

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.

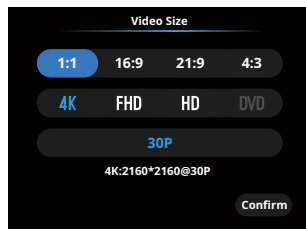
Video Menu

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.



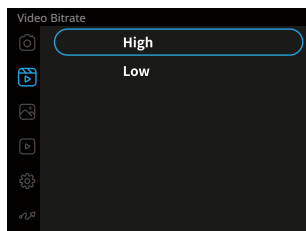
When the video format is set as 640 x 480 120fps, the shooting time is 30 seconds and the playback time is 2 minutes; When the video format is set as 640 x 480 240fps, the shooting time is 30 seconds and the playback time is 4 minutes.



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

Video Bitrate

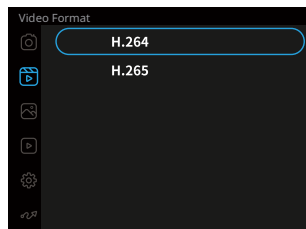
Configure the appropriate video bitrate based on the video format.



- 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.

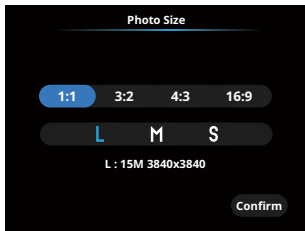
Photo Menu

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.



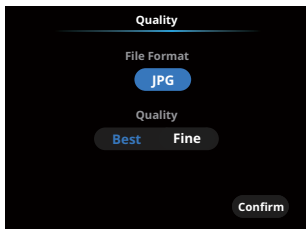
L	20M	4: 3	5120 x 3840
	17M	3: 2	5120 x 3413
	15M	16: 9	5120 x 2880
M		1: 1	3840 x 3840
	11M	4: 3	3840 x 2880
	10M	3: 2	3840 x 2560
	8M	16: 9	3840 x 2160
S		1: 1	2880 x 2880
	6M	4: 3	2880 x 2160
		3: 2	2880 x 1920
	5M	16: 9	2880 x 1620
		1: 1	2160 x 2160



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

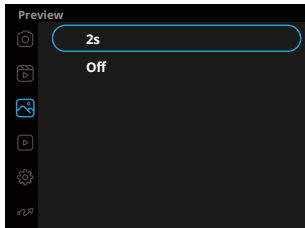
The quality setting can be used to adjust the image compression ratio.



- 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.



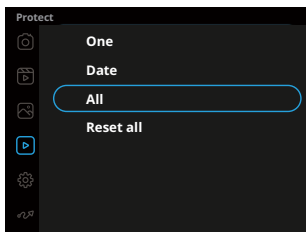
Playback Menu

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

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

Protect

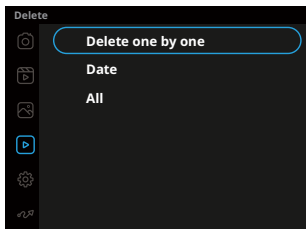
To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.



- **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

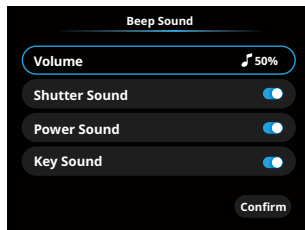
There are the following options in the [General] Menu:

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

Beep Sound

With this setting you may adjust the sound volume.

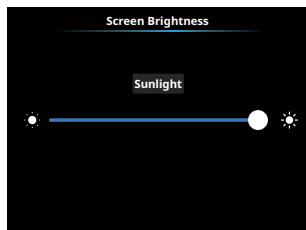
Press the [◀ 🔊] / [▶ ⚡] keys to adjust the sound volume. Press the  / [▶ ⚡] key to turn the functions on or off.



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

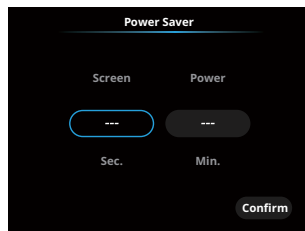
Use this setting to adjust the brightness of your screen.



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

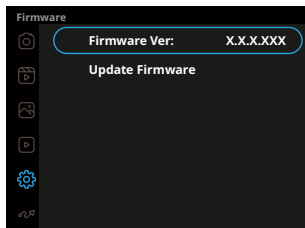
This setting allows you to save power and get the maximum possible running time for your camera's batteries. Turn the LCD and camera off automatically after a consecutive period of inactivity.



- 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.

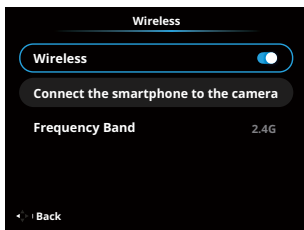
- Please do not use in places that have a high intensity magnetic field, electrostatic and electric wave interference (for example near a microwave oven), which may cause failure in receiving signals.
- To maintain a connection, please keep the camera within 10 meters (32.8 feet) without signal shielding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

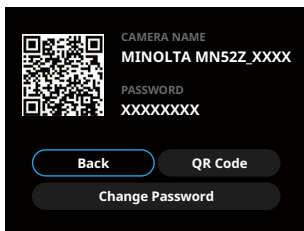
- ANDROID devices: Search and download the APP “Minolta Dimage” in Google play, and install it following the instructions on the interface.
- iOS devices: Search and download the APP “Minolta Dimage” in APP store, and install it following the instructions on the interface.

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:



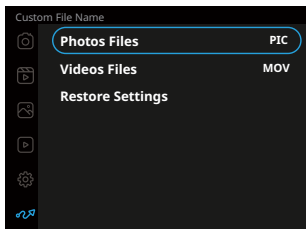
<https://www.minoltadigital.com/>

Frequency Band

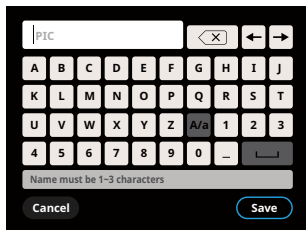
Only displays the network frequency band.

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.

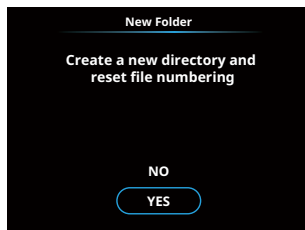


Meanings of Interface Icons

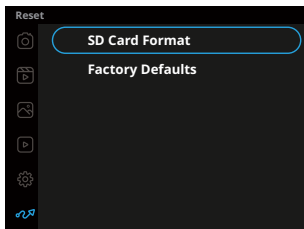
	Delete the last letter
	Move the cursor

New Folder

Create a new directory and\nreset file numbering.

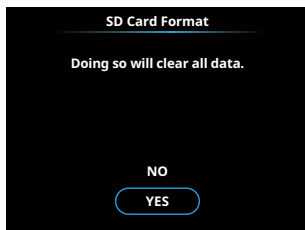


Reset



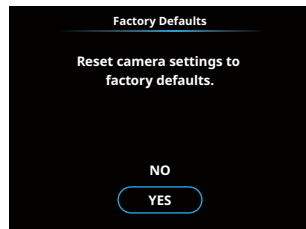
SD Card Format

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

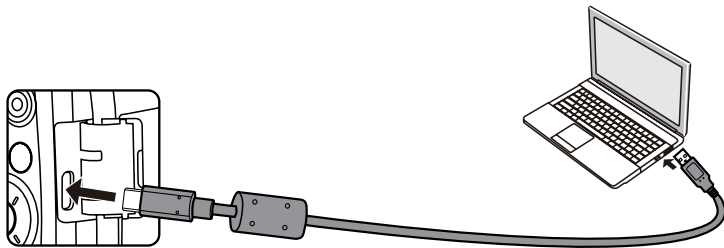
You can use a USB cable to connect the camera and copy (transmit) photos to a computer or other device.

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. 200 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.

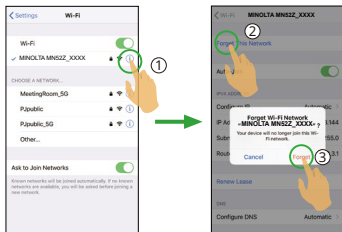


When shooting with stacked filters attached, the corners of the photo may turn dark (vignetting effect) because the filter holder blocks light from reaching the camera image sensor; especially, at wide angle zoom control settings. Please take test shots and review the results when using stacked filters.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

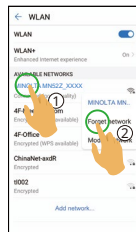


Please enter the new password on smart device after changing wireless network password. Some models of smart device will remember the wireless network password previously entered, so please clear the old password on smart device manually before connection (For different models, this operation may be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

iOS System



ANDROID System





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