Nikon

DIGITAL CAMERA

COOLPIX B500

Reference Manual

Quick Topic Search

- Read this manual thoroughly before using the camera.
- To ensure proper use of the camera, be sure to read “For Your Safety” (page viii).
- After reading this manual, keep it in a readily accessible place for future reference.

En

Quick Topic Search

You can return to this page by tapping or clicking in the lower right of any page.

Main Topics

For Smart Device Users iii

Introduction v

Table of Contents xii

Parts of the Camera 1

Getting Started 9

Basic Shooting and Playback Operations 20

Shooting Features 27

Playback Features 63

Movies 75

Connecting the Camera to a TV, Printer, or Computer 86

Using the Menu 97

Technical Notes 143

Common Topics

For Your Safety

What SnapBridge Can Do for You

Selecting a Shooting Mode

Using the Zoom

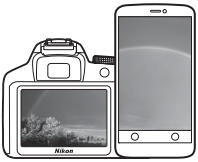
Continuous Shooting

Editing Images (Still Images)

Troubleshooting

Index

SnapBridge



Your images. The world. Connected

Welcome to SnapBridge — Nikon's new family of services to enrich your image experience. SnapBridge eliminates the barrier between your camera and compatible smart device, through a combination of *Bluetooth*® low energy (BLE) technology and a dedicated app. The stories you capture with your Nikon camera and lenses are automatically transferred to the device as they are taken. They can even be uploaded effortlessly to cloud storage services, inviting access across all your devices. You can share your excitement, when and where you want.

Download the SnapBridge app to get started!

Take advantage of the wide-ranging convenience by downloading the SnapBridge app onto your smart device now. Through a few simple steps, this app connects your Nikon cameras with a compatible iPhone®, iPad® and/or iPod touch® or smart devices running on the Android™ operating system. The app is available free from the website (http://snapbridge.nikon.com), Apple App Store® and Google Play™.

Download on the App Store

ANDROID APP ON Google Play

For the latest information on SnapBridge, visit the Nikon website for your area (📖vi).

The exciting image experience that SnapBridge offers…

Automatic picture transfer from camera to smart device thanks to the constant connection between the two devices — making online photo sharing easier than ever

Upload of photos and thumbnail images to the NIKON IMAGE SPACE cloud service

A range of services that enriches your imaging life, including:

- Camera remote control

- Imprinting up to two pieces of credit information (e.g. copyright, comments, text and logos) on pictures

- Automatic update of camera's date and time info and location info

- Receive camera's firmware updates

Introduction

Read This First

Thank you for purchasing the Nikon COOLPIX B500 digital camera.

Symbols and Conventions Used in This Manual

- Tap or click in the lower right of each page to display "Quick Topic Search" (ii).
- Symbols

Symbol	Description
	This icon marks cautions and information that should be read before using the camera.
	This icon marks notes and information that should be read before using the camera.
	This icon marks other pages containing relevant information.

- SD, SDHC, and SDXC memory cards are referred to as "memory cards" in this manual.
- The setting at the time of purchase is referred to as the "default setting."
- The names of menu items displayed on the camera screen, and the names of buttons or messages displayed on a computer screen appear in bold.
- In this manual, images are sometimes omitted from screen display samples so that screen indicators can be more clearly shown.

Information and Precautions

Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following websites:

- For users in the U.S.A.: http://www.nikonusa.com/
- For users in Europe: http://www.europe-nikon.com/support/
- For users in Asia, Oceania, the Middle East, and Africa: http://www.nikon-asia.com/

Visit these websites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. Visit the website below for contact information.

http://imaging.nikon.com/

Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Illustrations and screen content shown in this manual may differ from the actual product.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Comply with Copyright Notices

Under copyright law, photographs or recordings of copyrighted works made with the camera can not be used without the permission of the copyright holder. Exceptions apply to personal use, but note that even personal use may be restricted in the case of photographs or recordings of exhibits or live performances.

Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, make sure to reset all of the camera's settings in **Reset all** in the setup menu (📖98). After resetting, erase all data in the device using commercial deletion software, or format the device in **Format memory** or **Format card** in the setup menu (📖98), then completely refill it with images containing no private information (for example, images of empty sky).

Care should be taken to avoid injury or damage to property when physically destroying memory cards.

Conformity Marking

Follow the procedure below to display some of the conformity markings that the camera complies with.

Press the MENU button ➔ menu icon ➔ Conformity marking ➔ OK button

For Your Safety

To prevent damage to property or injury to yourself or to others, read "For Your Safety" in its entirety before using this product.
Keep these safety instructions where all those who use this product will read them.

DANGER	**Failure to observe the precautions marked with this icon carries a high risk of death or severe injury.**
WARNING	**Failure to observe the precautions marked with this icon could result in death or severe injury.**
CAUTION	**Failure to observe the precautions marked with this icon could result in injury or property damage.**

WARNING

- Do not use while walking or operating a motor vehicle. Failure to observe this precaution could result in accidents or other injury.
- Do not disassemble or modify this product. Do not touch internal parts that become exposed as the result of a fall or other accident. Failure to observe these precautions could result in electric shock or other injury.
- Should you notice any abnormalities such as the product producing smoke, heat, or unusual odors, immediately disconnect the batteries or power source. Continued operation could result in fire, burns or other injury.
- Keep dry. Do not handle with wet hands. Do not handle the plug with wet hands. Failure to observe these precautions could result in fire or electric shock.
- Do not let your skin remain in prolonged contact with this product while it is on or plugged in. Failure to observe this precaution could result in low-temperature burns.
- Do not use this product in the presence of flammable dust or gas such as propane, gasoline or aerosols. Failure to observe this precaution could result in explosion or fire.
- Do not aim the flash at the operator of a motor vehicle. Failure to observe this precaution could result in accidents.

- Keep this product out of reach of children. Failure to observe this precaution could result in injury or product malfunction. In addition, note that small parts constitute a choking hazard. Should a child swallow any part of this product, seek immediate medical attention.
- Do not entangle, wrap or twist the straps around your neck. Failure to observe this precaution could result in accidents.
- Do not use batteries, chargers, or AC adapters not specifically designated for use with this product. When using batteries, chargers, and AC adapters designated for use with this product, do not:
  - Damage, modify, forcibly tug or bend the cords or cables, place them under heavy objects, or expose them to heat or flame.
  - Use travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters.

  Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug when using the AC adapter during thunderstorms. Failure to observe this precaution could result in electric shock.
- Do not handle with bare hands in locations exposed to extremely high or low temperatures. Failure to observe this precaution could result in burns or frostbite.

⚠ CAUTION

- Turn this product off when its use is prohibited. Disable wireless features when the use of wireless equipment is prohibited. The radio-frequency emissions produced by this product could interfere with equipment onboard aircraft or in hospitals or other medical facilities.
- Remove the batteries and disconnect the AC adapter if this product will not be used for an extended period. Failure to observe this precaution could result in fire or product malfunction.
- Do not touch moving parts of the lens or other moving parts. Failure to observe this precaution could result in injury.
- Do not fire the flash in contact with or in close proximity to the skin or objects. Failure to observe this precaution could result in burns or fire.
- Do not leave the product where it will be exposed to extremely high temperatures, for an extended period such as in an enclosed automobile or in direct sunlight. Failure to observe this precaution could result in fire or product malfunction.

DANGER for Batteries

- Do not mishandle batteries. Failure to observe the following precautions could result in the batteries leaking, overheating, rupturing, or catching fire:
  - Do not attempt to recharge non-rechargeable batteries.
  - Do not expose batteries to flame or excessive heat.
  - Do not disassemble.
  - Do not short circuit the terminals by touching them to necklaces, hairpins, or other metal objects.
  - Do not expose batteries or the products in which they are inserted to powerful physical shocks.
- Recharge all EN-MH2 rechargeable batteries in each pack of four simultaneously. Failure to observe this precaution could result in the batteries leaking, overheating, rupturing, or catching fire.
- If battery liquid comes into contact with the eyes, rinse with plenty of clean water and seek immediate medical attention. Delaying action could result in eye injuries.

WARNING for Batteries

- Do not remove or damage the battery casing. Never use batteries with damaged casing. Failure to observe this precaution could result in the batteries leaking, overheating, rupturing, or catching fire.
- Keep batteries out of reach of children. Should a child swallow a battery, seek immediate medical attention.
- Do not immerse this product in water or expose to rain. Failure to observe this precaution could result in fire or product malfunction. Immediately dry the product with a towel or similar object should it become wet.
- Discontinue use immediately should you notice any changes in the batteries, such as discoloration or deformation. Cease charging EN-MH2 rechargeable batteries if they do not charge in the specified period of time. Failure to observe this precaution could result in the batteries leaking, overheating, rupturing, or catching fire.
- Insert batteries in the correct orientation. Do not mix old and new batteries or batteries of different types. Failure to observe this precaution could result in the batteries leaking, overheating, rupturing, or catching fire.
- Prior to disposal, insulate battery terminals with tape. Overheating, rupture, or fire may result should metal objects come into contact with the terminals. Recycle or dispose of batteries in accord with local regulations.

- If battery liquid comes into contact with a person's skin or clothing, immediately rinse the affected area with plenty of clean water. Failure to observe this precaution could result in skin irritation.

Table of Contents

Quick Topic Search ii
- Main Topics ii
- Common Topics ii

For Smart Device Users iii

Introduction v
- Read This First v
  - Symbols and Conventions Used in This Manual v
  - Information and Precautions vi
- For Your Safety viii

Parts of the Camera 1
- The Camera Body 2
- The Monitor 4
  - Switching the Information Displayed on the Screen (**DISP** Button) 4
  - For Shooting 5
  - For Playback 7

Getting Started 9
- How to Attach the Camera Strap and Lens Cap 10
- Inserting the Batteries and Memory Card 11
  - Applicable Batteries 11
  - Removing the Batteries or Memory Card 12
  - Memory Cards and Internal Memory 12
- Changing the Angle of the Monitor 13
- Camera Setup 14
  - Setup from a Smartphone or Tablet 14
  - Setup from the Camera Menus 16
  - What SnapBridge Can Do for You 18

Basic Shooting and Playback Operations 20
Shooting Images 21
Using the Flash 23
Recording Movies 23
Playing Back Images 24
Deleting Images 25
The Image Selection Screen for Deletion 26

Shooting Features 27
Selecting a Shooting Mode 28
(Auto) Mode 29
Using the Creative Slider 29
Scene Mode (Shooting Suited to the Shooting Conditions) 31
Tips and Notes About Scene Mode 32
Shooting with Easy Panorama 38
Playback with Easy Panorama 40
Creative Mode (Applying Effects When Shooting) 41
Smart Portrait Mode (Enhancing Human Faces When Shooting) 43
Using Smile Timer 44
Using Self-Collage 45
Setting Shooting Functions with the Multi Selector 46
Flash Mode 47
Self-timer 49
Macro Mode (Taking Close-up Pictures) 51
Exposure Compensation (Adjusting Brightness) 52
Using the Zoom 53
Focusing 55
The Shutter-release Button 55
Using Target Finding AF 55
Using Face Detection 56
Using Skin Softening 57
Subjects Not Suitable for Autofocus 57
Focus Lock 58
Default Settings (Flash, Self-timer, and Macro Mode) 59
Functions That Cannot Be Used Simultaneously When Shooting 61

Playback Features 63
Playback Zoom 64
Thumbnail Playback/Calendar Display 65
List by Date Mode 66
Viewing and Deleting Images in a Sequence 67
Viewing Images in a Sequence 67
Deleting Images in a Sequence 68
Editing Images (Still Images) 69
Before Editing Images 69
Quick Effects: Changing Hue or Mood 69
Quick Retouch: Enhancing Contrast and Saturation 70
D-Lighting: Enhancing Brightness and Contrast 70
Red-eye Correction: Correcting Red-eye When Shooting with the Flash 71
Glamour Retouch: Enhancing Human Faces 71
Small Picture: Reducing the Size of an Image 73
Crop: Creating a Cropped Copy 74

Movies 75
Basic Operations of Movie Recording and Movie Playback 76
Capturing Still Images While Recording Movies 79
Short Movie Show Mode (Combining Movie Clips to Create Short Movies) 80
Using Special Effects 82
Operations During Movie Playback 83
Editing Movies 84
Extracting Only the Desired Portion of a Movie 84
Saving a Frame from a Movie as a Still Image 85

Connecting the Camera to a TV, Printer, or Computer 86
Utilizing Images 87
Viewing Images on a TV 88
Printing Images Without a Computer 90
Connecting the Camera to a Printer 90
Printing Images One at a Time 91
Printing Multiple Images 92
Transferring Images to a Computer (ViewNX-i) 94
Installing ViewNX-i 94
Transferring Images to a Computer 94

Using the Menu 97
Menu Operations 98
The Image Selection Screen 100
Menu Lists 101
The Shooting Menu 101
The Movie Menu 102
The Playback Menu 102
The Network Menu 103
The Setup Menu 104
The Shooting Menu (The Common Shooting Options) 105
Image Mode (Image Size and Quality) 105
The Shooting Menu (for (Auto) Mode) 106
White Balance (Adjusting Hue) 106
Continuous Shooting 108
ISO Sensitivity 110
AF Area Mode 111
Autofocus Mode 114
The Smart Portrait Menu 115
Self-Collage 115
Blink Proof 116
The Movie Menu 117
Movie Options 117
Autofocus Mode 121
Movie VR 122
Wind Noise Reduction 122
Frame Rate 123
The Playback Menu 124
Mark for Upload 124
Slide Show 125
Protect 126
Rotate Image 126
Copy (Copy Between the Memory Card and Internal Memory) 127
Sequence Display Options 128
The Network Menu 129
Operating the Text Input Keyboard 130

The Setup Menu 131
Time Zone and Date 131
Monitor Settings 133
Date Stamp 134
Photo VR 135
AF Assist 135
Digital Zoom 136
Sound Settings 136
Auto Off 137
Format Card/Format Memory 138
Language 138
Image Comment 139
Copyright Information 140
Location Data 141
Reset All 141
Battery Type 142
Conformity Marking 142
Firmware Version 142

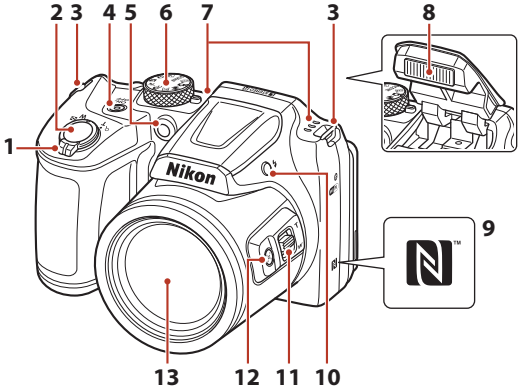
Technical Notes 143
Notices 144
Notes About Wireless Communication Functions 146
Caring for the Product 149
The Camera 149
Batteries 150
Memory Cards 151
Cleaning and Storage 152
Cleaning 152
Storage 152
Error Messages 153
Troubleshooting 156
File Names 162
Optional Accessories 163
Specifications 164
Memory Cards That Can Be Used 168
Index 170

Parts of the Camera

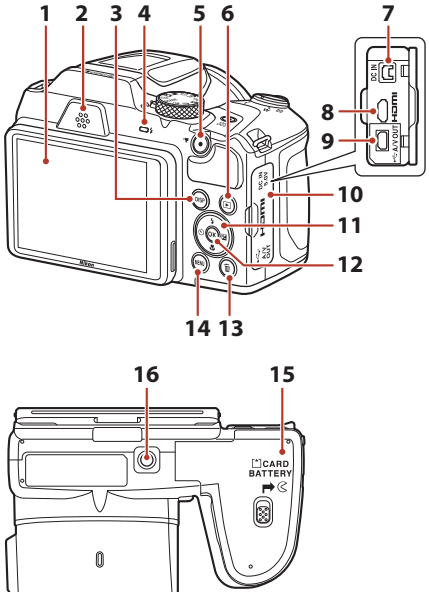
The Camera Body 2

The Monitor 4

The Camera Body



1	Zoom control ..... 53 **W** : Wide-angle ..... 53 **T** : Telephoto ..... 53 : Thumbnail playback ..... 65 : Playback zoom 64	**7**	Microphone (stereo)
2	Shutter-release button 22	**8**	Flash 23, 47
3	Eyelet for camera strap 10	**9**	N-Mark (NFC antenna) 15
4	Power switch/power-on lamp 14	**10**	(flash pop-up) button 23, 47
5	Self-timer lamp ..... 49 AF-assist illuminator	**11**	Side zoom control 53
6	Mode dial 21, 28	**12**	(snap-back zoom) button 54
		13	Lens



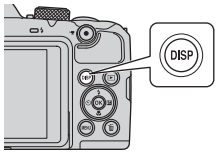
1	Monitor 4, 13	**9**	USB/audio/video output connector 87
2	Speaker	**10**	Connector cover 87
3	**DISP** (display) button 4	**11**	Multi selector 98
4	Flash lamp 47	**12**	OK (apply selection) button 98
5	● (movie-record) button 76	**13**	(delete) button 25
6	▶ (playback) button 24	**14**	**MENU** (menu) button 98
7	DC input connector (for AC adapter available separately from Nikon) 163	**15**	Battery-chamber/ memory card slot cover 11
8	HDMI micro connector (Type D) 87	**16**	Tripod socket 166

The Monitor

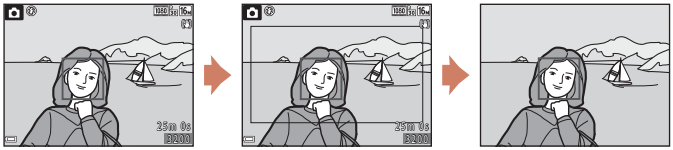
The information that is displayed on the shooting or playback screen changes depending on the camera's settings and state of use.

Switching the Information Displayed on the Screen (DISP Button)

To switch the information displayed on the screen during shooting or playback, press the **DISP** (display) button.



For Shooting

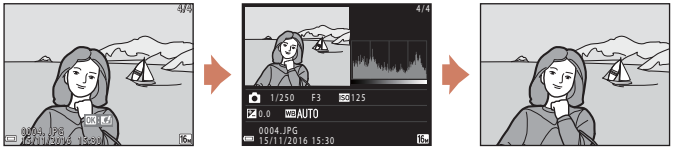


Show information

Movie frame
Display the range of a movie in a frame.

Hide information

For Playback

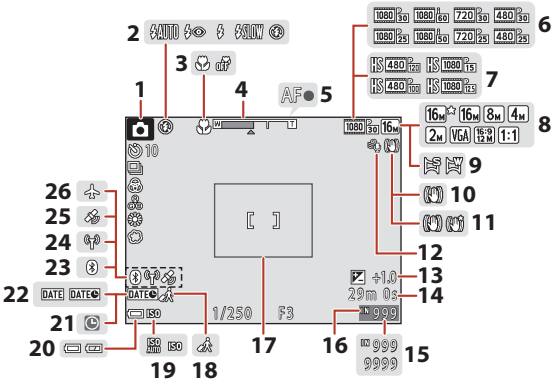


Show information

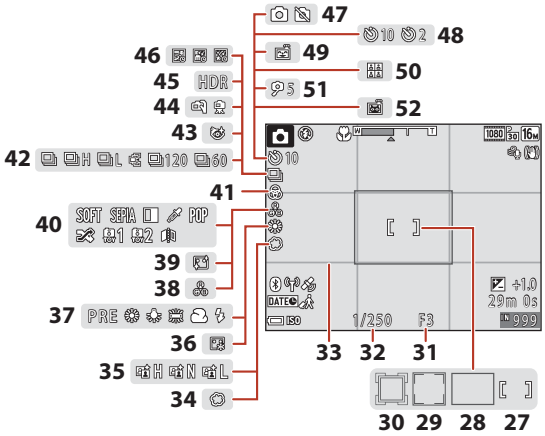
Tone level information (except movies)
Display a histogram, tone level and shooting information (📖8).

Hide information

For Shooting

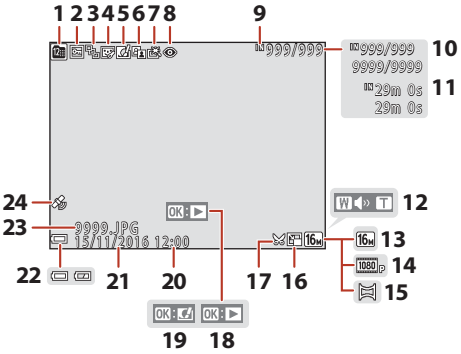


1	Shooting mode 28	**15**	Number of exposures remaining (still images) 21
2	Flash mode 47	**16**	Internal memory indicator 21
3	Macro mode 51	**17**	Framing border (**Moon** or **Bird-watching** scene mode, or snap-back zoom) 37, 54
4	Zoom indicator 51, 53	**18**	Travel destination icon 131
5	Focus indicator 22	**19**	ISO sensitivity 110
6	Movie options (normal speed movies) 117	**20**	Battery level indicator 21
7	Movie options (HS movies) 118	**21**	"Date not set" indicator 157
8	Image mode 105	**22**	Date stamp 134
9	Easy panorama 38	**23**	Bluetooth communication indicator 19, 129
10	Photo VR icon 135	**24**	Wi-Fi communication indicator 19, 129
11	Movie VR icon 122	**25**	Location data 141
12	Wind noise reduction 122	**26**	Airplane mode 19, 129
13	Exposure compensation value 29, 43, 52		
14	Remaining movie recording time 76		



27	Focus area (manual or center) 58, 111	**39**	Skin softening....43
28	Focus area (target finding AF) 55, 112	**40**	Special effects....82
29	Focus area (face detection, pet detection)....36, 43, 56, 111	**41**	Vividness....29
30	Focus area (subject tracking) 112, 113	**42**	Continuous shooting mode....36, 108
31	F-number....55	**43**	Blink proof icon 116
32	Shutter speed 55	**44**	Hand-held/tripod....32, 33
33	View/hide framing grid....133	**45**	Backlighting (HDR) 33
34	Soft 43	**46**	Multiple exp. Lighten....34
35	Active D-Lighting 29	**47**	Still image capture (during movie recording)....79
36	Foundation makeup....43	**48**	Self-timer indicator....49
37	White balance....106	**49**	Smile timer 44
38	Hue....29	**50**	Self-Collage....45, 115
		51	Self-portrait timer....49
		52	Pet portrait auto release....36

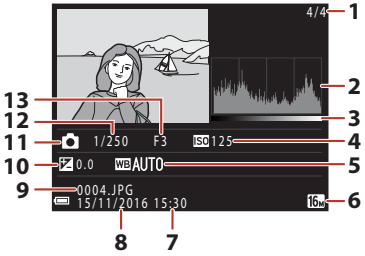
For Playback



1	List by date icon 66	**13**	Image mode 105
2	Protect icon 126	**14**	Movie options 117
3	Sequence display (when **Individual pictures** is selected) 128	**15**	Easy panorama 40
4	Glamour retouch icon 71	**16**	Small picture icon 73
5	Quick effects icon 69	**17**	Crop icon 64, 74
6	D-Lighting icon 70	**18**	Easy panorama playback guide Sequence playback guide Movie playback guide
7	Quick retouch icon 70	**19**	Quick effects guide
8	Red-eye correction icon 71	**20**	Time of recording
9	Internal memory indicator	**21**	Date of recording
10	Current image number/ total number of images	**22**	Battery level indicator 21
11	Movie length or elapsed playback time	**23**	File number and type 162
12	Volume indicator 83	**24**	Recorded location data indicator ... 141

Tone Level Information Display

You can check for loss of contrast detail in highlights and shadows from the histogram that is displayed, or the display for the tone level. These provide guidelines when adjusting the image brightness with functions such as exposure compensation.



1	Current image number/ total number of images	**8**	Date of recording 14, 131
2	Histogram[1]	**9**	File number and type 162
3	Tone level[2]	**10**	Exposure compensation value 52
4	ISO sensitivity 110	**11**	Shooting mode 28
5	White balance 106	**12**	Shutter speed 55
6	Image mode 105	**13**	F-number 55
7	Time of recording 14, 131		

[1] A histogram is a graph showing the distribution of tones in the image. The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.

[2] The tone level indicates the brightness level.

Getting Started

How to Attach the Camera Strap and Lens Cap 10

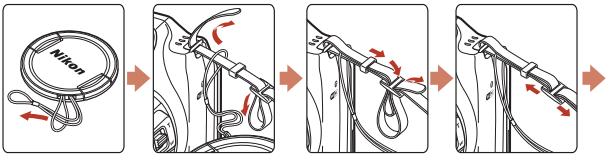
Inserting the Batteries and Memory Card 11

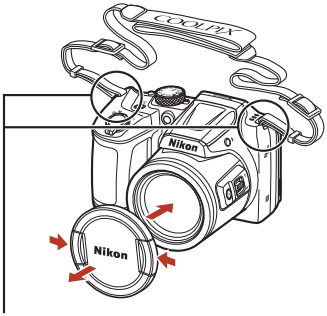
Changing the Angle of the Monitor 13

Camera Setup 14

How to Attach the Camera Strap and Lens Cap

Attach the lens cap to the camera strap, and then attach the strap to the camera.



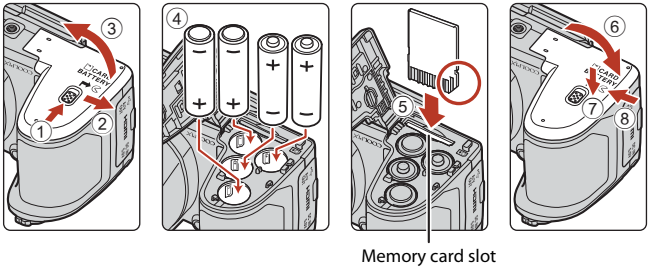


Attach the strap at two places.

Lens Cap

When the camera is not in use, attach the lens cap to the lens to protect it.

Inserting the Batteries and Memory Card



- Hold the camera upside down to prevent the batteries from falling out, confirm that the positive (+) and negative (–) terminals of the batteries are oriented correctly, and insert the batteries.
- Slide the memory card in until it clicks into place (⑤).
- Be careful not to insert the batteries or memory card upside-down or backward, as this could cause a malfunction.
- When closing the cover, slide it while securely holding down the area marked ⑦.

Formatting a Memory Card

The first time you insert a memory card that has been used in another device into this camera, make sure to format it with this camera.

- **Note that formatting a memory card permanently deletes all images and other data on the memory card.** Be sure to make copies of any images you wish to keep before formatting the memory card.
- Insert the memory card into the camera, press the MENU button, and select **Format card** in the setup menu (📖98).

Applicable Batteries

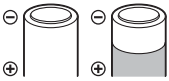
- Four LR6/L40 (AA-size) alkaline batteries (included batteries*)
- Four FR6/L91 (AA-size) lithium batteries
- Four EN-MH2 Rechargeable Ni-MH (nickel metal hydride) batteries

EN-MH1 Rechargeable Ni-MH batteries cannot be used.

* Although the batteries are described as being "included" in this manual, the batteries may not be included depending on the country or region in which the camera was purchased.

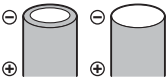
Notes About the Batteries

- Do not combine old and new batteries or batteries of different makes or types.
- Batteries with the following defects cannot be used:



Batteries with peeling

Batteries with insulation that does not cover the area around the negative terminal



Batteries with a flat negative terminal

Notes About EN-MH2 Rechargeable Ni-MH Batteries

When using EN-MH2 batteries with the camera, charge four batteries at a time using MH-73 Battery Charger (📖150).

Alkaline Batteries

Performance of alkaline batteries may vary greatly depending on the brand.

Removing the Batteries or Memory Card

Turn the camera off and make sure that the power-on lamp and screen have turned off, and then open the battery-chamber/memory card slot cover.

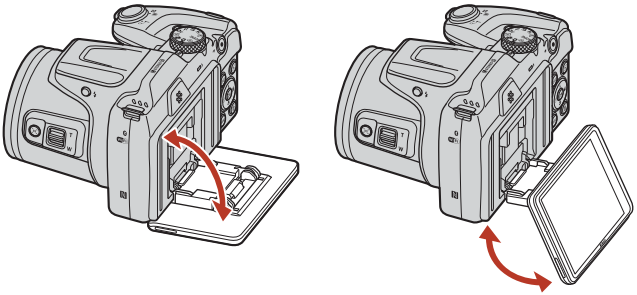
- Gently push the memory card into the camera to partially eject the memory card.
- Be careful when handling the camera, batteries, and memory card immediately after using the camera, as they may be hot.

Memory Cards and Internal Memory

Camera data, including images and movies, can be saved either on a memory card or in the camera's internal memory. To use the camera's internal memory, remove the memory card.

Changing the Angle of the Monitor

The angle of the monitor can be lowered down to approx. 85° or raised upward to approx. 90°.



Notes About the Monitor

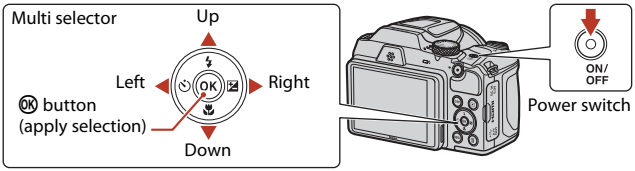
- Do not apply excessive force when changing the angle of the monitor.
- The monitor cannot be moved to the left or right.
- Put the monitor back in the original position when using in normal situations.

Setup from a Smartphone or Tablet

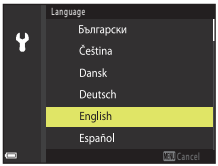
- Before proceeding, install the SnapBridge app (iii) and enable Bluetooth and Wi-Fi on your smartphone or tablet (below, "smart device").
- The camera and smart device screens shown in this manual may differ from those of the actual products.

1 Turn the camera on.

- Use the multi selector to select and adjust settings.

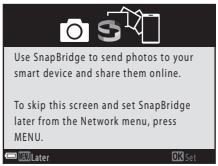


- A language selection dialog will be displayed. Press ▲ or ▼ on the multi selector to highlight a language and press OK to select.
- The language can be changed at any time using the **Language** option in the setup menu (98).



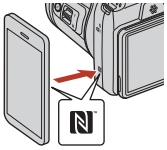
2 Press OK when the dialog at right is displayed.

- If you do not wish to use a smart device to configure the camera, press MENU (16).



3 Pair (i.e., establish a Bluetooth link between) the camera and the smart device.

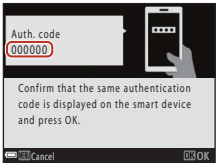
- **Android Devices with NFC Support**
  After checking that NFC is enabled on the smart device, touch the camera N (N-Mark) to the NFC antenna on the smart device to launch the SnapBridge app.
  - If the SnapBridge download site is displayed, download and install the app before repeating the above steps.



- **iOS Devices and Android Devices Without NFC Support**
  Press the camera OK button. The camera will wait for a connection; launch the SnapBridge app on the smart device and follow the on-screen instructions to tap the name of the camera you want to pair with.

4 Check the authentication code.

- After confirming that the camera and smart device display the same six-digit authentication code, follow the steps below to complete pairing (note that the code may not be displayed in some versions of iOS, but you should follow the steps below even if the code is not displayed).
  - **On the camera**, press OK.
  - **On the smart device**, tap **Pairing** (the name of the button varies with the smart device).



Camera

5 Press OK when the dialog at right is displayed.

- When a constant connection between the camera and smart device is established, the dialog at right is displayed.
- If the camera displays **Could not connect.**, press OK to return to Step 3. To cancel pairing settings, press MENU.

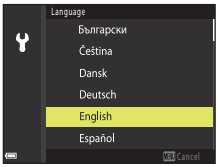
6 Follow the on-screen instructions to complete the setup process.

- To record location data with photographs, select **Yes** when prompted and enable the location data features both in the SnapBridge app and on the smart device itself (for more information, see the documentation provided with the smart device).
- You can also synchronize the camera clock to the time reported by the smart device by selecting **Yes** when prompted and enabling synchronization in the SnapBridge app. If you select **No**, set the camera clock from the menus as described in Step 2 on page 17.
- Setup is complete when the camera returns to the shooting display.
- See page 18 for more information on using SnapBridge.

Setup from the Camera Menus

The camera clock can be set manually.

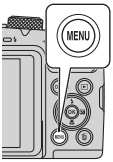
1 Turn the camera on (📖14).

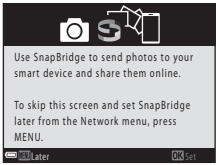


- A language selection dialog will be displayed. Press ▲ or ▼ on the multi selector (📖14) to highlight a language and press OK to select.
- The language can be changed at any time using the **Language** option in the setup menu (📖98).

2 Press MENU when the dialog at right is displayed.

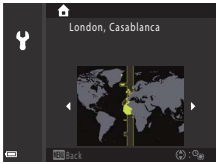
- Select **Yes** when prompted to set the camera clock.





3 Highlight your home time zone and press OK.

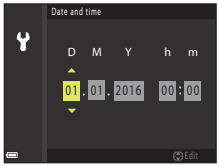
- To turn daylight saving time on press ▲; ☼ will be displayed at the top of the map. Press ▼ to turn daylight saving time off.



4 Press ▲ or ▼ to choose a date format and press OK.

5 Enter the current date and time and press OK.

- Press ◀ or ▶ to highlight items and press ▲ or ▼ to change.
- Press OK to set the clock.



6 When prompted, press ▲ or ▼ to highlight **Yes** and press OK.

- The camera exits to the shooting display when setup is complete.

Resetting the Clock

The **Time zone and date** option in the setup menu can be used to choose the time zone and set the camera clock.

Daylight saving time can be turned on or off in the **Time zone** menu.

What SnapBridge Can Do for You

The SnapBridge app can be used for a variety of tasks once the camera has been paired with your smart device.

Auto Upload

At default settings, pictures will automatically be uploaded to the smart device as they are taken.

- Place the smart device close to the camera and launch the SnapBridge app.

Option	Description
Disabling auto upload	Auto upload can be disabled using the **Send while shooting** > **Still images** option in the camera network menu (98).
Upload options	Use the **Send while shooting** > **Upload (photos)** item in the camera network menu to choose the types of pictures automatically uploaded.
Selecting pictures for upload	You can use this option to automatically upload selected pictures that were not uploaded during shooting. • Use the **Mark for upload** option in the camera playback menu (98) to select pictures. • The constant connection ensures that upload will continue even when the camera is off.
Resizing pictures for upload	Use the SnapBridge app to choose the size at which pictures are copied to the smart device. The default size is 2 megapixels.
Embedding photo info	Use the SnapBridge app to choose the information imprinted on photographs copied to the smart device. Comments and copyright information can be entered in advance from the camera setup menu. You can also imprint text entered in the SnapBridge app.

Notes About Auto Upload

Movies cannot be uploaded using the **Send while shooting** or **Mark for upload** options. To upload movies to a smart device, use the SnapBridge app.

Wireless Networks

Option	Description
Pairing	To pair the camera with a smart device (for example, with a new device or if you did not opt to pair with a smart device during setup), select **Connect to smart device** in the camera network menu and follow the instructions on page 15, starting with Step 3. The camera can be paired with up to five smart devices, but can connect to only one at a time.
Uploading pictures via Wi-Fi	A Wi-Fi connection is recommended for large-volume uploads. Follow the on-screen instructions in the SnapBridge app to switch to a Wi-Fi connection. • The **Wi-Fi** > **Network settings** item in the camera network menu contains **Auth./encryp.** and **Password** options. The default option for **Auth./encryp.** is **WPA2-PSK-AES**.

Where the Use of Wireless Devices Is Prohibited

Where the use of wireless devices is prohibited, disable wireless features in the camera network menu by selecting **On** for **Airplane mode**. This will temporarily interrupt the constant connection with the smart device, but the connection is automatically re-established when airplane mode is turned off.

Other Options for the SnapBridge App

Option	Description
Remote photography	Use the smart device to release the camera shutter. Before performing remote photography, turn the camera on.
Viewing the pictures on the camera	Use the smart device to view and download the pictures on the camera. This option is available even when the camera is off.

- See SnapBridge app online help for more information.

Basic Shooting and Playback Operations

Shooting Images....21

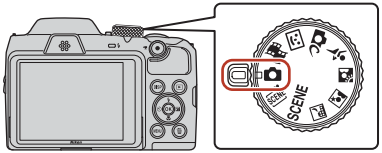
Playing Back Images....24

Deleting Images....25

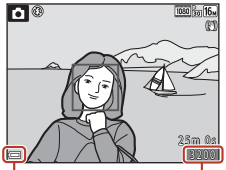
Shooting Images

(auto) mode is used here as an example. (auto) mode enables you to perform general shooting in a variety of shooting conditions.

1 Rotate the mode dial to .



- Battery level indicator
  : The battery level is high.
  : The battery level is low.
- Number of exposures remaining
  is displayed when no memory card is inserted in the camera, and images are saved in the internal memory.
- Press the **DISP** (display) button to switch the information displayed on the screen each time.

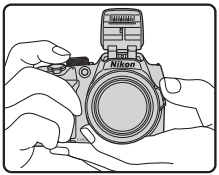


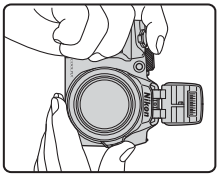
Battery level indicator

Number of exposures remaining

2 Hold the camera steady.

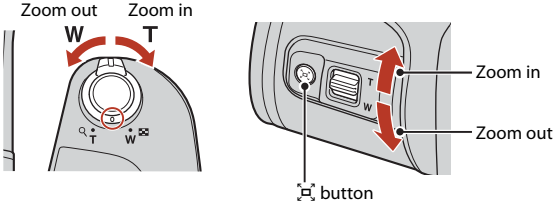
- Keep fingers and other objects away from the lens, flash, AF-assist illuminator, microphone, and speaker.





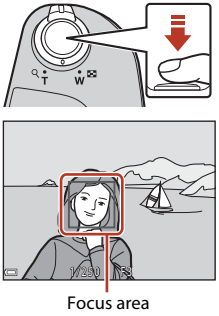
3 Frame the picture.

- Move the zoom control or the side zoom control to change the zoom lens position.
- If you lose sight of the subject while shooting with the lens in telephoto position, press the ⌑ (snap-back zoom) button to temporarily widen the visible area so that you can frame the subject more easily.



4 Press the shutter-release button halfway.

- To press the shutter-release button "halfway" means to press and hold the button at the point where you feel a slight resistance.
- When the subject is in focus, the focus area or focus indicator is displayed in green.
- When you are using digital zoom, the camera focuses in the center of the frame and the focus area is not displayed.
- If the focus area or focus indicator flashes, the camera is unable to focus. Modify the composition and try pressing the shutter-release button halfway again.



5 Without lifting your finger, press the shutter-release button all the way down.

Notes About Saving Images or Movies

The indicator showing the number of exposures remaining or the indicator showing the remaining recording time flashes while images or movies are being saved. **Do not open the battery-chamber/memory card slot cover or remove the batteries or memory card** while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card.

The Auto Off Function

- When no operations are performed for about one minute, the screen turns off, the camera enters standby mode, and then the power-on lamp flashes. The camera turns off after remaining in standby mode for about three minutes.
- To turn the screen back on while the camera is in standby mode, perform an operation such as pressing the power switch or shutter-release button.

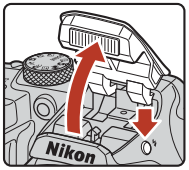
When Using a Tripod

- We recommend using a tripod to stabilize the camera in the following situations:
  - When the flash is lowered in dark locations or when using a shooting mode in which the flash does not fire
  - When the zoom is at a telephoto position
- When using a tripod to stabilize the camera during shooting, set **Photo VR** to **Off** in the setup menu (📖98) to prevent potential errors caused by this function.

Using the Flash

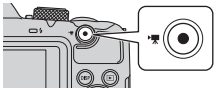
In situations where a flash is needed, such as in dark locations or when the subject is backlit, press the ϟ (flash pop-up) button to raise the flash.

- When not using the flash, gently push to lower the flash until it clicks shut.



Recording Movies

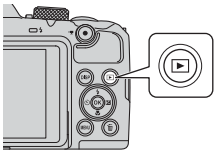
Display the shooting screen and press the ● (movie-record) button to start recording a movie. Press the ● button again to end recording.



Playing Back Images

1 Press the ▶ (playback) button to enter playback mode.

- If you press and hold down the ▶ button while the camera is turned off, the camera turns on in playback mode.

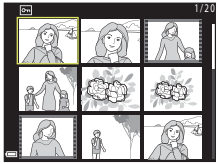


2 Use the multi selector to select an image to display.

- Press and hold down ▲▼◀▶ to scroll through the images quickly.
- Press the **DISP** (display) button to switch the information displayed on the screen each time.
- To play back a recorded movie, press the OK button.
- To return to shooting mode, press the ▶ button or shutter-release button.
- When OK: is displayed in full-frame playback mode, you can press the OK button to apply an effect to the image.

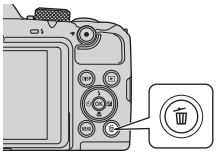
- Move the zoom control toward **T** (Q) in full-frame playback mode to zoom in on an image.

- In full-frame playback mode, move the zoom control toward **W** (▪▪) to switch to thumbnail playback mode and display multiple images on the screen.



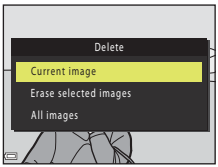
Deleting Images

1 Press the 🗑 (delete) button to delete the image currently displayed on the screen.



2 Use the multi selector ▲▼ to select the desired deletion method and press the Ⓚ button.

- To exit without deleting, press the **MENU** button.

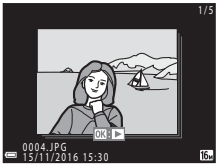


3 Select **Yes** and press the Ⓚ button.

- Deleted images cannot be recovered.

Deleting Images in a Sequence

- Images captured continuously, or with the multiple exp. lighten, creative mode, or self-collage function, are saved as a sequence, and only one image in the sequence (the key picture) is displayed in playback mode (default setting).
- If you press the 🗑 button while a key picture is displayed for a sequence of images, all images in the sequence are deleted.
- To delete individual images in a sequence, press the Ⓚ button to display them one at a time and press the 🗑 button.



Deleting the Image Captured While in Shooting Mode

When using shooting mode, press the 🗑 button to delete the last image that was saved.

The Image Selection Screen for Deletion

1 Use the multi selector ◀▶ to select the image that you want to delete.

- Move the zoom control (📖2) toward **T** (🔍) to switch to full-frame playback, or **W** (▦) to switch to thumbnail playback.

2 Use ▲▼ to select **ON** or **OFF**.

- When **ON** is selected, an icon is displayed under the selected image. Repeat steps 1 and 2 to select additional images.

3 Press the OK button to apply the image selection.

- A confirmation dialog is displayed. Follow the on-screen instructions to operate.

Shooting Features

Selecting a Shooting Mode 28

(Auto) Mode 29

Scene Mode (Shooting Suited to the Shooting Conditions) 31

Creative Mode (Applying Effects When Shooting) 41

Smart Portrait Mode (Enhancing Human Faces When Shooting) 43

Setting Shooting Functions with the Multi Selector 46

Flash Mode 47

Self-timer 49

Macro Mode (Taking Close-up Pictures) 51

Exposure Compensation (Adjusting Brightness) 52

Using the Zoom 53

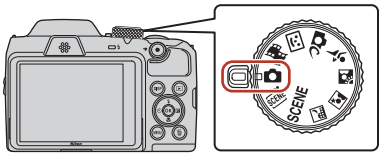
Focusing 55

Default Settings (Flash, Self-timer, and Macro Mode) 59

Functions That Cannot Be Used Simultaneously When Shooting 61

Selecting a Shooting Mode

You can rotate the mode dial to align the desired shooting mode with the indicator mark on the camera body.



- **(Auto) mode**
  Select this mode to perform general shooting in a variety of shooting conditions.
- SCENE, **(Scene) modes**
  Select any one of scene modes based on the shooting conditions, and you can take pictures with the appropriate settings for those conditions.
  - SCENE: Press the **MENU** button and select a scene mode.
  - (scene auto selector): The camera recognizes the shooting conditions when you frame a picture, and you can take pictures in accordance with the conditions.
  - (night landscape): Use this mode to shoot night landscapes.
  - (night portrait): Use this mode to shoot evening and night portraits that include background scenery.
  - (backlighting): Use this mode to shoot backlit subjects.
  - (sports): Use this mode to shoot sports photos.
- **(Creative) mode**
  The camera saves four images with effects and one image without effects simultaneously in one shot.
- **(Smart portrait) mode**
  Use glamour retouch to enhance human faces during shooting, and use the smile timer or self-collage function to take pictures.
- **(Short movie show) mode**
  The camera creates a short movie that is up to 30 seconds long (**1080/30p** or **1080/25p**) by recording and automatically combining multiple movie clips that are several seconds long.

Help Display

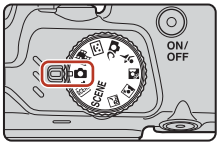
The descriptions of functions are displayed while changing the shooting mode or while the setting screen is displayed.

Press the shutter-release button halfway to quickly switch to shooting mode. You can show or hide the descriptions using **Help display** in **Monitor settings** in the setup menu.

(Auto) Mode

Select this mode to perform general shooting in a variety of shooting conditions.

- The focus area for autofocus varies depending on the setting of **AF area mode** (111). The default setting is **Target finding AF** (55).



Functions Available in (Auto) Mode

- Creative slider (29)
- Flash mode (47)
- Self-timer (49)
- Macro mode (51)
- Shooting menu (105, 106)

Using the Creative Slider

You can adjust the brightness (exposure compensation), vividness, hue, and Active D-Lighting when shooting.

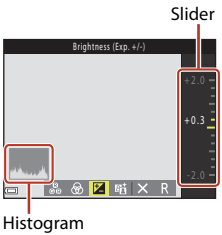
1 Press the multi selector ▶.

2 Use ◀▶ to select an item.

- **Hue**: Adjust the hue (reddish/bluish) of the entire image.
- **Vividness**: Adjust the vividness of the entire image.
- **Brightness (Exp. +/-)**: Adjust the brightness of the entire image.
- **Active D-Lighting**: Reduce the loss of details in highlights and shadows. Select H (High), N (Normal), L (Low) for the amount of effect.

3 Use ▲▼ to adjust the level.

- You can preview the results on the screen.
- To set another item, return to step 2.
- Select **Exit** to hide the slider.
- To cancel all settings, select **Reset** and press the OK button. Return to step 2 and adjust the settings again.



4 Press the OK button when setting is complete.

- The settings are applied and the camera returns to the shooting screen.

Creative Slider Settings

- This function may not be available to use in combination with other functions (61).
- The settings for brightness (exposure compensation), vividness, hue, and Active D-Lighting are saved in the camera's memory even after the camera is turned off.
- See "Using the Histogram" (52) for more information.

Active D-Lighting Versus D-Lighting

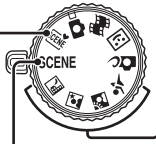
- The **Active D-Lighting** option in the shooting menu captures images while reducing loss of details in highlights, and adjusts the tone when saving images.
- The **D-Lighting** (70) option in the playback menu adjusts the tone of saved images.

Scene Mode (Shooting Suited to the Shooting Conditions)

Select any one of scene modes based on the shooting conditions, and you can take pictures with the appropriate settings for those conditions.

(scene auto selector) (📖32)

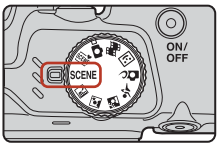
The camera recognizes the shooting conditions when you frame a picture, and you can take pictures in accordance with the conditions.

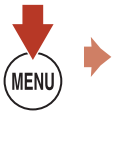


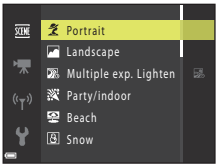
Night landscape[1, 2] (📖32),
Night portrait (📖33),
Backlighting[2] (📖33),
Sports[2] (📖34)

Rotate the mode dial to , , , or and take pictures.

SCENE







Press the **MENU** button to display the scene menu and select one of the following scene modes using the multi selector.

Portrait (default setting)	Close-up (📖35)
Landscape[1, 2]	Food (📖35)
Multiple exp. Lighten[3, 4] (📖34)	Fireworks show[1, 3] (📖35)
Party/indoor[2] (📖35)	Easy panorama[2] (📖38)
Beach[2]	Pet portrait (📖36)
Snow[2]	Moon[1, 2] (📖37)
Sunset[2, 3]	Bird-watching[1, 2] (📖37)
Dusk/dawn[1, 2, 3]	

1 The camera focuses at infinity.
2 The camera focuses on the area in the center of the frame.
3 Use of a tripod is recommended, because the shutter speed is slow. Set **Photo VR** (📖135) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.
4 When **Nightscape + light trails** is selected, the camera focuses on the area in the center of the frame. When **Nightscape + star trails** or **Star trails** is selected, the camera focuses at infinity.

Tips and Notes About Scene Mode

Scene auto selector

- The camera automatically recognizes the shooting conditions when you frame a picture, making it easier to take pictures in accordance with those conditions.
- When the camera automatically recognizes the shooting conditions, the shooting mode icon displayed on the shooting screen changes accordingly.

	Portrait (for taking close-up portraits of one or two people)
	Portrait (for taking portraits of large numbers of people, or images in which the background takes up a large portion of the frame)
	Landscape
	Night portrait* (for taking close-up portraits of one or two people)
	Night portrait* (for taking portraits of large numbers of people, or images in which the background takes up a large portion of the frame)
	Night landscape*
	Close-up
	Backlighting (for taking pictures of subjects other than people)
	Backlighting (for taking portrait pictures)
	Other shooting conditions

* One image is captured at a slow shutter speed.

- Under some shooting conditions, the camera may not select the desired settings. In this case, select another shooting mode (📖28).
- When the digital zoom is in effect, the shooting mode icon changes to .

Night landscape

- Press the MENU button to select **Hand-held** or **Tripod** in **Night landscape**.
- **Hand-held** (default setting):
  - While the icon on the shooting screen is displayed in green, press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking a picture, do not turn the camera off before the screen switches to the shooting screen.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen on the shooting screen.
- **Tripod**:
  - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
  - Vibration reduction is disabled even when **Photo VR** (📖135) in the setup menu is set to **On**.

Night portrait

- Raise the flash before shooting.
- Press the MENU button to select **Hand-held** or **Tripod** in **Night portrait**.
- **Hand-held** (default setting):
  - While the icon on the shooting screen is displayed in green, press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking a picture, do not turn the camera off before the screen switches to the shooting screen.
  - If the subject moves while the camera is shooting continuously, the image may be distorted, overlapped, or blurred.
- **Tripod**:
  - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
  - Vibration reduction is disabled even when **Photo VR** (135) in the setup menu is set to **On**.

Backlighting

- Press the MENU button to select **On** or **Off** to enable or disable the high dynamic range (HDR) function in **HDR** based on the shooting conditions.
- **Off** (default setting): The flash fires to prevent the subject from being hidden in shadow. Shoot images with the flash raised.
  - Press the shutter-release button all the way to capture one image.
- **On**: Use when taking pictures with very bright and dark areas in the same frame.
  - When the shutter-release button is pressed all the way, the camera shoots images continuously and saves the following two images.
    - A non-HDR composite image
    - An HDR composite image in which the loss of details in highlights or shadows is minimized
  - If there is only enough memory to save one image, an image processed by D-Lighting (70) at the time of shooting, in which dark areas of the image are corrected, is the only image saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking a picture, do not turn the camera off before the screen switches to the shooting screen.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen on the shooting screen.
  - Under some shooting conditions, dark shadows may appear around bright subjects or bright areas may appear around dark subjects.

Sports

- While the shutter-release button is held all the way down, images are captured continuously.
- The camera can capture up to about 7 images continuously at a rate of about 7.7 fps (when **Image mode** is set to **16M 4608×3456**).
- The frame rate for continuous shooting may become slow depending on the current image mode setting, the memory card used, or shooting conditions.
- Focus, exposure, and hue for the second and subsequent images are fixed at the values determined with the first image.

SCENE → Multiple exp. Lighten

- The camera automatically captures moving subjects at regular intervals, compares each image and composites only their bright areas, and then saves them as one image. Light trails such as the flow of car lights or motion of stars are captured.
- On the screen displayed when **Multiple exp. Lighten** is selected, select **Nightscape + light trails**, **Nightscape + star trails**, or **Star trails**.

Option	Description
Nightscape + light trails	Use to capture the flow of car lights against a night landscape background. • Shots are taken at a shutter speed of 4 seconds every 4 seconds. When 50 shots are taken, the camera automatically stops shooting. • For every 10 shots taken, one composite image with trails overlapped from the start of shooting is automatically saved.
Nightscape + star trails	Use to capture the motion of stars with a night landscape in the frame. • Shots are taken at a shutter speed of 20 seconds every 25 seconds. When 300 shots are taken, the camera automatically stops shooting. • For every 30 shots taken, one composite image with trails overlapped from the start of shooting is automatically saved.
Star trails	Use to capture the motion of stars. • Shots are taken at a shutter speed of 25 seconds every 30 seconds. When 300 shots are taken, the camera automatically stops shooting. • For every 30 shots taken, one composite image with trails overlapped from the start of shooting is automatically saved.

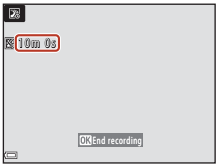
- The screen may turn off during the shooting interval. The power-on lamp lights while the screen is off.
- To end shooting before it automatically ends, press the OK button.
- When you have obtained the desired trails, end shooting. If you continue shooting, details in the composited areas may be lost.
- The images automatically saved during shooting and the image composited when shooting ends are grouped as a sequence, and the image composited when shooting ends is used as the key picture (📖67).

Notes About Multiple Exp. Lighten

- The camera cannot capture images when a memory card is not inserted.
- Do not rotate the mode dial or insert a new memory card until shooting ends.
- Use batteries with a sufficient amount of charge remaining to prevent the camera from turning off during shooting.
- Exposure compensation cannot be used (📖52).

Time Remaining

You can check the time remaining until shooting automatically ends on the screen.



SCENE ➔ Party/indoor

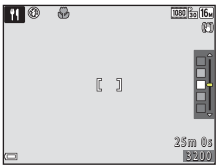
- To avoid the effects of camera shake, hold the camera steady. Set **Photo VR** (📖135) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

SCENE ➔ Close-up

- Macro mode (📖51) is enabled and the camera automatically zooms to the closest position at which it can focus.
- You can move the focus area. Press the OK button, use the multi selector ▲▼◀▶ to move the focus area, and press the OK button to apply the setting.

SCENE ➔ Food

- Macro mode (📖51) is enabled and the camera automatically zooms to the closest position at which it can focus.
- You can adjust hue by using the multi selector ▲▼. The hue setting is saved in the camera's memory even after the camera is turned off.
- You can move the focus area. Press the OK button, use the multi selector ▲▼◀▶ to move the focus area, and press the OK button to apply the setting.



SCENE ➔ Fireworks show

- The shutter speed is fixed at four seconds.
- Exposure compensation cannot be used (📖52).

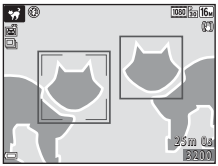
- When you point the camera at a dog or cat, the camera detects the pet's face and focuses on it. By default, the shutter is automatically released when a dog or cat face is detected (pet portrait auto release).
- On the screen displayed when **Pet portrait** is selected, select **Single** or **Continuous**.
  - **Single**: Whenever a dog or cat face is detected, the camera captures one image.
  - **Continuous**: Whenever a dog or cat face is detected, the camera captures three images continuously.

Pet Portrait Auto Release

- Press the multi selector ◀ (⏲) to change the **Pet portrait auto release** setting.
  - : The camera automatically releases the shutter when it detects a dog or cat face.
  - OFF: The camera does not release the shutter automatically, even if a dog or cat face is detected. Press the shutter-release button. The camera also detects human faces when OFF is selected.
- **Pet portrait auto release** is set to OFF after five bursts have been taken.
- Shooting is also possible by pressing the shutter-release button, regardless of the **Pet portrait auto release** setting. When **Continuous** is selected, you can take pictures continuously while holding down the shutter-release button all the way.

Focus Area

- When the camera detects a face, the face is displayed inside a yellow border. When the camera acquires focus on a face displayed inside a double border (focus area), the double border changes to green. If no faces are detected, the camera focuses on the subject in the center of the frame.
- Under some shooting conditions, the pet face may not be detected and other subjects may be displayed inside a border.



SCENE ➔ Moon

- At the wide-angle zoom position, the framing border is displayed to indicate the angle of view equivalent to that of a 900 mm lens (in 35mm [135] format). When you frame the moon inside the framing border and press the OK button, the angle of view becomes equivalent to that of a 900 mm lens.
- You can adjust hue by using the multi selector ▲▼. The hue setting is saved in the camera's memory even after the camera is turned off.
- Adjust the brightness with exposure compensation (52) according to shooting conditions such as the waxing and waning of the moon and shooting requirements.

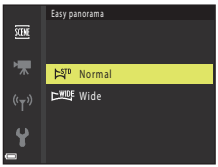
SCENE ➔ Bird-watching

- On the screen displayed when **Bird-watching** is selected, select **Single** or **Continuous**.
- **Single**: One image is shot each time the shutter-release button is pressed.
- **Continuous** (default setting): While the shutter-release button is held all the way down, images are captured continuously.
  The camera can capture up to about 7 images continuously at a rate of about 7.7 fps (when **Image mode** is set to **4608×3456**).
- At the wide-angle zoom position, the framing border is displayed to indicate the angle of view equivalent to that of a 440 mm lens (in 35mm [135] format). When you frame a bird inside the framing border and press the OK button, the angle of view becomes equivalent to that of a 440 mm lens.

Shooting with Easy Panorama

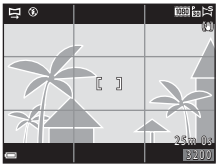
Rotate the mode dial to SCENE ➔ MENU button ➔ (easy panorama) ➔ OK button

1 Select **Normal** or **Wide** as the shooting range and press the OK button.



2 Frame the first edge of the panorama scene, and then press the shutter-release button halfway to focus.

- The zoom position is fixed at wide-angle.
- The camera focuses in the center of the frame.

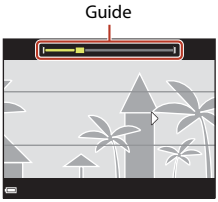


3 Press the shutter-release button all the way, and then remove your finger from the shutter-release button.

- △▽◁▷ are displayed to indicate the direction of camera movement.

4 Move the camera in one of the four directions until the guide indicator reaches the end.

- When the camera detects which direction it is moving in, shooting begins.
- Shooting ends when the camera captures the specified shooting range.
- Focus and exposure are locked until shooting ends.



Example of Camera Movement

- Using your body as the axis of rotation, move the camera slowly in an arc, in the direction of the marking (△▽◁▷).
- Shooting stops if the guide does not reach the edge within about 15 seconds (when STD **Normal** is selected) or within about 30 seconds (when WIDE **Wide** is selected) after shooting starts.

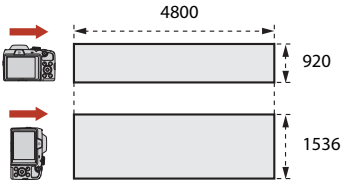
Notes About Easy Panorama Shooting

- The range of the image seen in the saved image is narrower than that seen on the screen at the time of shooting.
- If the camera is moved too quickly or shaken too much, or if the subject is too uniform (e.g. walls or darkness), an error may occur.
- If shooting is stopped before the camera reaches the half-way point in the panorama range, a panorama image is not saved.

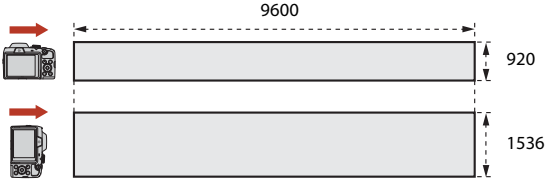
Image Size of Easy Panorama

- There are four different image sizes (in pixels), as described below.

When STD Normal is set



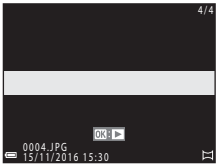
When WIDE Wide is set



- If more than half of the panorama range is captured but shooting ends before reaching the edge of the range, the image size becomes smaller.

Playback with Easy Panorama

Switch to playback mode (24), display an image captured using easy panorama in full-frame playback mode, and then press the OK button to scroll the image in the direction that was used when shooting.



Playback controls are displayed on the screen during playback. Use the multi selector ◀▶ to select a control, and then press the OK button to perform the operations described below.

Function	Icon	Description	
Rewind	◀◀	Hold down the OK button to rewind scroll playback.	
Fast-forward	▶▶	Hold down the OK button to fast-forward scroll playback.	
Pause	❚❚	Pause playback. The operations listed below can be performed while paused.	
	◀❚❚	Hold down the OK button to rewind.	
	❚❚▶	Hold down the OK button to scroll.	
	▶	Resume automatic scrolling.	
End	■	Return to full-frame playback mode.	

Notes About Easy Panorama Images

- The images cannot be edited on this camera.
- This camera may not be able to scroll the playback of, or zoom in on, easy panorama images captured with another make or model of digital camera.

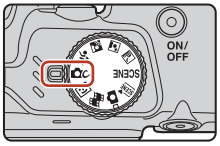
Notes About Printing Panorama Images

The entire image may not be able to be printed depending on the printer's settings. Additionally, printing may not be possible depending on the printer.

Creative Mode (Applying Effects When Shooting)

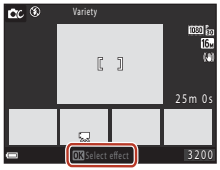
The camera saves four images with effects and one image without effects simultaneously in one shot.

- The camera focuses in the center of the frame.

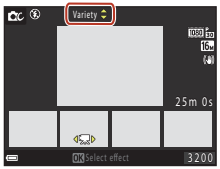


1 Press the OK button.

- The effect selection screen is displayed.



2 Use the multi selector ▲▼ to select the desired effect.



- You can select **Variety**, **Selective color (red)**, **Selective color (green)**, **Selective color (blue)**, **Light** (default setting), **Depth**, **Memory**, **Classic**, or **Noir**.
- The image without effects is displayed on the upper part of the screen. Four types of images with effects are displayed on the lower part of the screen.
- Only one type of effect can be applied to a movie. Press ◀▶ to select the desired effect.

3 Press the shutter-release button or ● (movie-record) button to shoot.

- The five saved images are treated as a sequence. One image with an applied effect is used as the key picture (📖67).

Notes About Creative Mode

When **Variety** is selected as the effect, certain **Movie options** (📖117) are not available.

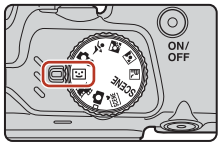
Functions Available in Creative Mode

The functions below are available when you press the OK button in step 2:

- Flash mode (47)
- Self-timer (49)
- Macro mode (51)
- Exposure compensation (52)
- Shooting menu (105)

Smart Portrait Mode (Enhancing Human Faces When Shooting)

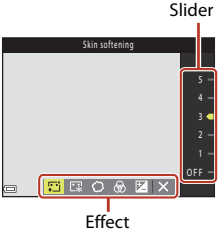
You can take a picture with the glamour retouch function to enhance human faces.



1 Press the multi selector ▶.

2 Apply an effect.

- Use ◀▶ to select the desired effect.
- Use ▲▼ to select the amount of effect.
- You can simultaneously apply multiple effects. **Skin softening**, **Foundation makeup**, **Soft**, **Vividness**, **Brightness (Exp. +/-)**
- Select **Exit** to hide the slider.
- Press the OK button after checking the settings for all effects.



3 Frame the picture and press the shutter-release button.

Notes About Smart Portrait Mode

- The amount of effect may differ between the image on the shooting screen and the saved image.
- When **Soft** is set, some **Movie options** (117) are not available.

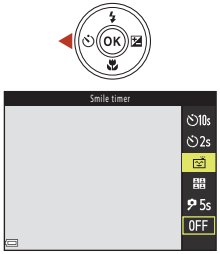
Functions Available in Smart Portrait Mode

- Smile timer (44)
- Self-Collage (45)
- Flash mode (47)
- Self-timer (49)
- Smart portrait menu (115)

Using Smile Timer

When you press the multi selector ◀ to select **Smile timer** and press the OK button, the camera automatically releases the shutter whenever a smiling face is detected.

- Set the glamour retouch function before selecting smile timer (📖43).
- When you press the shutter-release button to take a picture, smile timer is terminated.



Notes About Smile Timer

Under some shooting conditions, the camera may be unable to detect faces or detect smiles (📖56). The shutter-release button can also be used for shooting.

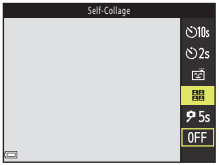
When the Self-timer Lamp Flashes

When using smile timer, the self-timer lamp flashes when the camera detects a face and flashes quickly immediately after the shutter is released.

Using Self-Collage

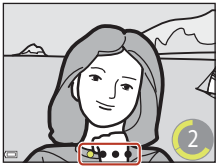
The camera can capture a series of four or nine images at intervals and save them as a one-frame image (a collage image).

1 Press the multi selector ◀ to select **Self-Collage**, and press the OK button.



- A confirmation dialog is displayed.
- When you press the MENU button and select **Self-Collage** before pressing ◀, you can configure the settings for **Number of shots**, **Interval**, and **Shutter sound** (📖115).
- If you want to apply glamour retouch when shooting, set the effect before selecting self-collage (📖43).

2 Take a picture.



- When you press the shutter-release button, a countdown starts (about five seconds) and the shutter is automatically released.
- The camera automatically releases the shutter for the remaining pictures. A countdown starts about three seconds before shooting.
- The number of shots is indicated by ○ on the screen. It is displayed in green during shooting and it changes to white after shooting.

3 On the screen displayed when the camera finishes taking the number of shots that is set in **Number of shots**, select **Yes** and press the OK button.

- The collage image is saved.
- Each captured image is saved as an individual image separate from the collage image. The images are grouped as a sequence, and a one-frame collage image is used as the key picture (📖67).
- When **No** is selected, the collage image is not saved.

Notes About Self-Collage

- If you press the shutter-release button before the camera takes the specified number of shots, shooting is canceled and the collage image is not saved. The pictures that were taken before shooting was canceled are saved as individual images.
- This function may not be available to use in combination with other functions (📖61).

Setting Shooting Functions with the Multi Selector

When the shooting screen is displayed, you can press the multi selector ▲ (ϟ) ◀ (⏲) ▼ (🌷) ▶ (±) to set the functions described below.

- **ϟ Flash mode**
  When the flash is raised, the flash mode can be set according to shooting conditions.
- **⏲ Self-timer**
  The camera releases the shutter 10 seconds, 5 seconds, or 2 seconds after you press the shutter-release button.
- **🌷 Macro mode**
  Use macro mode when you take close-up pictures.
- **± Exposure compensation**
  You can adjust overall image brightness.

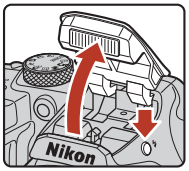
The functions that can be set vary depending on the shooting mode.

Flash Mode

When the flash is raised, the flash mode can be set according to shooting conditions.

1 Press the ϟ (flash pop-up) button to raise the flash.

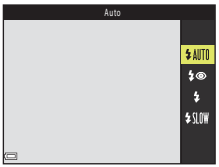
- When the flash is lowered, flash operation is disabled and ⊗ is displayed.



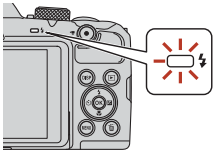
2 Press the multi selector ▲ (ϟ).

3 Select the desired flash mode (📖48) and press the OK button.

- If the setting is not applied by pressing the OK button, the selection will be canceled.



The Flash Lamp



- The status of the flash can be confirmed by pressing the shutter-release button halfway.
  - On: The flash fires when you press the shutter-release button all the way down.
  - Flashing: The flash is charging. The camera cannot shoot images.
  - Off: The flash does not fire when a picture is taken.
- If the battery level is low, the screen turns off while the flash is charging.

Available Flash Modes

AUTO	Auto
	The flash fires when necessary, such as in dim lighting. • The flash mode indicator is only displayed immediately after setting on the shooting screen.
	Auto with red-eye reduction
	Reduce red-eye in portraits caused by the flash.
	Fill flash
	The flash fires whenever a picture is taken. Use to "fill-in" (illuminate) shadows and backlit subjects.
SLOW	Slow sync
	Suited to evening and night portraits that include background scenery. The flash fires when necessary to illuminate the main subject; slow shutter speeds are used to capture background at night or under dim lighting.

Notes About Shooting with the Flash

When using the flash at the wide-angle zoom position, the area around the image may be dark depending on the distance to the subject.

This may be improved if you move the zoom control slightly toward the telephoto position.

The Flash Mode Setting

- The setting may not be available with some shooting modes (📖59).
- For (auto) mode, the applied setting is saved in the camera's memory even after the camera is turned off.

Red-eye Reduction

If the camera detects red-eye while saving an image, the affected area is processed to reduce red-eye before the image is saved.

Note the following when shooting:

- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in some situations.
- In rare cases, red-eye reduction may be applied to areas of an image unnecessarily. In these cases, select another flash mode and take the picture again.

Self-timer

The camera is equipped with a self-timer that releases the shutter 10 seconds, 5 seconds, or 2 seconds after you press the shutter-release button.
Set **Photo VR** (135) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

1 Press the multi selector ◀ (⏲).

2 Select ⏲**10s**, ⏲**2s**, or **5s**, and press the OK button.

- ⏲**10s** (10 seconds): Use on important occasions, such as weddings.
- ⏲**2s** (2 seconds): Use to prevent camera shake.
- **5s** (5 seconds) (self-portrait timer): Use for shooting with a selfie stick. Press the shutter-release button all the way, and then frame the picture. After the countdown ends, focus and exposure are set.
- If the setting is not applied by pressing the OK button, the selection will be canceled.
- When the shooting mode is **Pet portrait** scene mode, (pet portrait auto release) is displayed (36). ⏲**10s** or ⏲**2s** cannot be used.
- When the shooting mode is smart portrait mode, you can also use **Smile timer** (44) and **Self-Collage** (45) in addition to ⏲**10s**, ⏲**2s**, or **5s**.

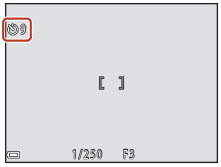
3 Frame the picture and press the shutter-release button halfway.

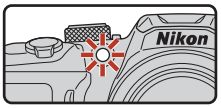
- Focus and exposure are set.

4 Press the shutter-release button all the way down.

- Countdown starts. The self-timer lamp flashes and then glows steadily about one second before the shutter is released.
- When the shutter is released, the self-timer is set to **OFF**.*
- To stop the countdown, press the shutter-release button again.

* When the shooting mode is **Moon** scene mode, the self-timer is not automatically set to **OFF**. To end the self-timer, select **OFF** in step 2.





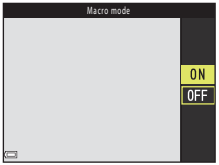
Macro Mode (Taking Close-up Pictures)

Use macro mode when you take close-up pictures.

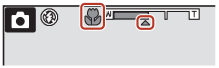
1 Press the multi selector ▼ (🌷).

2 Select **ON** and press the Ⓚ button.

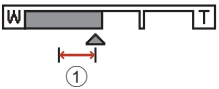
- If the setting is not applied by pressing the Ⓚ button, the selection will be canceled.



3 Move the zoom control to set the zoom ratio to a position where 🌷 and the zoom indicator are displayed in green.



- When the zoom ratio is set to a position where 🌷 and the zoom indicator are displayed in green, the camera can focus on subjects as close as approximately 10 cm (4 in.) from the lens.
- When the zoom position is at the wide-angle and in the area indicated by ①, the camera can focus on subjects as close as approximately 1 cm (0.4 in.) from the lens.



The Macro Mode Setting

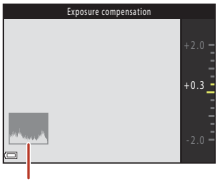
- The setting may not be available with some shooting modes (📖59).
- For 📷 (auto) mode, the applied setting is saved in the camera's memory even after the camera is turned off.

Exposure Compensation (Adjusting Brightness)

You can adjust overall image brightness.

1 Press the multi selector ▶ (⊠).

2 Select a compensation value and press the ⓞ button.



Histogram

- To brighten the image, set a positive (+) value.
- To darken the image, set a negative (–) value.
- The compensation value is applied, even without pressing the ⓞ button.
- When the shooting mode is smart portrait mode, the glamour retouch screen is displayed instead of the exposure compensation screen (📖43).
- When the shooting mode is 📷 (auto) mode, the creative slider is displayed instead of the exposure compensation screen (📖29).

Exposure Compensation Value

When the shooting mode is **Multiple exp. Lighten** (📖34) or **Fireworks show** (📖35) scene mode, exposure compensation cannot be used.

Using the Histogram

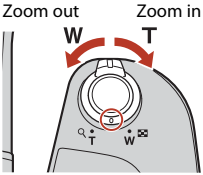
A histogram is a graph showing the distribution of tones in the image. Use as a guide when using exposure compensation and shooting without the flash.

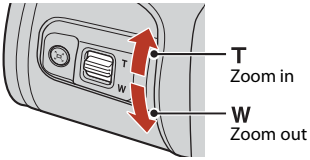
- The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.
- Increasing exposure compensation value shifts tone distribution to the right, and decreasing it shifts tone distribution to the left.

Using the Zoom

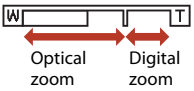
When you move the zoom control, the zoom lens position changes.

- To zoom in: Move toward **T**
- To zoom out: Move toward **W**
  When you turn the camera on, the zoom moves to the maximum wide-angle position.
- Rotating the zoom control all the way in either direction adjusts the zoom quickly (except during movie recording).
- The zoom can also be operated by moving the side zoom control (🕮2) toward **T** or **W**.





- A zoom indicator is displayed on the shooting screen when the zoom control is moved.
- Digital zoom, which allows you to further magnify the subject up to approximately 4× the maximum optical zoom ratio, can be activated by moving and holding the zoom control or the side zoom control toward **T** when the camera is zoomed in to the maximum optical zoom position.



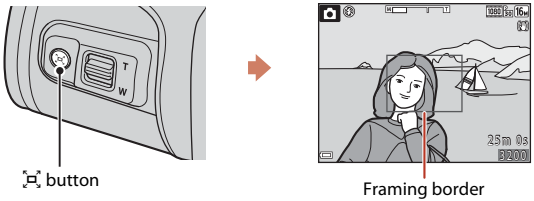
Digital Zoom

The zoom indicator changes to blue when the digital zoom is activated, and it changes to yellow when the zoom magnification is increased further.

- Zoom indicator is blue: Image quality is not noticeably reduced by using the Dynamic Fine Zoom.
- Zoom indicator is yellow: There may be cases in which image quality is noticeably reduced.
- The indicator remains blue across a wider area when the image size is smaller.
- The zoom indicator may not change to blue when using certain continuous shooting settings or other settings.

Using the Snap-back Zoom

If you lose sight of the subject while shooting with the lens in telephoto position, press the ⊡ (snap-back zoom) button to temporarily widen the visible area so that you can frame the subject more easily.



- While pressing the ⊡ button, frame the subject inside the framing border of the shooting screen. To widen the visible area further, move the zoom control toward **W** while pressing the ⊡ button.
- Release the ⊡ button to return to the original zoom position.
- Snap-back zoom is not available during movie recording.

Focusing

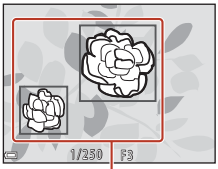
The Shutter-release Button

Press halfway		To press the shutter-release button "halfway" means to press and hold the button at the point where you feel a slight resistance. • Focus and exposure (shutter speed and f-number) are set when you press the shutter-release button halfway. Focus and exposure remain locked while the button is pressed halfway. • The focus area varies depending on the shooting mode.
Press all the way		To press the shutter-release button "all the way" means to press the button down completely. • The shutter is released when the shutter-release button is pressed all the way. • Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred images. Press the button gently.

Using Target Finding AF

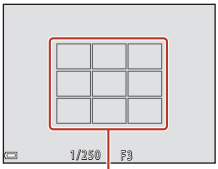
When **AF area mode** (📖111) in 📷 (auto) mode is set to **Target finding AF**, the camera focuses in the manner described below when you press the shutter-release button halfway:

- The camera detects the main subject and focuses on it. When the subject is in focus, the focus area is displayed in green. If a human face is detected, the camera automatically sets focus priority on it.



Focus areas

- If no main subject is detected, the camera automatically selects one or more of the nine focus areas containing the subject closest to the camera. When the subject is in focus, the focus areas that are in focus are displayed in green.



Focus areas

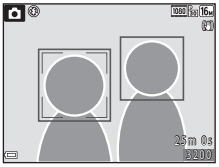
Notes About Target Finding AF

- Depending on shooting conditions, the subject that the camera determines to be the main subject may vary.
- The main subject may not be detected when using certain **White balance** settings.
- The camera may not detect the main subject appropriately in the following situations:
  - When the subject is very dark or bright
  - When the main subject lacks clearly defined colors
  - When the shot is framed so that the main subject is on the edge of the screen
  - When the main subject is composed of a repeating pattern

Using Face Detection

In the following settings, the camera uses face detection to automatically focus on human faces.

- (scene auto selector) mode (32)
- (night portrait) or **Portrait** scene mode (31)
- Smart portrait mode (43)
- When **AF area mode** (111) in (auto) mode (29) is set to **Face priority**



If the camera detects more than one face, a double border is displayed around the face that the camera focuses on, and single borders are displayed around the other faces.

If the shutter-release button is pressed halfway when no faces are detected:

- In (scene auto selector) mode, the focus area changes depending on the shooting conditions that the camera recognizes.
- In (night portrait) and **Portrait** scene modes or in smart portrait mode, the camera focuses in the center of the frame.
- In (auto) mode, the camera selects the focus area containing the subject closest to the camera.

Notes About Face Detection

- The camera's ability to detect faces depends on a variety of factors, including the direction in which the faces are looking.
- The camera cannot detect faces in the following situations:
  - When faces are partially hidden by sunglasses or otherwise obstructed
  - When faces take up too much or too little of the frame

Using Skin Softening

In the following shooting modes, if human faces are detected, the camera processes the image to soften facial skin tones before saving the image (up to three faces).

- Smart portrait mode (📖43)
  - The amount of **Skin softening** effect can be adjusted.
- SCENE (scene auto selector) mode (📖32)
- (night portrait) or **Portrait** in scene mode (📖31)

Skin softening can also be applied to saved images by using **Glamour retouch** in playback mode (📖71).

Notes About Skin Softening

- It may take more time than usual to save images after shooting.
- Under some shooting conditions, the desired skin softening results may not be achieved, and skin softening may be applied to areas of the image where there are no faces.

Subjects Not Suitable for Autofocus

The camera may not focus as expected in the following situations. In rare cases, the subject may not be in focus despite the fact that the focus area or the focus indicator is displayed in green:

- Subject is very dark
- Objects of sharply differing brightness are included in the shooting conditions (e.g. the sun behind the subject makes that subject appear very dark)
- No contrast between the subject and surroundings (e.g. a portrait subject wearing a white shirt is standing in front of a white wall)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- Subjects with repeating patterns (window blinds, buildings with multiple rows of similarly shaped windows, etc.)
- Subject is moving rapidly

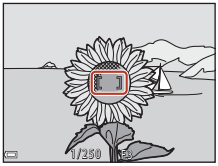
In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject positioned at the same distance from the camera as the actual desired subject, and use focus lock (📖58).

Focus Lock

Focus lock shooting is recommended when the camera does not activate the focus area that contains the desired subject.

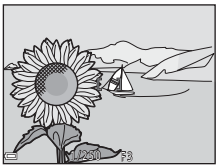
1 Set **AF area mode** to **Center** in (auto) mode (111).

2 Position the subject in the center of the frame and press the shutter-release button halfway.



- The camera focuses on the subject and the focus area is displayed in green.
- Exposure is also locked.

3 Without lifting your finger, recompose the picture.



- Make sure to maintain the same distance between the camera and the subject.

4 Press the shutter-release button all the way down to take the picture.

Default Settings (Flash, Self-timer, and Macro Mode)

The default settings for each shooting mode are listed below.

	Flash[1] (📖47)	Self-timer (📖49)	Macro mode (📖51)
(auto)	AUTO	Off	Off
Scene modes			
(scene auto selector)	AUTO[2]	Off	Off[3]
(night landscape)	[4]	Off[5]	Off[4]
(night portrait)	[6]	Off	Off[4]
(backlighting)	[7]	Off	Off[4]
(sports)	[4]	Off[4]	Off[4]
(portrait)		Off	Off[4]
(landscape)	[4]	Off[5]	Off[4]
(multiple exp. lighten)	[4]	2s	Off[4]
(party/indoor)	[8]	Off	Off[4]
(beach)	AUTO	Off	Off[4]
(snow)	AUTO	Off	Off[4]
(sunset)	[4]	Off	Off[4]
(dusk/dawn)	[4]	Off[5]	Off[4]
(close-up)		Off	On[4]
(food)	[4]	Off	On[4]
(fireworks show)	[4]	Off[4]	Off[4]
(easy panorama)	[4]	Off[4]	Off[4]
(pet portrait)	[4]	[9]	Off
(moon)	[4]	2s	Off[4]
(bird-watching)	[4]	Off	Off
(creative mode)	AUTO	Off	Off
(smart portrait)	AUTO[10]	Off[11]	Off[4]
(short movie show)	[4]	Off	Off

[1] The setting that is used when the flash is raised.
[2] The camera automatically selects the flash mode appropriate for the shooting conditions it has selected. (off) can be selected manually.
[3] Cannot be changed. The camera enters macro mode when is selected.
[4] Cannot be changed.
[5] **5s** cannot be used.
[6] Cannot be changed. When set to **Hand-held**, the flash mode setting is fixed at auto and slow sync with red-eye reduction. When set to **Tripod**, the flash mode setting is fixed at fill flash and slow sync with red-eye reduction.
[7] Flash is fixed at (fill flash) when **HDR** is set to **Off**. The flash does not fire when **HDR** is set to **On**.
[8] May switch to slow sync with red-eye reduction flash mode.
[9] Pet portrait auto release can be set to on or off. **10s** or **2s** cannot be used.
[10] Cannot be used when **Blink proof** is set to **On**.
[11] **Smile timer** (📖44) and **Self-Collage** (📖45) can be used in addition to **10s**, **2s**, or **5s**.

Functions That Cannot Be Used Simultaneously When Shooting

Some functions cannot be used with other menu settings.

Restricted function	Setting	Description
Flash mode	Continuous (📖108)	When a setting other than **Single** is selected, the flash cannot be used.
	Blink proof (📖116)	When **Blink proof** is set to **On**, the flash cannot be used.
Self-timer	AF area mode (📖111)	When **Subject tracking** is selected, the self-timer cannot be used.
Macro mode	AF area mode (📖111)	When **Subject tracking** is selected, macro mode cannot be used.
Image mode	Continuous (📖108)	**Image mode** is set as follows depending on the continuous shooting setting: • **Pre-shooting cache**: 2M (image size: 1600 × 1200 pixels) • **Continuous H: 120 fps**: VGA (image size: 640 × 480 pixels) • **Continuous H: 60 fps**: 1M (image size: 1280 × 960 pixels)
White balance	Hue (using the creative slider) (📖29)	When hue is adjusted using the creative slider, **White balance** in the shooting menu cannot be set. To set **White balance**, select R in the creative slider setting screen to reset the brightness, vividness, hue, and Active D-Lighting.
Continuous	Self-timer (📖49)	If the self-timer is used when **Pre-shooting cache** is selected, the setting is fixed at **Single**.
ISO sensitivity	Continuous (📖108)	When **Pre-shooting cache**, **Continuous H: 120 fps**, or **Continuous H: 60 fps** is selected, **ISO sensitivity** is fixed at **Auto**.
AF area mode	White balance (📖106)	When a setting other than **Auto** is selected for **White balance** in **Target finding AF** mode, the camera does not detect the main subject.
Blink proof	Self-Collage (📖45)	When **Self-Collage** is selected, **Blink proof** is disabled.

Restricted function	Setting	Description
Date stamp	Continuous (📖108)	When **Pre-shooting cache**, **Continuous H: 120 fps**, or **Continuous H: 60 fps** is selected, date and time cannot be stamped on images.
Digital zoom	AF area mode (📖111)	When **Subject tracking** is selected, digital zoom cannot be used.

Notes About Digital Zoom

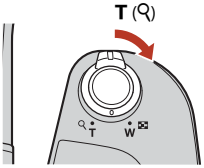
- Depending on the shooting mode or the current settings, digital zoom may not be available (📖136).
- When digital zoom is in effect, the camera focuses in the center of the frame.

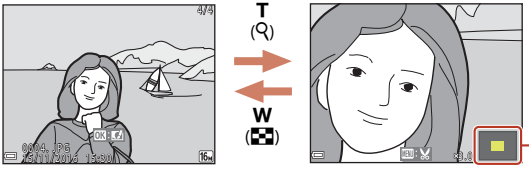
Playback Features

Playback Zoom 64
Thumbnail Playback/Calendar Display 65
List by Date Mode 66
Viewing and Deleting Images in a Sequence 67
Editing Images (Still Images) 69

Playback Zoom

Moving the zoom control toward **T** (playback zoom) in full-frame playback mode (24) zooms in on the image.





Full-frame Playback

Image is zoomed in.

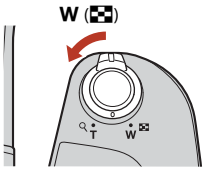
- You can change the magnification rate by moving the zoom control toward **W** or **T**.
- To view a different area of the image, press the multi selector ▲▼◀▶.
- When a zoomed image is displayed, press the OK button to return to full-frame playback mode.

Cropping Images

When a zoomed image is displayed, you can press the MENU button to crop the image to include only the visible portion and save it as a separate file (74).

Thumbnail Playback/Calendar Display

Moving the zoom control toward **W** (▪ thumbnail playback) in full-frame playback mode (📖24) displays images as thumbnails.



Full-frame Playback | Thumbnail Playback | Calendar Display

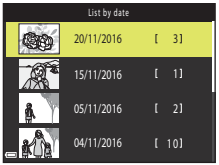
- You can change the number of thumbnails displayed by moving the zoom control toward **W** (▪) or **T** (🔍).
- While using thumbnail playback mode, press the multi selector ▲▼◀▶ to select an image and then press the ⓞ button to display that image in full-frame playback mode.
- While using calendar display mode, press ▲▼◀▶ to select a date and then press the ⓞ button to display the images captured on that day.

Notes About Calendar Display

Images captured when the camera's date is not set are treated as images captured on January 1, 2016.

List by Date Mode

Press the ▶ button (playback mode) ➔ MENU button ➔ MODE menu icon ➔ List by date ➔ OK button



Use the multi selector ▲▼ to select a date and then press the OK button to play back the images captured on the selected date.

- Functions in the playback menu (📖124) can be used for the images in the selected shooting date (except **Copy**).
- The following operations are available while the shooting date selection screen is displayed.
  - MENU button: The functions listed below are available.
    - Slide show
    - Protect*

    * The same settings can be applied to all images captured on the selected date.
  - 🗑 button: Deletes all images captured on the selected date.

Notes About List by Date Mode

- Up to the most recent 29 dates can be selected. If images exist for more than 29 dates, all images saved earlier than the most recent 29 dates will be combined under **Others**.
- The 9,000 most recent images can be displayed.
- Images captured when the camera's date is not set are treated as images captured on January 1, 2016.

Viewing and Deleting Images in a Sequence

Viewing Images in a Sequence

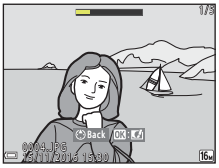
Images captured continuously, or with the multiple exp. lighten, creative mode, or self-collage function, are saved as a sequence.

One image in a sequence is used as the key picture to represent the sequence when displayed in full-frame playback mode or thumbnail playback mode.

To display each image in the sequence individually, press the OK button.

After pressing the OK button, the operations listed below are available.

- To display the previous or next image, press the multi selector ◀▶.
- To display images that are not included in the sequence, press ▲ to return to the key picture display.
- To display images in a sequence as thumbnails, or to play them back in a slide show, set **Sequence display options** to **Individual pictures** in the playback menu (📖128).



Sequence Display Options

Images captured with cameras other than this camera cannot be displayed as a sequence.

Playback Menu Options Available When Using Sequence

- When images in a sequence are displayed in full-frame playback mode, press the MENU button to select functions in playback menu (📖124).
- If you press the MENU button when a key picture is displayed, the following settings can be applied to all images in the sequence:
  - Mark for upload, Protect, Copy

Deleting Images in a Sequence

When the 🗑 (delete) button is pressed for images in a sequence, the images that are deleted vary depending on how the sequences are displayed.

- When the key picture is displayed:
  - **Current image**: All images in the displayed sequence are deleted.
  - **Erase selected images**: When a key picture is selected on the erase selected images screen (📖26), all images in that sequence are deleted.
  - **All images**: All images on the memory card or in the internal memory are deleted.

- When images in a sequence are displayed in full-frame playback mode:
  - **Current image**: The image currently displayed is deleted.
  - **Erase selected images**: Images that are selected in the sequence are deleted.
  - **Entire sequence**: All images in the displayed sequence are deleted.

Editing Images (Still Images)

Before Editing Images

You can easily edit images on this camera. Edited copies are saved as separate files. Edited copies are saved with the same shooting date and time as the original.

Restrictions on Image Editing

- An image can be edited up to 10 times. A still image created by editing a movie can be edited up to 9 times.
- You may not be able to edit images of a certain size or with certain editing functions.

Quick Effects: Changing Hue or Mood

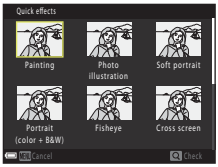
Process images with a variety of effects.

You can select **Painting**, **Photo illustration**, **Soft portrait**, **Background monochrome portrait**, **Fisheye**, **Cross screen**, or **Miniature effect**.

1 Display the image to which you want to apply an effect in full-frame playback mode and press the OK button.

2 Use the multi selector ▲▼◀▶ to select the desired effect and press the OK button.

- Move the zoom control (📖2) toward **T** (🔍) to switch to full-frame playback or **W** (▦) to switch to thumbnail playback.
- To exit without saving the edited image, press the MENU button.



3 Select **Yes** and press the OK button.

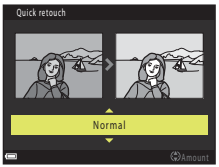
- An edited copy is created.

Quick Retouch: Enhancing Contrast and Saturation

Press the ▶ button (playback mode) ➔ Select an image ➔ MENU button ➔ Quick retouch ➔ OK button

Use the multi selector ▲▼ to select the desired effect level and press the OK button.

- The edited version is displayed on the right.
- To exit without saving the copy, press ◀.

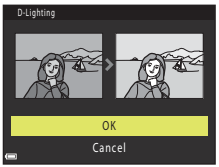


D-Lighting: Enhancing Brightness and Contrast

Press the ▶ button (playback mode) ➔ Select an image ➔ MENU button ➔ D-Lighting ➔ OK button

Use the multi selector ▲▼ to select **OK** and press the OK button.

- The edited version is displayed on the right.
- To exit without saving the copy, select **Cancel** and press the OK button.

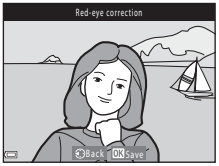


Red-eye Correction: Correcting Red-eye When Shooting with the Flash

Press the ▶ button (playback mode) ➔ Select an image ➔ MENU button ➔ Red-eye correction ➔ OK button

Preview the result and press the OK button.

- To exit without saving the copy, press the multi selector ◀.



Notes About Red-eye Correction

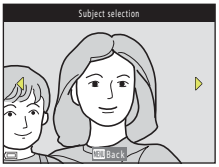
- Red-eye correction can only be applied to images when red-eye is detected.
- Red-eye correction can be applied to pets (dogs or cats) even if their eyes are not red.
- Red-eye correction may not produce the desired results in some images.
- In rare cases, red-eye correction may be applied unnecessarily to other areas of the image.

Glamour Retouch: Enhancing Human Faces

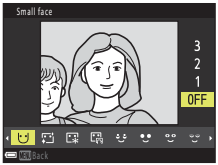
Press the ▶ button (playback mode) ➔ Select an image ➔ MENU button ➔ Glamour retouch ➔ OK button

1 Use the multi selector ▲▼◀▶ to select the face that you want to retouch and press the OK button.

- When only one face is detected, proceed to step 2.

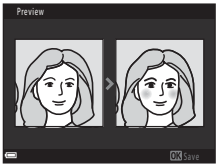


2 Use ◀▶ to select the effect, use ▲▼ to select the effect level, and press the OK button.



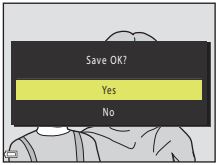
- You can simultaneously apply multiple effects. Adjust or check the settings for all effects before pressing the OK button.
  Small face, **Skin softening**, **Foundation makeup**, **Glare reduction**, **Hide eye bags**, **Big eyes**, **Whiten eyes**, **Eye shadow**, **Mascara**, **Whiten teeth**, **Lipstick**, **Redden cheeks**
- Press the MENU button to return to the screen for selecting a person.

3 Preview the result and press the OK button.



- To change the settings, press ◀ to return to step 2.
- To exit without saving the edited image, press the MENU button.

4 Select **Yes** and press the OK button.



- An edited copy is created.

Notes About Glamour Retouch

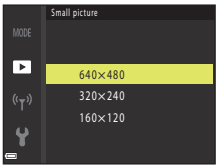
- One face can be edited at a time. To apply glamour retouch to another face, edit the edited image again.
- Depending on the direction in which faces are looking, or the brightness of faces, the camera may be unable to accurately detect faces, or the glamour retouch function may not perform as expected.
- If no faces are detected, a warning is displayed and the screen returns to the playback menu.
- The glamour retouch function is available only for images captured at an ISO sensitivity of 1600 or lower, and the image size of 640 × 480 or larger.

Small Picture: Reducing the Size of an Image

Press the ▶ button (playback mode) ➔ Select an image ➔ MENU button ➔ Small picture ➔ OK button

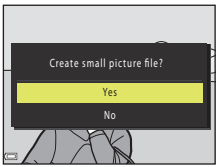
1 Use the multi selector ▲▼ to select the desired copy size and press the OK button.

- For images captured at an image mode setting of 16:9 **4608×2592**, only **640×360** is displayed, and for those of 1:1 **3456×3456**, only **480×480** is displayed.



2 Select **Yes** and press the OK button.

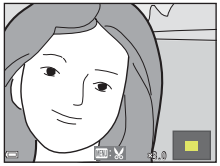
- An edited copy is created (compression ratio of approximately 1:8).



Crop: Creating a Cropped Copy

1 Move the zoom control to enlarge the image (64).

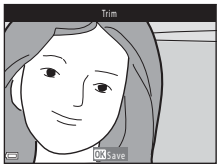
2 Adjust the image so that only the portion that you want to keep is displayed, and then press the MENU (menu) button.



- Move the zoom control toward **T** (Q) or **W** (▪▪) to adjust the magnification rate. Set a magnification rate at which MENU: ✂ is displayed.
- Use the multi selector ▲▼◀▶ to scroll to the portion of the image that you want to display.

3 Confirm the area that you want to keep, and press the OK button.

- To set the area again, press ◀.



4 Select **Yes** and press the OK button.

- An edited copy is created.

Image Size

- The aspect ratio (horizontal to vertical) of the cropped copy is the same as the original.
- When the image size of the cropped copy is 320 × 240 or smaller, the image is displayed at a smaller size during playback.

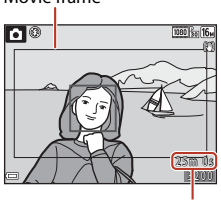
Movies

Basic Operations of Movie Recording and Movie Playback 76
Capturing Still Images While Recording Movies 79
Short Movie Show Mode (Combining Movie Clips to Create Short Movies) ... 80
Operations During Movie Playback 83
Editing Movies 84

Basic Operations of Movie Recording and Movie Playback

1 Display the shooting screen.

- Check the remaining amount of movie recording time.
- It is recommended that you display the movie frame that indicates the area that will be recorded in a movie (🕮77).

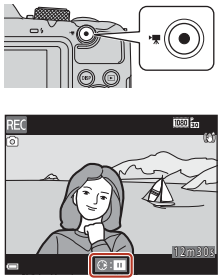


2 Lower the flash (🕮23).

- Recording movies while the flash is raised may cause the audio to be muffled.

3 Press the ● (movie-record) button to start movie recording.

- The camera focuses on the subject in the center of the frame.
- Press the multi selector ▶ to pause recording, and press ▶ again to resume recording (except when an HS movie option is selected in **Movie options**). Recording automatically ends if it remains paused for about five minutes.

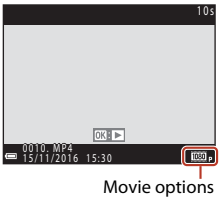


- You can capture a still image by pressing the shutter-release button while recording a movie (🕮79).

4 Press the ● (movie-record) button again to end recording.

5 Select a movie in full-frame playback mode and press the OK button to play it back.

- An image with a movie options icon is a movie.



Movie Frame

- Press the **DISP** button to display the movie frame (📖4). Check the range of a movie in the frame before movie recording.
- The area that is recorded in a movie varies depending on the **Movie options** or **Movie VR** settings in the movie menu.

Maximum Movie Recording Time

Individual movie files cannot exceed 4 GB in size or 29 minutes in length, even when there is sufficient free space on the memory card for longer recording.

- The remaining recording time for a single movie is displayed on the shooting screen.
- The actual remaining recording time may vary depending on the movie content, subject movement, or type of memory card.
- Memory cards with an SD Speed Class rating of 6 or faster are recommended when recording movies (📖168). Movie recording may stop unexpectedly when a memory card with a lower Speed Class rating is used.

Camera Temperature

- The camera may become hot when recording movies for an extended period of time or when the camera is used in a hot area.
- If the inside of the camera becomes extremely hot when recording movies, the camera will automatically stop recording.
  The amount of time remaining until the camera stops recording (10s) is displayed.
  After the camera stops recording, it turns itself off.
  Leave the camera off until the inside of the camera has cooled.

Notes About Movie Recording

Notes About Saving Images or Movies

The indicator showing the number of exposures remaining or the indicator showing the remaining recording time flashes while images or movies are being saved. **Do not open the battery-chamber/memory card slot cover or remove the batteries or memory card** while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card.

Notes About Recorded Movies

- When using the camera's internal memory, saving movies may take some time.
- There may be some degradation in image quality when digital zoom is used.
- The sounds of zoom control operation, zoom, autofocus lens drive movement, vibration reduction, and aperture operation when brightness changes may be recorded.
- The following phenomena may be seen on the screen while recording movies. These phenomena are saved in the recorded movies.
  - Banding may occur in images under fluorescent, mercury-vapor, or sodium-vapor lighting.
  - Subjects that move quickly from one side of the frame to the other, such as a moving train or car, may appear skewed.
  - The entire movie image may be skewed when the camera is panned.
  - Lighting or other bright areas may leave residual images when the camera is moved.
- Depending on the distance to the subject or the amount of zoom applied, colored stripes may appear on subjects with repeating patterns (fabrics, lattice windows, etc.) during movie recording and playback. This occurs when the pattern in the subject and the layout of the image sensor interfere with each other; it is not a malfunction.

Notes About Vibration Reduction During Movie Recording

- When **Movie VR** (📖122) in the movie menu is set to **On (hybrid)**, the angle of view (i.e., the area visible in the frame) becomes narrower during movie recording.
- When using a tripod to stabilize the camera during shooting, set **Movie VR** to **Off** to prevent potential errors caused by this function.

Notes About Autofocus for Movie Recording

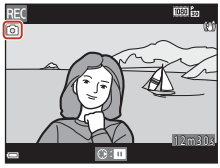
Autofocus may not perform as expected (📖57). Should this occur, try the following:

1. Set **Autofocus mode** in the movie menu to **Single AF** (default setting) before starting movie recording.
2. Frame another subject (positioned at the same distance from the camera as the intended subject) in the center of the frame, press the ● (movie-record) button to start recording, and modify the composition.

Capturing Still Images While Recording Movies

If the shutter-release button is pressed all the way while recording a movie, one frame is saved as a still image. Movie recording continues while the still image is being saved.

- A still image can be captured when 📷 is displayed on the screen. When 🚫 is displayed, a still image cannot be captured.
- The size of the captured still image is determined by the movie image size (📖117).

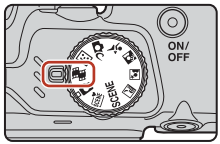


Notes About Capturing Still Images During Movie Recording

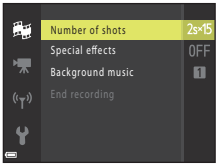
- Still images cannot be saved during movie recording in the following situations:
  - When the remaining movie recording time is less than five seconds
  - When **Movie options** (📖117) is set to **1080/60i**, **1080/50i**, **480/30p**, **480/25p**, or HS movie
- The sounds of operating the shutter-release button when saving a still image may be heard in the recorded movie.
- If the camera moves when the shutter-release button is pressed, the image may be blurred.

Short Movie Show Mode (Combining Movie Clips to Create Short Movies)

The camera creates a short movie that is up to 30 seconds long (1080 60p **1080/30p** or 1080 25p **1080/25p**) by recording and automatically combining multiple movie clips that are several seconds long.

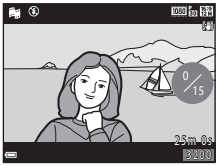


1 Press the MENU (menu) button and configure the settings for recording movies.



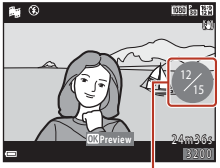
- **Number of shots**: Set the number of movie clips that the camera records and the recording time for each movie clip. By default, the camera records 15 movie clips that are 2 seconds each to create a 30-second short movie.
- **Special effects** (📖82): Apply various effects to movies when shooting. Effects can be changed for each movie clip.
- **Background music**: Select the background music. You can preview it by moving the zoom control (📖2) toward **T** (🔍).
- After the settings are complete, press the MENU button or shutter-release button to exit the menu.

2 Press the ● (movie-record) button to record a movie clip.



- The camera automatically stops recording the movie clip when the time specified in step 1 elapses.
- Movie clip recording can be paused temporarily. See "Pausing Movie Recording" (📖81).

3 Check the recorded movie clip, or delete it.



Number of movie clips recorded

- To check it, press the OK button.
- To delete it, press the 🗑 button. The last recorded movie clip or all movie clips can be deleted.
- To continue recording movie clips, repeat the operation in step 2.
- To change the effects, return to step 1.

4 Save the short movie show.

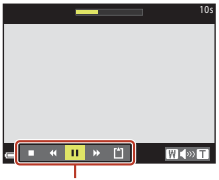
- The short movie show is saved when the camera finishes recording the specified number of movie clips.
- To save a short movie show before the camera finishes recording the specified number of movie clips, press the MENU button when the shooting standby screen is displayed, and then select **End recording**.
- Movie clips are deleted when a short movie show is saved.

Operations During Movie Clip Playback

To adjust the volume, move the zoom control while a movie clip is playing (📖2).

Playback controls are displayed on the screen.

The operations described below can be performed by using the multi selector ◀▶ to select a control and then pressing the OK button.



Playback controls

Function	Icon	Description	
Rewind	◀◀	Hold down the OK button to rewind the movie.	
Fast-forward	▶▶	Hold down the OK button to fast-forward the movie.	
Pause	❚❚	Pause playback. The operations listed below can be performed while paused.	
	◀❚	Rewind the movie one frame. Hold down the OK button for continuous rewinding.	
	❚▶	Advance the movie one frame. Hold down the OK button for continuous advancing.	
	▶	Resume playback.	
End playback	■	Return to the shooting screen.	
End recording	📁	Save the short movie show using the recorded movie clips.	

Notes About Recording a Short Movie Show

- The camera cannot record movies if a memory card is not inserted.
- Do not exchange the memory card until a short movie show is saved.

Pausing Movie Recording

- A still image (4608×2592) can be captured if you press the shutter-release button when the shooting standby screen is displayed.
- You can pause movie recording and play back images or enter other shooting modes to take pictures. Movie recording resumes when you enter short movie show mode again.

Functions Available in Short Movie Show Mode

- Self-timer (📖49)
- Macro mode (📖51)
- Exposure compensation (📖52)
- Short movie show menu (📖80)
- Movie options menu (📖117)

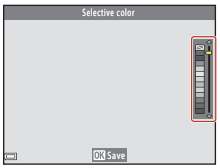
Using Special Effects

Apply effects to images during shooting.

Rotate the mode dial to 🎬 ➔ MENU button ➔ 🎬 menu icon ➔ Special effects ➔ OK button

Type	Description
SOFT Soft	Softens the image by adding a slight blur to the entire image.
SEPIA Nostalgic sepia	Adds a sepia tone and reduces the contrast to simulate the qualities of an old photograph.
High-contrast monochrome	Creates a black-and-white photograph with a strong contrast.
Selective color	Keeps only a selected color and makes other colors black-and-white.
POP Pop	Increases the color saturation of the entire image to create a bright look.
Cross process	Gives the image a mysterious appearance based on a specific color.
TOY1 Toy camera effect 1	Gives the entire image a yellowish hue and darkens the image periphery.
TOY2 Toy camera effect 2	Decreases the color saturation of the entire image and darkens the image periphery.
Mirror	Creates a bilaterally symmetric image whose right half is an inverted mirror image of the left half.
OFF Off (default setting)	No effect is applied to the image.

- When **Selective color** or **Cross process** is selected, use the multi selector ▲▼ to select the desired color, and press the OK button to apply the color. To change the color selection, press the OK button again.



Operations During Movie Playback

To adjust the volume, move the zoom control while a movie is playing (📖2).

Volume indicator

Playback controls are displayed on the screen.

The operations described below can be performed by using the multi selector ◀▶ to select a control and then pressing the OK button.

When paused

Function	Icon	Description	
Rewind	◀◀	Hold down the OK button to rewind the movie.	
Fast-forward	▶▶	Hold down the OK button to fast-forward the movie.	
Pause	❚❚	Pause playback. The operations listed below can be performed while paused.	
	◀❚	Rewind the movie one frame. Hold down the OK button for continuous rewinding.	
	❚▶	Advance the movie one frame. Hold down the OK button for continuous advancing.	
	✂	Extract the desired portion of a movie and save it as a separate file.	
	📷	Extract a single frame of a movie and save it as a still image.	
	▶	Resume playback.	
End	■	Return to full-frame playback mode.	

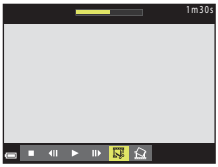
Editing Movies

Extracting Only the Desired Portion of a Movie

The desired portion of a recorded movie can be saved as a separate file.

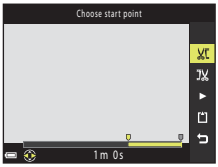
1 Play back a desired movie and pause at the start point of the portion that you want to extract (📖83).

2 Use the multi selector ◀▶ to select the ✂ control, and then press the OK button.



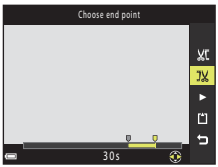
3 Use ▲▼ to select ✂ (choose start point).

- Use ◀▶ to move the start point.
- To cancel editing, select ↩ (back), and press the OK button.



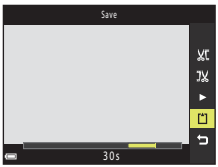
4 Use ▲▼ to select ✂ (choose end point).

- Use ◀▶ to move the end point.
- To preview the specified portion, select ▶ and then press the OK button. Press the OK button again to stop previewing.



5 Use ▲▼ to select 💾 (save) and press the OK button.

- Follow the instructions on the screen to save the movie.



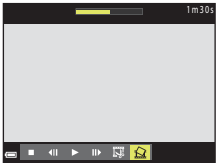
Notes About Movie Editing

- Use batteries with a sufficient amount of charge remaining to prevent the camera from turning off during editing. When the battery level indicator is , movie editing is not possible.
- A movie that was created by editing cannot be edited again.
- The actual trimmed portion of a movie may differ slightly from the portion selected using the start and end points.
- Movies cannot be trimmed so that they are less than two seconds long.

Saving a Frame from a Movie as a Still Image

The desired frame of a recorded movie can be extracted and saved as a still image.

- Pause a movie and display the frame to be extracted (83).
- Use the multi selector ◀▶ to select the control and press the OK button.



- Select **Yes** when a confirmation dialog is displayed, and press the OK button to save the image.
- The image quality of the still images to be saved is normal (compression ratio of approximately 1:8). The image size is determined by the original movie image size (117).

Notes About Saving Still Images

Still images cannot be saved from movies recorded at **1080/60i**, **1080/50i**, **480/30p**, **480/25p**, or HS movie (117).

Connecting the Camera to a TV, Printer, or Computer

Utilizing Images 87

Viewing Images on a TV 88

Printing Images Without a Computer 90

Transferring Images to a Computer (ViewNX-i) 94

Utilizing Images

In addition to using the SnapBridge app (iii) to enjoy the captured images, you can also utilize the images in various ways by connecting the camera to the devices described below.

Viewing Images on a TV

Images and movies captured with the camera can be viewed on a TV.
Connection method: Connect the video and audio plugs of the optional audio video cable to the TV's input jacks. Alternatively, connect a commercially available HDMI cable to the TV's HDMI input jack.

Printing Images Without a Computer

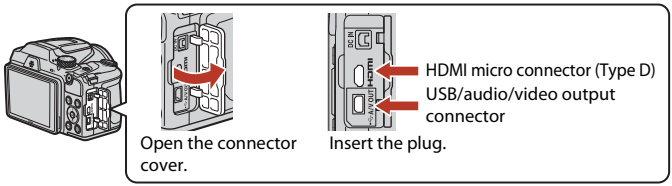
If you connect the camera to a PictBridge-compatible printer, you can print images without using a computer.
Connection method: Connect the camera directly to the printer's USB port with the included USB cable.

Transferring Images to a Computer (ViewNX-i)

You can transfer images and movies to a computer for viewing and editing.
Connection method: Connect the camera to the computer's USB port with the USB cable.

- Before connecting to a computer, install ViewNX-i on the computer.

Notes About Connecting Cables to the Camera



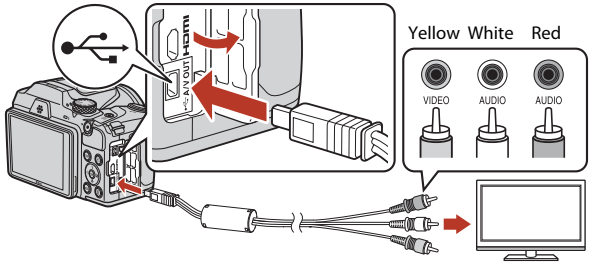
- Make sure to turn the camera off before connecting or disconnecting cables. Check the shape and direction of the plugs and do not insert or remove the plugs at an angle.
- Make sure that the remaining battery level is sufficient. If the EH-67/EH-67s AC Adapter (available separately) is used, this camera can be powered from an electrical outlet. Do not, under any circumstances, use an AC adapter other than the EH-67/EH-67s. Failure to observe this precaution could result in overheating or damage to the camera.
- For information about the connection methods and subsequent operations, refer to the documentation included with the device in addition to this document.

Viewing Images on a TV

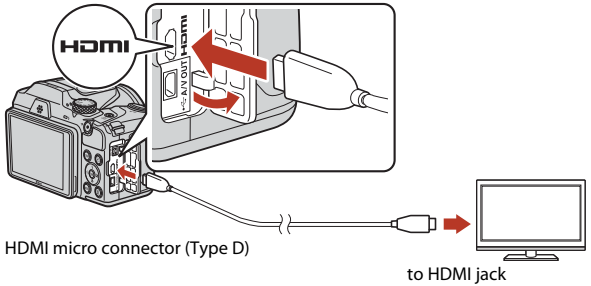
1 Turn off the camera and connect it to the TV.

- Check the shape and direction of the plugs and do not insert or remove the plugs at an angle.

When using the audio/video cable



When using a commercially available HDMI cable

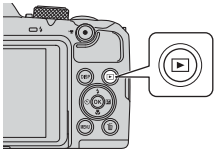


2 Set the TV's input to external input.

- See the documentation provided with your TV for details.

3 Press and hold down the ▶ (playback) button to turn on the camera.

- Images are displayed on the TV.
- The camera screen does not turn on.



Printing Images Without a Computer

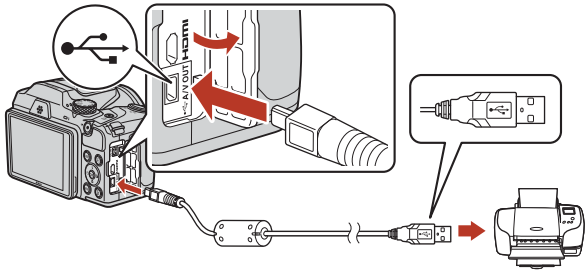
Users of PictBridge-compatible printers can connect the camera directly to the printer and print images without using a computer.

Connecting the Camera to a Printer

1 Turn on the printer.

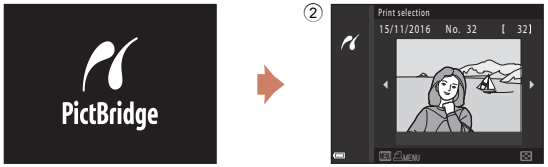
2 Turn off the camera and connect it to the printer using the USB cable.

- Check the shape and direction of the plugs and do not insert or remove the plugs at an angle.



3 Turn on the camera.

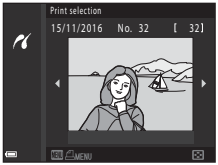
- The **PictBridge** startup screen (①) is displayed on the camera screen, followed by the **Print selection** screen (②).



Printing Images One at a Time

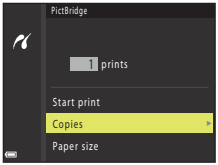
1 Use the multi selector ◀▶ to select the desired image and press the ⓞ button.

- Move the zoom control toward **W** (▦) to switch to thumbnail playback or **T** (🔍) to switch to full-frame playback.



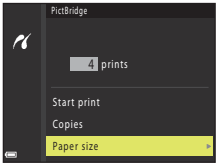
2 Use ▲▼ to select **Copies** and press the ⓞ button.

- Use ▲▼ to set the desired number of copies (up to nine) and press the ⓞ button.



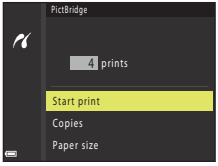
3 Select **Paper size** and press the ⓞ button.

- Select the desired paper size and press the ⓞ button.
- To print with the paper size setting configured on the printer, select **Default**.
- The paper size options available on the camera vary depending on the printer that you use.



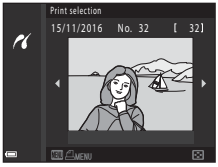
4 Select **Start print** and press the ⓞ button.

- Printing starts.



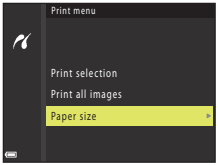
Printing Multiple Images

1 When the **Print selection** screen is displayed, press the MENU (menu) button.

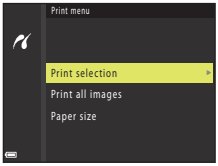


2 Use the multi selector ▲▼ to select **Paper size** and press the OK button.

- Select the desired paper size and press the OK button.
- To print with the paper size setting configured on the printer, select **Default**.
- The paper size options available on the camera vary depending on the printer that you use.
- To exit the print menu, press the MENU button.



3 Select **Print selection** or **Print all images** and press the OK button.



Print selection

Select images (up to 99) and the number of copies (up to 9) of each.

- Use the multi selector ◀▶ to select images, and use ▲▼ to specify the number of copies to be printed.
- Images selected for printing are indicated by and the number of copies to be printed. To cancel the print selection, set the number of copies to 0.
- Move the zoom control toward **T** (Q) to switch to full-frame playback or **W** (▦) to switch to thumbnail playback.
- Press the OK button when setting is complete. When the screen for confirming the number of print copies is displayed, select **Start print** and press the OK button to start printing.

Print all images

One copy each of all images saved in the internal memory, or on the memory card, is printed.

- When the screen for confirming the number of print copies is displayed, select **Start print** and press the OK button to start printing.

Transferring Images to a Computer (ViewNX-i)

Installing ViewNX-i

ViewNX-i is free software that enables you to transfer images and movies to your computer for viewing and editing.

To install ViewNX-i, download the latest version of the ViewNX-i installer from the following website and follow the on-screen instructions to complete installation.

ViewNX-i: http://downloadcenter.nikonimglib.com

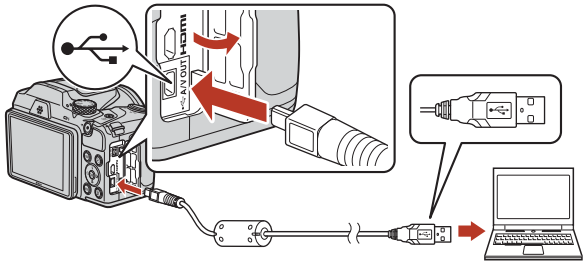
For system requirements and other information, see the Nikon website for your region.

Transferring Images to a Computer

1 Prepare a memory card that contains images.

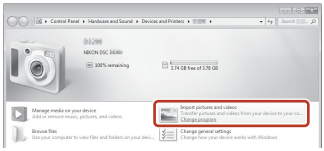
You can use any of the methods below to transfer images from the memory card to a computer.

- **SD memory card slot/card reader**: Insert the memory card into the card slot of your computer or the card reader (commercially available) that is connected to the computer.
- **Direct USB connection**: Turn the camera off and ensure that the memory card is inserted in the camera. Connect the camera to the computer using the USB cable. Turn the camera on.
  To transfer images that are saved in the camera's internal memory, remove the memory card from the camera before connecting it to the computer.

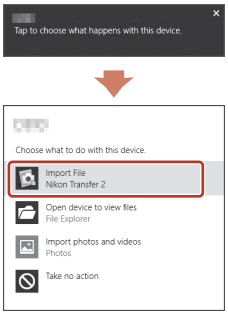


If a message is displayed prompting you to choose a program, select Nikon Transfer 2.

- **When using Windows 7**
  If the dialog shown on the right is displayed, follow the steps below to select Nikon Transfer 2.
  1 Under **Import pictures and videos**, click **Change program**. A program selection dialog will be displayed; select Nikon Transfer 2 and click **OK**.
  2 Double-click the Nikon Transfer 2 icon.



- **When using Windows 10 or Windows 8.1**
  If the dialog shown on the right is displayed, click the dialog and then click **Import File/Nikon Transfer 2**.



- **When using Mac OS X**
  If Nikon Transfer 2 does not automatically start, launch the **Image Capture** application that comes bundled with Mac while the camera and your computer are connected, and select Nikon Transfer 2 as the default application to open when the camera is connected to your computer.

If the memory card contains a large number of images, it may take a while for Nikon Transfer 2 to start. Wait until Nikon Transfer 2 starts.

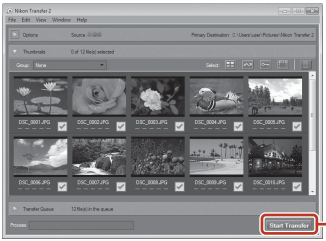
Notes About Connecting the USB Cable

Operation is not guaranteed if the camera is connected to the computer via a USB hub.

Using ViewNX-i

Consult online help for more information.

2 After Nikon Transfer 2 starts, click **Start Transfer**.



- Image transfer begins. When image transfer is complete, ViewNX-i starts and the transferred images are displayed.

3 Terminate the connection.

- If you are using a card reader or card slot, choose the appropriate option in the computer operating system to eject the removable disk corresponding to the memory card and then remove the memory card from the card reader or card slot.
- If the camera is connected to the computer, turn the camera off and disconnect the USB cable.

Using the Menu

Menu Operations 98
Menu Lists 101
The Shooting Menu (The Common Shooting Options) 105
The Shooting Menu (for (Auto) Mode) 106
The Smart Portrait Menu 115
The Movie Menu 117
The Playback Menu 124
The Network Menu 129
The Setup Menu 131

Menu Operations

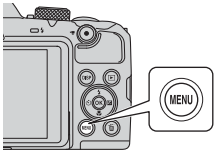
You can set the menus listed below by pressing the MENU (menu) button.

- **Shooting menu**[1, 2]
- **Movie menu**[1]
- **Playback menu**[3]
- **Network menu**
- **Setup menu**

1 Press the MENU button when the shooting screen is displayed.
2 Menu icons and available setting options vary depending on the shooting mode.
3 Press the MENU button when the playback screen is displayed. Menu icons and available setting options vary depending on the playback mode.

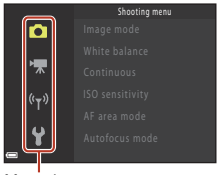
1 Press the MENU (menu) button.

- The menu is displayed.



2 Press the multi selector ◀.

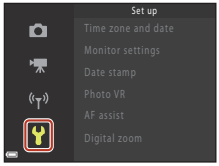
- The current menu icon is displayed in yellow.



Menu icons

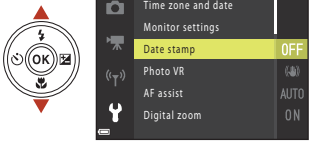
3 Select a menu icon and press the OK button.

- The menu options become selectable.



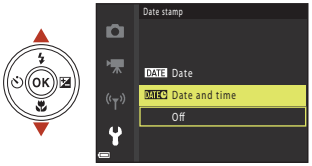
4 Select a menu option and press the OK button.

- Certain menu options cannot be set depending on the current shooting mode or the state of the camera.



5 Select a setting and press the OK button.

- The setting you selected is applied.
- When you are finished using the menu, press the MENU button.
- When a menu is displayed, you can switch to shooting mode by pressing the shutter-release button or ● (🎥) button.



The Image Selection Screen

When an image selection screen such as the one shown on the right is displayed while operating the camera menu, follow the procedures described below to select the images.

1 Use the multi selector ◀▶ to select the desired image.

- Move the zoom control (📖2) toward **T** (🔍) to switch to full-frame playback or **W** (▦) to switch to thumbnail playback.
- Only one image can be selected for **Rotate image**. Proceed to step 3.

2 Use ▲▼ to select **ON** or **OFF**.

- When **ON** is selected, an icon is displayed with the image. Repeat steps 1 and 2 to select additional images.

3 Press the OK button to apply the image selection.

- When a confirmation dialog is displayed, follow the on-screen instructions to operate.

Menu Lists

The Shooting Menu

Enter shooting mode ➔ MENU button

Common Options

Option	Default setting	🕮
Image mode	**16M 4608×3456**	105

For (Auto) Mode

Option	Default setting	🕮
White balance	**Auto**	106
Continuous	**Single**	108
ISO sensitivity	**Auto**	110
AF area mode	**Target finding AF**	111
Autofocus mode	**Pre-focus**	114

For Smart Portrait Mode

Option	Default setting	🕮
Self-Collage	–	115
Blink proof	**Off**	116

The Movie Menu

Enter shooting mode ➔ MENU button ➔ menu icon ➔ OK button

Option	Default setting	🕮
Movie options	**1080/30p** or **1080/25p**	117
Autofocus mode	**Single AF**	121
Movie VR	**On (hybrid)**	122
Wind noise reduction	**Off**	122
Frame rate	–	123

The Playback Menu

Press the ▶ button (playback mode) ➔ MENU button

Option	🕮
Mark for upload[1]	124
Quick retouch[2]	70
D-Lighting[2]	70
Red-eye correction[2]	71
Glamour retouch[2]	71
Slide show	125
Protect[1]	126
Rotate image[1]	126
Small picture[2]	73
Copy[1]	127
Sequence display options	128

[1] Select an image on the image selection screen. See "The Image Selection Screen" (🕮100) for more information.
[2] Edited images are saved as separate files. Some images may not be edited.

The Network Menu

Press the MENU button ➔ menu icon ➔ OK button

Option	🕮
Airplane mode	129
Connect to smart device	129
Send while shooting	129
Wi-Fi	129
Bluetooth	129
Restore default settings	129

The Setup Menu

Press the MENU button ➔ menu icon ➔ OK button

Option	🕮
Time zone and date	131
Monitor settings	133
Date stamp	134
Photo VR	135
AF assist	135
Digital zoom	136
Sound settings	136
Auto off	137
Format card/Format memory	138
Language	138
Image comment	139
Copyright information	140
Location data	141
Reset all	141
Battery type	142
Conformity marking	142
Firmware version	142

Image Mode (Image Size and Quality)

Enter shooting mode* ➔ MENU button ➔ Image mode ➔ OK button

* Image mode can be set in any shooting mode other than short movie show mode. The setting is also applied to other shooting modes (except **Easy panorama** scene mode).

Select the combination of image size and compression ratio to be used when saving images. The higher the image mode setting, the larger the size at which it can be printed, and the lower the compression ratio, the higher the quality of the images, but the number of images that can be saved is reduced.

Option*	Compression ratio	Aspect ratio (horizontal to vertical)
16M* 4608×3456★	Approx. 1:4	4:3
16M 4608×3456 (default setting)	Approx. 1:8	4:3
8M 3264×2448	Approx. 1:8	4:3
4M 2272×1704	Approx. 1:8	4:3
2M 1600×1200	Approx. 1:8	4:3
VGA 640×480	Approx. 1:8	4:3
16:9 12M 4608×2592	Approx. 1:8	16:9
1:1 3456×3456	Approx. 1:8	1:1

* The numerical values indicate the number of pixels that are captured.
Example: 16M **4608×3456** = approx. 16 megapixels, 4608 × 3456 pixels

Notes About Printing Images at 1:1 Aspect Ratio

Change the printer setting to "Border" when printing images at a 1:1 aspect ratio. Some printers may not be able to print images at a 1:1 aspect ratio.

Notes About Image Mode

This function may not be available to use in combination with other functions (📖61).

Number of Images That Can Be Saved

- The approximate number of images that can be saved can be checked on the screen when shooting (📖21).
- Note that due to JPEG compression, the number of images that can be saved may vary greatly depending on the image content, even when using memory cards with the same capacity and the same image mode setting. In addition, the number of images that can be saved may vary depending on the make of the memory card.
- If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999."

The Shooting Menu (for (Auto) Mode)

White Balance (Adjusting Hue)

Rotate the mode dial to → MENU button → menu icon → White balance → OK button

Adjust white balance to suit the light source or weather conditions in order to make the colors in images match what you see with your eyes.

Option	Description
AUTO Auto (default setting)	White balance is automatically adjusted.
PRE Preset manual	Use when the desired result is not achieved with **Auto**, **Incandescent**, etc. (107).
Daylight	Use under direct sunlight.
Incandescent	Use under incandescent lighting.
Fluorescent	Use under fluorescent lighting.
Cloudy	Use under overcast skies.
Flash	Use with the flash.

Notes About White Balance

- Lower the flash when white balance is set to any setting other than **Auto** or **Flash** (23).
- This function may not be available to use in combination with other functions (61).

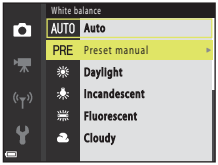
Using Preset Manual

Follow the procedures described below to measure the white balance value under the lighting used during shooting.

1 Place a white or gray reference object under the lighting that will be used during shooting.

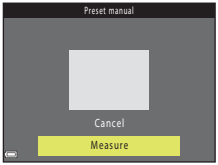
2 Use the multi selector ▲▼ to select **Preset manual** in the **White balance** menu, and press the OK button.

- The lens extends to the zoom position for measurement.



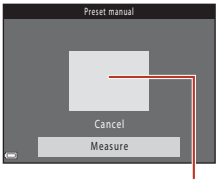
3 Select **Measure**.

- To apply the last measured value, select **Cancel** and press the OK button.



4 Frame the white or gray reference object in the measuring window, and press the OK button to measure the value.

- The shutter is released and measurement is complete (no image is saved).



Notes About Preset Manual

A white balance value for flash lighting cannot be measured with **Preset manual**. When shooting using the flash, set **White balance** to **Auto** or **Flash**.

Continuous Shooting

Rotate the mode dial to 📷 ➔ MENU button ➔ 📷 menu icon ➔ Continuous ➔ OK button

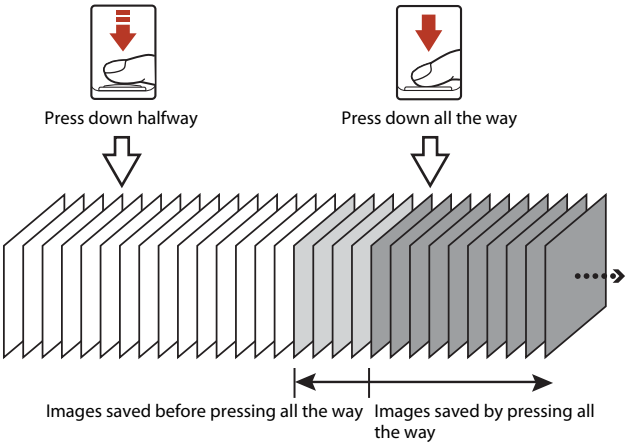
Option	Description
S Single (default setting)	One image is captured each time the shutter-release button is pressed.
H Continuous H	While the shutter-release button is held all the way down, images are captured continuously. • The camera can capture up to about 7 images continuously at a rate of about 7.7 fps (when image mode is set to 16M **4608×3456**).
L Continuous L	While the shutter-release button is held all the way down, images are captured continuously. • The camera can capture up to about 7 images continuously at a rate of about 2 fps (when image mode is set to 16M **4608×3456**). When you continue to hold the shutter-release button all the way down, the speed decreases.
Pre-shooting cache	Pre-shooting cache shooting begins when the shutter-release button is pressed halfway. When the shutter-release button is pressed the rest of the way down, the camera saves the current image as well as the images captured immediately before the button is pressed (📖109). Pre-shooting cache makes it easy to capture perfect moments. • The camera can capture up to about 25 images continuously at a rate of about 15 fps (including a maximum of 4 images captured in the pre-shooting cache). • **Image mode** is fixed at 2M (image size: 1600 × 1200 pixels).
120 Continuous H: 120 fps	Each time the shutter-release button is pressed all the way down, images are captured continuously at a high speed rate. • The camera can capture up to about 50 images continuously at a rate of about 120 fps. • **Image mode** is fixed at VGA (image size: 640 × 480 pixels).
60 Continuous H: 60 fps	Each time the shutter-release button is pressed all the way down, images are captured continuously at a high speed rate. • The camera can capture up to about 25 images continuously at a rate of about 60 fps. • **Image mode** is fixed at 1M (image size: 1280 × 960 pixels).

Notes About Continuous Shooting

- Focus, exposure and white balance are fixed at the values determined with the first shot in each series.
- It may take some time to save the images after shooting.
- When ISO sensitivity increases, noise may appear in captured images.
- The frame rate may become slower depending on the current image mode setting, memory card type or shooting conditions.
- When using **Pre-shooting cache**, **Continuous H: 120 fps**, or **Continuous H: 60 fps**, banding or variance in brightness or hue may occur in images that were captured under lighting that flashes quickly at high speeds, such as fluorescent, mercury-vapor, or sodium-vapor lighting.
- This function may not be available to use in combination with other functions (📖61).

Pre-shooting Cache

When the shutter-release button is pressed halfway or all the way down, images are saved as described below.



- The pre-shooting cache icon (📷) on the shooting screen changes to green while the shutter-release button is pressed halfway.

ISO Sensitivity

Rotate the mode dial to 📷 ➔ MENU button ➔ 📷 menu icon ➔ ISO sensitivity ➔ OK button

A higher ISO sensitivity allows darker subjects to be captured. Additionally, even with subjects of similar brightness, pictures can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced.

- When a higher ISO sensitivity is set, images may contain noise.

Option	Description
AUTO Auto (default setting)	Sensitivity is automatically selected from the range of ISO 125 to 1600.
ISO AUTO Fixed range auto	Select the range in which the camera automatically adjusts ISO sensitivity, from **ISO 125-400** or **ISO 125-800**.
125, 200, 400, 800, 1600, 3200, 6400	Sensitivity is locked at the specified value.

Notes About ISO Sensitivity

This function may not be available to use in combination with other functions (📖61).

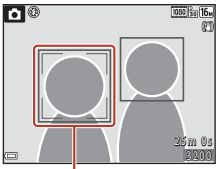
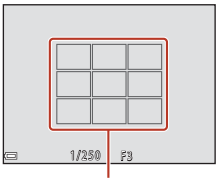
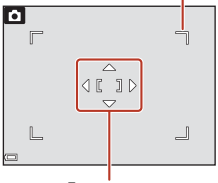
ISO Sensitivity Display on the Shooting Screen

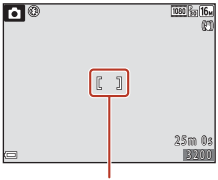
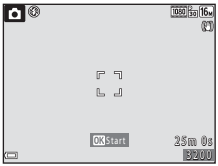
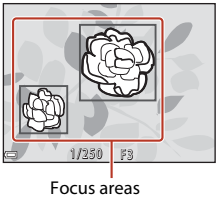
- When **Auto** is selected, ISO is displayed when the ISO sensitivity increases.
- When **Fixed range auto** is selected, the maximum value for ISO sensitivity is displayed.

AF Area Mode

Rotate the mode dial to 📷 ➔ MENU button ➔ 📷 menu icon ➔ AF area mode ➔ OK button

Set how the camera selects the focus area for autofocus.

Option	Description
🙂 Face priority	When the camera detects a human face, it focuses on that face. See "Using Face Detection" (📖56) for more information.  Focus area When framing a composition with no human subjects or detected faces, the camera automatically selects one or more of the nine focus areas containing the subject closest to the camera when the shutter-release button is pressed halfway.  Focus areas
[⋯] Manual	Use the multi selector ▲▼◀▶ to move the focus area to where you want to focus. • To use the multi selector to configure the flash mode or other settings, press the OK button. To return to moving the focus area, press the OK button again. Scope of movable focus area  Focus area

Option	Description	
[▪] Center	The camera focuses on the subject in the center of the frame.	
Subject tracking	Use this function to take pictures of moving subjects. Register the subject on which the camera focuses. The focus area automatically moves to track the subject. See "Using Subject Tracking" (113) for more information.	
[▪] Target finding AF (default setting)	When the camera detects the main subject, it focuses on that subject. See "Using Target Finding AF" (55).	

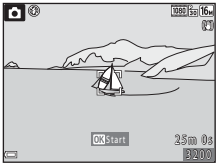
Notes About AF Area Mode

- When digital zoom is in effect, the camera focuses on the area in the center of the frame regardless of the **AF area mode** setting.
- This function may not be available to use in combination with other functions (61).

Using Subject Tracking

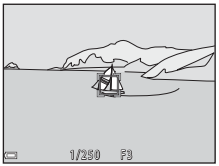
Rotate the mode dial to 📷 ➔ MENU button ➔ 📷 menu icon ➔ AF area mode ➔ OK button ➔ Subject tracking ➔ OK button ➔ MENU button

1 Register a subject.



- Align the subject that you want to track with the border in the center of the frame and press the OK button.
- When the subject is registered, a yellow border (focus area) is displayed around it and the camera begins tracking the subject.
- If the subject cannot be registered, the border is displayed in red.
  Change the composition and try registering the subject again.
- To cancel subject registration, press the OK button.
- If the camera can no longer track the registered subject, the focus area disappears. Register the subject again.

2 Press the shutter-release button all the way to take the picture.



- If the shutter-release button is pressed while the focus area is not displayed, the camera focuses on the subject in the center of the frame.

Notes About Subject Tracking

- If you perform operations such as zooming while the camera is tracking the subject, the registration is canceled.
- Subject tracking may not be possible in certain shooting conditions.

Autofocus Mode

Rotate the mode dial to 📷 ➔ MENU button ➔ 📷 menu icon ➔ Autofocus mode ➔ OK button

Set how the camera focuses when shooting still images.

Option	Description
AF-S Single AF	The camera focuses only when the shutter-release button is pressed halfway.
AF-F Full-time AF	The camera always focuses even if the shutter-release button is not pressed halfway. The sound of lens drive movement is heard while the camera focuses.
PRE-AF Pre-focus (default setting)	Even if the shutter-release button is not pressed halfway, the camera focuses when subject movement is detected or when the composition of the framed image is significantly changed.

Autofocus Mode for Movie Recording

Autofocus mode for movie recording can be set with **Autofocus mode** (📖121) in the movie menu.

The Smart Portrait Menu

- See "Image Mode (Image Size and Quality)" (📖105) for information about **Image mode**.

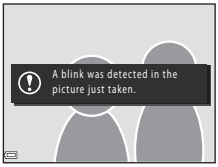
Self-Collage

Rotate the mode dial to 🙂 ➔ MENU button ➔ 🙂 menu icon ➔ Self-Collage ➔ OK button

Option	Description
Number of shots	Set the number of shots that the camera automatically captures (number of captured images for an aggregated image). • **4** (default setting) or **9** can be selected.
Interval	Set the interval time between each shot. • **Short**, **Medium** (default setting), or **Long** can be selected.
Shutter sound	Set whether to activate the shutter sound when shooting with the self-collage function. • **Standard**, **SLR**, **Magic** (default setting), or **Off** can be selected. • The same setting that is specified for **Shutter sound** in **Sound settings** in the setup menu is not applied to this setting.

Blink Proof

Rotate the mode dial to 🙂 ➔ MENU button ➔ 🙂 menu icon ➔ Blink proof ➔ OK button

Option	Description
On	The camera automatically releases the shutter twice with every shot and saves one image in which the subject's eyes are open. • If the camera saved an image in which the subject's eyes may have been closed, the dialog shown on the right is displayed for a few seconds. • The flash cannot be used. 
Off (default setting)	Turns the blink proof off.

Notes About Blink Proof

This function may not be available to use in combination with other functions (📖61).

The Movie Menu

Movie Options

Enter shooting mode ➔ MENU button ➔ menu icon ➔ Movie options ➔ OK button

Select the desired movie option to record. Select normal speed movie options to record at normal speed, or HS movie options (📖118) to record in slow or fast motion. The movie options that can be selected vary depending on the **Frame rate** setting (📖123).

- Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies (📖168).

Normal Speed Movie Options

Option (Image size/Frame rate[1], File format)	Image size	Aspect ratio (horizontal to vertical)
1080 P 30 1080/30p 1080 P 25 1080/25p (default setting)	1920 × 1080	16:9
1080 i 60 1080/60i[2] 1080 i 50 1080/50i[2]	1920 × 1080	16:9
720 P 30 720/30p 720 P 25 720/25p	1280 × 720	16:9
480 P 30 480/30p 480 P 25 480/25p	640 × 480	4:3

[1] Interlaced format uses Fields per second.
[2] The setting is not available when using certain effects in creative mode or glamour retouch.

HS Movie Options

Recorded movies are played back in fast or slow motion.
See "Recording Movies in Slow Motion and Fast Motion (HS Movie)" (📖120).

Option	Image size Aspect ratio (horizontal to vertical)	Description
HS 480/4×[1]	640 × 480 4:3	1/4-speed slow motion movies • Max. recording time[2]: 15 seconds (playback time: 1 minute)
HS 1080/0.5×[1]	1920 × 1080 16:9	2× speed fast motion movies • Max. recording time[2]: 2 minutes (playback time: 1 minute)

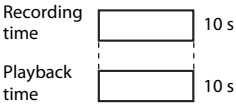
[1] The setting is not available when using certain effects in creative mode or glamour retouch.
[2] While recording movies, the camera can be switched between normal speed movie recording and slow motion or fast motion movie recording.
The maximum recording time shown here refers only to the portion of the movie that is recorded in slow motion or fast motion.

Notes About HS Movie

- Sound is not recorded.
- Zoom position, focus, exposure, and white balance are locked when movie recording starts.

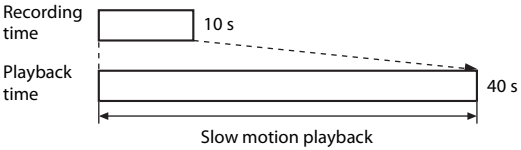
Playing Back in Slow Motion and Fast Motion

When recording at normal speed:



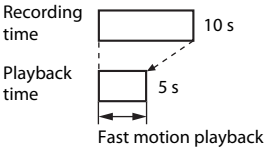
When recording at 480 P 120/480 P 100 HS 480/4×:

Movies are recorded at 4× normal speed.
They are played back in slow motion at 4× slower speed.



When recording at 1080 P 15/1080 P 12.5 HS 1080/0.5×:

Movies are recorded at 1/2 normal speed.
They are played back in fast motion at 2× faster speed.



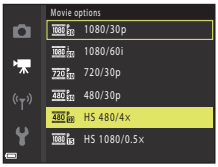
Recording Movies in Slow Motion and Fast Motion (HS Movie)

Enter shooting mode ➔ MENU button ➔ menu icon ➔ Movie options ➔ OK button

Movies recorded using HS movie can be played back in slow motion at 1/4 of the normal playback speed, or in fast motion at twice the normal playback speed.

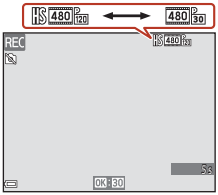
1 Use the multi selector ▲▼ to select an HS movie option (📖118) and press the OK button.

- After applying the option, press the MENU button to return to the shooting screen.



2 Press the ● (movie-record) button to start recording.

- The camera starts recording an HS movie.
- The camera switches between normal speed movie recording and HS movie recording each time the OK button is pressed.
- The movie options icon changes when switching between HS movie recording and normal speed movie recording.



- When the maximum recording time for HS movies (📖118) is reached, the camera automatically switches to normal speed movie recording.

3 Press the ● (movie-record) button to end recording.

Autofocus Mode

Enter shooting mode ➔ MENU button ➔ menu icon ➔ Autofocus mode ➔ OK button

Set how the camera focuses when recording movies.

Option	Description
AF-S Single AF (default setting)	Focus is locked when movie recording starts. Select this option when the distance between the camera and the subject will remain fairly consistent.
AF-F Full-time AF	The camera focuses continuously. Select this option when the distance between the camera and subject will change significantly during recording. The sound of the camera focusing may be heard in the recorded movie. Use of **Single AF** is recommended to prevent the sound of the camera focusing from interfering with recording.

Notes About Autofocus Mode

When an HS movie option is selected in **Movie options**, the setting is fixed at **Single AF**.

Movie VR

Enter shooting mode ➔ MENU button ➔ menu icon ➔ Movie VR ➔ OK button

Select the vibration reduction setting used when recording movies.
Set to **Off** when using a tripod to stabilize the camera during shooting.

Option	Description
* On (hybrid) (default setting)	Performs optical compensation for camera shake using lens shift VR and simultaneously performs electronic VR using image processing. The angle of view (i.e., the area seen in the frame) becomes narrower.
On	Performs compensation for camera shake using lens shift VR.
Off	Vibration reduction is disabled.

Notes About Movie VR

- When an HS movie option is selected in **Movie options**, the setting is fixed at **Off**.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.

Wind Noise Reduction

Enter shooting mode ➔ MENU button ➔ menu icon ➔ Wind noise reduction ➔ OK button

Option	Description
On	Reduces the sound that is produced when wind passes over the microphone during movie recording. Other sounds may become difficult to hear during playback.
Off (default setting)	Wind noise reduction is disabled.

Frame Rate

Enter shooting mode ➔ MENU button ➔ menu icon ➔ Frame rate ➔ OK button

Select the frame rate (fields per second for the interlaced format) used when recording movies. When the frame rate setting is switched, options that can be set in **Movie options** (📖117) change.

Option	Description
30 fps (30p/60i)	Suited for playback on a TV using the NTSC standard.
25 fps (25p/50i)	Suited for playback on a TV using the PAL standard.

- See "Editing Images (Still Images)" (📖69) for information about image editing functions.

Mark for Upload

Press the ▶ button (playback mode) ➔ MENU button ➔ Mark for upload ➔ OK button

Select images in the camera that you want to transfer to a smart device in advance before transferring them.

On the image selection screen (📖100), select or deselect images for the Mark for upload function.

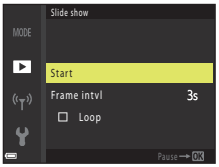
- Movies cannot be selected. To upload movies to a smart device, use the SnapBridge app.
- Note that when you select **Reset all** (📖141) in the setup menu or **Restore default settings** (📖129) in the network menu, the Mark for upload settings that you made are canceled.

Slide Show

Press the ▶ button (playback mode) ➔ MENU button ➔ Slide show ➔ OK button

Play back images one by one in an automated "slide show." When movie files are played back in the slide show, only the first frame of each movie is displayed.

1 Use the multi selector ▲▼ to select **Start** and press the OK button.



- The slide show begins.
- To change the interval between images, select **Frame intvl**, press the OK button, and specify the desired interval time before selecting **Start**.
- To repeat the slide show automatically, select **Loop** and press the OK button before selecting **Start**.
- The maximum playback time is up to about 30 minutes even if **Loop** is enabled.

2 End or restart the slide show.

- The screen shown on the right is displayed after the slide show ends or is paused. To exit the show, select ■ and then press the OK button. To resume the slide show, select ▶ and then press the OK button.

Operations During Playback

- Use the multi selector ◀▶ to display the previous/next image. Press and hold down ◀▶ to rewind/fast-forward images quickly.
- Press the OK button to pause or end the slide show.

Protect

Press the ▶ button (playback mode) ➔ MENU button ➔ Protect ➔ OK button

The camera protects selected images from accidental deletion.
Select images to protect or cancel protection from the image selection screen (📖100).
Note that formatting the memory card or the camera's internal memory permanently deletes all data including protected files (📖138).

Rotate Image

Press the ▶ button (playback mode) ➔ MENU button ➔ Rotate image ➔ OK button

Specify the orientation in which saved images are displayed during playback.
Still images can be rotated 90 degrees clockwise or 90 degrees counterclockwise.

Select an image from the image selection screen (📖100). When the Rotate image screen is displayed, press the multi selector ◀▶ to rotate the image 90 degrees.

Rotate 90 degrees counterclockwise

Rotate 90 degrees clockwise

Press the OK button to finalize display orientation, and save orientation information with the image.

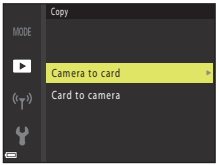
Copy (Copy Between the Memory Card and Internal Memory)

Press the ▶ button (playback mode) ➔ MENU button ➔ Copy ➔ OK button

Images can be copied between a memory card and the internal memory.

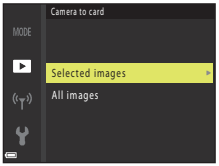
- When a memory card that contains no images is inserted and the camera is switched to playback mode, **Memory contains no images.** is displayed. In that case, press the MENU button to select **Copy**.

1 Use the multi selector ▲▼ to select a destination option to which images are copied and press the OK button.



2 Select a copy option and press the OK button.

- When you choose **Selected images**, use the image selection screen to specify images (📖100).



Notes About Copying Images

- Only files in formats that this camera can record can be copied.
- Operation is not guaranteed with images captured with another make of camera or that have been modified on a computer.

Copying Images in a Sequence

- If you select a key picture of a sequence in **Selected images**, all images in the sequence are copied.
- If you press the MENU button while images in a sequence are displayed, only the **Card to camera** copy option is available. All images in the sequence are copied if you select **Current sequence**.

Sequence Display Options

Press the ▶ button (playback mode) ➔ MENU button ➔ Sequence display options ➔ OK button

Select the method used to display images in the sequence (📖67).

Option	Description
Individual pictures	Displays each image in a sequence individually. is displayed on the playback screen.
Key picture only (default setting)	Displays only the key picture for images in a sequence.

Settings are applied to all sequences, and the setting is saved in the camera's memory even after the camera is turned off.

The Network Menu

Press the MENU button ➔ menu icon ➔ OK button

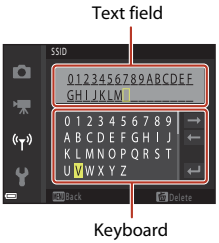
Configure the wireless network settings to connect the camera and a smart device.

Option		Description
Airplane mode		Select **On** to turn off all wireless connections.
Connect to smart device		Select when pairing a smart device with the camera. This setting cannot be selected while a wireless connection is established. See step 3 in "Setup from a Smartphone or Tablet" (📖15) for more information.
Send while shooting		Set the conditions for automatically sending images to a smart device.
Wi-Fi	Network settings	**SSID***: Change the SSID. Set a 1- to 32-character alphanumeric SSID.
		Auth./encryp.: Select whether or not to encrypt the communications between the camera and the connected smart device. Communications are not encrypted when **Open** is selected.
		Password*: Set the password. Set an 8- to 36-character alphanumeric password.
		Channel: Select the channel used for wireless connections.
	Current settings	Display the current settings.
Bluetooth	Connection	Select **Disable** to turn off Bluetooth communication.
	Paired devices	Change the smart device to connect with, or delete the pairing with the smart device.
	Send while off	Set whether or not to allow the camera to communicate with the smart device when the camera is off or in standby mode (📖23).
Restore default settings		Restore all network menu settings to their default values. This setting cannot be selected while a wireless connection is established.

* See "Operating the Text Input Keyboard" (📖130) for information on how to enter alphanumeric characters.

Operating the Text Input Keyboard

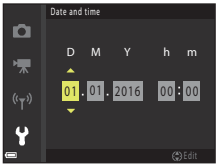
- Use the multi selector ▲▼◀▶ to select alphanumeric characters. Press the OK button to enter the selected character in the text field and move the cursor to the next space.
- To move the cursor in the text field, select ← or → on the keyboard, and press the OK button.
- To delete one character, press the 🗑 button.
- To apply the setting, select ↵ on the keyboard and press the OK button.



Time Zone and Date

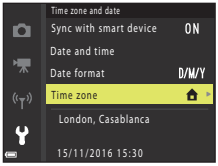
Press the MENU button ➔ menu icon ➔ Time zone and date ➔ OK button

Set the camera clock.

Option	Description
Sync with smart device	Set whether or not to synchronize the date and time setting with a smart device.
Date and time	Set the date and time if **Sync with smart device** is set to **Off**. • Select a field: Press the multi selector ◀▶. • Edit the date and time: Press ▲▼. • Apply the setting: Select the minute field setting and press the OK button. 
Date format	Select **Year/Month/Day**, **Month/Day/Year**, or **Day/Month/Year**.
Time zone	Set time zone and daylight saving time. • When **Travel destination** (✈) is set after having set the home time zone (🏠), the time difference between the travel destination and the home time zone is automatically calculated, and the date and time are saved for the selected region.

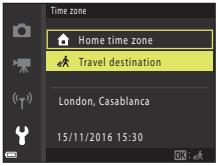
Setting the Time Zone

1 Use the multi selector ▲▼ to select **Time zone** and press the ⓞ button.

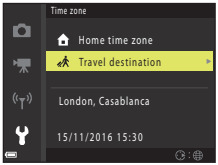


2 Select **Home time zone** or **Travel destination** and press the ⓞ button.

- The date and time displayed on the screen changes depending on whether the home time zone or travel destination is selected.

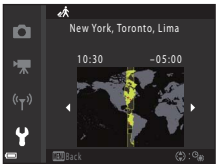


3 Press ▶.



4 Use ◀▶ to select the time zone.

- Press ▲ to enable daylight saving time function, and is displayed. Press ▼ to disable the daylight saving time function.
- Press the ⓞ button to apply the time zone.
- If the correct time is not displayed for the home or travel destination time zone setting, set the appropriate time in **Date and time**.



Monitor Settings

Press the MENU button ➔ menu icon ➔ Monitor settings ➔ OK button

Option	Description
Help display	The descriptions of functions are displayed while changing the shooting mode or while the setting screen is displayed. • Default setting: **On**
Image review	Set whether or not to display the captured image immediately after shooting. • Default setting: **On**
Brightness	Adjust the brightness. • Default setting: **3**
View/hide framing grid	Set whether or not to display a boxed guide for framing on the shooting screen. • Default setting: **Off**

Date Stamp

Press the MENU button ➔ menu icon ➔ Date stamp ➔ OK button

The shooting date and time can be stamped on images when shooting.

Option	Description
DATE Date	Date is stamped on images.
DATE Date and time	Date and time are stamped on images.
Off (default setting)	Date and time are not stamped on images.

Notes About Date Stamp

- Stamped date and time form a permanent part of image data and cannot be deleted. The date and time cannot be stamped on images after they have been captured.
- The date and time cannot be stamped in the following situations:
  - When the scene mode is set to **Night landscape** (when set to **Hand-held**), **Night portrait** (when set to **Hand-held**), **Backlighting** (when **HDR** is set to **On**), or **Easy panorama**
  - When the continuous shooting setting (📖108) is set to **Pre-shooting cache**, **Continuous H: 120 fps**, or **Continuous H: 60 fps**
  - When recording movies
  - When saving still images during movie recording
  - When creating still images by editing movies
- The stamped date and time may be difficult to read when using a small image size.

Photo VR

Press the MENU button ➔ menu icon ➔ Photo VR ➔ OK button

Select the vibration reduction setting used when shooting still images.
Set to **Off** when using a tripod to stabilize the camera during shooting.

Option	Description
On (default setting)	Compensation for camera shake is performed using lens shift VR.
Off	Compensation is not performed.

Notes About Photo VR

- After turning on the camera or after switching from playback mode to shooting mode, wait until the shooting screen is ready before taking pictures.
- Images on the screen may be displayed blurry immediately after shooting.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.

AF Assist

Press the MENU button ➔ menu icon ➔ AF assist ➔ OK button

Option	Description
AUTO Auto (default setting)	The AF-assist illuminator automatically lights up when you press the shutter-release button under dim lighting. The illuminator has a range of about 2.0 m (6 ft 6 in.) at the maximum wide-angle position and about 1.6 m (5 ft 2 in.) at the maximum telephoto position. • The AF-assist illuminator may not light depending on the position of the focus area or the shooting mode.
Off	The AF-assist illuminator does not light.

Digital Zoom

Press the MENU button ➔ menu icon ➔ Digital zoom ➔ OK button

Option	Description
On (default setting)	Digital zoom is enabled.
Off	Digital zoom is disabled.

Notes About Digital Zoom

- Digital zoom cannot be used in the following shooting modes:
  - **Night landscape**, **Night portrait**, **Backlighting** (when **HDR** is set), **Portrait**, **Easy panorama**, or **Pet portrait** scene mode
  - Creative mode
  - Smart portrait mode
- Digital zoom cannot be used in other shooting modes when using certain settings (62).

Sound Settings

Press the MENU button ➔ menu icon ➔ Sound settings ➔ OK button

Option	Description
Button sound	When **On** (default setting) is selected, the camera produces one beep when operations are performed, two beeps when focus is acquired on the subject, and three beeps when an error occurs. The welcome screen sound is also produced. • Sounds are disabled when using **Pet portrait** or **Bird-watching** scene mode.
Shutter sound	When **On** (default setting) is selected, the shutter sound is produced when the shutter is released. • The shutter sound is not produced when recording movies or when using **Pet portrait** or **Bird-watching** scene mode.

Auto Off

Press the MENU button ➔ menu icon ➔ Auto off ➔ OK button

Set the amount of time that elapses before the camera enters standby mode (📖23). You can select **30 s**, **1 min** (default setting), **5 min**, or **30 min**.

Setting the Auto Off Function

The time that passes before the camera enters standby mode is fixed in the following situations:

- When a menu is displayed: 3 minutes (when auto off is set to **30 s** or **1 min**)
- When shooting using **Pet portrait auto release**: 5 minutes (when auto off is set to **30 s** or **1 min**)
- When shooting using **Smile timer**: 5 minutes (when auto off is set to **30 s** or **1 min**)
- When the audio/video cable is connected: 30 minutes
- When an HDMI cable is connected: 30 minutes
- When the EH-67/EH-67s AC Adapter is connected: 30 minutes

Format Card/Format Memory

Press the MENU button ➔ menu icon ➔ Format card/Format memory ➔ OK button

Use this option to format a memory card or the internal memory.

Formatting the memory cards or internal memory permanently deletes all data. Data that has been deleted cannot be recovered. Make sure to save important images to a computer before formatting.

Formatting a Memory Card

- Insert a memory card into the camera.
- Select **Format card** in the setup menu and then press the OK button.

Formatting the Internal Memory

- Remove the memory card from the camera.
- Select **Format memory** in the setup menu and then press the OK button.

To start formatting, select **Format** on the screen that is displayed and press the OK button.

- Do not turn the camera off or open the battery-chamber/memory card slot cover during formatting.
- This setting cannot be selected while a wireless connection is established.

Language

Press the MENU button ➔ menu icon ➔ Language ➔ OK button

Select a language for display of camera menus and messages.

Image Comment

Press the MENU button ➔ menu icon ➔ Image comment ➔ OK button

Attach a comment that was previously registered to images that will be captured. You can imprint the attached comment to images that will be sent to a smart device using an application (18).
You can also check with ViewNX-i metadata.

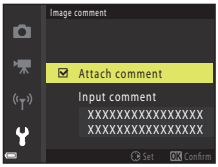
Option	Description
Attach comment	A comment registered with **Input comment** is attached to images. • Select **Attach comment**, press ▶, and set the check box to on (✔). When you press the OK button, the setting is enabled, and the comment will be attached to the images captured afterwards. 
Input comment	You can register a comment of up to 36 alphanumeric characters. • Select **Input comment**, press ▶, and the input screen is displayed. See "Operating the Text Input Keyboard" (130) for information about the input method.

Image Comments Display

Image comments are not displayed even if images are played back on the camera.

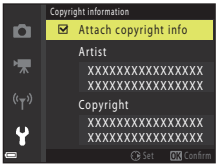
Copyright Information

Press the MENU button ➔ menu icon ➔ Copyright information ➔ OK button

Attach the copyright information that was previously registered to images that will be captured.

You can imprint the attached copyright information to images that will be sent to a smart device using an application (18).

You can also check with ViewNX-i metadata.

Option	Description
Attach copyright info	Copyright information registered with **Artist** and **Copyright** is attached to images. • Select **Attach copyright info**, press ▶, and set the check box to on (✔). When you press the OK button, the setting is enabled, and the copyright information will be attached to the images captured afterwards. 
Artist	You can register an artist name of up to 36 alphanumeric characters. • Select **Artist**, press ▶, and the input screen is displayed. See "Operating the Text Input Keyboard" (130) for information about the input method.
Copyright	You can register a copyright owner name of up to 54 alphanumeric characters. • Select **Copyright**, press ▶, and the input screen is displayed. See "Operating the Text Input Keyboard" (130) for information about the input method.

Notes About Copyright Information

- To prevent illegal use of artist names and copyright owner names when lending or transferring ownership of the camera, make sure to disable the **Attach copyright info** setting. Also, make sure that the artist name and copyright owner name are blank.
- Nikon is not responsible for any kind of trouble or damage resulting from the use of **Copyright information**.

Copyright Information Display

Copyright information is not displayed even if images are played back on the camera.

Location Data

Press the MENU button ➔ menu icon ➔ Location data ➔ OK button

Set whether or not to add shooting location information to the images that you take.

Option	Description
Download from device	Select **Yes** to add location information from a smart device to the images that you take. Enable the location information function of the SnapBridge app.
Position	Display the obtained location information. • The information is not updated while it is being displayed. To update it, perform **Position** again.

Reset All

Press the MENU button ➔ menu icon ➔ Reset all ➔ OK button

When **Reset** is selected, the camera's settings are restored to their default values.
- The network menu settings are also restored to their default values.
- Some settings, such as **Time zone and date** or **Language**, are not reset.
- This setting cannot be selected while a wireless connection is established.

Resetting File Numbering

To reset file numbering to "0001", delete all images saved on the memory card or in the internal memory (📖25) before selecting **Reset all**.

Battery Type

Press the MENU button ➔ menu icon ➔ Battery type ➔ OK button

To ensure that the camera shows the correct battery level (📖21), select the type that matches the batteries currently in use.

Option	Description
LR6 Alkaline (default setting)	LR6/L40 (AA-size) alkaline batteries
CLPX COOLPIX (Ni-MH)	Nikon EN-MH2 Rechargeable Ni-MH (nickel metal hydride) batteries
FR6 Lithium	FR6/L91 (AA-size) lithium batteries

Conformity Marking

Press the MENU button ➔ menu icon ➔ Conformity marking ➔ OK button

View some of the conformity markings that the camera complies with.

Firmware Version

Press the MENU button ➔ menu icon ➔ Firmware version ➔ OK button

View the current camera firmware version.

- This setting cannot be selected while a wireless connection is established.

Technical Notes

Notices 144

Notes About Wireless Communication Functions 146

Caring for the Product 149

- The Camera 149
- Batteries 150
- Memory Cards 151

Cleaning and Storage 152

- Cleaning 152
- Storage 152

Error Messages 153

Troubleshooting 156

File Names 162

Optional Accessories 163

Specifications 164

- Memory Cards That Can Be Used 168

Index 170

Notices

Notices for Customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Notice for Customers in the State of California

WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Wash hands after handling.

Nikon Inc.,
1300 Walt Whitman Road, Melville, New York 11747-3064, U.S.A.
Tel: 631-547-4200

Notice for Customers in Canada

CAN ICES-3 B / NMB-3 B

Notices for Customers in Europe

This symbol indicates that electrical and electronic equipment is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the batteries indicates that the batteries are to be collected separately.

The following apply only to users in European countries:

- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

Notes About Wireless Communication Functions

Restrictions on Wireless Devices

The wireless transceiver included in this product conforms to wireless regulations in the country of sale and is not for use in other countries (products purchased in the EU or EFTA can be used anywhere within the EU and EFTA). Nikon does not accept liability for use in other countries. Users who are unsure as to the original country of sale should consult with their local Nikon service center or Nikon-authorized service representative. This restriction applies to wireless operation only and not to any other use of the product.

Security

Although one of the benefits of this product is that it allows others to freely connect for the wireless exchange of data anywhere within its range, the following may occur if security is not enabled:

- Data theft: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- Unauthorized access: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks, specialized attacks may allow unauthorized access even when security is enabled. Nikon is not responsible for data or information leaks that may occur during data transfer.
- Do not access networks that you are not permitted to use, even if they are displayed on your smartphone or tablet. Doing so may be regarded as unauthorized access. Only access networks that you are permitted to use.

Personal Information Management and Disclaimer

- User information registered and configured on the product, including wireless LAN connection settings and other personal information, is susceptible to alteration and loss resulting from operational error, static electricity, accident, malfunction, repair or other handling. Always keep separate copies of important information. Nikon is not responsible for any direct or indirect damages or lost profits resulting from alteration or loss of content that is not attributable to Nikon.
- Before discarding this product or transferring it to another owner, perform **Reset all** in the setup menu (📖98) to delete all user information registered and configured with the product, including wireless LAN connection settings and other personal information.
- Nikon is not responsible for any damages resulting from unauthorized use of this product by third parties in the event that the product is stolen or lost.

Precautions when Exporting or Carrying This Product Abroad

This product is controlled by the United States Export Administration Regulations (EAR). The permission of the United States government is not required for export to countries other than the following, which as of this writing are subject to embargo or special controls: Cuba, Iran, North Korea, Sudan, and Syria (list subject to change).

Notice for Customers in the U.S.A. and Canada

Federal Communications Commission (FCC) and Industry of Canada (IC)

Declaration of Conformity

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

FCC/IC RF Exposure Statement

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

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

COOLPIX B500, which is equipped with a LBEE5ZZ1GV-893 (FCC ID:2AAD3JA0M0P0 / IC ID:4634A-6152EC) Wireless LAN Module, has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. Please refer to the SAR test report that was uploaded to FCC website.

Notice for Customers in Europe

Declaration of Conformity (Europe)

Hereby, Nikon Corporation, declares that COOLPIX B500 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at http://imaging.nikon.com/support/pdf/DoC_B500.pdf.

Notice for Customers in Singapore

This device complies with radio-frequency regulations.

Complies with IDA Standards DA103423

Notice for Customers in Jamaica

This product contains a Type Approved Module by Jamaica: "SMA – LBEE5ZZ1GV-893"

Caring for the Product

Observe the precautions described below in addition to the warnings in "For Your Safety" (📖viii–xi) when using or storing the device.

The Camera

Do Not Apply Strong Impact to the Camera

The product may malfunction if subjected to strong shock or vibration. In addition, do not touch or apply force to the lens.

Keep Dry

The device will be damaged if immersed in water or subjected to high humidity.

Avoid Sudden Changes in Temperature

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

Keep Away from Strong Magnetic Fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Doing so could result in loss of data or camera malfunction.

Do Not Point the Lens at Strong Light Sources for Extended Periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause the image sensor to deteriorate or produce a white blur effect in photographs.

Turn the Product Off Before Removing or Disconnecting the Power Source or Memory Card

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

Notes About the Monitor

- Monitors (including electronic viewfinders) are constructed with extremely high precision; at least 99.99% of pixels are effective, with no more than 0.01% being missing or defective. Hence while these displays may contain pixels that are always lit (white, red, blue, or green) or always off (black), this is not a malfunction and has no effect on images recorded with the device.
- Images in the monitor may be difficult to see under bright lighting.
- Do not apply pressure to the monitor, as this could cause damage or malfunction. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

Batteries

Precautions for Use

- Note that the batteries may become hot after use.
- Do not use batteries beyond their recommended expiration date.
- Do not turn the camera on and off repeatedly if discharged batteries are inserted in the camera.

Carrying Spare Batteries

We recommend carrying spare batteries depending on where you are shooting. It may be difficult to purchase batteries in certain areas.

Charging Batteries

If using optional rechargeable batteries, charge the batteries before taking pictures. Batteries are not fully charged at the time of purchase.

Be sure to read and follow the warnings noted in the operating instructions included with the battery charger.

Charging Rechargeable Batteries

- Do not mix batteries with different amounts of charge remaining, or batteries of a different make or model.
- When using EN-MH2 batteries with this camera, charge four batteries at a time using MH-73 Battery Charger. Use only MH-73 Battery Charger to charge EN-MH2 batteries.
- When using MH-73 Battery Charger, only charge EN-MH2 batteries.
- EN-MH1 Rechargeable Ni-MH batteries cannot be used.

Notes About Rechargeable Ni-MH Batteries

- If you repeatedly charge rechargeable Ni-MH batteries while they still have some charge remaining, the message **Battery exhausted.** may be displayed prematurely when using the batteries. This is due to the "memory effect," in which the amount of charge the batteries can hold decreases temporarily. Use the batteries until there is no charge remaining and they will return to their normal behavior.
- Rechargeable Ni-MH batteries discharge even when not being used. We recommend charging the batteries just before using them.

Using the Batteries When Cold

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

Battery Terminals

Dirt on the battery terminals may prevent the camera from functioning. Should the battery terminals become dirty, wipe them off with a clean, dry cloth before use.

Remaining Battery Charge

If you insert discharged batteries into the camera, the camera may indicate that the batteries have adequate charge remaining. This is a characteristic of batteries.

Recycling Used Batteries

Replace the batteries when they no longer hold a charge. Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

Memory Cards

Precautions for Use

- Use only Secure Digital memory cards (📖168).
- Be sure to follow the precautions described in the documentation included with the memory card.
- Do not put labels or stickers on memory cards.

Formatting

- Do not format the memory card using a computer.
- The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera. We recommend formatting new memory cards with this camera before using them with this camera.
- **Note that formatting a memory card permanently deletes all images and other data on the memory card**. Be sure to make copies of any images you wish to keep before formatting the memory card.
- If the message **Card is not formatted. Format card?** is displayed when the camera is turned on, the memory card must be formatted. If there is data that you do not want to delete, select **No**. Copy the necessary data to a computer, etc. If you want to format the memory card, select **Yes**. The confirmation dialog will be displayed. To start formatting, press the OK button.
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
  - Open the battery-chamber/memory card slot cover to remove/insert the batteries or memory card.
  - Turn off the camera.
  - Disconnect the AC adapter.

Cleaning and Storage

Cleaning

Do not use alcohol, thinner, or other volatile chemicals.

Lens	Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of the lens and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.
Monitor	Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.
Body	Use a blower to remove dust, dirt, or sand, then wipe gently with a soft, dry cloth. After using the camera at the beach or other sandy or dusty environment, wipe off any sand, dust, or salt with a dry cloth lightly dampened with fresh water and dry thoroughly. **Note that foreign matter inside the camera could cause damage not covered by the warranty.**

Storage

Remove the batteries if the camera will not be used for an extended period. To prevent mold or mildew, take the camera out of storage at least once a month.

Turn the camera on and release the shutter a few times before putting the camera away again. Do not store the camera in any of the following locations:

- Places that are poorly ventilated or subject to humidity of over 60%
- Exposed to temperatures above 50°C (122°F) or below –10°C (14°F)
- Next to equipment that produces strong electromagnetic fields, such as televisions or radios

Error Messages

Refer to the table below if an error message is displayed.

Display	Cause/Solution	🕮
Battery temperature is elevated. The camera will turn off. The camera will turn off to prevent overheating.	The camera turns off automatically. Wait until the camera or battery temperature has cooled before resuming use.	–
Memory card is write protected.	The write-protect switch is in the "lock" position. Slide the write-protect switch to the "write" position.	–
This card cannot be used. This card cannot be read.	An error occurred while accessing the memory card. • Use an approved memory card. • Check that the terminals are clean. • Confirm that the memory card is correctly inserted.	11, 168
Card is not formatted. Format card?	The memory card has not been formatted for use in the camera. Formatting deletes all data saved on the memory card. If you need to keep copies of any images, make sure to select **No** and save the copies to a computer or other medium before formatting the memory card. Select **Yes** and press the ⓚ button to format the memory card.	151
Out of memory.	Delete images or insert a new memory card.	11, 25
Image cannot be saved.	An error occurred while saving the image. Insert a new memory card or format the memory card or internal memory.	138
	The camera has run out of file numbers. Insert a new memory card or format the memory card or internal memory.	138
	There is insufficient space to save the copy. Delete images from the destination.	25
Image cannot be modified.	Check that the images can be edited.	69, 160

Display	Cause/Solution	🕮
Cannot record movie.	A time-out error occurred while saving the movie on the memory card. Select a memory card with a faster write speed.	77, 168
Memory contains no images.	There are no images in the internal memory or on the memory card. • Remove the memory card to play back images in the internal memory. • To copy the images saved in the camera's internal memory to the memory card, press the MENU button to select **Copy** in the playback menu.	12 127
File contains no image data.	The file was not created or edited with this camera. The file cannot be viewed on this camera. View the file using a computer or the device used to create or edit this file.	–
All images are hidden.	There are no images available for a slide show, etc.	125
This image cannot be deleted.	The image is protected. Disable protection.	126
Raise the flash.	The flash is lowered. Raise the flash when shooting in **Night portrait** or **Backlighting** (when **HDR** is set to **Off**) scene mode.	33, 47
Turn the camera off and then on again.	Remove the lens cap. If the error persists, contact your retailer or Nikon-authorized service representative.	10, 156
Communications error	An error occurred while communicating with the printer. Turn the camera off and reconnect the USB cable.	90
System error	An error occurred in the camera's internal circuitry. Turn the camera off, remove and reinsert the batteries, and turn the camera on. If the error persists, contact your retailer or Nikon-authorized service representative.	156
Printer error: check printer status.	After solving the problem, select **Resume** and press the OK button to resume printing.*	–
Printer error: check paper.	Load the specified size of paper, select **Resume**, and press the OK button to resume printing.*	–
Printer error: paper jam.	Remove the jammed paper, select **Resume**, and press the OK button to resume printing.*	–
Printer error: out of paper.	Load the specified size of paper, select **Resume**, and press the OK button to resume printing.*	–

Display	Cause/Solution	🕮
Printer error: check ink.	There is a problem with the printer's ink. Check the ink, select **Resume**, and press the OK button to resume printing.*	–
Printer error: out of ink.	Replace the ink cartridge, select **Resume**, and press the OK button to resume printing.*	–
Printer error: file corrupt.	There is a problem with the image file to be printed. Select **Cancel** and press the OK button to cancel printing.	–

* See the documentation provided with your printer for further guidance and information.

Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative.

Power, Display, Settings Issues

Problem	Cause/Solution	🕮
The camera is on but does not respond.	• Wait for recording to end. • If the problem persists, turn the camera off. If the camera does not turn off, remove and reinsert the battery or batteries or, if you are using an AC adapter, disconnect and reconnect the AC adapter. Note that although any data currently being recorded will be lost, data that have already been recorded will not be affected by removing or disconnecting the power source.	–
The camera cannot be turned on.	The batteries are exhausted.	11, 150
The camera turns off without warning.	• The camera automatically turns off to save power (auto off function). • The camera and batteries may not work properly at low temperatures. • The inside of the camera has become hot. Leave the camera off until the inside of the camera has cooled, and then try turning it on again.	23 150 –
The monitor is blank.	• The camera is off. • The camera automatically turns off to save power (auto off function). • The flash lamp flashes while the flash is charging. Wait until charging is complete. • The camera is connected to a TV or computer. • The camera is shooting in **Multiple exp. Lighten** scene mode.	14 23 – – –
The camera becomes hot.	The camera may become hot when used for an extended period of time such as to shoot movies, or when used in a hot environment; this is not a malfunction.	–
The monitor is hard to see.	• The surroundings are too bright. - Move to a darker place. • Adjust the screen brightness.	– 133

Problem	Cause/Solution	🕮
🕒 flashes on the screen.	• If the camera clock has not been set, 🕒 flashes on the shooting screen, and images and movies saved before the clock is set are dated "00/00/0000 00:00" and "01/01/2016 00:00" respectively. Set the correct time and date for **Time zone and date** in the setup menu. • The camera clock is not as accurate as ordinary watches or clocks. Periodically compare the time of the camera clock with that of a more accurate timepiece and reset as required.	4, 131
Date and time of recording are not correct.		
No information displayed on the screen.	Shooting and photo information may be hidden. Press the **DISP** button until information is displayed.	4
Date stamp not available.	**Time zone and date** has not been set in the setup menu.	131
Date not stamped on images even when **Date stamp** is enabled.	• The current shooting mode does not support **Date stamp**. • The date cannot be stamped on movies.	134
Screen for setting time zone and date is displayed when the camera is turned on.	The clock battery is exhausted; all settings were restored to their default values. Configure the camera settings again. • The internal clock battery is used to power the camera clock and to retain certain settings. Charging time of the clock battery takes about 10 hours when you insert the batteries into the camera or connect the AC adapter (available separately) to the camera, and the clock battery operates for several days even after the camera batteries are removed.	–
The camera settings reset.		
The camera makes sound.	When **Autofocus mode** is set to **Full-time AF** or while in some shooting modes, the camera may produce an audible focusing sound.	28, 121

Shooting Issues

Problem	Cause/Solution	🕮
Cannot switch to shooting mode.	Disconnect the HDMI cable or USB cable.	87
Cannot take pictures or record movies.	• When the camera is in playback mode, press the ▶ button, shutter-release button, or ● (🎥) button. • When menus are displayed, press the **MENU** button. • The flash is charging while the flash lamp is flashing. • The batteries are exhausted.	2, 24 98 47 11, 150

Problem	Cause/Solution	🕮
The camera cannot focus.	• The subject is too close. Try shooting using scene auto selector mode, **Close-up** scene mode, or macro mode. • The subject is hard to focus on. • Set **AF assist** in the setup menu to **Auto**. • Turn the camera off and then on again.	28, 32, 35, 46, 51 57 135 –
Images are blurred.	• Use the flash. • Increase the ISO sensitivity value. • Enable **Photo VR** when shooting still images. Enable **Movie VR** when recording movies. • Use a tripod to stabilize the camera (using the self-timer at the same time is more effective).	47 110 122, 135 49
Bright specks appear in images captured with flash.	The flash is reflecting off particles in the air. Lower the flash.	23, 47
Flash does not fire.	• The flash is lowered. • A scene mode that restricts the flash is selected. • A function that restricts the flash is enabled.	23, 47 59 61
Digital zoom cannot be used.	• **Digital zoom** is set to **Off** in the setup menu. • Digital zoom cannot be used with certain shooting modes or when using certain settings in other functions.	136 62, 136
Image mode not available.	A function that restricts **Image mode** is enabled.	61
No sound when the shutter is released.	• **Off** is selected for **Shutter sound** in **Sound settings** in the setup menu. No sound is produced with some shooting modes, even when **On** is selected. • Do not block the speaker.	136 3
AF-assist illuminator does not light.	**Off** is selected for the **AF assist** option in the setup menu. AF-assist illuminator may not light depending on the position of the focus area or the shooting mode, even when **Auto** is selected.	135

Problem	Cause/Solution	🕮
Images appear smeared.	The lens is dirty. Clean the lens.	152
Colors are unnatural.	White balance or hue is not adjusted properly.	35, 106
Randomly spaced bright pixels ("noise") appear in image.	The subject is dark and the shutter speed is too slow, or ISO sensitivity is too high. Noise can be reduced by: • Using the flash • Specifying a lower ISO sensitivity setting	 47 110
Images are too dark (underexposed).	• The flash is lowered or a shooting mode that restricts the flash is selected. • The flash window is blocked. • The subject is beyond the range of the flash. • Adjust exposure compensation. • Increase ISO sensitivity. • The subject is backlit. Select **Backlighting** scene mode or raise the flash and set the flash mode setting to ϟ (fill flash).	23, 47, 59 21 165 52 110 33, 47
Images are too bright (overexposed).	Adjust exposure compensation.	52
Unexpected results when flash set to ϟ◉ (auto with red-eye reduction).	Use any shooting mode other than **Night portrait**, and change the flash mode to any setting other than ϟ◉ (auto with red-eye reduction) and try taking the picture again.	47, 59
Skin tones are not softened.	• Under some shooting conditions, facial skin tones may not be softened. • For images containing four or more faces, try using **Skin softening** in **Glamour retouch** in the playback menu.	57 71
Saving images takes time.	It may take more time to save images in the following situations: • When the noise reduction function is in operation, such as when shooting in a dark environment • When the flash mode is set to ϟ◉ (auto with red-eye reduction) • When shooting in **Night landscape**, **Night portrait**, or **Backlighting** (when **HDR** is set to **On**) scene mode • When the skin softening function is applied while shooting • When using continuous shooting mode	 – 48 32, 33 43, 57 108

Playback Issues

Problem	Cause/Solution	🕮
File cannot be played back.	• This camera may not be able to play back images saved with another make or model of digital camera. • This camera cannot play back movies recorded with another make or model of digital camera. • This camera may not be able to play back data edited on a computer.	–
Cannot zoom in on image.	• Playback zoom cannot be used with movies. • When zooming in on a small-sized image, the magnification rate shown on the screen may differ from the actual magnification rate of the image. • This camera may not be able to zoom in on images captured with another make or model of digital camera.	–
Cannot edit images.	• Some images cannot be edited. Images that have already been edited may not be edited again. • There is not enough free space on the memory card or in the internal memory. • This camera is unable to edit images captured with other cameras. • Editing functions used for images are not available for movies.	40, 69 – – –
Cannot rotate image.	This camera cannot rotate images captured with another make or model of digital camera.	–
Images are not displayed on TV.	• A computer or printer is connected to the camera. • The memory card contains no images. • Remove the memory card to play back images in the internal memory.	– – 12
Nikon Transfer 2 does not start when the camera is connected to a computer.	• The camera is off. • The batteries are exhausted. • The USB cable is not correctly connected. • The camera is not recognized by the computer. • The computer is not set to start Nikon Transfer 2 automatically. For more information about Nikon Transfer 2, refer to help information contained in ViewNX-i.	– 87 87, 94 – –

Problem	Cause/Solution	🕮
Images to be printed are not displayed.	• The memory card contains no images. • Remove the memory card to print images in the internal memory.	– 12
Cannot select paper size with the camera.	The camera cannot be used to select the paper size in the following situations, even when printing from a PictBridge-compatible printer. Use the printer to select the paper size. • The printer does not support the paper sizes specified by the camera. • The printer automatically selects the paper size.	–

File Names

Images or movies are assigned file names as follows.

File name: DSCN 0001 .JPG
(1) (2) (3)

(1) Identifier	Not shown on the screen of the camera. • DSCN: Original still images, movies, still images created by the movie editing function • SSCN: Small picture copies • RSCN: Cropped copies • FSCN: Images created by an image editing function other than crop and small picture, movies created by the movie editing function
(2) File number	Assigned in ascending order, starting with "0001" and ending with "9999."
(3) Extension	Indicates file format. • .JPG: Still images • .MP4: Movies

Optional Accessories

Battery charger, rechargeable batteries*	• **MH-73 Battery Charger** (includes four EN-MH2 Rechargeable Ni-MH batteries) • Replacement rechargeable batteries: EN-MH2-B4 Rechargeable Ni-MH batteries (set of four EN-MH2 batteries)
AC adapter	**EH-67/EH-67s AC Adapter**
Audio/video cable	**EG-CP16 Audio Video Cable**
Hand strap	**AH-CP1 Hand Strap**

* When using EN-MH2 Rechargeable Ni-MH batteries with the camera, charge the batteries four at a time using MH-73 Battery Charger. Also, do not charge batteries at the same time if they have different amounts of charge remaining (📖150). EN-MH1 Rechargeable Ni-MH batteries cannot be used.

Availability may vary with country or region.

See our website or brochures for the latest information.

Specifications

Nikon COOLPIX B500 Digital Camera

Type		Compact digital camera
Number of effective pixels		16.0 million (Image processing may reduce the number of effective pixels.)
Image sensor		1/2.3-in. type CMOS; approx. 16.76 million total pixels
Lens		NIKKOR lens with 40× optical zoom
	Focal length	4.0–160 mm (angle of view equivalent to that of 22.5–900 mm lens in 35mm [135] format)
	f/-number	f/3–6.5
	Construction	12 elements in 9 groups (3 ED lens elements)
Digital zoom magnification		Up to 4× (angle of view equivalent to that of approx. 3600 mm lens in 35mm [135] format)
Vibration reduction		Lens shift (still images) Lens shift and electronic VR (movies)
Autofocus (AF)		Contrast-detect AF
	Focus range	• [W]: Approx. 30 cm (1 ft)–∞, [T]: Approx. 3.5 m (11 ft)–∞ • Macro mode: Approx. 1 cm (0.4 in.)–∞ (wide-angle position) (All distances measured from center of front surface of lens)
	Focus-area selection	Face priority, manual with 99 focus areas, center, subject tracking, target finding AF
Monitor		7.5 cm (3-in.), approx. 921k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment, tiltable approx. 85° downward, approx. 90° upward
	Frame coverage (shooting mode)	Approx. 99% horizontal and vertical (compared to actual picture)
	Frame coverage (playback mode)	Approx. 99% horizontal and vertical (compared to actual picture)
Storage		
	Media	Internal memory (approx. 20 MB), SD/SDHC/SDXC memory card
	File system	DCF and Exif 2.3 compliant
	File formats	Still images: JPEG Movies: MP4 (Video: H.264/MPEG-4 AVC, Audio: AAC stereo)

Image size (pixels)		• 16M (High) [4608 × 3456★] • 16M [4608 × 3456] • 8M [3264 × 2448] • 4M [2272 × 1704] • 2M [1600 × 1200] • VGA [640 × 480] • 16:9 [4608 × 2592] • 1:1 [3456 × 3456]
ISO sensitivity (Standard output sensitivity)		• ISO 125–1600 • ISO 3200, 6400 (available when using Auto mode)
Exposure		
	Metering mode	Matrix, center-weighted (digital zoom less than 2×), spot (digital zoom 2× or more)
	Exposure control	Programmed auto exposure and exposure compensation (–2.0 – +2.0 EV in steps of $^1/_3$ EV)
Shutter		Mechanical and CMOS electronic shutter
	Speed	• $^1/_{1500}$–1 s • $^1/_{4000}$ s (maximum speed during high-speed continuous shooting) • 25 s (**Star trails** in **Multiple exp. Lighten** scene mode)
Aperture		Electronically-controlled ND filter (–2 AV) selection
	Range	2 steps (f/3 and f/6 [W])
Self-timer		• 10 s, 2 s • 5 s (self-portrait timer)
Flash		
	Range (approx.) (ISO sensitivity: Auto)	[W]: 0.5–6.9 m (1 ft 8 in.–22 ft) [T]: 3.5 m (11 ft)
	Flash control	TTL auto flash with monitor preflashes
Interface		
	USB connector	Hi-Speed USB • Supports Direct Print (PictBridge) • Audio/video output connector (NTSC or PAL can be selected)
	HDMI output connector	HDMI micro connector (Type D)
	DC input connector	For EH-67/EH-67s AC Adapter (available separately)

Wi-Fi (Wireless LAN)	
Standards	IEEE 802.11b/g (standard wireless LAN protocol)
Operating frequency	2412–2462 MHz (1-11 channels)
Authentication	Open system, WPA2-PSK
Bluetooth	
Communication protocols	Bluetooth Specification Version 4.1
Supported languages	Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese
Power sources	• Four LR6/L40 (AA-size) alkaline batteries • Four FR6/L91 (AA-size) lithium batteries • Four EN-MH2 Rechargeable Ni-MH batteries (available separately) • EH-67/EH-67s AC Adapter (available separately)
Battery life[1]	
Still images	• Approx. 600 shots when using alkaline batteries • Approx. 1240 shots when using lithium batteries • Approx. 750 shots when using EN-MH2 batteries
Movie recording (actual battery life for recording)[2]	• Approx. 1 h 30 min when using alkaline batteries • Approx. 4 h 30 min when using lithium batteries • Approx. 2 h 35 min when using EN-MH2 batteries
Tripod socket	1/4 (ISO 1222)
Dimensions (W × H × D)	Approx. 113.5 × 78.3 × 94.9 mm (4.5 × 3.1 × 3.8 in.) (excluding projections)
Weight	Approx. 542 g (1 lb 3.2 oz) (including LR6/L40 (AA-size) alkaline batteries and memory card)
Operating environment	
Temperature	0°C–40°C (32°F–104°F)
Humidity	85% or less (no condensation)

- All measurements are performed in conformity with Camera and Imaging Products Association (CIPA) standards or guidelines.

[1] Battery life does not reflect the use of SnapBridge and may vary with the conditions of use, including temperature, the interval between shots, and the length of time that menus and images are displayed. The supplied batteries are for trial use only. The figures listed for lithium batteries were obtained using commercially-available FR6/L91 (AA-size) Energizer® Ultimate Lithium batteries.

[2] Individual movie files cannot exceed 4 GB in size or 29 minutes in length. Recording may end before this limit is reached if camera temperature becomes elevated.

- Nikon will not be held liable for any errors this manual may contain.
- The appearance of this product and its specifications are subject to change without notice.

Memory Cards That Can Be Used

The camera supports SD, SDHC, and SDXC memory cards.

- Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies. When using a memory card with a lower Speed Class rating, movie recording may stop unexpectedly.
- If you use a card reader, make sure that it is compatible with your memory card.
- Contact the manufacturer for information on features, operation, and limitations on use.

Trademark Information

- Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Nikon Corporation is under license.
- Apple®, App Store®, the Apple logos, Mac, OS X, iPhone®, iPad®, iPod touch® and iBooks are trademarks or registered trademarks of Apple Inc., in the U.S. and other countries.
- Android and Google Play are trademarks or registered trademarks of Google Inc. The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License.
- iOS is a trademark or registered trademark of Cisco Systems, Inc., in the United States and/or other countries and is used under license.
- Adobe, the Adobe logo, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- SDXC, SDHC, and SD Logos are trademarks of SD-3C, LLC.

- PictBridge is a trademark.
- HDMI, HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

- Wi-Fi and the Wi-Fi logo are trademarks or registered trademarks of the Wi-Fi Alliance.
- The N-Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- All other trade names mentioned in this manual or the other documentation provided with your Nikon product are the trademarks or registered trademarks of their respective holders.

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

AVC Patent Portfolio License

This product is licensed under the AVC Patent Portfolio License for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC standard ("AVC video") and/or (ii) decode AVC video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC video. No license is granted or shall be implied for any other use.

Additional information may be obtained from MPEG LA, L.L.C.

See http://www.mpegla.com.

FreeType License (FreeType2)

Portions of this software are copyright © 2012 The FreeType Project (http://www.freetype.org). All rights reserved.

MIT License (HarfBuzz)

Portions of this software are copyright © 2016 The HarfBuzz Project (http://www.freedesktop.org/wiki/Software/HarfBuzz). All rights reserved.

Index

Symbols

Auto mode ... 28, 29
Scene auto selector mode ... 28, 31, 32
Backlighting mode ... 28, 31, 33
Creative mode ... 28, 41
SCENE Scene mode ... 28, 31
Short movie show mode ... 28, 80
Sports mode ... 28, 31, 34
Smart portrait mode ... 28, 43
Night portrait mode ... 28, 31, 33
Night landscape mode ... 28, 31, 32
Playback mode ... 24
List by date mode ... 66
Playback zoom ... 24, 64
W (Wide-angle) ... 53
Thumbnail playback ... 24, 65
T (Telephoto) ... 53
Snap-back zoom button ... 2, 54
Apply selection button ... 3, 98
Playback button ... 3, 24
Delete button ... 3, 25
(Movie-record) button ... 3, 23
DISP Display button ... 3, 4
Flash pop-up button ... 2, 23, 47
MENU Menu button ... 3, 98
Self-timer ... 46, 49
Flash mode ... 46, 47
Macro mode ... 46, 51
Exposure compensation ... 29, 43, 46, 52
N-Mark ... 2, 15

A

AC adapter ... 87, 163
Active D-Lighting ... 29
AF area mode ... 101, 111
AF assist ... 104, 135
AF-assist illuminator ... 2
Airplane mode ... 103, 129
Alkaline batteries ... 11
Audio/video cable ... 87, 88, 163
Audio/video-in jack ... 87, 88
Auto flash ... 48
Auto mode ... 28, 29
Auto off ... 23, 104, 137
Autofocus ... 57, 121
Autofocus mode ... 101, 102, 114, 121

B

Background music ... 80
Backlighting mode ... 28, 31, 33
Battery ... 11
Battery charger ... 163
Battery level ... 21
Battery type ... 104, 142
Battery-chamber/memory card slot cover ... 3
Beach ... 31
Bird-watching ... 37
Blink proof ... 101, 116
Bluetooth ... 15, 103, 129
Brightness ... 133
Button sound ... 136

C

Calendar display ... 65
Capturing still images while recording movies ... 79
Close-up ... 31, 35
Compression ratio ... 105
Computer ... 87, 94
Conformity marking ... 104, 142
Connect to smart device ... 103, 129
Connector cover ... 3, 87

Continuous shooting 101, 108
Copy 102, 127
Copyright information 104, 140
Creative mode 28, 41
Creative slider 29
Crop 64, 74
Current settings 129

D
Date and time 14, 131
Date format 17, 131
Date stamp 104, 134
Daylight saving time 17, 132
DC input connector 3
Delete 25, 68
Digital zoom 53, 104, 136
Direct print 87, 90
D-Lighting 70, 102
Dusk/dawn 31

E
Easy panorama playback 40
Easy panorama 31, 38
Editing images 69
Editing movies 84, 85
End recording 81
EN-MH2 ..... 150, 163
Exposure compensation 29, 43, 46, 52
Extracting still images 83, 85
Eyelet for camera strap 2

F
Face detection 56
Face priority 111
File names 162
Fill flash 48
Fireworks show 31, 35
Firmware version 104, 142
Fixed range auto 110
Flash 2, 23, 47
Flash lamp 3, 47
Flash mode 46, 47
F-number 55
Focus 55
Focus area 22
Focus indicator 5
Focus lock 58
Food 31, 35
Format internal memory 104, 138
Format memory cards 11, 104, 138
Formatting 11, 138
Foundation makeup 43
Frame rate 102, 123
Full-frame playback 24
Full-time AF 121

G
Glamour retouch 43, 71, 102

H
HDMI cable 87, 88
HDMI micro connector 3, 87
HDR 33
Help display 133
High-speed continuous 108
Histogram 8, 52
HS movie 118, 120
Hue 29

I
Image comment 104, 139
Image mode 101, 105
Image review 133
Internal memory 12
Interval 115
ISO sensitivity 101, 110

L
Landscape 31
Language 104, 138
Lens 2, 164
List by date mode 66

Lithium batteries 11
Location data 104, 141

M

Macro mode 46, 51
Mark for upload 102, 124
Memory card 11, 151, 168
Memory card slot 11
Microphone (stereo) 2
Mode dial 2, 21, 28
Monitor 3, 4, 13, 152
Monitor settings 104, 133
Moon 37
Movie menu 98, 117
Movie options 102, 117
Movie recording 23, 76
Movie VR 102, 122
Multi selector 3, 98
Multiple exp. Lighten 31, 34

N

Network menu 98, 129
Night landscape mode 28, 31, 32
Night portrait mode 28, 31, 33
Number of exposures remaining 21, 105
Number of shots 80, 115

O

Optical zoom 53
Optional accessories 163

P

Paper size 91, 92
Party/indoor 31, 35
Pet portrait auto release 36
Pet portrait 31, 36
Photo VR 104, 135
PictBridge 87, 90
Playback 24, 67, 83
Playback menu 98, 124
Playback mode 24
Playback zoom 24, 64
Portrait 31
Power switch/power-on lamp 2, 14
Preset manual 107
Pre-shooting cache 108, 109
Pressing halfway 55
Print 87, 91, 92
Printer 87, 90
Protect 102, 126

Q

Quick effects 69
Quick retouch 70, 102

R

Rechargeable battery 163
Rechargeable nickel-metal hydride batteries 11
Recording movies 23, 76
Recording slow motion movies 118, 120
Red-eye correction 71, 102
Red-eye reduction 48
Remaining movie recording time 76, 77
Reset all 104, 141
Restore default settings 103, 129
Rotate image 102, 126

S

Scene auto selector mode 28, 31, 32
Scene mode 28, 31
SD memory card 11, 151, 168
Self-Collage 45, 101, 115
Self-portrait timer 49
Self-timer 46, 49
Self-timer lamp 2, 50
Send while shooting 103, 129
Sequence display options 67, 102, 128
Setup menu 98, 131

Shooting 21, 28
Shooting information 4
Shooting menu 98, 105, 106
Shooting mode 28
Short movie show menu 80
Short movie show mode 28, 80
Shutter sound 115, 136
Shutter speed 55
Shutter-release button 2, 22
Side zoom control 2, 22, 53
Single AF 121
Single-frame shooting 108
Skin softening 43
Slide show 102, 125
Slow sync 48
Small picture 73, 102
Smart portrait menu 98, 115
Smart portrait mode 28, 43
Smile timer 44
Snow 31
Soft 43
Sound settings 104, 136
Speaker 3
Special effects 80, 82
Sports mode 28, 31, 34
Strap 10
Subject tracking 112, 113
Sunset 31
Sync with smart device 131

T

Target finding AF 55, 112
Telephoto 53
Thumbnail playback 24, 65
Time difference 132
Time zone 17, 131
Time zone and date 14, 104, 131
Tone level 8
Tone level information 4, 8
Tripod socket 3, 166
TV 87, 88

U

USB cable 87, 90, 94
USB/audio/video output connector 3, 87, 88, 90, 94

V

View/hide framing grid 6, 133
ViewNX-i 94
Vividness 29, 43
Volume 83

W

White balance 101, 106
Wide-angle 53
Wi-Fi 103, 129
Wind noise reduction 102, 122

Z

Zoom 53
Zoom control 2, 22, 53
Zoom in 53
Zoom out 53

No reproduction in any form of this manual, in whole or in part (except for brief quotation in critical articles or reviews), may be made without written authorization from NIKON CORPORATION.

NIKON CORPORATION

© 2016 Nikon Corporation

CT6D03(11)
6MN66411-03