



DIMAGE
MN52Z



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:

These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.157 W/kg.

About this Manual

Thank you for purchasing this MINOLTA MN52Z 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 MN52Z 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.

Trademark Information

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- QR Code is a trademark of Denso Wave Inc.
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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

- Please use a battery that is the same type as the one included.
- Please use the attached charger to charge the 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.
 - If the battery overheats during charging or use, stop charging or use immediately. Turn off the product, remove the battery carefully, and wait until it cools down.
 - 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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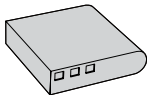
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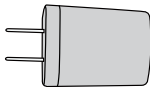
GETTING READY

Accessories Included

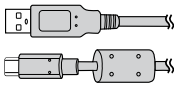
Your camera box should contain the camera model you purchased along with the following accessories. If anything is missing or appears to be damaged, please contact your retailer first or our customer service center (Based on sales in different countries or regions, the shape of the AC adapter will vary. Please subject to the actual product will prevail.)



Rechargeable
Li-ion battery



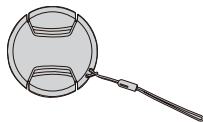
AC adapter



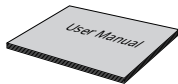
USB cable



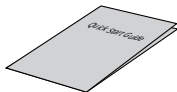
Neck strap



Lens cap with strap



User manual



Quick start guide



Warranty card

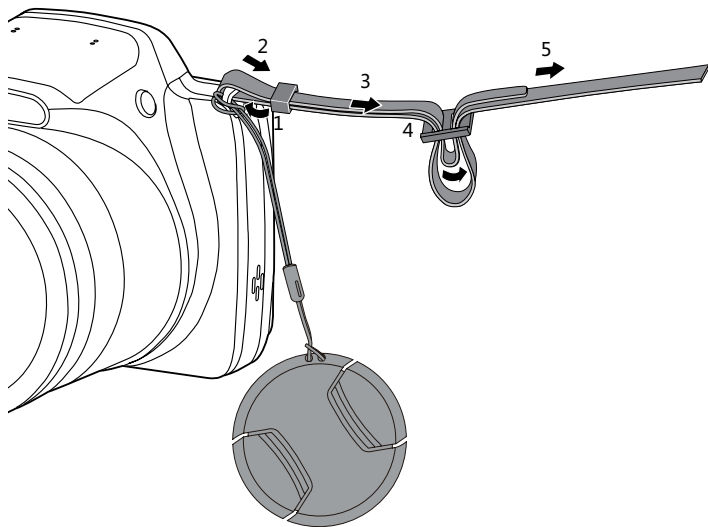


SD card

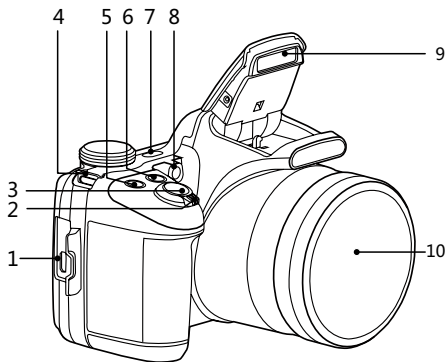


Pouch

Installing Lens Cap and Neck Strap



Button Overview



1 USB Port

2 Zoom Lever

3 Shutter Key

4 Strap Eyelet

5  Aperture Key

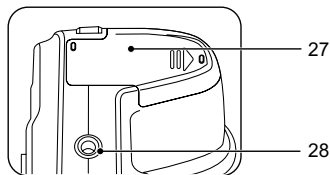
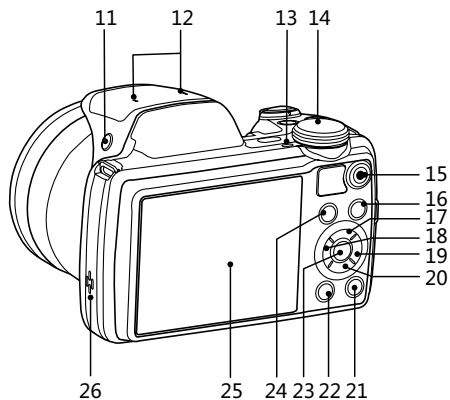
6  Burst Key

7 Power Key

8 AF Assist Beam / Self-Timer Lamp

9 Flash Lamp

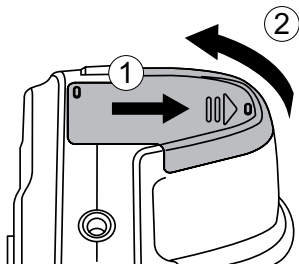
10 Lens



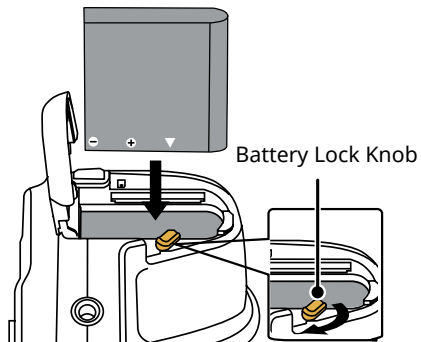
- | | | |
|------------------------------|---|-------------------|
| 11 Flash Key | 17 [DISP] Display Key / Arrow Key (Up) | 23 EV/SET Key |
| 12 Microphone | 18 [] Macro Key / Arrow Key (Left) | 24 AE-L/AF-L Key |
| 13 Indicator Lamp | 19 [] Flash Key / Arrow Key (Right) | 25 LCD |
| 14 Mode Dial | 20 [] Delete Key / Self-timer Key / Arrow Key (Down) | 26 Speaker |
| 15 Fast Video Recording Key | 21 Playback Key | 27 Battery Cover |
| 16 C1 Key | 22 Menu Key | 28 Tripod Socket |

Installing the Battery and SD Memory Card

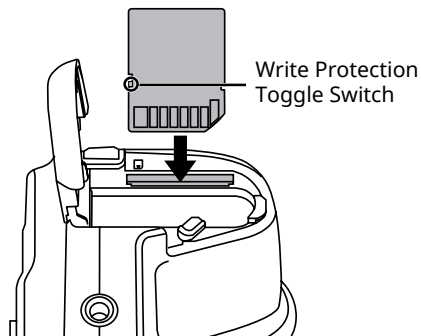
1. Open the battery cover door.



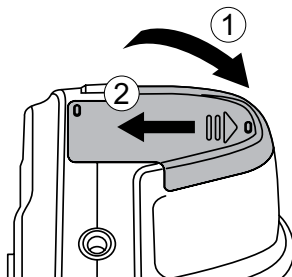
2. Insert the battery into the battery compartment according to the negative and positive directions as illustrated in the picture. Push the battery down until it locks in place.



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



4. Close the battery door cover.

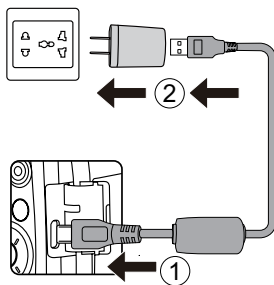


 To remove your memory card, open the battery cover door, gently press the memory card to eject it and remove it carefully.

Charging the Battery

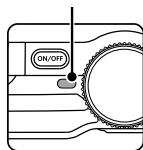
Before you charge the battery, you should turn the camera off and properly insert the battery. Otherwise, there will be no charging prompts after connecting the AC adapter.

1. Connect the camera to the power charger using the supplied USB cable.
2. Insert the plug of the power charger into the power outlet to charge the battery.



Use the supplied power charger to charge the battery prior to use.

Indicator Lamp



Charging indicator:

Steady orange: Charging

Steady green: Charging complete

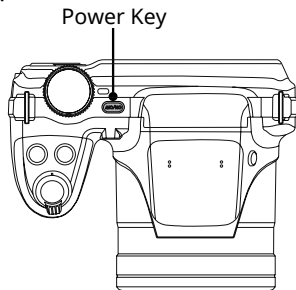
To maximize battery life, charge the battery for at least 4 hours the first time.



Please charge the battery indoors between 0°C and 40°C (32°F and 104°F).

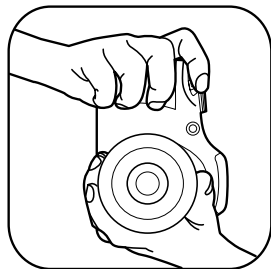
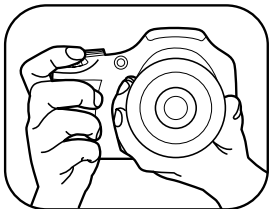
Turning Camera On and Off

Press the Power key to turn the camera on. To turn the camera off, press the Power key again.



When the power is off, press and hold the playback key (⏮) 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 Key halfway to focus on the subject. When the focus frame turns green, press the Shutter Key down completely to take the picture.

Set your Language, Region and Time

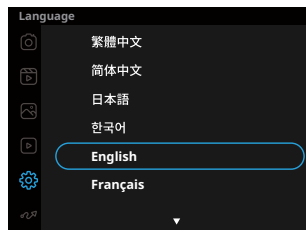
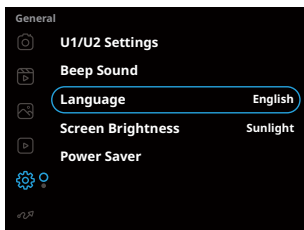
Set your Language, Region and Time after the First Power-On

1. When you turn the camera on for the first time, the language selection screen appears.
2. Press the [ DISP] / [  ] keys to select your desired language.
3. After you press the  key to confirm your language selection, the [Set Time] settings screen will appear.
4. Press the [ ] / [ ] keys to select [Region] / [Daylight] and press the  key to confirm. Press the [ DISP] / [  ] keys to select an option and press the  key to confirm.
5. Press the [ ] / [ ] keys to select [Region], press the [ DISP] / [  ] keys to select the [Date/Time] and press the  key to enter the menu. Press the [ ] / [ ] keys to select the adjustment block: This information is displayed in YYYY.MM.DD/HH:MM. Press the  key to confirm.
6. Press the [ DISP] / [  ] keys to adjust the value for the desired Date/Time. Press the  key to confirm. Press the [  ] key to select [Confirm] and press the  key to confirm.
7. Press the [  ] key to select [Confirm], press the  key to confirm 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.

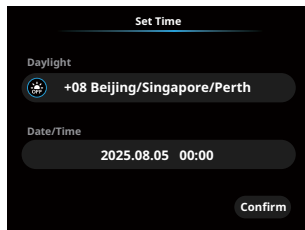
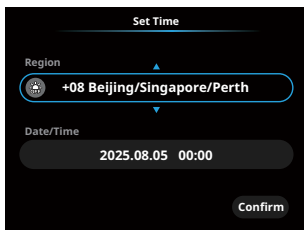
1. Press the  key and select , press the  key to enter the menu.
2. Press the [ **DISP**] / [ ] keys to select  and press the  / [ ] key twice to enter the menu.
3. Press the [ **DISP**] / [ ] keys to select [Language] and press the  / [ ] key to enter the menu.
4. Press the [ **DISP**] / [ ] key to select your desired language and press the  key to confirm.
5. Press the  key and the shooting screen will appear.



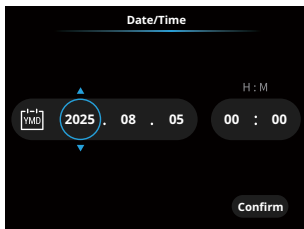
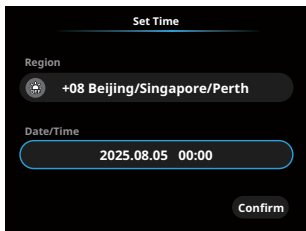
Resetting Region and Time

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

1. Press the  key and select , press the  key to enter the menu.
2. Press the [ DISP] / [ ] keys to select  and press the  / [ ] key twice to enter the menu.
3. Press the [ DISP] / [ ] keys to select [Set Time] and press the  / [ ] key to enter the menu.
4. Press the [ ] / [ ] keys to select [Region] / [Daylight] and press the  key to confirm. Press the [ DISP] / [ ] keys to select an option and press the  key to confirm.



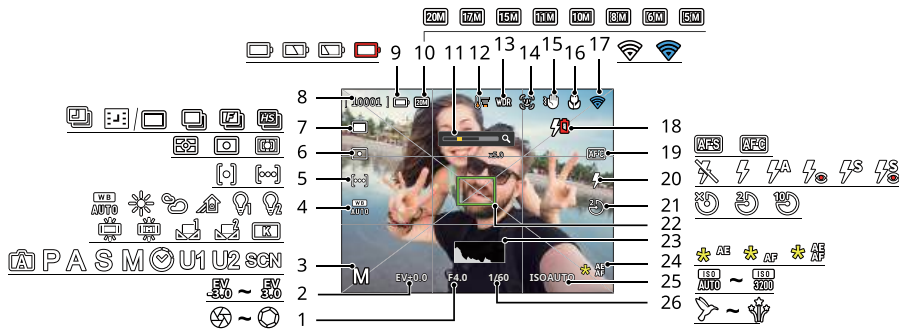
5. Press the [◀🌸] / [▶⚡] keys to select [Region], press the [▲DISP] / [▼🗑] keys to select the [Date/Time] and press the (EV SET) key to enter the menu. Press the [◀🌸] / [▶⚡] keys to select the adjustment block: This information is displayed in YYYY. MM.DD/HH:MM. Press the (EV SET) key to confirm.
6. Press the [▲DISP] / [▼🗑] keys to adjust the value for the desired Date/Time. Press the (EV SET) key to confirm. Press the [▼🗑] key to select [Confirm] and press the (EV SET) key to confirm.



7. Press the [▼🗑] key to select [Confirm] and press the (EV SET) key to confirm.
8. Press the (📷) key to confirm the time settings and the shooting screen will appear.

LCD DISPLAY

Overview of the Screen Icons in Shooting Mode



1 Aperture Value	8 Number of Remaining Shots	15 OIS	22 Focus Frame
2 EV Value	9 Battery Status	16 Macro Mode	23 Histogram
3 Shooting Mode	10 Image Size	17 Wireless Status	24 AEL&AFL Lock
4 White Balance	11 Zoom Display	18 Flash Charging Status	25 ISO Value
5 Focus Area	12 High Temperature Warning	19 AF Mode	26 Shutter Speed
6 Exposure Metering	13 WDR	20 Flash	
7 Burst	14 Face Detection	21 Self-timer	

Overview of the Screen Icons in Movie Mode



1	Movie Mode	7	Battery Status	13	Anti-shake
2	White Balance	8	Video Size	14	Wireless Status
3	Focus Area	9	Frames	15	Cont.AF
4	Exposure Metering	10	Zoom Display	16	Force Off (Flash)
5	WDR Video	11	High Temperature Warning	17	Self-timer
6	Maximum Record Time	12	Face Detection	18	AEL&AFL Lock

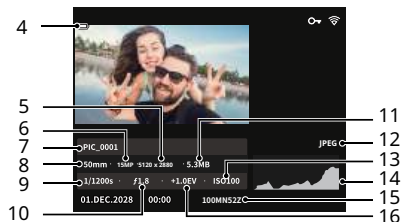
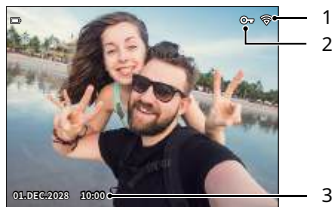


To achieve the optimal video recording and photo-taking experience, it is recommended to use an SDHC or SDXC Class 10 or higher storage card.



Optical Zoom and Digital Zoom can be adjusted (208X in total). Digital Zoom can be adjusted to 4X.

Overview of the Screen Icons in Playback Mode

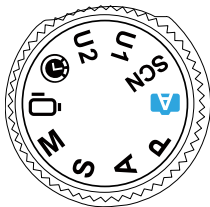


1 Wireless Status	7 File Name	13 ISO Value
2 File Protection	8 Focal Length	14 Histogram
3 Capture Date and Time	9 Shutter Speed	15 Folder
4 Battery Status	10 Aperture Value	16 EV Value
5 Resolution	11 File Size	
6 Image Size	12 File Format	

BASIC OPERATION

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.

Auto

The camera automatically adjusts the exposure and focus to ensure the best possible pictures.

Landscape

For landscapes, the camera automatically adjusts the exposure to match the background.

Portrait

Most suitable for capturing people with focus on their faces.

Night Portrait

When you take portraits at night or in low light conditions, the camera automatically adjusts the exposure for people and night scenes.

Backlit Portrait

When the sun or any other light source is behind you, the camera automatically adjusts the foreground exposure to produce the best pictures possible.

Night Landscape

For night scenes, the camera automatically increases the ISO value to compensate for low light.

Macro

The macro setting is ideal for shooting small objects or close-up photos.

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.

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.

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.

Manual Mode **M**

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

Movie Mode

Switch to this mode to record videos.

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

Time-lapse Mode

Time-lapse Photo

Capture photos at the selected interval.

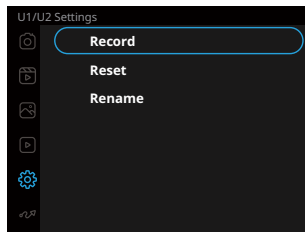
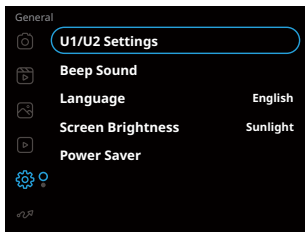
Time-lapse Video

A time-lapse video combines images automatically captured at specified intervals.

U1/U2 (User Define) U1 / U2

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

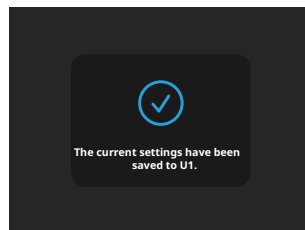
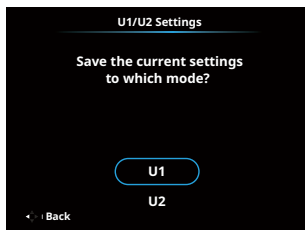
1. Select any mode to be stored. Set your desired parameters in the current mode.
2. Press the  key, press the [▲ DISP] / [▼  ] keys to select  and press the  key to enter the menu.
3. Press the [▲ DISP] / [▼  ] keys to select  and press the  / [► ] key twice to enter the menu.
4. Select [U1/U2 Settings] and press the  / [► ] key to enter the menu.



Record

Save the current mode and parameters in U1 or U2 mode.

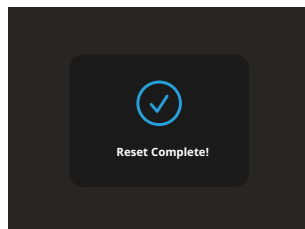
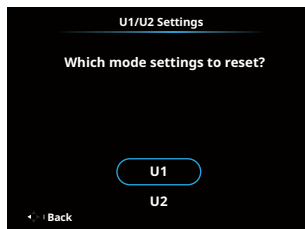
5. Select [Record] and press the  / [► ] key to confirm. Press the [▲ DISP] / [▼  ] keys to select [U1] or [U2] and press the  key to confirm.



Reset

Reset the parameters in U1 or U2 mode.

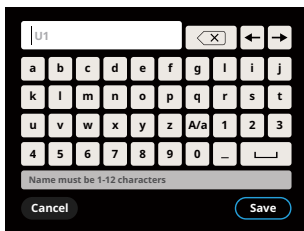
- Press the [▲ DISP] / [▼ ⏻] keys to select [Reset] and press the  / [► ⚡] key to confirm. Press the [▲ DISP] / [▼ ⏻] keys to select [U1] or [U2] and press the  key to confirm.



Rename

Re-enter the U1 or U2 mode name. The mode name can be a combination of numbers and/or letters. It can be up to 12 characters.

7. Press the [**▲ DISP**] / [**▼** ] keys to select [Rename] and press the  / [**▶ ⚡**] key to confirm. Press the [**▲ DISP**] / [**▼** ] keys to select [U1] or [U2] and press the  key to confirm.



Meanings of Interface Icons	
	Delete the last letter
	Switch the display of letters in capital and lowercase
	Move the cursor
	Input space

8. After re-entering the U1 or U2 mode name, select [Save] / [Cancel] and press the  key to confirm.
9. Turn the Mode Dial to switch to the **U1 / U2** and press the  key to enter the shooting screen.

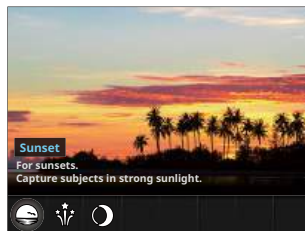
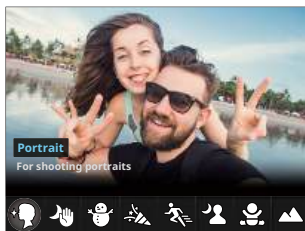


When the **U1 / U2** mode is used for the first time, it defaults to **M** Mode and its parameters.

Scene Mode SCN

You can select an appropriate mode from the 11 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** and press the EV SET key to confirm.
2. Press the INFO key highlight Select Scene and press EV SET key to enter scene selection.
3. Press the [$\blacktriangleleft$ 🌸] / [$\blacktriangleright$ ⚡] keys to select a scene and press the EV SET key to confirm.



4. If any need of changing the scene, please press the INFO key and select 🌸 , press the EV SET key. Finally the [$\blacktriangleleft$ 🌸] / [$\blacktriangleright$ ⚡] keys to reselect the scene.

Portrait

For shooting portraits.

Handheld Night

Reduce Blur caused by camera shake in low light conditions.

Snow

Reduces underexposure when shooting in snowy conditions.

Party

Capture clear images at night without a tripod.

Sports

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

Night Portrait

For portraits against night time scenery.

Children

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

Landscape

Speed adjusted for brilliant images.

Sunsets

For sunsets. Captures subjects in strong sunlight.

Fireworks

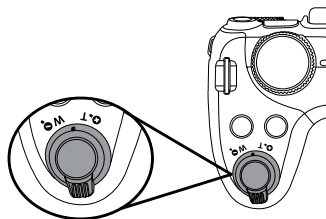
For fireworks at night. Slow shutter speed adjusted for brilliant images.

Moon

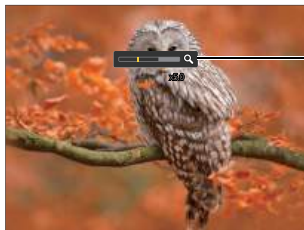
Capture detailed images of the moon's surface, even when shooting handheld.

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



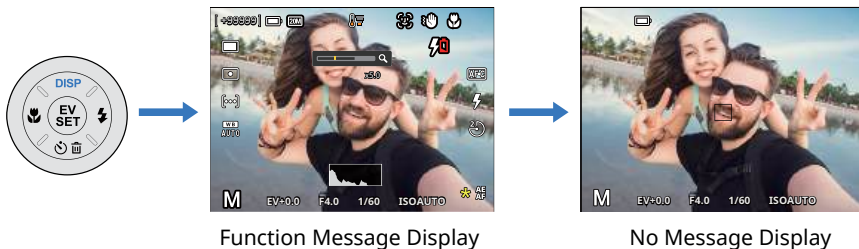
Zoom Indicator

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 DISP Key

By pressing the [**▲ DISP**] (Display) key, you can change the content displayed on the screen during shooting and playback. The display switches each time as the [**▲ DISP**] key is pressed.

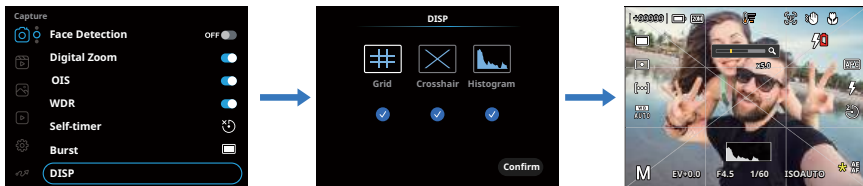
During shooting



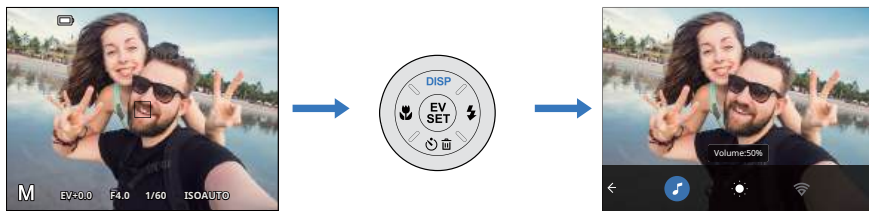
If you want to display grid and histogram, you need to check them via the following procedure:

1. In each mode, press the **(MENU)** key and select **(Grid)**. Press the **(EV SET)** key to enter the Main Menu, select **(Camera)** and press the **(EV SET)** key to confirm.
2. Press the [**▼** **(Grid)**] key twice and press the **(EV SET)** / [**▶** **(Lightning Bolt)**] key twice to enter the menu.
3. Select [DISP] and press the **(EV SET)** / [**▶** **(Lightning Bolt)**] key to enter the menu.
4. Press the **(EV SET)** key to check or cancel the options. Press the [**▼** **(Grid)**] key to select [Confirm] and press the **(EV SET)** key to confirm.

5. Press the  key and the shooting screen will appear.



Quick calls



Press the [] / [] keys to select the item you want to set and press the  key to set. When the setting is complete, press the [] key to return the shooting screen.

-  : Turn sound volume off/on. (The volume level can be set in the [Beep Sound] menu on the page 83)
-  : Select power saver or other screen brightness value (Brightness values can be set in the [Screen Brightness] menu on the page 84)
-  : Turn your wireless network off/on.

During playback (▶)

Press the  key to display the playback screen, press the [ DISP] key to switch among 3 screens.

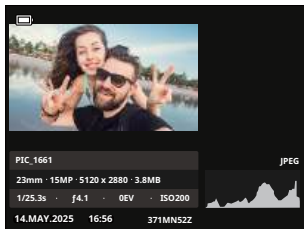
Function Message Display



No Message Display



Detailed Message Display



Using the Macro Key

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.



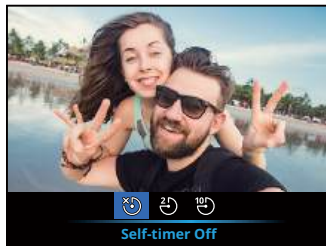
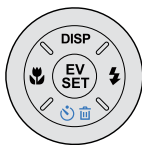
-  Macro On
Select this option to focus on the object closer to the lens (At the W side, the shooting distance should be more than 1 cm).
-  Macro Off
Select this option to disable macro.

Macro Key Setting

If you assign frequently used functions to the Macro Key ([◀ ]) in advance, you can quickly call up those functions simply by pressing the key in the shooting screen. (See page 50-51)

Using the Self-timer Key

Using this function to take pictures at pre-set intervals. The camera can be set to shoot after pressing the Shutter Key 2 seconds or 10 seconds.



-  **Self-timer Off**
Disables the Self-timer.
-  **Self-Timer (2s)**
A single picture is shot 2 seconds after the Shutter Key is pressed.
-  **Self-Timer (10s)**
A single picture is shot 10 seconds after the Shutter Key is pressed.



The self-timer settings will remain in effect after shooting. Self-timer mode can be turned off by turning the camera off and then on again.

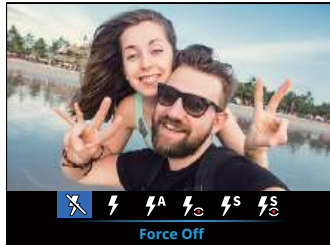
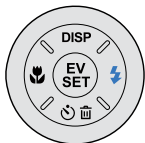
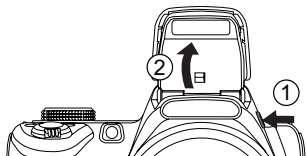


When enabling the Self-timer, pressing the Shutter Key or the [▼ ⏏] key can disable the Self-timer and return to the shooting screen while keeping the Self-timer setting.

Using the Flash Key

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.

Press the Flash Key  to pop up the flash.



-
-  **Force Off**
Flash is turned off.
 -  **Flash On**
The flash goes off when a picture is taken, supplementing the existing light in a scene and helping to eliminate shadows.
 -  **Auto Flash**
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.
 -  **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 Reduction**
Use this mode for slow synchrony shots with red-eye reduction.

Flash Key Setting

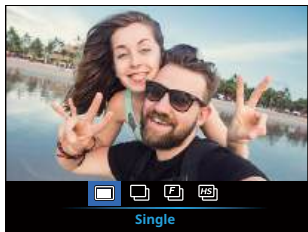
If you assign frequently used functions to the Flash Key ([► ⚡]) in advance, you can quickly call up those functions simply by pressing the key in the shooting screen. (See page 50-51)



When the flash is activated, Burst Shot and WDR functions are disabled.

Using the Burst Key

Use this setting to perform continuous shooting. After entering this mode, you can shoot multiple images by continuously holding the Shutter Key down.



-  Single
Capture a single shot only.
-  Burst Shot
For taking more than one picture continuously.
-  Fast Burst
For continuous shot with 4M pixel.
-  High Speed Burst
For continuous shot with 2M pixel.

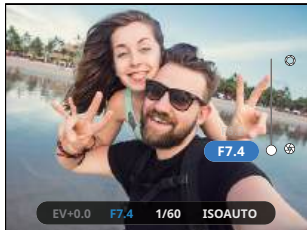
Burst Key Setting

If you assign frequently used functions to the Burst Key () in advance, you can quickly call up those functions simply by pressing the key in the shooting screen. (See page 50-51)

Using the Aperture Key

The EV function menu of the camera includes functions, such as Aperture Adjustment, EV (Exposure Value) Adjustment, ISO, Shutter Adjustment. Using the appropriate function settings can improve your pictures.

1. Press the  /  key to display the settings screen.



2. Press the [ ] / [ ] keys to select the Setting options.
3. Press the [ DISP] / [  ] keys to adjust the option values.
4. Press the  key to complete the setting and enter shooting screen.

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.

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. Use a higher ISO value in darker places and a lower value in brighter conditions.

Options of ISO value: Auto (100~1600), 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.

Options in the shooting mode (O: Available X: Automatically displayed, not available)

Options \ Mode	P	A	S	M					SCN	
										Others
Aperture	X	O	X	O	X	X	X	X	X	X
Shutter	X	X	O	O	X	X	X	X	X	X
EV	O	O	O	X	O	O	O	X	O	X
ISO	O	O	O	O	O	O	X	X	X	X



If each option is available in the mode set to **U1** / **U2**, the option is available in **U1** / **U2** mode; otherwise, it is not available.

Using the AE-L/AF-L Key

Press the  key to lock the focus / exposure and press the  key again to remove this lock.



-  **AE**: AE-lock
When the contrast between the subject and background is high, meter the light at a spot where the subject appears to have the appropriate brightness and lock the exposure before shooting. To reduce the brightness of the subject, meter the light at a spot brighter than the subject and lock the exposure of the entire screen. To make the subject brighter, meter the light at a spot darker than the subject and lock the exposure of the entire screen.
-  **AF**: AF-lock
When you focus on the subject, half-press the Shutter Key to focus, then press the  key to lock the focus. Switch to the desired composition and press the Shutter Key all the way down to take the picture.
-  **AE&AF**: AEL&AFL
Lock focus and exposure at the same time.

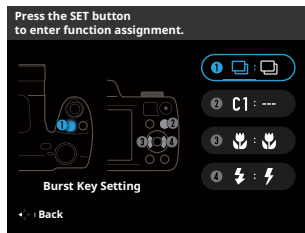
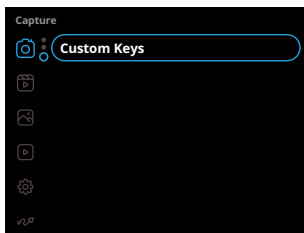
Using the C1 Key

If you assign frequently used functions to the C1 Key () in advance, you can quickly call up those functions simply by pressing the key in the shooting screen.

Custom Keys Settings

You can set and check the functions assigned to each custom key via the following procedure:

1. Press the  key and select . Press the  key to enter the Main Menu, select  and press the  key to confirm.
2. Press the [  ] key twice and press the  / [ ] key to enter the menu.
3. Press the [ **DISP**] / [  ] key to select [Custom Keys] and press the  / [ ] key to enter the menu.



4. Press the [ **DISP**] / [  ] keys to select the key to set and press the  key to enter the menu.

5. Press the [▲ DISP] / [▼  ] keys to select the options and press the  key to confirm.

Custom Keys	Default	Configurable functions		
Burst Key	Burst	Unassigned	AEL&AFL	OIS
C1 Key	Unassigned	Aperture	WB	Flash
		Shutter	Focus Area	Burst
Flash Key	Flash	EV	AF Mode	WDR
		ISO	Macro	Self-timer
Macro Key	Macro	Exposure Metering	Face Detection	Photo Size

6. Press the  key and the shooting screen will appear.

7. Press the corresponding button to quickly enter the selected menu screen. Press the [◀ ] / [▶ ] keys to select the option and press the  key to confirm.

Using the Menu Key

Modes:  **P** **A** **S** **M**   **U1** **U2** **SCN**

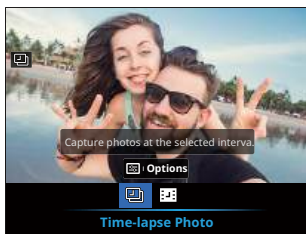
1. In each mode, press the  key to enter the Function Menu.

-  [Menu](#)
-  [Burst](#)
-  [Time-lapse Photo & Time-lapse Video](#)
-  [WDR Video](#)
-  [Exposure Metering](#)
-  [Focus Area](#)
-  [WB](#)
-  [AF Mode](#)
-  [Flash](#)
-  [Self-timer](#)

 Different features are enabled for each mode, please refer to page 59 of this manual for details.

2. Press the [ **DISP**] / [  ] / [ ] / [ ] keys to select the function to be set and then press the  key to confirm.
3. Press the [ ] / [ ] keys to select options of the function to be set and then press the  key to confirm.

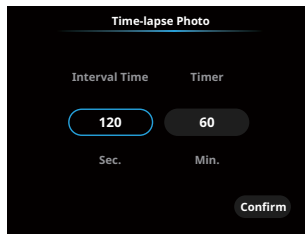
Time-lapse Photo & Time-lapse Video



Time-lapse Photo

Time-lapse Video

A time-lapse video combines images automatically captured at specified intervals.

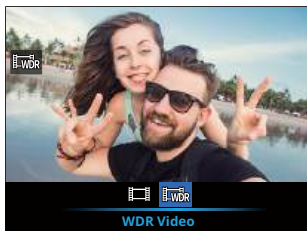


Press the  key to enter the menu. Press the [] / [] keys to select the item to set and press the [ DISP] / [ EV SET] keys to select a value. Press the  key to confirm.

-  Time-lapse Photo
Capture photos at the selected interval.
Interval Time: 1~120 Sec.
Timer: Off, 15Min., 30 Min., 60 Min.
-  Time-lapse Video
A time-lapse video combines images automatically captured at specified intervals.
Interval Time: 1~120 Sec.
Timer: Off, 15Min., 30 Min., 60 Min.
Video Segment: 3 Sec., 5 Sec., 10 Sec.

WDR Video

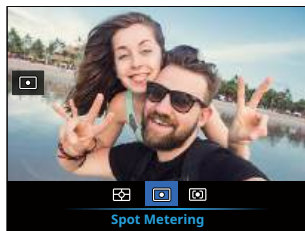
Active wide dynamic range in Movie Mode ().



-  Normal Video
-  WDR Video

Exposure Metering

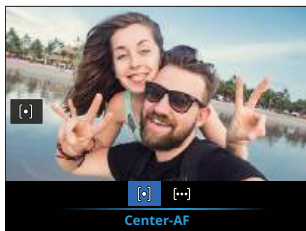
Use this setting to select the “target” size of the camera’s field of view to be metered.



-  Average Metering
Evaluates the light intensity at multiple points in the frame and automatically determines the best value for the light meter.
-  Spot Metering
For metering the block displayed in the center of the screen.
-  Center Metering
For metering the object in the center of the screen.

Focus Area

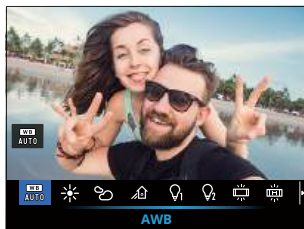
In different photo shooting modes, you can select different focus methods.



-  **Center-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.

WB

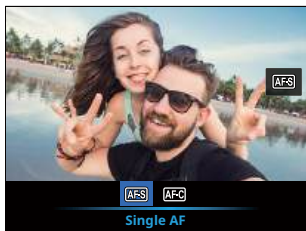
The white balance function allows adjustment of the color temperature for different light sources.



- AWB
 - Daylight
 - Cloudy
 - Shade
 - Incandescent(warm)
 - Incandescent(cool)
 - Fluorescent(warm)
 - Fluorescent(cool)
 - Manual WB1
 - Manual WB2
- Set WB according to the current light source, press the key to set.
- Color Temp. (1900K~10000K)
- Press the key to enter the Press the [DISP] / [] key to adjust the color temperature value. Press the key to confirm.

AF Mode

Selects the focus method to suit the subject.



-  **Single AF**
Locks the focus once focusing is complete. Use this when the subject is motionless.
-  **Cont.AF**
Continues focus. Use this when the subject is in motion.

Using the Fast Video Recording Key

In photo shooting mode, press the  key to begin recording video. Once you are finished, press the  key again to stop recording. The camera will save the video and return to the shooting screen.



During recording, if the camera temperature is too high (above 158° F/70° C), a recording interruption may occur and a message "Temperature Too High! The camera needs to rest for a while before it can be used again." pops up on the screen.

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

Options	Shooting Modes																		
		P	S	A	M				SCN										
																			
	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	X	O	O	O	O	X	X	X	O	X	O	O	O	X	O	X	X	O	X
	X	X	X	X	X	X	O	O	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X
	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	X	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X
	X	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X
	X	O	O	O	O	X	O	X	O	O	O	O	O	O	O	O	O	O	O
	X	O	O	O	O	X	X	X	O	X	O	O	X	X	X	X	O	X	X
	O	O	O	O	O	O	O	O	O	O	O	O	X	O	X	O	O	O	O
	X	O	O	O	O	O	O	O	O	X	X	O	X	X	X	X	X	X	X



If each option is available in the mode set to **U1 / U2**, the option is available in **U1 / U2** mode; otherwise, it is not available.

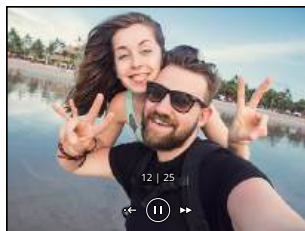
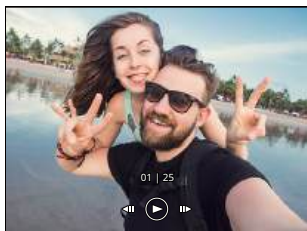
Using Playback Key

Viewing Photos and Videos

For viewing taken photos and videos on the LCD:

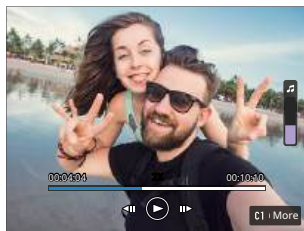
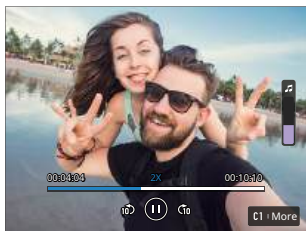
1. After pressing the  key, the last photo or video clip taken will be displayed on the LCD.
2. Press the [] / [] keys to scroll through the photos or video clips stored in the built-in memory or on the Memory Card.
3. To play a selected video clip, press the  key to enter the movie playback mode.

An operation guide appears on the screen when playing back a burst file. Press the appropriate keys to enable the corresponding functions.



Paused		Under Playback	
Key/Icon	Description	Key/Icon	Description
 	Frame backward	 	Return back to the beginning of the video
 	Play with 8 fps	 	Pause
 	Frame forward	 	Fast playback with 12 fps

An operation guide appears on the screen when playing back a video. Press the appropriate keys to enable the corresponding functions.



Under Playback		Paused	
Key/Icon	Description	Key/Icon	Description
 	Rewind 10s	 	Frame backward
 	Pause	 	Play
 	Fast forward 10s	 	Frame forward
  	Decrease volume (Mute)	 AF 	Increase volume

 Long press the [] / [] keys to play the video at double speed under Playback.

 Press the  key or  key to exit the playback screen and return to the single playback screen.

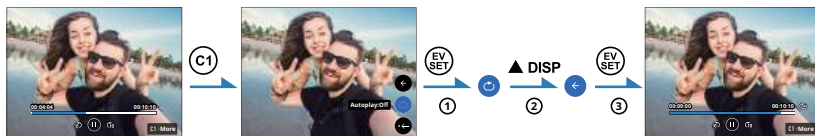
Screenshot under paused:



Replay under playback:

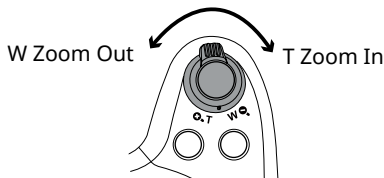


Auto play under playback:

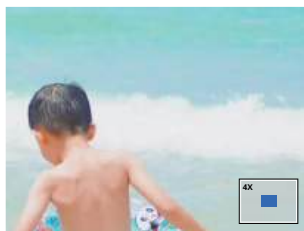


Using Zoom Playback (for still pictures only)

When playing back photos, you can use the Zoom Lever to zoom in the photos 2 to 8 times or press the  key to zoom in the photos 2 times.



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



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



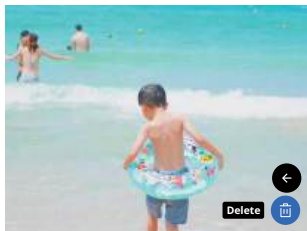
Movie images cannot be magnified.

Deleting a Photo or Video

In Playback Mode, press the [▼ ◯] key to delete photos and videos.

To delete photos or videos:

1. Press the [◻] key to switch to playback mode.
2. Press the [◀] / [▶] keys to select the photos or videos to be deleted.
3. Press the [▼ ◯] key and the deletion screen is displayed.



4. Press the [▲ DISP] / [▼ ◯] keys to select [Delete] or [Back] and press the [EV SET] key to confirm.



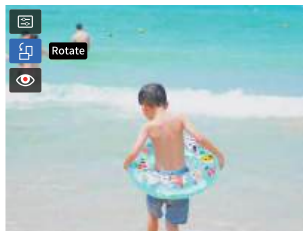
Erased photos/video clips cannot be recovered.



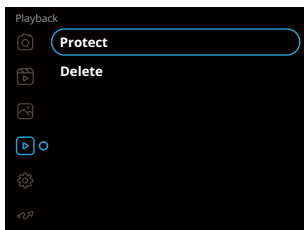
Please refer to page 82 for instructions on deleting more than one image at a time.

Single playback

1. Press the [◻] key to switch to playback mode.
2. Press the [◀] / [▶] keys to select the photos or videos you want.
3. Press the [◻] key to show/hide the playback Fn menu, press the [▲ DISP] / [▼ ◯] keys to select a Fn menu and press the [EV SET] key to confirm.

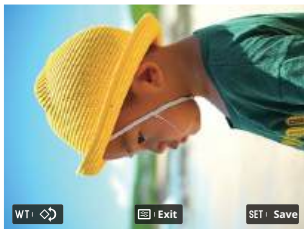


■ Menu



Press the  key to return to the single playback screen.

■ Rotate



1. When the Zoom Lever is toggled to the **W**  end, the photo rotates counterclockwise; When the Zoom Lever is toggled to the **T**  end, the photo rotates clockwise.
2. Press the  key to save it and overwrite the original.
3. Press the  key to return to the single playback screen.



Movie files or protected photos cannot be rotated.

■ Red-Eye Reduction

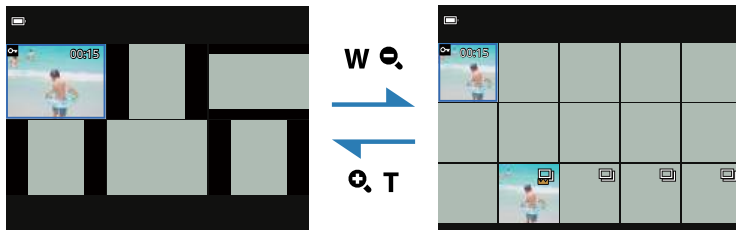
You can use this setting to reduce the red-eye of the picture.



Select  and press the  key to confirm.

Index playback

1. Press the  key to switch to playback mode.
2. Slide the Zoom Lever to the **W**  position to display thumbnail images of the photos and videos on the screen.
3. Slide the Zoom Lever to switch between 3 x 2 and 5 x 3 thumbnails.



 Press the [ DISP] / [ ] / [ ] / [ ] keys to select a picture or video clip to view and press the  key to return to the single playback.

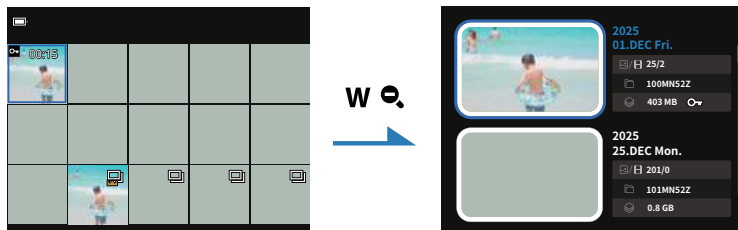
 Icon/Description:

 : Protected file

 : Burst group

 : First image in burst group

4. When a 5 x 3 thumbnail is displayed, slide the Zoom Lever to switch to **W**  to display the Date albums.

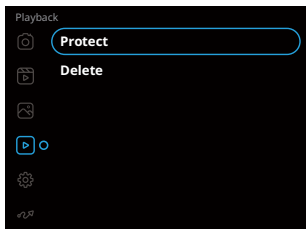


-  Press the [**▲ DISP**] / [**▼** ] keys to select a date folder. Press the **(EV SET)** key to enter the playback of the date folder's first image.

5. Press the **(E)** key to show/hide items, press the [**◀** ] / [**▶** ] keys to select an item.



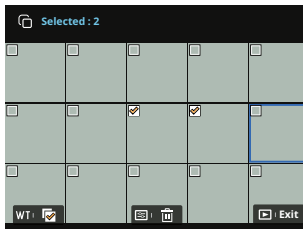
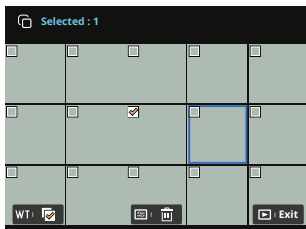
■ Menu



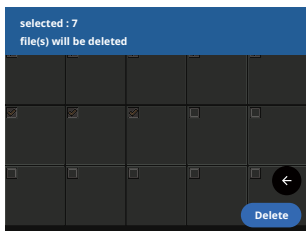
Press the  key to enter the menu, press the  key to return to the index playback screen.

■ Delete: Multi

1. Press the  key to enter the Multiple-selection screen.
2. Press the  /  /  /  /  keys to select the desired file. Press the  key to confirm or uncheck it.
You can also select the files by sliding the Zoom Lever.

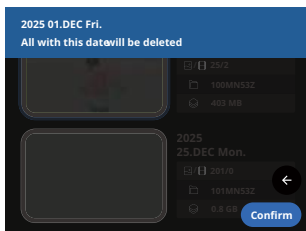


3. After selecting the desired file(s), press the  key to enter the delete screen.
Select [Delete] to delete the files or select  [Back] to return to the Multiple-selection screen.



■ Delete: Date

- Press the  key to enter the delete screen of Date albums.
Select [Confirm] to delete the Date folder or select  [Back] to return to the Date albums screen.



USING THE MAIN MENU

Mode:  **P** **A** **S** **M**   **U1** **U2** **SCN**

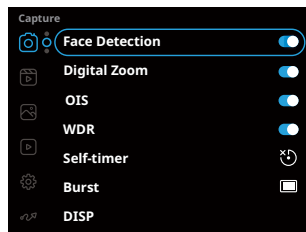
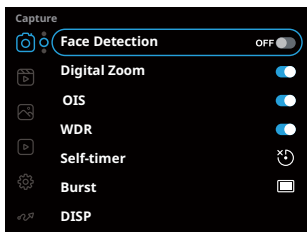
1. In each mode, press the  key and select . Press the  key to enter the Main Menu.
 -  [\[Capture\] Menu](#)
 -  [\[Video\] Menu](#)
 -  [\[Photo\] Menu](#)
 -  [\[Playback\] Menu](#)
 -  [\[General\] Menu](#)
 -  [\[Media\] Menu](#)
2. Press the [ **DISP**] / [ ] keys to select the menu to be set and press the  / [ ] key to confirm.
3. Press the [ **DISP**] / [ ] keys to select the item to be set and press the  key to confirm.
4. Press the [ **DISP**] / [ ] keys to select an option and press the  key to confirm.

Capture Menu

There are the following options in the [Capture] Menu:

- [ISO](#)
- [Exposure Metering](#)
- [AEL&AFL](#)
- [WB](#)
- [Focus Area](#)
- [AF Mode](#)
- [Macro](#)
- [Face Detection](#)
- [Digital Zoom](#)
- [OIS](#)
- [WDR](#)
- [Self-timer](#)
- [Burst](#)
- [DISP](#)
- [Custom Keys](#)

Press the  / [ ] key to turn the functions on or off.



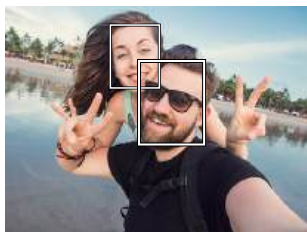
Digital Zoom

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

Face Detection

Detects and focuses on faces to make all faces as clear as possible in Photo Mode.

1. Hold the camera steadily and then focus on the object to detect its face. A focus frame will appear at the face on the screen when a face is detected.



2. Press the Shutter Key half-way down to focus. The LCD will show a green focus frame when the subject is in focus.



3. Press the Shutter Key all the way down to take pictures.

OIS (Optical Image Stabilization)

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

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

WDR (Wide Dynamic Range)

When the camera detects that there is a big contrast in brightness between scenes and such scenes are against the light, it will automatically adjust the brightness and saturation to capture an image that better represents the scene.



When the WDR is activated, Flash and WB functions are disabled.

Options of the [Capture] Menu in the shooting mode (O: Available X: Unavailable)

Options	Shooting Modes																	
		P	S	A	M				SCN									
ISO	X	O	O	O	O	X	O	X	X	X	X	X	X	X	X	X	X	X
AEL&AFL	O	O	O	O	X	O	O	O	O	O	O	O	O	O	O	O	O	O
Digital Zoom	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Face Detection	X	O	O	O	O	O	O	O	O	X	X	X	X	O	O	X	X	X
OIS	X	O	O	O	O	X	X	O	X	X	X	X	X	X	X	X	X	X
WDR	X	O	O	O	O	O	X	X	O	O	X	O	X	O	X	X	O	X
DISP	O	O	O	O	O	X	O	X	O	O	O	O	O	O	O	O	O	O
Custom Keys	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O



If each option is available in the mode set to **U1 / U2**, the option is available in **U1 / U2** mode; otherwise, it is not available.



For other options of the [Capture] Menu, please refer to page 59 of this manual.

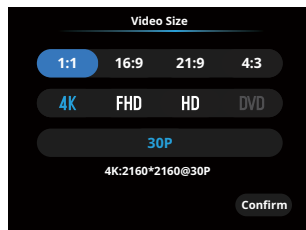
Video Menu

There are the following options in the [Video] Menu:

- [Video Size](#)
- [Video Bitrate](#)
- [Time-lapse Video](#)
- [Video Format](#)
- [Anti-shake](#)

Video Size

Set the image resolution used during video recording.



- 4K 1: 1 2160 x 2160 30 fps
 16: 9 3840 x 2160 30 fps
 21: 9 3840 x 1648 30 fps
- FHD 1: 1 1080 x 1080 60/30 fps
 16: 9 1920 x 1080 60/30 fps
 21: 9 1920 x 824 60/30 fps
- HD 1: 1 720 x 720 60/30 fps
 16: 9 1280 x 720 60/30 fps
 21: 9 1280 x 548 60/30 fps
- DVD 4: 3 640 x 480 240/120 fps

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	No.	Image Pixels	Frames	Recording Time (32GB) About
1	3840 x 2160	30	127 minutes	10	1280 x 548	60	573 minutes
2	3840 x 1648	30	127 minutes	11	1280 x 548	30	1146 minutes
3	2160 x 2160	30	127 minutes	12	1080 x 1080	60	254 minutes
4	1920 x 1080	60	254 minutes	13	1080 x 1080	30	509 minutes
5	1920 x 1080	30	509 minutes	14	720 x 720	60	573 minutes
6	1920 x 824	60	254 minutes	15	720 x 720	30	1146 minutes
7	1920 x 824	30	509 minutes	16	640 x 480	120	845 minutes
8	1280 x 720	60	573 minutes	17	640 x 480	240	422 minutes
9	1280 x 720	30	1146 minutes				



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



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.



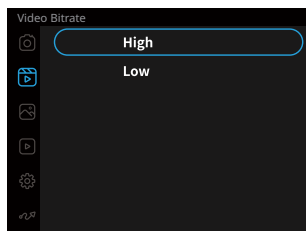
When the video format is set as 640 x 480 120fps, the shooting time is 30 seconds and the playback time is 2 minutes; When the video format is set as 640 x 480 240fps, the shooting time is 30 seconds and the playback time is 4 minutes.



Sound recording is disabled when 640 x 480 (120fps/240fps) is chosen.

Video Bitrate

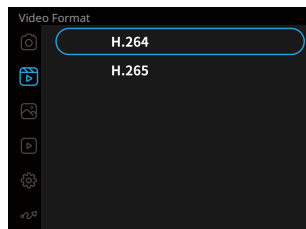
Configure the appropriate video bitrate based on the video format.



- High: Record high-definition videos.
- Low: Record a standard definition video.

Video Format

Select a format for your video.



Anti-shake

This mode can help reduce photo blur caused by shakiness of hands, low light and/or slow shutter speed.

-  Use Anti-shake mode in dark environments or when using a slower shutter speed.
-  Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurry images.

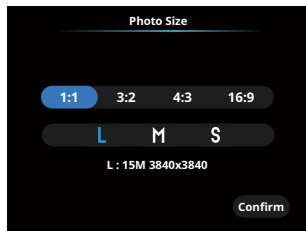
Photo Menu

There are the following options in the [Photo] Menu:

- [Photo Size](#)
- [Quality](#)
- [Preview](#)
- [AF Assist Beam](#)
- [Time-lapse Photo](#)

Photo 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.



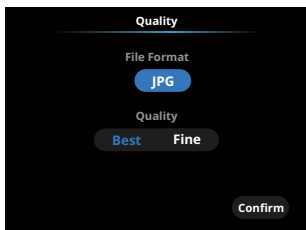
L	20M	4: 3	5120 x 3840
	17M	3: 2	5120 x 3413
	15M	16: 9	5120 x 2880
M		1: 1	3840 x 3840
	11M	4: 3	3840 x 2880
	10M	3: 2	3840 x 2560
	8M	16: 9	3840 x 2160
S		1: 1	2880 x 2880
	6M	4: 3	2880 x 2160
		3: 2	2880 x 1920
	5M	16: 9	2880 x 1620
		1: 1	2160 x 2160



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.

Quality

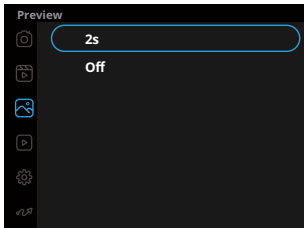
The quality setting can be used to adjust the image compression ratio.



- JPG
The image is recorded in the JPG format.

Preview

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



AF Assist Beam

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



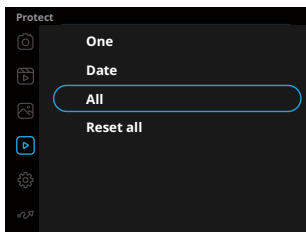
Playback Menu

There are the following options in the [Playback] Menu:

- [Protect](#)
- [Delete](#)

Protect

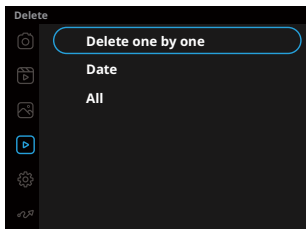
To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.



- **One:** Lock the selected photo or video file if they are unprotected; unlock the selected photo or video file if they are protected.
- **Date:** Protect all files in the Date Folder.
- **All:** Lock all files.
- **Reset all:** Cancel all locked files.

Delete

You can delete one or all photo / video files.



- Delete One by one: Delete photo / video files one by one.
- Date: Delete all files in the Date Folder.
- All: Delete all files.

-  The  indicator means a file is protected. File protection must be removed before a file can be deleted.
-  When a file in the Date Folders is protected, it will be kept but any other files will be deleted.
-  Deleted files will be permanently deleted and will not be able to be recovered or restored.

General Menu

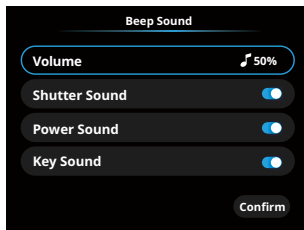
There are the following options in the [General] Menu:

- [U1/U2 Settings](#)
- [Beep Sound](#)
- [Language](#)
- [Screen Brightness](#)
- [Power Saver](#)
- [Firmware](#)
- [Set Time](#)

Beep Sound

With this setting you may adjust the sound volume.

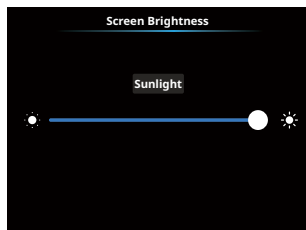
Press the [◀ 🔊] / [▶ ⚡] keys to adjust the sound volume. Press the  / [▶ ⚡] key to turn the functions on or off.



If the sound volume is adjusted to mute, the Shutter Sound, Power Sound and Key Sound will be automatically turned off and cannot be turned on.

Screen Brightness

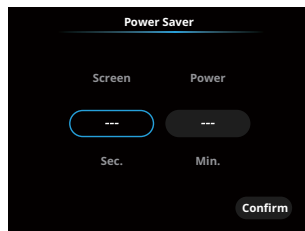
Use this setting to adjust the brightness of your screen.



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

Power Saver

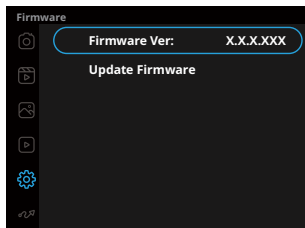
This setting allows you to save power and get the maximum possible running time for your camera's batteries. Turn the LCD and camera off automatically after a consecutive period of inactivity.



- Screen --- / 30 Sec. / 1 Min. / 5 Min.
- Power --- / 1 Min. / 5 Min. / 10 Min.

Firmware

Use this setting to view the current camera firmware version.



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



Media Menu

There are the following options in the [Media] Menu:

- [Wireless](#)
- [Custom File Name](#)
- [New Folder](#)
- [Reset](#)

Wireless

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 16 or higher, or ANDROID 12 or higher. If not, please upgrade your smart device before using the APP.

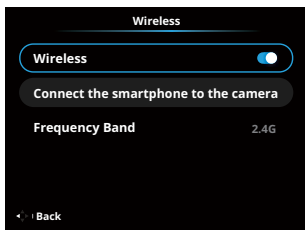
- Please do not use in places that have a high intensity magnetic field, electrostatic and electric wave interference (for example near a microwave oven), which may cause failure in receiving signals.
- To maintain a connection, please keep the camera within 10 meters (32.8 feet) without signal shielding 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 Dimage) and then install it.

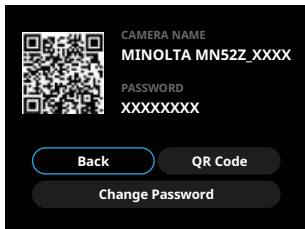
- ANDROID devices: Search and download the APP “Minolta Dimage” in Google play, and install it following the instructions on the interface.
- iOS devices: Search and download the APP “Minolta Dimage” in APP store, and install it following the instructions on the interface.

Press the  / [



Connect the smartphone to the camera

Select [Connect the smartphone to the camera] and press the  / [



- Back: Back to previous screen.
- QR Code: Use your phone to scan the QR code to connect to the camera.
- Update: Create a new random connection password.



If the scan connection fails, you can manually enter the connection password displayed on the screen.



If the camera successfully connects to the APP (Minolta Dimage) on your smartphone, a connection success icon  will display on the camera.



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



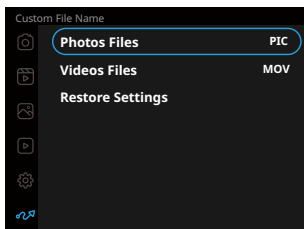
<https://www.minoltadigital.com/>

Frequency Band

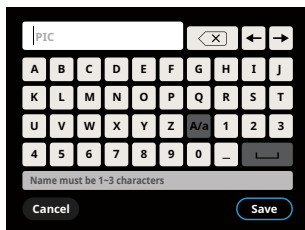
Only displays the network frequency band.

Custom File Name

Edit the name of the photo and video file.



The file name consists of 1 to 3 characters and can be made up of uppercase English letters or numbers.

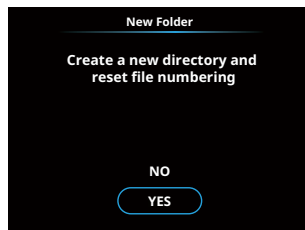


Meanings of Interface Icons

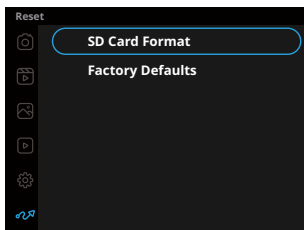
	Delete the last letter
	Move the cursor

New Folder

Create a new directory and\nreset file numbering.

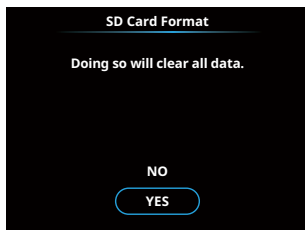


Reset



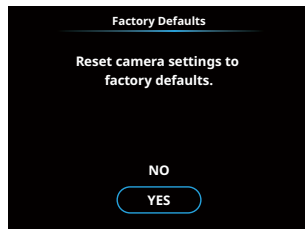
SD Card Format

Please note: formatting enables you to delete all contents on the memory card, including protected photo and movie files.



Factory Defaults

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



CONNECTION SETTINGS

Connecting to a Computer

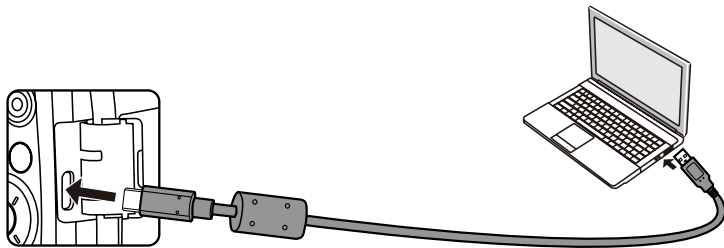
You can use a USB cable to connect the camera and copy (transmit) photos to a computer or other device.

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 camera and the computer are turned on.
2. Connect one end of the supplied USB cable to the 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 USB cable according to your computer manufacturer’s instructions specifying how to safely remove USB devices.



Viewing Images on Computer

Display transferred images on a standard image viewer etc. that an OS has. For details about viewing images, see the help menu on the viewer.

Supported OS==>Windows: Windows® 11 / Windows® 10 / Windows® 8.1

Macintosh: Mac OS X 10.15, OS X 11 / 12 / 13 / 14

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) ~ 223.6mm (Tele)
	35 mm Film Equivalent	24mm (Wide) ~ 1248mm (Tele)
	F number	F2.8 (Wide) ~ F5.6 (Tele)
	Lens Construction	13 groups 15 elements
	Optical Zoom	52x
	Focusing Range	Normal: (Wide) 60cm ~ ∞ , (Tele) 300cm ~ ∞ ; Macro: 1cm ~ ∞ (Wide Only)
Autofocus System		TTL Autofocus
Anti-Handshake		Optical Image Stabilization
Digital Zoom		4x Digital Zoom (Combined Zoom: 208x)

Number of Recording Pixels	Still Image	(4:3) 20MP: 5120 x 3840 11MP: 3840 x 2880 6MP: 2880 x 2160	(3:2) 17MP: 5120 x 3413 10MP: 3840 x 2560 6MP: 2880 x 1920	(16:9) 15MP: 5120 x 2880 8MP: 3840 x 2160 5MP: 2880 x 1620	(1:1) 15MP: 3840 x 3840 8MP: 2880 x 2880 5MP: 2160 x 2160
	Movie	(16:9) 3840 x 2160 (30fps), 1920 x 1080 (60fps/30fps), 1280 x 720 (60fps/30fps) (21:9) 3840 x 1648 (30fps), 1920 x 824 (60fps/30fps), 1280 x 548 (60fps/30fps) (1:1) 2160 x 2160 (30fps), 1080 x 1080 (60fps/30fps), 720 x 720 (60fps/30fps) (4:3) High-Speed Movie: 640 x 480 (240fps/120fps)			
Image Compression		Best, Fine			
DCF (Ver 1.1)		Yes			
File Format	Still Image	Exif 2.3 (JPEG)			
	Movie	MP4 [Image: H.264 / H.265; Audio: AAC (Stereo)]			
Shooting Modes		Auto Mode, Program AE, Shutter Priority , Aperture Priority, Manual Mode, Movie Mode, Time-lapse Mode, U2, U1, Scene Mode			

Scene Mode	Portrait, Handheld Night, Snow, Party, Sports, Night Portrait, Children, Landscape, Sunsets, Fireworks, Moon
Detection Features	Face Detection
Red-Eye Reduction	Yes
WDR	Yes
LCD Display	3.0 inch (460k Pixels)
Image Auto Rotation	Yes
ISO Sensitivity	Auto (100~1600), ISO 100/200/400/800/1600/3200
AF Method	Single AF, Multi-AF (TTL 25-point), Face Tracking, Face Detection
Exposure Metering Method	Average Metering, Center Metering, Spot Metering, Face AE
Exposure Control Method	Program AE (AE-Lock Available), Shutter Priority , Aperture Priority
Exposure Compensation	± 3 EV in 1/3 Step Increments
Shutter Speed	1/2000 ~ 30 Seconds
Burst	Approx. 5fps (Full Resolution)
Playback Mode	Single Playback, Index Playback (6/15 Thumbnails), Date Folder, Burst Folder, Zoom (Approx. x2 ~ x8)

White Balance		AWB, Daylight, Cloudy, Shade, Incandescent(warm), Incandescent(cool), Fluorescent(warm), Fluorescent(cool), Manual WB1, Manual WB2, Color Temp. (1900K ~ 10000K)
Flash	Flash Method	Pop-up (Auto)
	Flash Modes	Force Off, Flash On, Auto Flash, Red-Eye Reduction, Slow Sync., Slow Sync.+Red-Eye Reduction
Recording Media		SD / SDHC / SDXC Card (Up to 1.5TB Support) [MMC Card not supported]
Multi-Language Support		11 Languages
Jacks		USB 2.0 (Type-C)
Wireless		Yes
Remote Viewfinder		Yes (via iOS/ANDROID Smart Device)
Power		Rechargeable Li-ion Battery LB-062, 3.7V 1100mAh, In-Camera Charging
Shooting Capability (Battery Performance)		Approx. 160 Shots (Based on CIPA Standards)
Operation Environment		Temperature: 0 ~ 40°C, Humidity: 0 ~ 90%
Dimensions (W × H × D)		Approx. 121.3 x 85.8 x 98.2 mm (Based on CIPA Standards)
Weight		Approx. 508g (Body Only)

Prompts and Warning Messages

Message	Description	Action
Change Successful	This message will display after editing the image in single playback.	This message will disappear after 4 seconds or press any key to dismiss the message.
Protected! Undeletable!	This message will be displayed on the image immediately when executing delete action to the protected files.	
This image cannot be edited.	The file format is not allowed to be edited or the file is not allowed to be edited.	
No Red-Eye Detected!	No red-eye detected when using red-eye removing in single playback.	
NO FILES	There is no file in the camera or the card. This message will display when pressing the Playback Key.	
All of files are protected.	This message will be displayed when all of files executing protect action.	
All protected files were reset successfully.	Unprotect all images.	

Message	Description	Action
Temperature Too High! The camera needs to rest for a while before it can be used again.	The battery temperature is too high.	This message will disappear after 5 seconds and return the previous screen.
Please update firmware after the battery is fully charged!	The firmware cannot be updated when power is less than 50%.	
USB Mode: Mass Storage Export files to PC or mobile. When camera is plugged into mobile, you can tap the [App>Import] to download files to mobile via SD card in camera.	Connect the USB cable and switch to Mass Storage Mode.	The message is displayed until remove the USB cable.
Lens obstruction Please re-start camera.	The lens is jammed or some foreign object is preventing the lens from functioning properly.	The camera will shut down after 5 seconds. Restart the camera to reset the lens.
Warning ! Battery exhausted.	Warning before power off when the camera battery is exhausted.	The camera will automatically shut down in 5 seconds.
Connection failed!	Failure to connect to your computer.	Remove USB cable and retry connection.

Message	Description	Action
The app is in operation, the camera cannot sync.	This message will display when setting the camera's shooting functions and parameters in the app.	Wait until the app finishes this operation.
Exceeded maximum folder limit.	This indicates that the memory card exceeded the maximum number of folders (999).	This message will disappear after 5 seconds and return the previous image.
This device is about to shut down.	The battery temperature is too high.	The camera will automatically shut down after 5 seconds. Let the battery cool before attempting to use the camera again.
Long exposure, please wait~	A warning display when the exposure time exceeds 2 seconds.	The message disappears after 2 seconds.
No card present.	The memory card is not inserted. The message will be displayed until select [OK] to return to shooting.	Turn off the camera and insert a SD card.
Write Protect!	The memory card is locked. The message will be displayed until select [OK] to return to shooting.	Remove memory card and switch the lever on the side of card to UNLOCK.
Card Full!	Indicates that the memory card is full. The message will be displayed until select [OK] to return to shooting.	Replace memory card with another that has available memory.

Message	Description	Action
Card is not formatted. Please format card with this camera.	The message will appear when an error occurs in the memory card.	Select [Format] to format the memory card or select [No] to return to shooting.
V10 cards can support 4K video. V30 SD cards are recommended for stable 4K/60P video recording with no lag.	Use a memory card with write Class 30 or higher to improve performance.	The message will be displayed until select [OK] to return to shooting.
This is an outdated SD card, please replace. SDXC and V10 or higher is better.	Use a SDXC card with write Class 10 or higher.	The message will be displayed until select [OK] and shut down the camera.
Exceeded maximum folder limit. Replace SD card and check storage space.	Indicates that the memory card is full.	The message will be displayed until select [EXIT] to return to shooting or select [NEXT].
If another SD card is inserted, please press [Reset].	This indicates that the memory card exceeded the maximum number of folders.	The message will be displayed until select [NO] to return to shooting or select [RESET] to reset the folder number.
Unable to Format SD Card. Your SD card might be defective.	Formatting failed twice.	The message will be displayed until select [OK] to return to shooting.

Troubleshooting

Problem	Possible causes	Solution
Camera does not turn on	■ The battery has been depleted. ■ The battery is not inserted correctly.	■ Replace a fully charged battery or a new battery. ■ Correctly reinstall the battery.
Camera turns off suddenly during operation	■ The battery has been depleted.	■ Replace a fully charged battery or a new battery. ■ 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.

Problem	Possible causes	Solution
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 write Class 10 or higher to improve performance.
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.



When shooting with stacked filters attached, the corners of the photo may turn dark (vignetting effect) because the filter holder blocks light from reaching the camera image sensor; especially, at wide angle zoom control settings. Please take test shots and review the results when using stacked filters. (Filter size : $\Phi 52\text{mm}$)



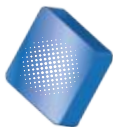
Please enter the new password on smart device after changing wireless network password. Some models of smart device will remember the wireless network password previously entered, so please clear the old password on smart device manually before connection (For different models, this operation may be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

iOS System



ANDROID System





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