic Range)

Use this setting to control wide dynamic image range when taking static pictures. Photos with extreme contrast of bright and dark areas will still maintain distinguishable detail and depth. (Suggest using tripod)



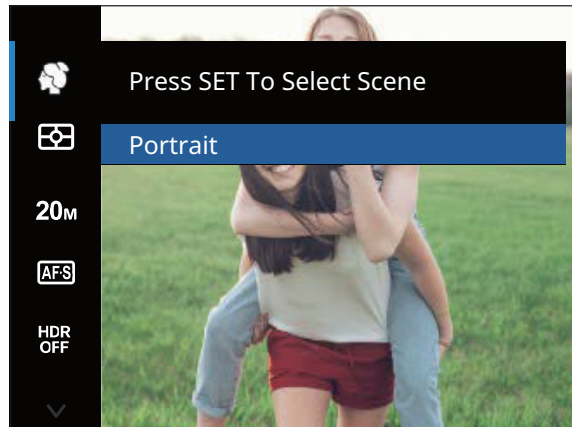
-  HDR: Off
-  HDR: On



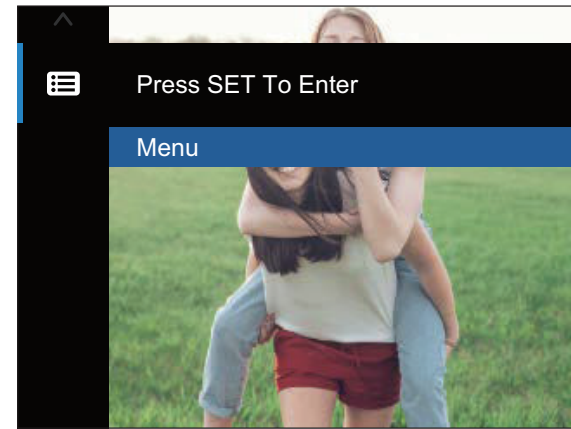
When shooting in a high light contrast situation, we suggest using the HDR setting to compensate and provide the best photos possible.

Scene

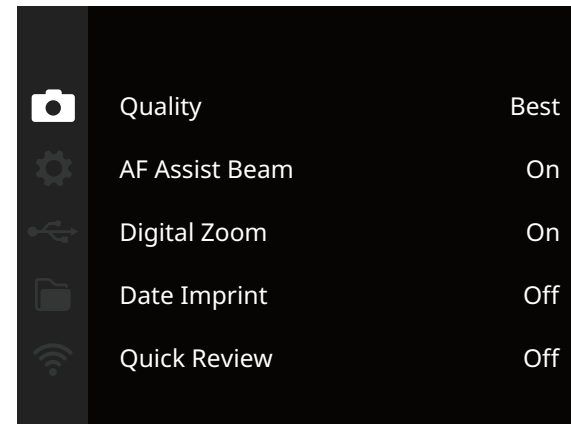
Select a scene mode under SCN Mode.



Menu



Press the **SET** button to enter the menu.



Options in the Shooting Mode (O: Available X: Unavailable)

Options		Shooting Modes													
			P	S	A	M		SCN							
															
 Expo Metering		O	O	O	O	O	O	X	O	O	O	O	O	O	O
 Image Size		O	O	O	O	O	O	2M	O	5M	O	O	O	O	X
 Video Quality		X	X	X	X	X	X	X							O
 OIS		X	O	O	O	O	O	X							O
 Continuous AF		X	O	O	O	O	O	X	X	X	O	X	O	X	X
 Face Beautifier		X	X	X	X	X	O	X							X
 HDR		X	O	O	O	O	X	X	O	X	O	O	O	X	X
 Scene		X	X	X	X	X	X	O							X
 Menu		O	O	O	O	O	O	O							O



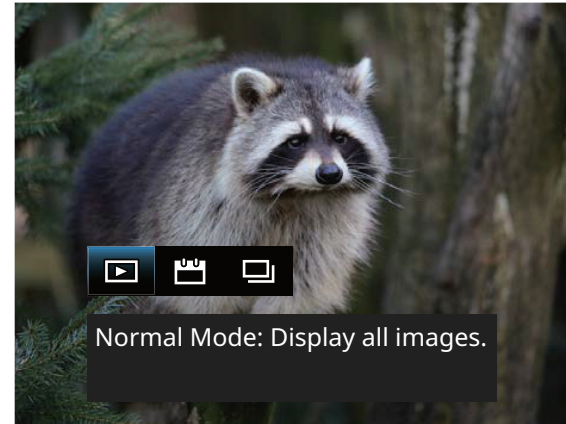
If each option is available in the mode set to **CS**, the option is available in **CS** mode; otherwise, it is not available.

Playback Menu

Mode: 

1. Press the  button to display the playback screen and press the  button to enter the menu.
 -  Display Mode
 -  HDR
 -  Touch-up
 -  Rotate
 -  Resize
 -  Color
 -  Menu
2. Press the [ **AF**] / [ ] button to select the item to be set and press the  button to enter.
3. Press the [ ] / [ ] button to select an option and press the  button to confirm.

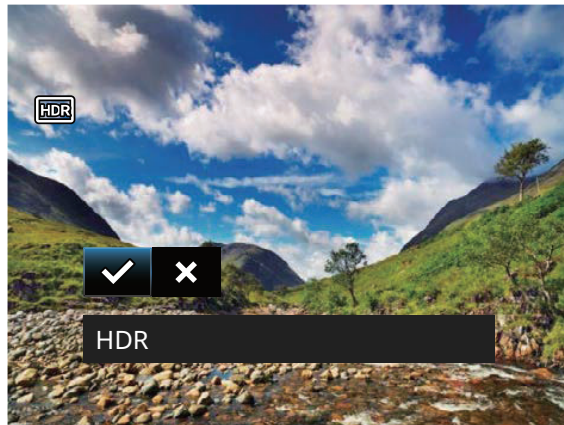
Display Mode



-  Normal Mode: Display all images.
-  Date Mode: Arranged by date.
-  Cont.Photo Mode: Arranged by Cont.Photo Group.
-  The Date Folder is displayed in date order based on photo shooting date/ time.
-  If there is no continuous shot image file in memory, continuous photo mode cannot be enabled.

HDR

With the HDR function, pictures that are overexposed may be corrected to optimize the highlights and lowlights captured to more accurately represent the actual scene.



✓ : HDR

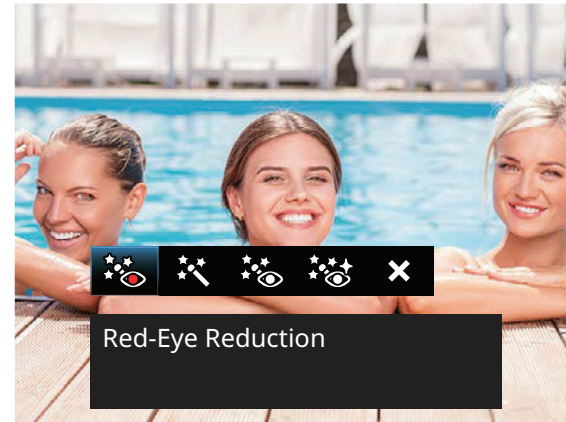
✕ : Cancel



After using the HDR function, the image will be saved as a new file and the original file is still stored in the memory.

Touch-up

The playback beauty feature allows for beautification using three individual effects.



 : Red-Eye Reduction

 : Skin Soften

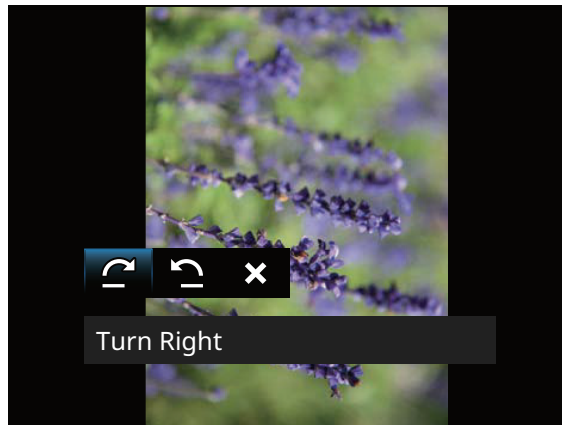
 : Eye Brightening

 : Eye Enlargement

✕ : Cancel

Rotate

You can use this setting to change the orientation of the picture.



 : Turn Right

 : Turn Left

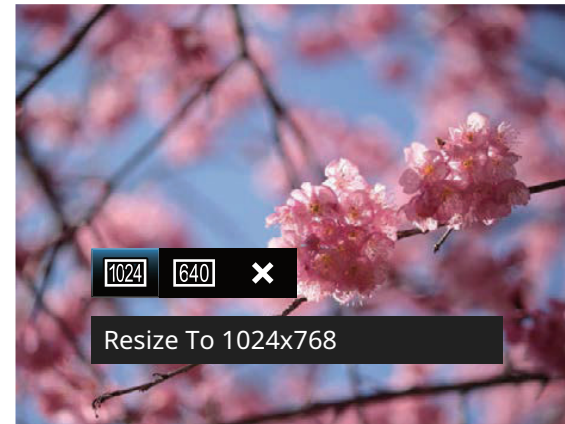
 : Exit

 Videos and panoramic pictures cannot be rotated.

 The rotated picture file will replace the original photo.

Resize

This setting allows you to resize a picture to a particular resolution and saves it as a new picture.



 : Resize to 1024x768
Resize to 1024x680
Resize to 1024x576

 : Resize to 640x480
Resize to 640x424
Resize to 640x360

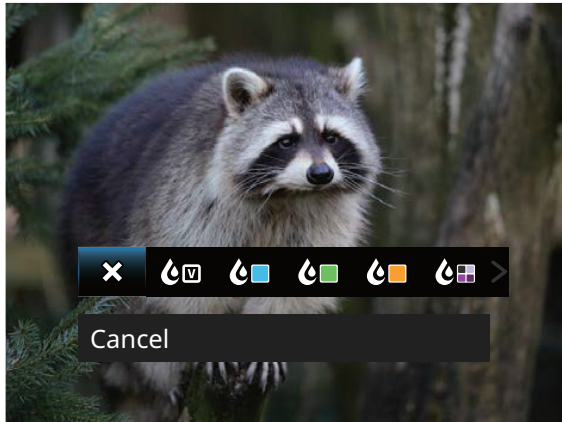
 : Cancel

 Only for adjusting pictures with high resolution to those with low resolution.

 Sizes of photos taken in panorama mode or rotated cannot be adjusted.

Color

This setting allows you to change the picture color effect. The file is saved as a new photo and stored in memory together with the original photo.



- ✕ Cancel
- 💧 Vivid
- 💧 Japan Style
- 💧 Italian Style
- 💧 French Style
- 💧 Punk (4M)
- 💧 Black and White
- 💧 Sepia
- 💧 Partial Color-Red
- 💧 Partial Color-Blue
- 💧 Partial Color-Yellow
- 💧 Partial Color-Green
- 💧 Negative (8M)
- 💧 Dreamy
- 💧 Vignetting
- 💧 Salon
- 🐟 Fish Eye
- 🌟 Reflection
- 💧 4 Grids - Stylish (2M)

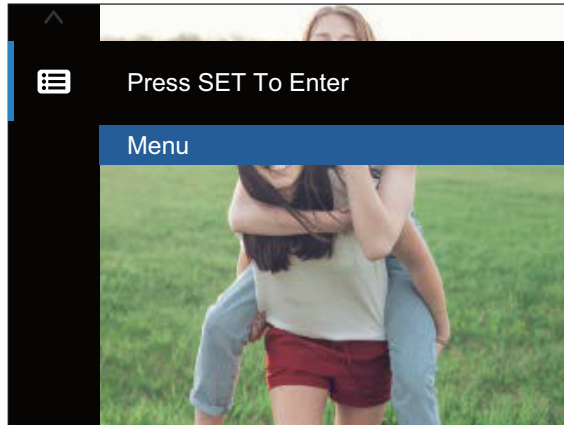
 In playing back single photos, press the ⓘ button to enter the color effect setting menu.

 Fish Eye effect is not available when shot size is 20M.

USING THE MENU BUTTON

Mode:  **P** **S** **A** **M**  **SCN**  **CS** 

In each mode (except for the Wireless Mode), press the  button, press the [ **AF**] / [  ] buttons to select  and then press the  button to enter the menu.



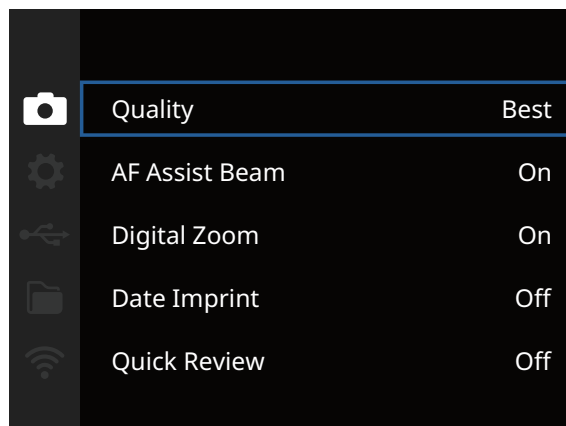
Press the [ **AF**] / [  ] button to select the item to be set and then press the  / [ ] button to enter the menu.

Shooting Mode	
	Shoot Settings
	General Settings
	Connection Settings
	File Settings
	Wireless Settings

Playback Mode ()	
	Playback Settings
	General Settings
	Connection Settings
	File Settings
	Wireless Settings

Shoot Settings

1. Press the [►⚡] / (SET) button to enter the Shoot Settings menu.

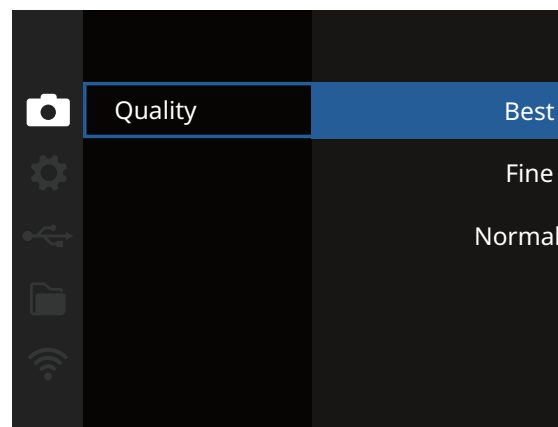


 Functions that can be enabled are different under each mode.

2. Press the [▲AF] / [▼🗑️🕒] button to select the item to be set and press the [►⚡] / (SET) button to enter.
3. Press the [▲AF] / [▼🗑️🕒] button to select an option and press the (SET) button to confirm.

Quality

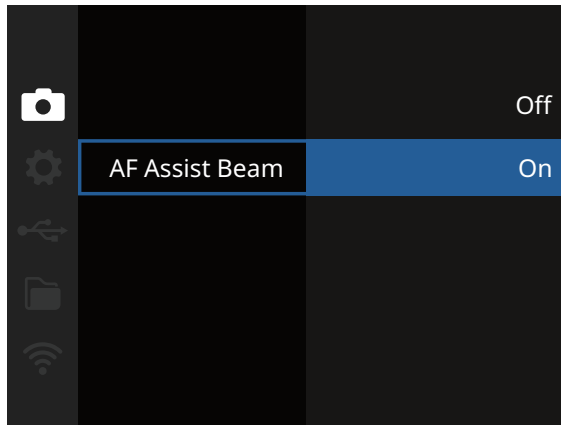
The Quality setting can be used to adjust the image compression ratio.



- Best
20M Average File Size: 6.5MB
- Fine
20M Average File Size: 4.5MB
- Normal
20M Average File Size: 3.5MB

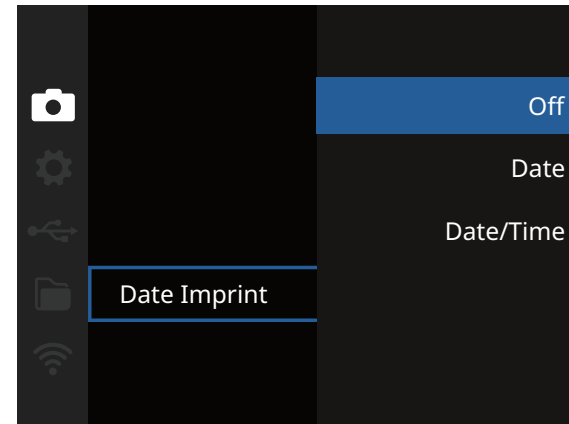
AF Assist Beam

In a darker environment, the AF assist beam setting can be turned on for better focus.



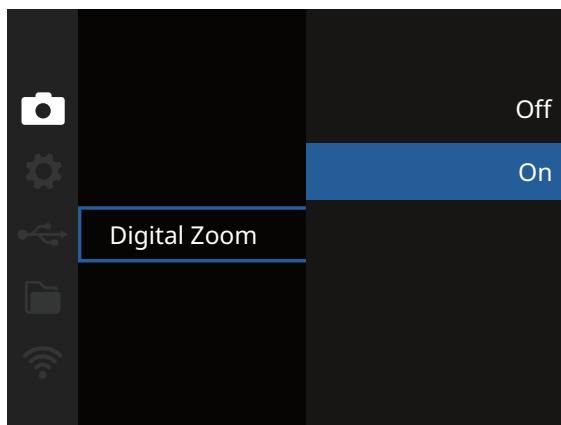
Date Imprint

Include a Date/Time stamp on the photo image.



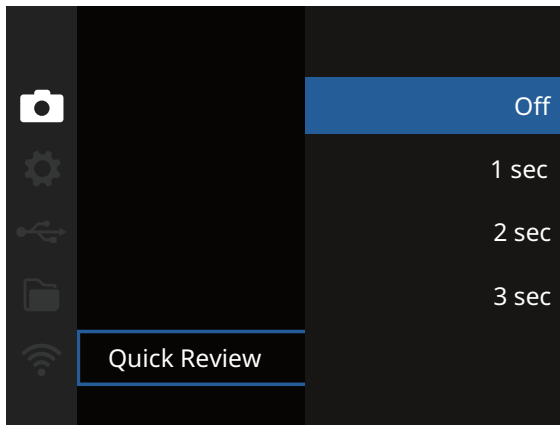
Digital Zoom

This setting is for adjusting digital zoom. If this function is disabled, only optical zoom can be used.



Quick Review

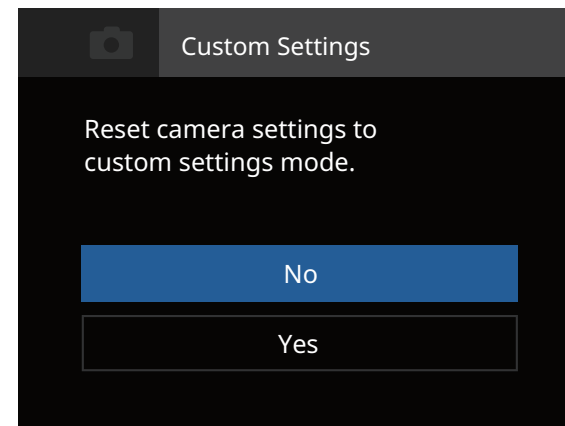
This option enables a quick review of images immediately after capture. Each picture will be displayed on the LCD screen per the selections below.



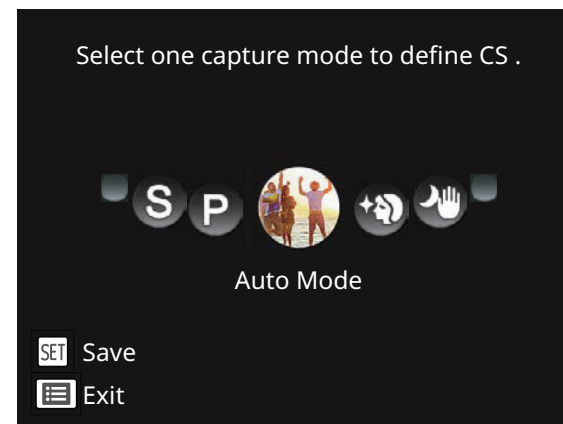
Custom Settings

Custom settings stores the current movie shooting mode and its parameters. The stored mode and parameters are automatically used in Custom Settings mode.

- Select [Custom Settings] under other modes

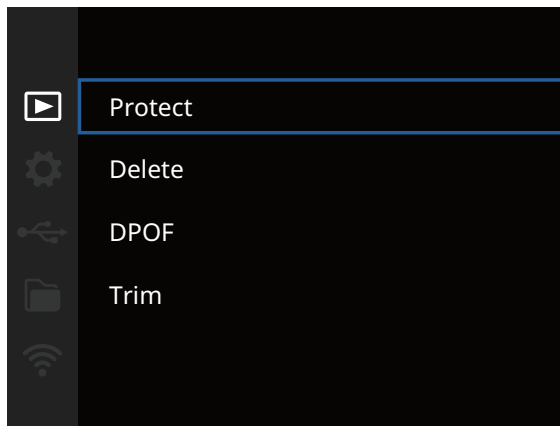


- Select [Custom Settings] under **CS** mode



Playback Settings

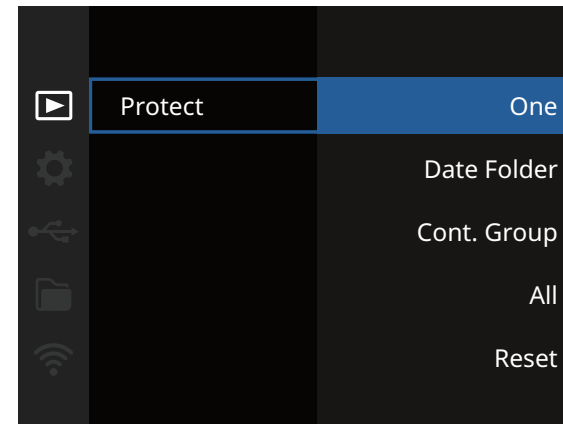
1. Press the [►⚡] / [SET] button to enter the Playback Settings menu.



2. Press the [▲AF] / [▼🗑️🕒] buttons to select the item to be set and press the [►⚡] / [SET] button to enter.
3. Press the [▲AF] / [▼🗑️🕒] or [◀️🌸] / [►⚡] buttons to select an option and press the [SET] button to confirm.

Protect

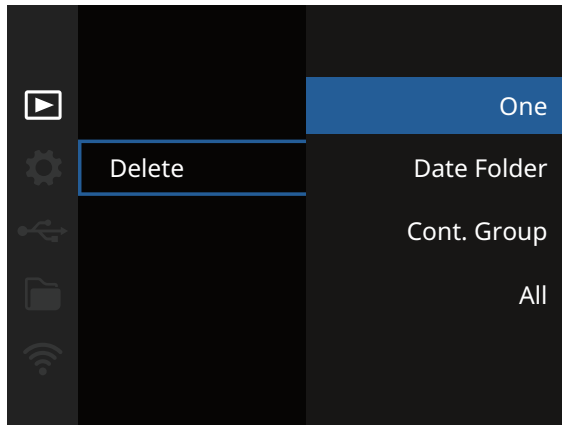
To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.



- One
Lock the selected photo or video if they are unprotected; unlock the selected photo or video if they are protected.
- Date Folder
Protect all photos in the Date Folder.
- Cont. Group
Protect all photos in the Cont. Group.
- All
Lock all photos or videos.
- Reset
Cancel all locked photos or videos.

Delete

You can delete one or all photo/video files.

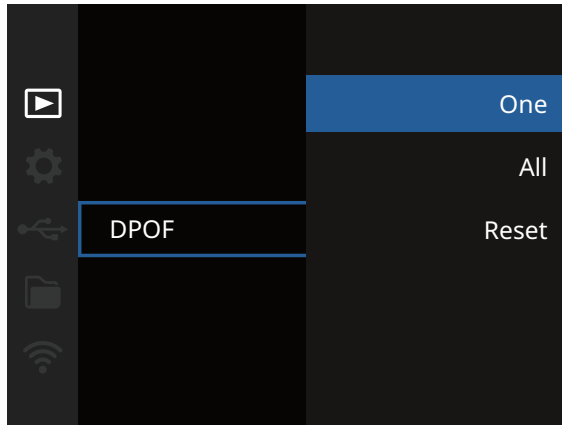


- One
Delete one photo or video.
- Date Folder
Delete all photos in the Date Folder.
- Cont. Group
Delete all photos in the Cont. Group.
- All
Delete all photos or videos.

-  The “” indicator means a file is protected. File protection must be removed before a file can be deleted.
-  Deleting files will cause DPOF settings to be reset.
-  When one photo in the Cont. Group and Date Folders is protected, it will be kept but any other photos will be deleted.
-  Deleted files will be permanently deleted and will not be able to be recovered or restored.

DPOF (Digital Print Order Format)

The DPOF feature allows you to compile and select a group of pictures that you would like to print and will save your selection on the memory card so that you can use the memory card to print without having to individually specify the photos you want to print.

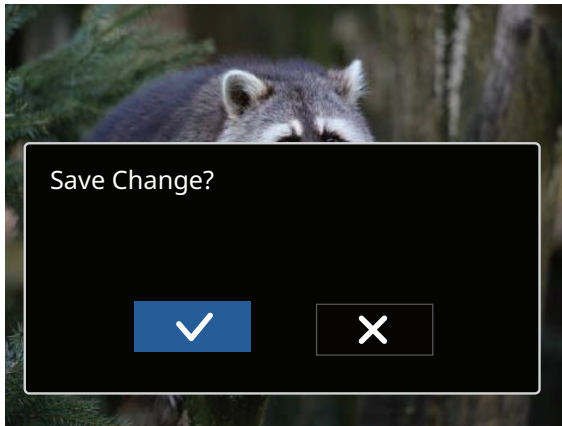


The printer that supports DPOF is needed for photo printing.

Trim

The Trim setting allows you to crop photos and save them as new pictures.

1. Select [Yes] to confirm trim. Toggle the Zoom Lever to select the aspect ratio and press the [**▲ AF**] / [**▼**  ] / [**◀** ] / [**▶** ] buttons to adjust the part you want to trim.

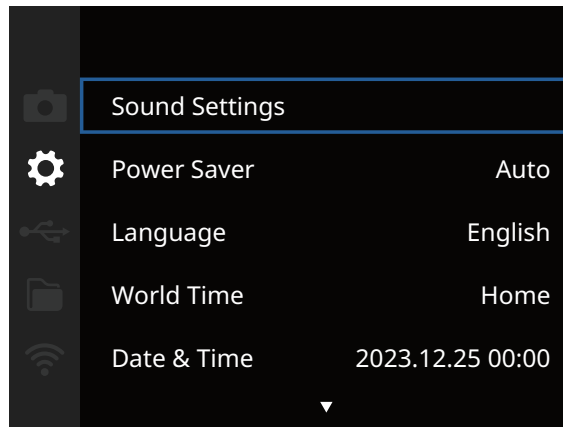


2. Press the **(SET)** button and the [Save change?] prompt appears. Select [**✓**] to change and save the picture. Select [**X**] to cancel changes and return to the trim prompt screen.

-  The image cannot be clipped/trimmed again once it has been clipped to 640x480.
-  Videos files cannot be trimmed.
-  A trimmed picture cannot be trimmed again.

General Settings

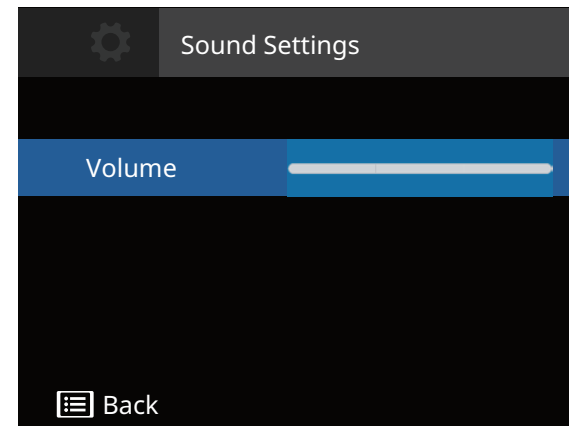
1. Press the [►⚡] / (SET) button to enter the General Settings menu.



2. Press the [▲AF] / [▼🗑️🕒] buttons to select the item to be set and press the [►⚡] / (SET) button to enter.
3. Press the [▲AF] / [▼🗑️🕒] or [◀️🌸] / [►⚡] buttons to select an option and press the (SET) button to confirm.

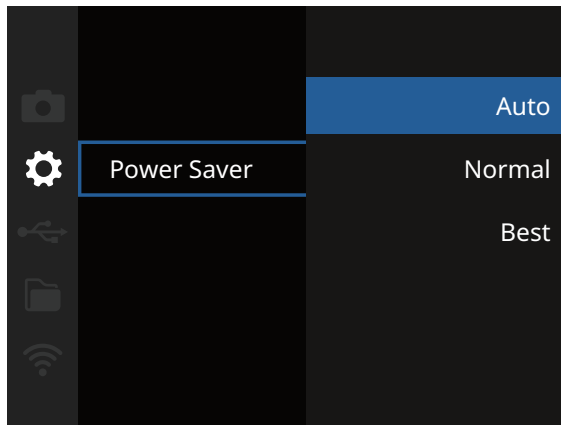
Sound Settings

With this setting you may adjust the sound volume.



Power Saver

This setting allows you to save power and get the maximum possible running time for your camera's batteries. Turn the LCD and camera off automatically after a consecutive period of inactivity.



Power Saver	LCD power off time	Turn off time
Auto	3 min	5 min
Normal	1 min	3 min
Best	30 s	1 min

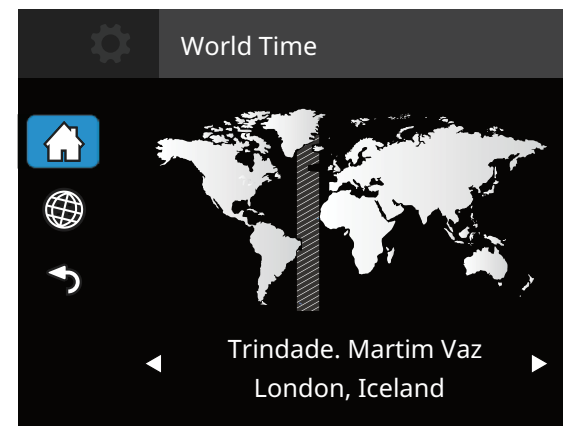
Language

Refer to the “Reset your language” section on page 21.

World Time

The World Time setting is a useful function for your overseas trips. This feature enables you to display the local time on the LCD while you are abroad.

1. Press the [AF] / [] buttons to select the departure place () and destination () fields.
2. Press the [] / [] buttons to select a city located in the same time zone as that of the field. Press the button to confirm settings.

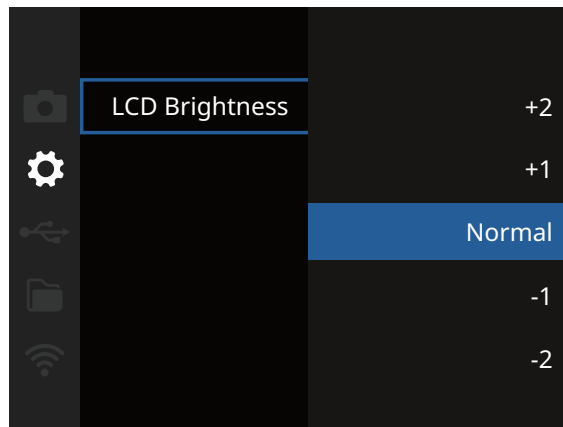


Date & Time

Refer to the “Reset Date/Time” section on page 22.

LCD Brightness

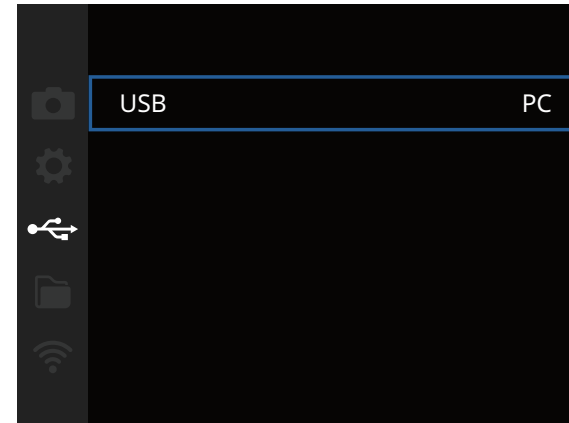
Use this setting to adjust the brightness of your LCD.



 Setting and adjusting your camera's LCD brightness to the lowest setting will help conserve your camera's battery life and longevity. Using the LCD screen on the brightest setting will drain your batteries more quickly.

Connection Settings

Press the [►⚡] / (SET) button to enter the Connection Settings menu.



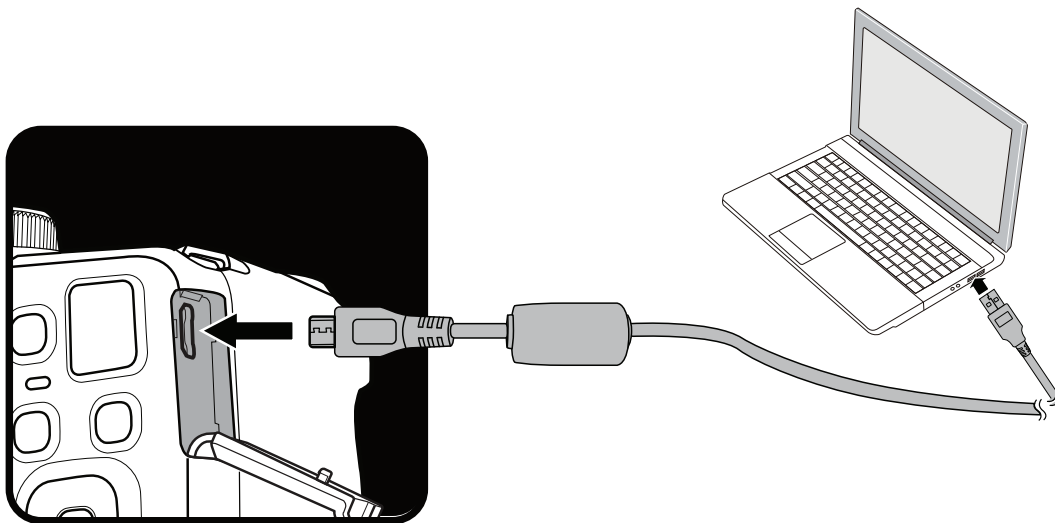
You can use a Micro USB cable to connect the camera and copy (transmit) photos to a computer or other device.

Connecting and Transferring Files to your Computer

The computer will automatically detect the camera as a removable drive. Double-click the “My Computer” icon on the desktop to locate the removable drive and to copy folders and files in the drive to a directory on your PC as you would copy any typical folder or file.

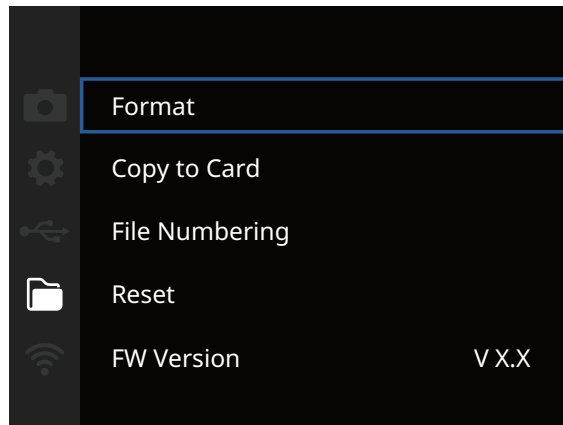
Follow the steps below to connect the camera to a computer:

1. Make sure the computer is turned on.
2. Connect one end of the supplied Micro USB cable to the Micro USB port on your camera.
3. Connect the other end of the cable to an available USB port on your computer.
4. After the transmission is complete, disconnect the Micro USB cable according to your computer manufacturer's instructions specifying how to safely remove USB devices.



File Settings

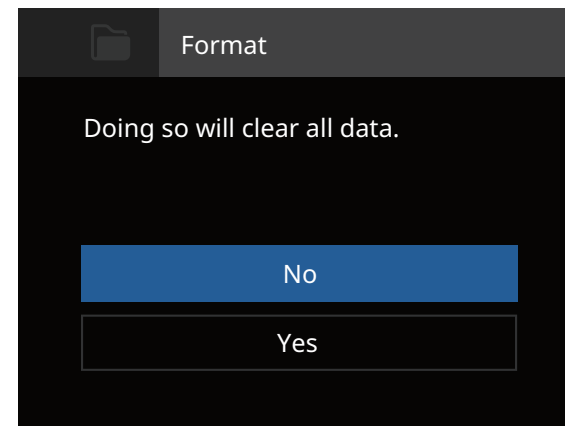
1. Press the [►⚡] / (SET) button to enter the File Settings menu.



2. Press the [▲AF] / [▼🗑️🕒] button to select the item to be set and press the [►⚡] / (SET) button to enter.
3. Press the [▲AF] / [▼🗑️🕒] button to select an option and press the (SET) button to confirm.

Format

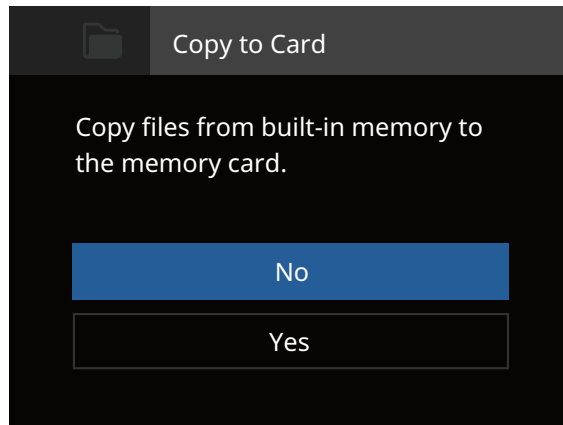
Please note: formatting enables you to delete all contents on the memory card and camera's built-in memory, including protected photo and movie files.



- 📋 If you select [Yes] the camera will format its memory.
- 📋 If there is no memory card in the camera, the built-in memory will be formatted; if there is a memory card, only the memory card will be formatted.

Copy to Card

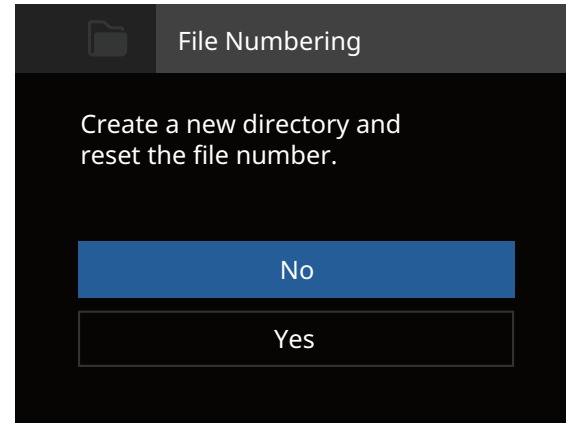
Use this setting to copy the files stored in the built-in memory to a memory card.



If there is no card available in the camera, this function will not be displayed.

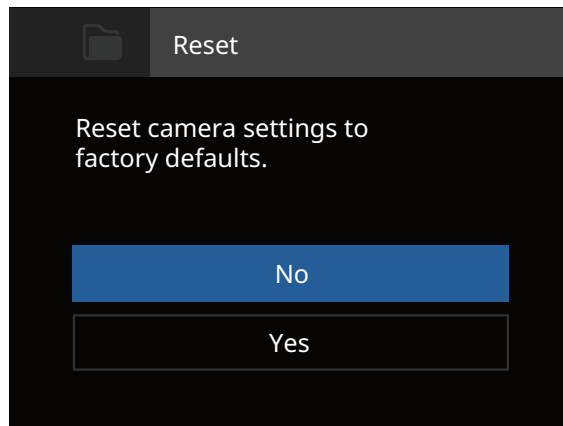
File Numbering

After you take a picture or video clip, the camera will save it with a sequential number. You can use this to reset the file numbering to 1.



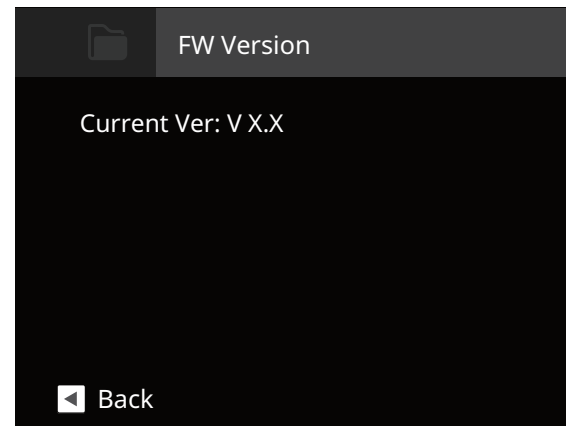
Reset

Use this setting to restore the camera to its original default settings.



FW Version

Use this setting to view the current camera firmware version.

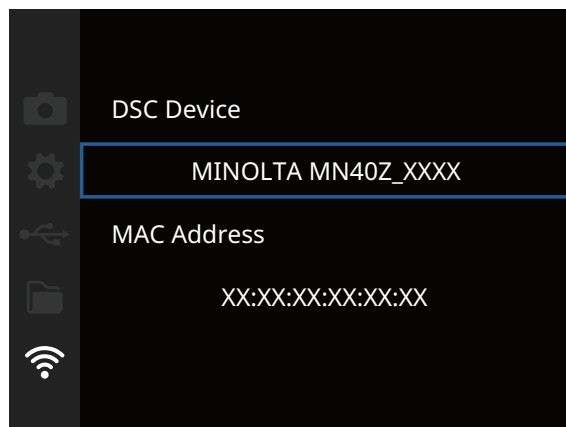


When there is a new firmware version in the memory card, select [Yes] to update.



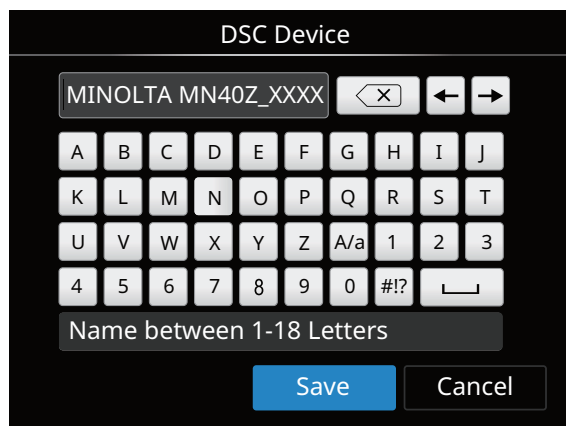
Wireless Settings

1. Press the [►⚡] / (SET) button to enter the menu.



2. Press the [▼🗑️🕒] button to enter Shoot Settings menu.

Press the [►⚡] / (SET) button to enter DSC Device screen.



DSC Device

The default name of DSC device is [MINOLTA MN40Z_XXXX]. Change the name of DSC device through typing.

Meanings of Interface Icons:

Icon	Description
	Delete the last letter
	Switch the display of letters in capital and lowercase
	Move the cursor
	Switch the symbol input
	Input space

MAC Address

Check the wireless network MAC Address of this camera.

APPENDICES

Product Specifications



Design and specifications are subject to change without notice.

Image Sensor	Type	1/2.3" BSI CMOS
	Effective Pixels	20.68 Megapixels
	Total Pixels	21.14 Megapixels
Lens	Focal Length	4.3mm (Wide) — 172 mm (Tele)
	35 mm Film Equivalent	24 mm (Wide) — 960 mm (Tele)
	F number	F3.0 (Wide) — F6.8 (Tele)
	Lens Construction	11 groups 15 elements
	Optical Zoom	40x
	Focusing Range	Normal: (Wide) 50 cm ~ ∞ , (Tele) 200 cm ~ ∞ ; Macro: 1.6 cm ~ ∞ (Wide Only)
Autofocus System		TTL Autofocus
Anti-Handshake		Optical Image Stabilization
Digital Zoom		4x Digital Zoom (Combined Zoom: 160x)

Number of Recording Pixels	Still Image	(4:3) 20MP: 5184 × 3888 10MP: 3648 × 2736 5MP: 2592 × 1944 3MP: 2048 × 1536 0.3MP: 640 × 480	(3:2) 18MP: 5184 × 3456	(16:9) 15MP: 5120 × 2880 2MP: 1920 × 1080
	Movie	1920 × 1080 (30fps), 1280 × 720 (60fps/30fps), 640 × 480 (30fps), High-Speed Movie: 640 × 480 (120fps)		
Image Compression		Best, Fine, Normal		
DCF, DPOF (Ver1.1) Support		Yes		
File Format	Still Image	Exif 2.3 (JPEG)		
	Movie	MOV [Image: H.264; Audio: Linear PCM (Monaural)]		
Shooting Modes		Auto Mode, Program AE, Shutter priority , Aperture priority, Manual Mode, Face Beautifier, Wireless Mode, Scene Mode, Movie Mode, Custom Settings		
Scene Mode		Panorama Mode, Handheld Night, Multi Exposure, Pet Mode, Snow, Party, Sport, Night Portrait, Portrait, Children, Landscape, Sunset, Fireworks		
Detection Features		Face, Smile, Blink, Cat, Dog		
Photo Touch-up		Red-Eye Reduction, Skin Soften, Eye Brightening, Eye Enlargement		

HDR	Yes
Scan Panorama	Up to 360°
LCD Display	3.0 inch (460k Pixels)
Image Auto Rotation	Yes
ISO Sensitivity	Auto, ISO 100/200/400/800/1600/3200
AF Method	Single AF, Multi-AF (TTL 25-point), Object Tracking, Face-Detection
Exposure Metering Method	Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE
Exposure Control Method	Program AE (AE-Lock Available), Shutter Prior AE, Aperture Prior AE
Exposure Compensation	± 3 EV in 1/3 Step Increments
Shutter Speed	1/2000 ~ 30 Seconds
Burst Mode	Approx. 6fps (Full Resolution)
Playback Modes	Single, Index (9/16 Thumbnails), Slide Show, Date, Burst Shooting, Zoom (Approx. x2 ~ x8)
White Balance Control	AWB, Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual WB, Color Temp. (1900K ~ 10000K)

Flash	Flash Method	Pop-up (Manual)
	Flash Modes	Force Off, Flash Auto, Fill Flash, Slow Sync., Slow Sync.+Red-Eye, Red-Eye Reduction
Recording Media		Internal Memory: Approx. 15MB
		SD / SDHC / SDXC Card (Up to 512GB Support) [MMC Card not supported]
Multi-Language Support		11 Languages
Jacks		USB 2.0 (Micro 5 pin USB)
Wireless		Yes
Remote Viewfinder		Yes (via iOS/ANDROID Smart Device)
Power		AA Alkaline Battery (x4), AA NiMH Battery (x4) [Not Included]
Shooting Capability (Battery Performance)		Approx. 300 Shots of AA Alkaline Battery (Based on CIPA Standards)
Operation Environment		Temperature: 0 ~ 40°C, Humidity: 0 ~ 90%
Dimensions (W × H × D)		Approx. 114.3 × 81.6 × 84.4mm (Based on CIPA Standards)
Weight		Approx. 436g (Body Only)

Prompts and Warning Messages

Message	Description	Action
Warning! Battery exhausted.	The camera batteries are depleted. It is a warning indicating that the camera is going to shut off.	Replace the AA batteries. The camera will shut down in 2 seconds.
Lens obstruction, Re-start Camera.	The lens is jammed or some foreign object is preventing the lens from functioning properly.	Turn the camera off and restart it to reset the lens.
Suggest using tripod.	When the setting sun, multiple exposures, fireworks, night scene portrait mode is enabled, this prompt message is displayed when the photo shooting screen is displayed for the first time.	This message will disappear after 2 seconds.
Built-in memory error!	An error has occurred in the built-in memory.	Try shutting the camera off and turning it on again.

Message	Description	Action
Warning! Do not turn off your camera during update!	The message appears during the firmware update process.	The message disappears after the camera update and restart.
Battery temperature is too high.	Battery has reached a temperature that is not ideal for operation.	The message will disappear after 2 seconds. Let the battery cool before attempting to use the camera again.
Improper alignment. Please try again.	The offset is too big for panorama shooting.	Remove the message after 2 seconds and return to shooting.
Remove USB cable!!	Indicates that you can disconnect the USB cable.	The message disappears after you disconnect the USB cable.
Connection Failed!	Failure to connect to PC.	Remove cable, reinsert cable, and retry connection
Write Protect !	The memory card is locked.	Turn off camera and remove SD card. Slide tab on the side of card to unlock.

Message	Description	Action
Card Full !	The memory of the SD card is full.	Either delete photos or videos to create room on the card, or replace with another card that has available memory.
Memory Full !	The camera's internal memory is full.	Erase files or insert a memory card that has available memory.
Exceeded maximum folder number.	The folder number in the card exceeds the maximum folder number (999).	Copy the data to your PC, and format the memory card.
Card Error !	The card cannot be recognized after being formatted.	Check that the SD card is compatible with the camera.
Card is not formatted.	An error has occurred with the memory card.	Format the memory card. This will erase all data on the card; be sure to copy the data from the card onto another device if you wish to keep it.
Slow access	When a card lower than Class 10 is recording movie above HD, it may be accessed slowly and the recording will not be continued.	Replace SD card with a Class 10 or higher card.

Message	Description	Action
Cannot write to SD card.	The camera cannot write to the SD card.	Turn off the camera. Remove and reinsert the SD card and turn the camera on to try again. Check if the SD card is in a locked position, or if the memory is full.
No Picture!	There are no files on memory card or in camera.	When the files is copied to memory card, the message will disappear after 2 seconds and return to the menu screen. Remove the message after 2 seconds and return to shooting.
No continuous group file.	When the camera switches from Playback Mode to Cont. Playback Mode, and there are no continuous group files, this message will be displayed.	The message will disappear after 2 seconds and return to Thumbnail 3x3 mode.

Message	Description	Action
No Red-Eye Detected!	No red-eye is detected when selecting Red-Eye Removal in Playback Touch-up.	The message will disappear after 2 seconds and return to the Touch-up menu.
Too many pictures for fast processing.	During Playback by Date, the images exceed specifications so it is not possible to play by date.	The message will disappear after 2 seconds and return to Thumbnail 3 x 3 mode.
Unable to recognize files.	The format of the file viewed is not supported or the file is damaged and cannot be recognized properly.	This message will only disappear after the file is deleted.
Protected! Undeletable!	The file is protected and cannot be deleted.	Unlocked file under "Protect", and make sure SD card is unlocked.
This image cannot be edited.	The file format does not support editing or the edited file cannot be edited again.	The message will disappear after 2 seconds and return to the original image.

Troubleshooting

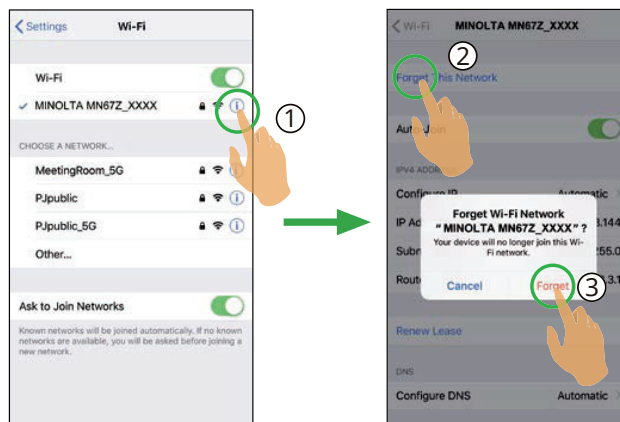
Problem	Possible causes	Solution
Camera does not turn on	■ The battery has been depleted. ■ The batteries are not inserted correctly.	■ Replace new batteries. ■ Correctly reinstall the batteries.
Camera turns off suddenly during operation	■ The batteries have been depleted.	■ Replace new batteries. ■ Make sure the camera is actually shutting off and not entering Power Save Mode, where the LCD will turn off after the camera has been idle for a period of time.
The picture is blurry	■ Camera shakes while taking a picture.	■ Turn on OIS Feature. ■ Please use tripod for high magnification (above 15X) optical zoom. If you are holding the camera, be sure to use both hands.
Images and video files cannot be saved	■ The memory card is full. ■ The memory card is locked.	■ Use another memory card or delete unnecessary files. ■ Unlock the memory card.
Saving data to memory card is slow	■ Using a memory card below Class 10 may result in slower recording times.	■ Use a memory card with Class 10 or higher to improve performance.

Problem	Possible Causes	Solution
Cannot write to the memory card	The memory card has been locked.	Release the write lock of the memory card or replace with another card.
Too many movies to process	The number of pictures or folders in the memory card exceed the specifications, so the playback of data folder can not be displayed.	Delete unwanted files.
The flash  flashes on the LCD screen.	Current shooting environment requires flash.	Turn on flash.

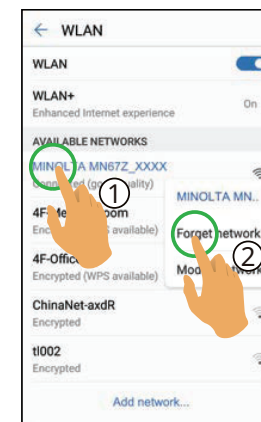


Please enter the new password on smart device after changing wireless network password. Some models of smart device will remember the wireless network password previously entered, so please clear the old password on smart device manually before connection (For different models, this operation may be varied, please subject to your user manual).

iOS System



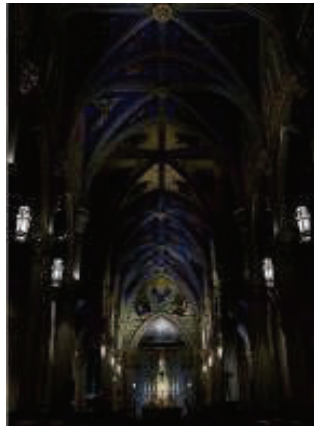
ANDROID System



HDR- High Dynamic Range

HDR captures three photos taken at different exposure levels and combines them into one photo. This optimizes all the details of the object or scene in the photo. Even the features in darker areas can be viewed clearly. (The following pictures are an example of HDR composition.)

Underexposed



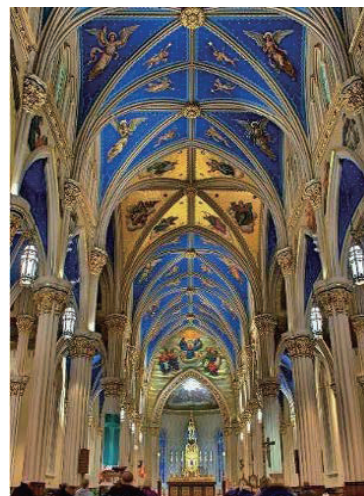
Normal exposure



Overexposed



HDR Mode





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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.



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