

DIGITAL CAMERA

D3400

User's Manual





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



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. SnapBridge is available free of charge from the Apple App Store®, on Google Play™, and from the following website: http://snapbridge.nikon.com



For the latest information on SnapBridge, visit the Nikon website for your area (\square xix).

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:

- 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







For a complete guide to using your camera, see the *Reference Manual* (\Box vi). To get the most from your camera, please be sure to read this *User's Manual* thoroughly and keep it where it will be read by all who use the product.

Symbols and Conventions

To make it easier to find the information you need, the following symbols and conventions are used:



This icon marks cautions; information that should be read before use to prevent damage to the camera.



This icon marks notes; information that should be read before using the camera.



This icon marks references to other pages in this manual.

Menu items, options, and messages displayed in the camera monitor are shown in **bold**.

Camera Settings

The explanations in this manual assume that default settings are used.

Nikon User Support

Contact a Nikon representative for technical assistance with the operation of your Nikon product or products. For information on the Nikon representatives in your area, visit http://www.nikon-asia.com/support.

Nikon Manual Viewer 2



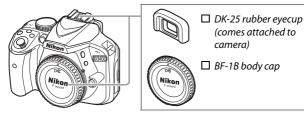
Install the Nikon Manual Viewer 2 app on your smartphone or tablet to view Nikon digital camera manuals, anytime, anywhere. Nikon Manual Viewer 2 can be downloaded free of charge from the App Store and on Google Play. Download of the app and any product manuals requires an Internet connection, for which fees may be levied by your phone or Internet service provider.

⚠ For Your Safety

Before using the camera for the first time, read the safety instructions in "For Your Safety" (\square xi-xiv).

Package Contents

Be sure all items listed here were included with your camera.



- 🗖 D3400 camera
- □ EN-EL14a rechargeable Li-ion battery (with terminal cover)
- ☐ MH-24 battery charger (plug adapter supplied in countries or regions where required; shape depends on country of sale)

□ AN-DC3 strap

- User's Manual (this booklet)
- U Warranty

Purchasers of the lens kit option should confirm that the package also includes a lens. *Memory cards are sold separately* (^[]] 84). Cameras purchased in Japan display menus and messages in English and Japanese only; other languages are not supported. We apologize for any inconvenience this may cause.

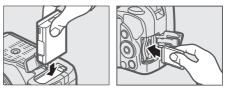
Quick Start Guide

Follow these steps for a quick start with the D3400.

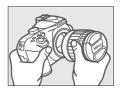
1 Attach the camera strap (\Box 10).

Attach the strap as shown. Repeat for the second eyelet.

- **2** Charge the battery (\Box 10).
- ${f 3}$ Insert the battery and memory card (${f \square}$ 12).



4 Attach a lens (⁽¹⁾ 15).



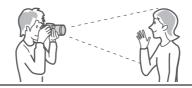
5 Turn the camera on (\Box 17).



${f 6}$ Choose a language and set the clock (\square 17).

After choosing a language, you will be prompted to connect the camera and smart device. To exit without connecting, press the **MENU** button. Follow the on-screen instructions to set the clock.

7 Frame the photograph (\Box 27).



 ${f 8}$ Press the shutter-release button halfway (${f \square}$ 30).



9 Shoot (\square 31).



The Reference Manual

For more information on using your Nikon camera, download a pdf copy of the camera *Reference Manual* from the website listed below. The *Reference Manual* can be viewed using Adobe Reader.

- 1 On your computer, launch a web browser and open the Nikon manual download site at http://downloadcenter.nikonimglib.com/
- **2** Navigate to the page for the desired product and download the manual.

ViewNX-i and Capture NX-D Software

Use ViewNX-i to fine-tune photos or to copy pictures to a computer for viewing. ViewNX-i is available for download from the following website:

http://downloadcenter.nikonimglib.com/

Use Capture NX-D to fine-tune pictures that have been copied to a computer and to convert NEF (RAW) images to other formats. Capture NX-D is available for download from: http://downloadcenter.nikonimglib.com/

You can also visit this website for the latest information on Nikon software, including system requirements.

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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.

 \triangle DANGER: Failure to observe the precautions marked with this icon carries a high risk of death or severe injury.

 $\underline{\wedge}$ **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.



- 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 battery 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 directly view the sun or other bright light source through the lens or camera.

Failure to observe this precaution could result in visual impairment.

Do not aim the flash or AF-assist illuminator 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 charging the product or 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.



• Do not leave the lens pointed at the sun or other strong light sources. Light focused by the lens could cause fire or damage to product's internal parts. When shooting backlit subjects, keep the sun well out of the frame. Sunlight focused into the camera when the sun is close to the frame could cause fire. • 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 battery 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 (Batteries)

Do not mishandle batteries.

Failure to observe the following precautions could result in the batteries leaking, overheating, rupturing, or catching fire:

- Use only rechargeable batteries approved for use in this product.
- 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.
- Do not attempt to recharge EN-EL14a rechargeable batteries using chargers not specifically designated for this purpose.

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.



- Keep batteries out of reach of children. Should a child swallow a battery, seek immediate medical attention.
- Do not immerse batteries 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-EL14a rechargeable batteries if they do not charge in the specified period of time.

Failure to observe these precautions 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.

Notices

- 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.
- Nikon reserves the right to change the appearance and specifications of the hardware and software described in these manuals at any time and without prior notice.

Notice for Customers in Canada

CAN ICES-3 B / NMB-3 B

Notices for Customers in Europe

- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort has been 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).

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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 battery indicates that the battery is 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.

Notices for Customers in the U.S.A.

The Battery Charger IMPORTANT SAFETY INSTRUCTIONS—SAVE THESE INSTRUCTIONS DANGER—TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed. This power unit is intended to be correctly oriented in a vertical or floor mount position.

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 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.

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

Notice Concerning Prohibition of Copying or Reproduction

Note that simply being in possession of material that has been digitally copied or reproduced by means of a scanner, digital camera, or other device may be punishable by law.

Items prohibited by law from being copied or reproduced

Do not copy or reproduce paper money, coins, securities, government bonds, or local government bonds, even if such copies or reproductions are stamped "Sample."

The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited.

Unless the prior permission of the government has been obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited.

The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited.

Cautions on certain copies and reproductions

The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards, and tickets, such as passes and meal coupons.

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 memory cards or other data storage devices 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, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Care should be taken to avoid injury when physically destroying data storage devices.

Before discarding the camera or transferring ownership to another person, you should also use the **Reset all settings** option in the camera setup menu to delete any personal network information.

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 (İ) 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

Use Only Nikon Brand Electronic Accessories

Nikon cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including chargers, batteries, AC adapters, and flash accessories) 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. The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal shown at right could interfere with



normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

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

Use Only Nikon Brand Accessories

Only Nikon brand accessories certified by Nikon specifically for use with your Nikon digital camera are engineered and proven to operate within its operational and safety requirements. THE USE OF NON-NIKON ACCESSORIES COULD DAMAGE YOUR CAMERA AND MAY VOID YOUR NIKON WARRANTY.

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.

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 sites:

- For users in the U.S.A.: http://www.nikonusa.com/
- For users in Europe and Africa: http://www.europe-nikon.com/support/

• For users in Asia, Oceania, and the Middle East: http://www.nikon-asia.com/ Visit these sites 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. See the following URL for contact information: http://imaging.nikon.com/

Bluetooth

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).

The use of wireless devices may be prohibited in some countries or regions. Contact a Nikon-authorized service representative before using the wireless features of this product outside the country of purchase.

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

This device complies with Part 15 of FCC Rules and Industry Canada licenceexempt 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 the device.

FCC WARNING

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.

FCC Radio Frequency Interference Statement

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

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

Co-location

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

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FCC/IC RF Exposure Statement

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. The D3400, which is equipped with a TYPE1FJ (FCC ID:VPYLB1FJ / IC ID:772C-LB1FJ), 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.

Notices for Customers in Europe

Hereby, Nikon Corporation declares that the radio equipment type D3400 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

http://imaging.nikon.com/support/pdf/DoC_D3400.pdf.

Notice for Customers in Singapore



This device complies with radio-frequency regulations. The content of certification labels not affixed to the device is given below.

| Complies with |
|----------------|
| IMDA Standards |
| DA103423 |

Notice for Customers in Nigeria

Connection and use of this communications

equipment is permitted by the Nigerian

Communications Commission

CE

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:

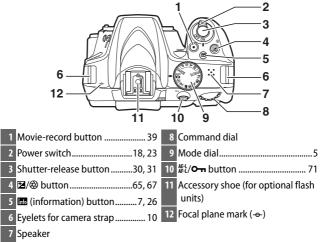
- Data theft: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- Unauthorized access: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks, specialized attacks may allow unauthorized access even when security is enabled.
- Unsecured networks: Connecting to open networks may result in unauthorized access. Use secure networks only.

Introduction

Getting to Know the Camera

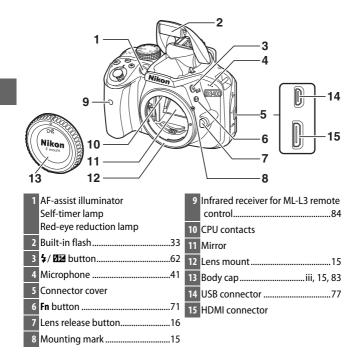
Take a few moments to familiarize yourself with camera controls and displays. You may find it helpful to bookmark this section and refer to it as you read through the rest of the manual.

The Camera Body



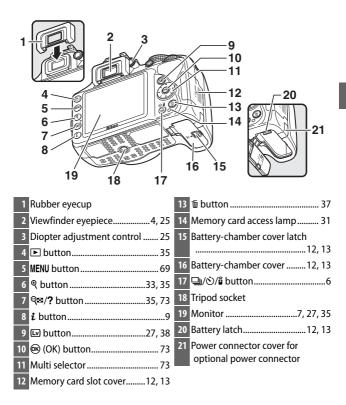
The Speaker

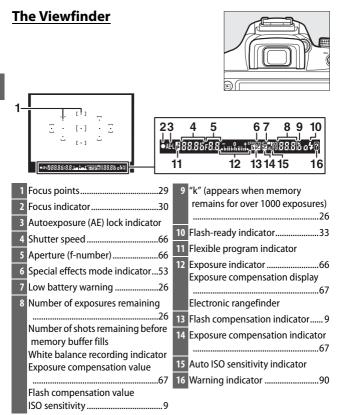
Do not place the speaker in close proximity to magnetic devices. Failure to observe this precaution could affect the data recorded on the magnetic devices.



Close the Connector Cover

Close the connector cover when the connectors are not in use. Foreign matter in the connectors can interfere with data transfer.

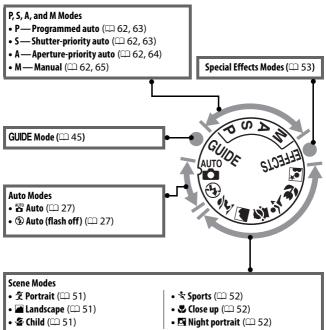




Note: Display shown with all indicators lit for illustrative purposes.

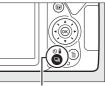
<u>The Mode Dial</u>

The camera offers a choice of the following shooting modes and **GUIDE** mode:



<u>The 🖳 (လံ/စၳ) Button</u>

To choose how the shutter is released (release mode), press the \square (\circlearrowright / $\hat{\mathbf{s}}$) button, then use the multi selector to highlight the desired option and press N.







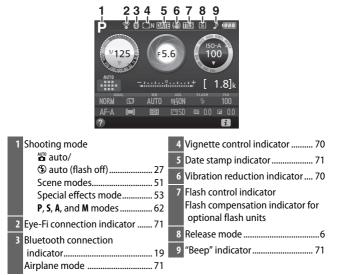
| Mode | Description | | |
|------|---|--|--|
| S | Single frame: Camera takes one photograph each time shutter- release button is pressed. | | |
| Ð | Continuous : The camera takes photographs while the shutter-release button is pressed. | | |
| Q | Quiet shutter release: As for single-frame, except that camera noise is reduced. | | |
| હ | Self-timer : Take pictures using the self-timer. The timer starts when the shutter-release button is pressed all the way down, and the shutter is released after about 10 seconds. | | |
| â 2s | Delayed remote (ML-L3) : Shutter is released 2 s after shutter-release button on optional ML-L3 remote control is pressed. | | |
| Ô | Quick-response remote (ML-L3) : Shutter is released when shutter- release button on optional ML-L3 remote control is pressed. | | |

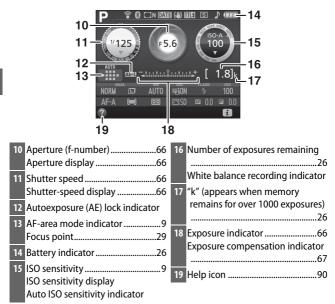
The Information Display

Viewing settings: To view the information display, press the 🔤 button.



info button



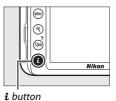


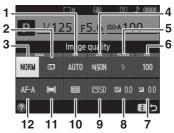
Note: Display shown with all indicators lit for illustrative purposes.

Turning the Monitor Off

To clear shooting information from the monitor, press the Im button or press the shutter-release button halfway. The monitor will turn off automatically if no operations are performed for about 8 seconds (the **Auto off timers** option in the setup menu, can be used to choose how long the monitor remains on).

Changing settings: To change the settings at the bottom of the display, press the \mathbf{i} button, then highlight items using the multi selector and press \mathbf{i} to view options for the highlighted item. You can also change settings by pressing the \mathbf{i} button during live view.



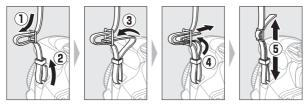


| 1 | White balance | Adjust settings for different types of lighting. |
|----|-----------------|--|
| 2 | Image size | Choose a size for new photos. |
| 3 | Image quality | Choose a file format and compression ratio. |
| 4 | Active | Improves the level of detail in highlights and |
| | D-Lighting | shadows under high-contrast conditions. |
| 5 | Flash mode | Choose the flash mode. |
| 6 | ISO sensitivity | Control the camera's sensitivity to light. |
| 7 | Exposure | Adjust exposure from the value metered by the |
| | compensation | camera, making the entire frame brighter or |
| | | darker. |
| 8 | Flash | Adjust flash level. |
| | compensation | |
| 9 | Set Picture | Picture Controls determine how new photos are |
| | Control | processed. Choose a Picture Control according to |
| | | the type of scene or your creative intent. |
| 10 | Metering | Choose how the camera meters exposure. |
| 44 | AF-area mode | Choose how the focus area is selected. |
| 11 | / area mode | |
| | Focus mode | Choose how the camera focuses. |

First Steps

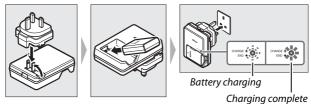
Attach the Camera Strap

Attach the strap securely to the two camera eyelets.



Charge the Battery

If a plug adapter is supplied, raise the wall plug and connect the plug adapter as shown below at left, making sure the plug is fully inserted. Insert the battery and plug the charger in. An exhausted battery will fully charge in about an hour and 50 minutes.



During Charging

Do not move the charger or touch the battery during charging. Failure to observe this precaution could in very rare instances result in the charger showing that charging is complete when the battery is only partially charged. Remove and reinsert the battery to begin charging again.

Charging the Battery

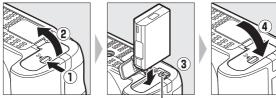
Read and follow the warnings and cautions on pages xi-xiv and 86–89 of this manual. Charge the battery indoors at ambient temperatures of 5 °C-35 °C (41 °F-95 °F). Do not use the battery at ambient temperatures below 0 °C/32 °F or above 40 °C/104 °F; failure to observe this precaution could damage the battery or impair its performance. Capacity may be reduced and charging times may increase at battery temperatures from 0 °C/32 °F to 15 °C/59 °F and from 45 °C/113 °F to 60 °C/140 °F. The battery will not charge if its temperature is below 0 °C (32 °F) or above 60 °C (140 °F). If the **CHARGE** lamp flashes quickly (about eight times a second) during charging, confirm that the temperature is in the correct range and then unplug the charger and remove and reinsert the battery. If the problem persists, cease use immediately and take battery and charger to your retailer or a Nikon-authorized service representative.

Do not short the charger terminals. Failure to observe this precaution could result in overheating and damage to the charger.

Use the charger with compatible batteries only. Unplug when not in use.

Insert the Battery and a Memory Card

Before inserting or removing the battery or memory cards, confirm that power switch is in the **OFF** position. Insert the battery as shown, using the battery to keep the orange battery latch pressed to one side. The latch locks the battery in place when the battery is fully inserted.



Battery latch

Holding the memory card in the orientation shown, slide it in until it clicks into place.



The Clock Battery

The camera clock is powered by an independent, rechargeable power source, which is charged as necessary when the main battery is installed. Three days of charging will power the clock for about a month. If a message warning that the clock is not set is displayed when the camera is turned on, the clock battery is exhausted and the clock has been reset. Set the clock to the correct time and date.

II *Removing the Battery and Memory Cards* Removing the Battery

To remove the battery, turn the camera off and open the battery-chamber cover. Press the battery latch in the direction shown by the arrow to release the battery and then remove the battery by hand.

Removing Memory Cards

After confirming that the memory card access lamp is off, turn the camera off, open the memory card slot cover, and press the card in to eject it (\mathbb{D}) . The card can then be removed by hand (2).

Formatting Memory Cards

If this is the first time the memory card will be used in the camera or if the card has been formatted in another device, select **Format memory card** in the setup menu and follow the on-screen instructions to format the card (\Box 71). Note that this permanently deletes any data the card may contain. Be sure to

any data the card may contain. Be sure to copy any photographs and other data you wish to keep to a computer before proceeding.



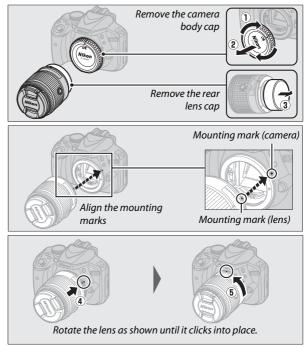


Memory Cards

- Memory cards may be hot after use. Observe due caution when removing memory cards from the camera.
- Do not remove memory cards from the camera, turn the camera off, or remove or disconnect the power source during formatting or while data are being recorded, deleted, or copied to a computer. Failure to observe these precautions could result in loss of data or in damage to the camera or card.
- Do not touch the card terminals with your fingers or metal objects.
- Do not bend, drop, or subject to strong physical shocks.
- Do not apply force to the card casing. Failure to observe this precaution could damage the card.
- Do not expose to water, heat, high levels of humidity, or direct sunlight.
- Do not format memory cards in a computer.

Attach a Lens

Be careful to prevent dust from entering the camera when the lens or body cap is removed.



Be sure to remove the lens cap before taking pictures.

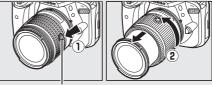
Detaching the Lens

Be sure the camera is off when removing or exchanging lenses. To remove the lens, press and hold the lens release button (1) while turning the lens clockwise (2). After removing the lens, replace the lens caps and camera body cap.



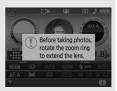
Lenses with Retractable Lens Barrel Buttons

Before using the camera, unlock and extend the lens. Keeping the retractable lens barrel button pressed (1), rotate the zoom ring as shown (2).



Retractable lens barrel button

Pictures can not be taken when the lens is retracted; if an error message is displayed as a result of the camera having been turned on with the lens retracted, rotate the zoom ring until the message is no longer displayed.



Retracting Lenses with Retractable Lens Barrel Buttons

To retract the lens when the camera is not in use, hold the retractable lens barrel button (①) and rotate the zoom ring to the "L" (lock) position as shown (②). Retract the lens before removing it from the camera, and be careful not to press the retractable lens barrel button when attaching or removing the lens.



Camera Setup

Setup Using a Smartphone or Tablet

Before proceeding, check the camera to ensure that the battery is fully charged and the memory card has space available. On your smartphone or tablet (below "smart device"), install the SnapBridge app as



described inside the front cover and enable Bluetooth. Note that the actual connection to the camera will be made using the SnapBridge app; do not use Bluetooth settings in the settings app on your smart device. The instructions that follow refer to version 2.0 of the SnapBridge app; for information on the latest version, see the *SnapBridge Connection Guide* (pdf), available for download from the following website:

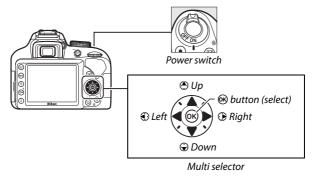
http://downloadcenter.nikonimglib.com

The actual camera and smart device displays may differ from those shown below.

1 Camera: Turn the camera on. A language-selection dialog will be displayed.



Use the multi selector and ® button to navigate the menus.



Press (*) and (*) to highlight a language and press (*) to select. The language can be changed at any time using the **Language** option in the setup menu.

right is not displayed or if you wish to configure the camera again, highlight Connect to smart device in the setup menu and press 🛞. If you ManuSkip do not wish to use a smart device to configure the camera, set the clock manually (\Box 24). **3** Camera/smart device: Start pairing.

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 Camera: Confirm that the camera displays the message shown at right and ready the smart device.

2 Camera: When the dialog at right is displayed, press [®]. If the dialog at

5 Smart device: Launch the SnapBridge app and tap Pair with camera. If prompted to choose a camera, tap the camera name.







OKSet

6 Smart device: Tap the camera name in the "Pair with camera" dialog. Users who are pairing a camera with an iOS device for the first time will first be presented with pairing instructions; after reading the instructions, scroll to the bottom of the display and tap Understood. If you are then prompted to choose an accessory,



tap the camera name again (there may be some delay before the camera name is displayed).

7 Camera/smart device: Confirm that the camera and smart device display the same six-digit number. Some versions of iOS may not display a number; if no number displayed, proceed to Step 8.



8 Camera/smart device: Press (**) on the camera and tap PAIR on the smart device (the display varies with the device and operating system).





9 Camera/smart device: Complete pairing.

• Camera: Press ® when the message at right is displayed.



connected! SnapBridge will send your photos to your smart device as they are taken.

OKNext

• Smart device: Tap OK when the message at right is displayed.



10 Camera: Follow the on-screen instructions to complete setup.

- To allow the camera to add location data to photos, select Yes in response to "Download location data from smart device?" and then enable location services on the smart device and enable Auto link options > Synchronize location data in the SnapBridge app • tab.
- To synchronize the camera clock with the time provided by the smart device, select Yes in response to "Sync clock with smart device?" and then enable Auto link options > Synchronize clocks in the SnapBridge app • tab.

The smart device and camera are now connected. Any pictures you take with the camera will automatically be uploaded to the smart device.

Setup from the Camera Menus

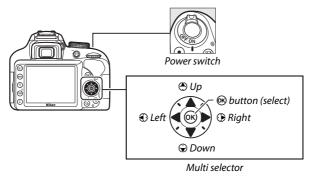
The camera clock can be set manually.

1 Turn the camera on.

A language-selection dialog will be displayed.



Use the multi selector and ® button to navigate the menus.

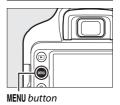


Press O and O to highlight a language and press O to select. The language can be changed at any time using the **Language** option in the setup menu.

2 Press MENU when the dialog at right is displayed.

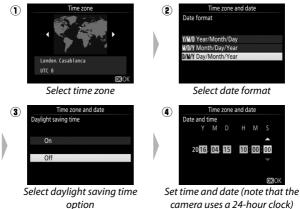






3 Set the camera clock.

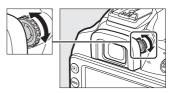
Use the multi selector and ® button to set the camera clock.

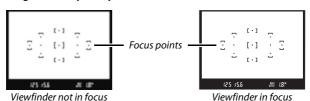


The clock can be adjusted at any time using the **Time zone** and date > **Date and time** option in the setup menu.

Focus the Viewfinder

After removing the lens cap, rotate the diopter adjustment control until the focus points are in sharp focus. When operating the control with your eye to the viewfinder, be careful not to put your fingers or fingernails in your eye.

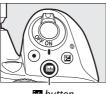




The camera is now ready for use. Proceed to page 27 for information on taking photographs.

The Battery Level and Number of Exposures Remaining

Press the I button and check the battery level and number of exposures remaining in the information display.



info button



Number of exposures remaining

Battery Level

If the battery is low, a warning will also be displayed in the viewfinder. If the information display does not appear when the button is pressed, the battery is exhausted and needs to be recharged.

| Information display | Viewfinder | Description |
|------------------------|------------|--|
| | — | Battery fully charged. |
| | — | Battery partially discharged. |
| | | Low battery. Ready fully-charged spare battery or prepare to charge battery. |
| (flashes) | (flashes) | Battery exhausted. Charge battery. |

Number of Exposures Remaining

Values over 1000 are shown in thousands, indicated by the letter "k".

Basic Photography and Playback

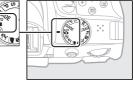
"Point-and-Shoot" Modes (🖞 and 🕄)

This section describes how to take photographs in and modes. and modes are automatic "point-and-shoot" modes in which the majority of settings are controlled by the camera in response to shooting conditions; the only difference between the two is that the flash will not fire in mode.



1 Rotate the mode dial to ∰ or ⊕.

Mode dial



Photographs can be framed in the viewfinder or in the monitor (live view). To start live view, press the 🖾 button.



■ button



Framing pictures in the viewfinder



Framing pictures in the monitor (live view)

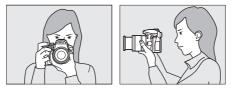
2 Ready the camera.

Viewfinder photography: When framing photographs in the viewfinder, hold the handgrip in your right hand and cradle the camera body or lens with your left. Bring your elbows in against the sides of your chest.





Live view: When framing photographs in the monitor, hold the handgrip in your right hand and cradle the lens with your left.



Framing Photographs in Portrait (Tall) Orientation

When framing photographs in portrait (tall) orientation, hold the camera as shown below.



Framing photographs in the viewfinder



Framing photographs in the monitor

3 Frame the photograph. Viewfinder photography: Frame a photograph in the viewfinder with the main subject in at least one of the 11 focus points.



Focus point

Live view: At default settings, the camera automatically detects faces and selects the focus point. If no face is detected, the camera will focus on subjects near the center of the frame.



Focus point

🖉 Using a Zoom Lens

Before focusing, rotate the zoom ring to adjust the focal length and frame the photograph. Use the zoom ring to zoom in on the subject so that it fills a larger area of the frame, or zoom out to increase the area visible in the final photograph (select longer focal lengths on the lens focal length scale to zoom in, shorter focal lengths to zoom out).





Zoom out

4 Press the shutter-release button halfway. Viewfinder photography: Press the shutter-release button halfway to focus (if the subject is poorly lit, the flash may pop up and the AFassist illuminator may light).



In-focus indicator

When the focus operation is complete, a beep will sound (a beep may not sound if the subject is moving) and the in-focus indicator (\bullet) will appear in the viewfinder.

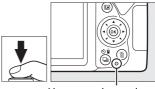
| In-focus indicator | Description | |
|--------------------|--|--|
| • | Subject in focus. | |
| | Camera unable to focus using autofocus. See page 91. | |

Live view: The focus point flashes green while the camera focuses. If the camera is able to focus, the focus point will be displayed in green; otherwise, the focus point will flash red.



5 Shoot.

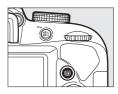
Smoothly press the shutterrelease button the rest of the way down to take the photograph. The memory card access lamp will light and the photograph will be displayed in the monitor for a few seconds. Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete.



Memory card access lamp



To end live view, press the 교 button.



The Shutter-Release Button

The camera has a two-stage shutter-release button. The camera focuses when the shutter-release button is pressed halfway. To take the photograph, press the shutter-release button the rest of the way down.











Shoot: press all the way down

Pressing the shutter-release button halfway also ends playback and readies the camera for immediate use.

Automatic Scene Selection (Scene Auto Selector)

If live view is selected in a or ③ mode, the camera will automatically analyze the subject and select the appropriate shooting mode when the shutter-release button is pressed halfway to focus using autofocus. The selected mode is shown in the monitor.



| ĩ | Portrait | Human portrait subjects | |
|------------|------------------|--|--|
| | Landscape | Landscapes and cityscapes | |
| ۳. | Close up | Subjects close to the camera | |
| B ľ | Night portrait | Portrait subjects framed against a dark background | |
| AUTO | Auto | Subjects suited to 📅 or 🟵 mode or that do not | |
| ٦ | Auto (flash off) | fall into the categories listed above | |

The Standby Timer (Viewfinder Photography)

The viewfinder and information display will turn off if no operations are performed for about eight seconds, reducing the drain on the battery. Press the shutterrelease button halfway to reactivate the display. The length of time before the standby timer expires



automatically can be selected using the **Auto off timers** option in the setup menu (\square 71).



Exposure meters off



The Count Down Display (Live View)

A count down will be displayed 30 s before live view ends automatically (the timer turns red 5 s before the auto off timer expires (**Auto off timers**; \square 71) or if live view is about to end to protect the internal circuits). Depending on shooting conditions, the timer may appear immediately when live view is selected.

🖉 The Built-in Flash

If additional lighting is required for correct exposure in a mode, the built-in flash will pop up automatically when the shutterrelease button is pressed halfway. If the flash is raised, photographs can only be taken when the flash-ready indicator (*) is displayed. If the flash-ready indicator is not displayed, the flash is charging; remove your finger briefly from the shutter-release button and try again.

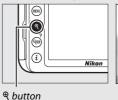


When the flash is not in use, return it to its closed position by pressing it gently downward till the latch clicks into place.



Live View Zoom Preview

To magnify the view in the monitor up to about $8.3 \times \text{for precise focus}$, press the \mathfrak{P} button. While the view through the lens is zoomed in, a navigation window will appear in a gray frame at the bottom right corner of the display. Use the multi selector to scroll to areas of the frame not visible in the monitor, or press \mathfrak{P} (?) to zoom out.





Shooting in Live View

Although they will not appear in the final picture, jagged edges, color fringing, moiré, and bright spots may appear in the monitor, while bright regions or bands may appear in some areas with flashing signs and other intermittent light sources or if the subject is briefly illuminated by a strobe or other bright, momentary light source. In addition, distortion may occur with moving subjects, particularly if the camera is panned horizontally or an object moves horizontally at high speed through the frame. Flicker and banding visible in the monitor under fluorescent, mercury vapor, or sodium lamps can be reduced using **Flicker reduction** (\square 71), although they may still be visible in the final photograph at some shutter speeds. Avoid pointing the camera at the sun or other strong light sources. Failure to observe this precaution could result in damage to the camera's internal circuitry. Live view ends automatically if the mode dial is rotated to **GUIDE** or the mode dial is rotated from **GUIDE** to another setting.

To prevent light entering via the viewfinder from appearing in the photograph or interfering with exposure, we recommend that you cover the viewfinder with your hand or other objects such as an optional eyepiece cap before taking pictures without your eye to the viewfinder.

Viewing Photographs

Pressing 🗈 displays a picture in the monitor.



▶ button

Press ④ or ④ to view additional pictures.



II Thumbnail Playback

To display images in "contact sheets" of four, nine, or 72 images (thumbnail playback), press the २ (?) button. Use the multi selector or command dial to highlight images and press (to display the highlighted image full frame. Press to reduce the number of images displayed.







II Calendar Playback

To view images taken on a selected date (calendar playback), press the $\mathfrak{P} \mathfrak{A} \mathfrak{A}$ (?) button when 72 images are displayed. Press the $\mathfrak{P} \mathfrak{A} \mathfrak{A}$ (?) button to toggle between the date list and the list of thumbnails for the selected date. Use the multi selector to highlight dates in the date list or to highlight pictures in the thumbnail list. Press \mathfrak{P} when the cursor is in the date list to return to 72frame playback.

Date list



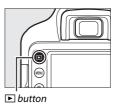
Thumbnail list

Deleting Unwanted Photographs

To delete the photograph currently displayed in the monitor, press the fin button. Note that photographs can not be recovered once deleted.

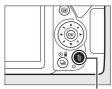
1 Display the photograph.

Display the photograph you wish to delete.



2 Delete the photograph.

Press the finibutton. A confirmation dialog will be displayed; press the finibutton again to delete the image and return to playback.







Recording Movies

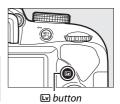
Movies can be recorded in live view mode.

1 Press the 교 button.

The view through the lens will be displayed in the monitor.

🔽 The 🗽 Icon

A 🕅 icon indicates that movies can not be recorded.



2 Ready the camera.

Hold the handgrip in your right hand and cradle the camera body or lens with your left.





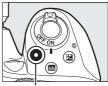
3 Focus.

Press the shutter-release button halfway to focus.



4 Start recording.

Press the movie-record button to start recording. A recording indicator and the time available are displayed in the monitor.



Movie-record button

Recording indicator



Time remaining

5 End recording.

Press the movie-record button again to end recording. Recording will end automatically when the maximum length is reached, the memory card is full, or another mode is selected. Press the in button to end live view.



Maximum Length

The maximum size for individual movie files is 4 GB; maximum length varies with the options selected for **Movie settings** > **Frame size**/ **frame rate** and **Movie quality** in the shooting menu (\square 70) as shown below. Note that depending on memory card write speed, shooting may end before this length is reached.

| Movie quality | Frame size/frame rate ¹ | Maximum length ² |
|---------------|--|-----------------------------|
| | 蘭 1920 × 1080; 60p | 10 min. |
| | 蘭 1920 × 1080; 50p | TO TIMI. |
| | ≌ 1920 × 1080; 30p | |
| High quality | 醬 1920 × 1080; 25p | |
| | 赞 1920 × 1080; 24p | 20 min. |
| | 720 th 1280 × 720;60p | |
| | 拉爾 1280 × 720; 50p | |
| | 1920 × 1080; 60p | 20 min. |
| | 1920 × 1080; 50p | 2011111. |
| | 1920 × 1080; 30p | |
| Normal | ≊ 1920 × 1080; 25p | |
| | 1920 × 1080; 24p | 29 min. 59 s |
| | ⁷²⁰ [°] 1280 × 720;60p | |
| | 720 m 1280 × 720; 50p | |

1 Listed value. Actual frame rates for 60p, 50p, 30p, 25p, and 24p are 59.94, 50, 29.97, 25, and 23.976 fps respectively.

2 Movies recorded in miniature effect mode are up to three minutes long when played back.

Recording Movies

Flicker, banding, or distortion may be visible in the monitor and in the final movie under fluorescent, mercury vapor, or sodium lamps or with subjects that are in motion, particularly if the camera is panned horizontally or an object moves horizontally at high speed through frame (flicker and banding can be reduced using **Flicker reduction**; 71). Jagged edges, color fringing, moiré, and bright spots may also appear. Bright regions or bands may appear in some areas of the frame with flashing signs and other intermittent light sources or if the subject is briefly illuminated by a strobe or other bright, momentary light sources. Failure to observe this precaution could result in damage to the camera's internal circuitry.

The camera can record both video and sound; do not cover the microphone during recording. Note that the built-in microphone may record lens noise during autofocus and vibration reduction.

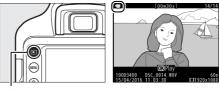
Flash lighting can not be used during movie recording.

The Count Down Display

A count down will be displayed 30 s before live view ends automatically. Depending on shooting conditions, the timer may appear immediately when movie recording begins. Note that regardless of the amount of recording time available, live view will still end automatically when the timer expires.

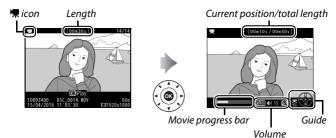
Viewing Movies

Press \blacktriangleright to start playback and then scroll through pictures until a movie (indicated by a \P icon) is displayed.



▶ button

Press $\textcircled{\sc start}$ playback; your current position is indicated by the movie progress bar.



The following operations can be performed:

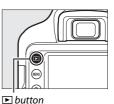
| То | Use | Description | |
|-----------------------------------|----------|--|--|
| Pause | | Pause playback. | |
| Play | | Resume playback when movie is paused or during rewind/advance. | |
| Advance/rewind | | Speed increases with each press, from 2× to 4× to 8× to 16×; keep pressed to skip to beginning or end of movie (first frame is indicated by ₪ in top right corner of monitor, last frame by ₪). If playback is paused, movie rewinds or advances one frame at a time; hold for continuous rewind or advance. | |
| Start slow-motion playback | | Press \bigoplus while the movie is paused to start slow-motion playback. | |
| Skip 10 s | S | Rotate the command dial to skip ahead or back 10 s. | |
| Adjust volume | ®/ঀ≅ (?) | Press ♥ to increase volume, ♥☎ (?) to decrease. | |
| Return to full- frame playback | | Press 🗈 or 🕭 to exit to full-frame playback. | |

Deleting Unwanted Movies

To delete the movie currently displayed in the monitor, press the for button. Note that movies can not be recovered once deleted.

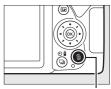
1 Display the movie.

Display the movie you wish to delete.



2 Delete the movie.

Press the for button. A confirmation dialog will be displayed; press the for button again to delete the movie and return to playback.



ี่ **button**

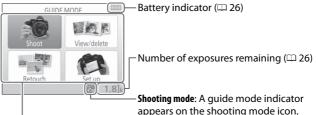


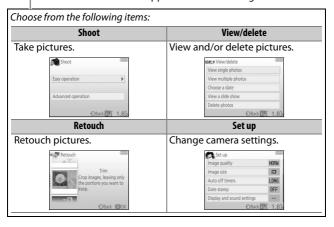
Guide Mode

The Guide

Guide mode gives access to a variety of frequently-used and useful functions. The top level of the guide is displayed when the mode dial is rotated to **GUIDE**.







Guide Mode Menus

To access these menus, highlight **Shoot**, **View/delete**, **Retouch**, or **Set up** and press ®.



Shoot

| Easy operation | Adva | anced operation | | |
|--------------------------------|-------|--------------------------------|---|--|
| 🖼 Auto | GUIDE | Soften backgrounds | Adjust aperture. | |
| 🚇 No flash | GUIDE | Bring more into focus | Aujust aperture. | |
| Distant subjects | | Freeze motion (people) | Calaata ahaattaa | |
| Close-ups | GUIDE | Freeze motion (vehicles) | Select a shutter speed. | |
| Sleeping faces | | Show water flowing | speed. | |
| Moving subjects | | | Adjust white balance | |
| Landscapes | | Capture reds in sunsets * | to vividly capture the | |
| Portraits | | | colors in sunsets. | |
| Night portrait | B | Take bright photos * | Adjust exposure compensation to take bright (high key) or dark (low key) photos. | |
| Photograph night landscapes | | Take dark (low key) photos* | | |
| | | 1 | | |

* Affects other **Advanced operation** items. To restore default settings, turn the camera off and then on again.

"Start Shooting"

| Auto | | | |
|------------|----------|---------|------|
| Use the v | ewfinder | | |
| Use live v | ew | | |
| Shoot mo | vies | | |
| More set | ings | | |
| | Back | OK Next | 1.8] |

"More Settings"

| AL | uto | | (1111) |
|---------|--------------|---------|--------|
| Use the | e viewfinder | | |
| Use liv | e view | | |
| Shoot | movies | | |
| More s | ettings | | Þ |
| ? | Back | OK Next | 1.8 |

Highlight an option and press ®.

- Use the viewfinder
- Use live view
- Shoot movies

If **More settings** is displayed, you can highlight this option and press (b) to access the following settings (the settings available vary with the shooting option selected):

- Flash settings > Flash mode
- Flash settings > Flash compensation
- Release mode
- ISO sensitivity settings > ISO sensitivity
- ISO sensitivity settings > Auto ISO sensitivity control
- Set Picture Control
- Exposure compensation
- White balance

II View/Delete

| View single photos | View a slide show | |
|----------------------|-------------------|--|
| View multiple photos | Delete photos | |
| Choose a date | | |

🖉 Guide Mode

Guide mode is reset to **Easy operation > Auto** when the mode dial is rotated to another setting or the camera is turned off.

Retouch

| Trim | Photo illustration | |
|-------------------------------|--------------------------|--|
| Filter effects (cross screen) | Miniature effect | |
| Filter effects (soft) | Selective color | |
| 💵 Set Up | | |
| Image quality | Playback display options | |
| Image size | Clock and language | |
| Auto off timers | Format memory card | |
| Date stamp | HDMI | |
| Display and sound settings | Airplane mode | |
| Monitor brightness | Smart device connection | |
| Info background color | Eye-Fi upload * | |
| Auto info display | Slot empty release lock | |
| Веер | | |
| Movie settings | | |
| Frame size/frame rate | | |
| Movie quality | | |
| Microphone | | |
| Wind noise reduction | | |
| Flicker reduction | | |
| | | |

* Only available when compatible Eye-Fi memory card is inserted.

With the exceptions of **Flicker reduction**, **Clock and language**, **Format memory card**, **HDMI**, **Airplane mode**, **Smart device connection**, **Eye-Fi upload**, and **Slot empty release lock**, changes to settings apply in guide mode only and are not reflected in other shooting modes.

Using the Guide

The following operations can be performed while the guide is displayed:

| To Use | | Description | | |
|-----------------------------------|-------------|---|--|--|
| Return to top level of guide | | Press MENU to turn the monitor on or return to the top level of the guide. | | |
| Turn monitor on | MENU button | | | |
| Highlight a menu | | Press ⊕, ⊕, ⊕, or ⊕ to highlight a menu. | | |
| | | Press \textcircled{O} or \textcircled{O} to highlight options in the menus. | | |
| | | Press (), (), (), or () to highlight options in displays like that shown below. | | |
| Highlight options | | Release mode Single frame You press the shutter button. | | |
| Select highlighted menu or option | | Press 🛞 to select the highlighted menu or option. | | |

| То | Use | Description |
|-------------------------------|---------------|---|
| Return to previous display | | Press 🕄 to return to the previous display. |
| | | To cancel and return to the previous display from displays like that shown below, highlight 🗢 and press 🛞. Release mode Exit without changing settings. Sills 22 8 5 Sills 23 8 Sills 22 8 5 Sills 22 |
| View help | R≊ (?) button | If a ② icon is displayed at the bottom left corner of the monitor, help can be displayed by pressing the (?) button. Press ③ or ④ to scroll through the display, or press (?) again to exit. |

Matching Settings to the Subject or Situation (Scene Mode)

The camera offers a choice of "scene" modes. Choosing a scene mode automatically optimizes settings to suit the selected scene, making creative photography as simple as selecting a mode, framing a picture, and shooting as described on page 27.

The following scenes can be selected with the mode dial:



| 💈 Portrait | 💐 Sports |
|------------|----------------|
| Landscape | Close up |
| 🔮 Child | Night Portrait |

💈 Portrait

Use for portraits with soft, natural-looking skin tones. If the subject is far from the background or a telephoto lens is used, background details will be softened to lend the composition a sense of depth.

🛋 Landscape

Use for vivid landscape shots in daylight.

Note: The built-in flash and AF-assist illuminator turn off.

🔄 Child

Use for snapshots of children. Clothing and background details are vividly rendered, while skin tones remain soft and natural.

r Sports

Fast shutter speeds freeze motion for dynamic sports shots in which the main subject stands out clearly.

Note: The built-in flash and AF-assist illuminator turn off.

🕏 Close up

Use for close-up shots of flowers, insects, and other small objects (a macro lens can be used to focus at very close ranges).

🖾 Night Portrait

Use for a natural balance between the main subject and the background in portraits taken under low light.

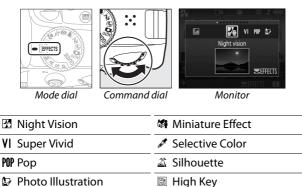
Preventing Blur

Use a tripod to prevent blur caused by camera shake at slow shutter speeds.

Special Effects

Special effects can be used when taking photographs and shooting movies.

The following effects can be selected by rotating the mode dial to EFFECTS and rotating the command dial until the desired option appears in the monitor.



🞗 Toy Camera Effect

🛯 Night Vision

Use under conditions of darkness to record monochrome images at high ISO sensitivities.

Note: Autofocus is available in live view only; manual focus can be used if the camera is unable to focus. The built-in flash and AF-assist illuminator turn off.

Low Key

∀| Super Vivid

Overall saturation and contrast are increased for a more vibrant image.

POP Pop

Overall saturation is increased for a more lively image.

Photo Illustration

Sharpen outlines and simplify coloring for a poster effect that can be adjusted in live view (\Box 56).

Note: Movies shot in this mode play back like a slide show made up of a series of stills.

😣 Toy Camera Effect

Create photos and movies that appear to have been shot with a toy camera. The effect can be adjusted in live view (\Box 57).

🖏 Miniature Effect

Create photos that appear to be pictures of dioramas. Works best when shooting from a high vantage point. Miniature effect movies play back at high speed, compressing about 45 minutes of footage shot at $1920 \times 1080/30p$ into a movie that plays back in about three minutes. The effect can be adjusted in live view (\square 58).

Note: Sound is not recorded with movies. The built-in flash and AF-assist illuminator turn off.

🖋 Selective Color

All colors other than the selected colors are recorded in black and white. The effect can be adjusted in live view (\square 60).

Note: The built-in flash turns off.

🛋 Silhouette

Silhouette subjects against bright backgrounds.

Note: The built-in flash turns off.

🖽 High Key

Use with bright scenes to create bright images that seem filled with light.

Note: The built-in flash turns off.

🜆 Low Key

Use with dark scenes to create dark, low-key images with prominent highlights.

Note: The built-in flash turns off.

Preventing Blur

Use a tripod to prevent blur caused by camera shake at slow shutter speeds.

MEF (RAW)

NEF (RAW) recording is not available in 🗹, VI, MP, D, A, M, and A modes. Pictures taken when an NEF (RAW) or NEF (RAW) + JPEG fine option is selected in these modes will be recorded as JPEG images. JPEG images created at these settings will be recorded as fine-quality images.

🖉 🔛 and 🕼 Modes

Autofocus is not available during movie recording. The live view refresh rate will drop, together with the frame rate for continuous release mode; using autofocus during live view photography will disrupt the preview.

Options Available in Live View

Settings for the selected effect are adjusted in the live view display.

💵 🔛 Photo Illustration

1 Select live view.

Press the D button. The view through the lens will be displayed in the monitor.



le button

2 Adjust outline thickness. Press [®] to display the options shown at right. Press [●] or [®] to make outlines thicker or thinner.

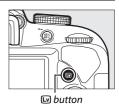


3 Press [™].

Press B to exit when settings are complete. To exit live view, press the B button.

1 Select live view.

Press the 🖾 button. The view through the lens will be displayed in the monitor.



2 Adjust options.

Press (to display the options shown at right. Press (or (to highlight **Vividness** or **Vignetting** and press (or (to change. Adjust vividness to make colors more or less saturated, vignetting to control the amount of vignetting.



3 Press [™].

Press 🛞 to exit when settings are complete. To exit live view, press the 🖃 button.

1 Select live view.

Press the D button. The view through the lens will be displayed in the monitor.



■ button

2 Position the focus point.

Use the multi selector to position the focus point in the area that will be in focus and then press the shutterrelease button halfway to focus. To temporarily clear miniature effect options from the display and enlarge



the view in the monitor for precise focus, press \mathfrak{P} . Press \mathfrak{P} (?) to restore the miniature effect display.

3 Display options.

Press ® to display miniature effect options.



4 Adjust options.

Press O or O to choose the orientation of the area that will be in focus and press O or O to adjust its width.



5 Press .

Press B to exit when settings are complete. To exit live view, press the \boxdot button.

💵 🖋 Selective Color

1 Select live view.

Press the 🖾 button. The view through the lens will be displayed in the monitor.



🖾 button

2 Display options.

Press
(w) to display selective color options.



3 Select a color.

Frame an object in the white square in the center of the display and press to choose the color of the object as one that will remain in the final image (the camera may have difficulty detecting unsaturated colors; choose a saturated color). To zoom in on the

Selected color



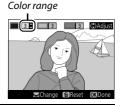
center of the display for more precise color selection, press \mathfrak{P} . Press \mathfrak{P} (?) to zoom out.

4 Choose the color range.

Press O or O to increase or decrease the range of similar hues that will be included in the final image. Choose from values between 1 and 7; note that higher values may include hues from other colors.

5 Select additional colors.

To select additional colors, rotate the command dial to highlight another of the three color boxes at the top of the display and repeat Steps 3 and 4 to select another color. Repeat for a third color if desired. To deselect the





highlighted color, press 面 (To remove all colors, press and hold 面. A confirmation dialog will be displayed; select **Yes**).

6 Press ®.

Press M to exit when settings are complete. During shooting, only objects of the selected hues will be recorded in color; all others will be recorded in black-and-white. To exit live view, press the M button.

P, S, A, and M Modes

P, **S**, **A**, and **M** modes can be selected by rotating the mode dial and offer different degrees of control over shutter speed and aperture:



| | Mode | Description | | |
|---|---|--|--|--|
| Р | Programmed auto (^[]] 63) | Recommended for snapshots and in other situations in which there is little time to adjust camera settings. Camera sets shutter speed and aperture for optimal exposure. | | |
| S | Shutter-priority auto (印 63) | Use to freeze or blur motion. User chooses shutter speed; camera selects aperture for best results. | | |
| A | Aperture-priority auto (🖽 64) | Use to blur background or bring both foreground and background into focus. User chooses aperture; camera selects shutter speed for best results. | | |
| М | Manual (🕮 65) | User controls both shutter speed and aperture. Set shutter speed to "Bulb" or "Time" for long time-exposures. | | |

🖉 Using the Built-in Flash

For flash photography, press the 🗲 (🗺) button to raise the flash.

Mode P (Programmed Auto)

This mode is recommended for snapshots or whenever you want to leave the camera in charge of shutter speed and aperture. The camera automatically adjusts shutter speed and aperture for optimal exposure in most situations.

Mode S (Shutter-Priority Auto)

In shutter-priority auto, you choose the shutter speed while the camera automatically selects the aperture that will produce the optimal exposure. Rotate the command dial to choose the desired shutter speed: rotate right for faster speeds, left for slower speeds.



Command dial



Mode A (Aperture-Priority Auto)

In aperture-priority auto, you choose the aperture while the camera automatically selects the shutter speed that will produce the optimal exposure. Rotate the command dial left for larger apertures (lower f-numbers), right for smaller apertures (higher f-numbers).



Command dial



Mode M (Manual)

In manual mode, you control both shutter speed and aperture. Checking the exposure indicator (CD 66), adjust shutter speed and aperture. Shutter speed is selected by rotating the command dial (right for faster speeds, left for slower). To adjust aperture, keep the $\mathbf{Z}(\mathbf{O})$ button pressed while rotating the command dial (left for larger apertures/lower f-numbers and right for smaller apertures/higher f-numbers).

Shutter speed



Command dial



Aperture



🔁 (🕲) button

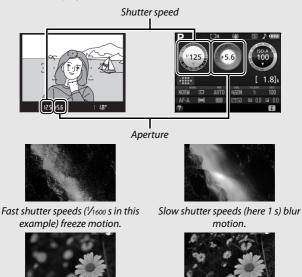


Command dial



Shutter Speed and Aperture

Shutter speed and aperture are shown in the viewfinder and information display.



Large apertures (such as f/5.6; remember, the lower the f-number, the larger the aperture) blur details in front of and behind the main subject.

The Exposure Indicator

| Optimal exposure | Underexposed by 1/3 EV | Overexposed by over 2 EV | | |
|------------------|-------------------------------|--------------------------|--|--|
| º.: | <mark>0</mark> . . | - 0 + · · Inini⊾ | | |

Small apertures (f/22 in this case)

bring both background and

foreground into focus.

Exposure Compensation

In **P**, **S**, **A**, scene, and **M** modes, exposure compensation is used to alter exposure from the value suggested by the camera, making pictures brighter or darker (\square 96). In general, positive values make the subject brighter while negative values make it darker.



-1 EV

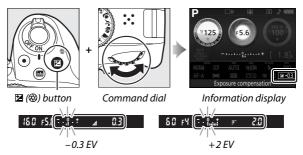


No exposure compensation



+1 EV

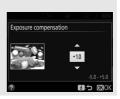
To choose a value for exposure compensation, keep the \boxtimes (O) button pressed and rotate the command dial until the desired value is selected in the viewfinder or information display.



Normal exposure can be restored by setting exposure compensation to ±0. In **P**, **S**, **A**, and **M** modes, exposure compensation is not reset when the camera is turned off. In scene and 🖾 modes, exposure compensation will be reset when another mode is selected or the camera is turned off.

The Information Display

Exposure compensation options can also be accessed from the information display (\square 9).

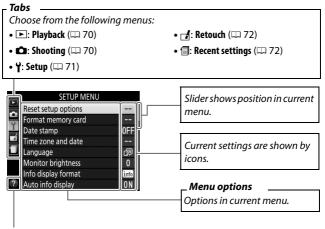


Camera Menus

Most shooting, playback, and setup options can be accessed from the camera menus. To view the menus, press the MENU button.



MENU button



Help icon (🕮 73)

Menu Options

II > Playback Menu: Managing Images

| Delete | Rotate tall |
|--------------------------|--------------------------------|
| Playback folder | Slide show |
| Playback display options | Rating |
| Image review | Select to send to smart device |
| Auto image rotation | |

II 🗅 Shooting Menu: Shooting Options

| Reset shooting menu | Auto distortion control |
|--------------------------|---------------------------------|
| Image quality | Focus mode |
| lmage size | AF-area mode |
| ISO sensitivity settings | Built-in AF-assist illuminator |
| White balance | Metering |
| Set Picture Control | Flash cntrl for built-in flash/ |
| Color space | Optional flash |
| Active D-Lighting | Optical VR* |
| Noise reduction | Movie settings |
| Vignette control | |
| | |

* Available only with lenses that support this item.

■ Y Setup Menu: Camera Setup

| Reset setup options | Buttons |
|--|---|
| Format memory card | Rangefinder |
| Date stamp | Manual focus ring in AF mode ³ |
| Time zone and date ¹ | File number sequence |
| Language ¹ | Storage folder |
| Monitor brightness | File naming |
| Info display format | НДМІ |
| Auto info display | Location data |
| Auto off timers | Airplane mode |
| Self-timer | Connect to smart device |
| Remote on duration (ML-L3) | Send to smart device (auto) |
| Lock mirror up for cleaning ² | Bluetooth |
| Image Dust Off ref photo | Eye-Fi upload ⁴ |
| Image comment | Conformity marking |
| Copyright information | Slot empty release lock |
| Beep | Reset all settings |
| Flicker reduction | Firmware version |
| | |

1 Default varies with country of purchase.

2 Not available when battery is low.

3 Available only with lenses that support this item.

4 Only available when compatible Eye-Fi memory card is inserted.

💵 🛃 Retouch Menu: Creating Retouched Copies

| NEF (RAW) processing | Monochrome |
|----------------------|---------------------------|
| Trim | Image overlay |
| Resize | Color outline |
| D-Lighting | Photo illustration |
| Quick retouch | Color sketch |
| Red-eye correction | Miniature effect |
| Straighten | Selective color |
| Distortion control | Painting |
| Perspective control | Edit movie |
| Fisheye | Side-by-side comparison * |
| Filter effects | |

* Available only if retouch menu is displayed by pressing *i* and selecting **Retouch** when a retouched image or original is displayed in full-frame playback.

II 🗐 Recent Settings

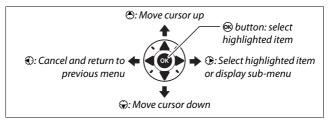
The recent settings menu lists the twenty most recently used settings.

For More Information

Information on individual menu options is available using the camera's on-board help (\square 73).

Using Camera Menus

The multi selector and B button are used to navigate the camera menus.



Follow the steps below to navigate the menus.

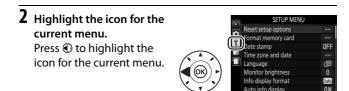
1 Display the menus. Press the MENU button to display the menus.

MENU button

🖉 The 🕑 (Help) Icon

If a O icon is displayed at the bottom left corner of the monitor, a description of the currently selected option or menu can be displayed by pressing the O (?) button. Press O or O to scroll through the display. Press O (?) again to return to the menus.





3 Select a menu.

Press 🕙 or 🕞 to select the desired menu.



4 Position the cursor in the selected menu.

Press () to position the cursor in the selected menu.

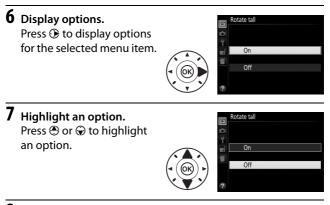


| | PLAYBACK MENU | |
|---|--------------------------|-----|
| | Delete | 卣 |
| | Playback folder | ALL |
| 1 | Playback display options | |
| | Image review | ON |
| | Auto image rotation | ON |
| | Rotate tall | ON |
| | Slide show | |
| 9 | Rating | * |

5 Highlight a menu item. Press ⊕ or ⊕ to highlight a menu item.



| 5 | PLAYBACK MENU | |
|----|--------------------------|-----|
| 1 | Delete | 태 |
| 2 | Playback folder | ALL |
| 7 | Playback display options | |
| 4 | Image review | ON |
| J | Auto image rotation | ON |
| | Rotate tall | ON |
| | Slide show | |
| ?) | Rating | * |
| | | |



8 Select the highlighted item. Press ⊛ to select the highlighted item. To exit without making a selection, press the MENU button.



Note the following:

- Menu items that are displayed in gray are not currently available.
- While pressing () generally has the same effect as pressing (), there are some cases in which selection can only be made by pressing ().
- To exit the menus and return to shooting mode, press the shutter-release button halfway (CL 31).

ViewNX-i

Installing ViewNX-i

To fine-tune photos and upload and view pictures, download the latest version of the ViewNX-i installer from the following website and follow the on-screen instructions to complete installation. An Internet connection is required. For system requirements and other information, see the Nikon website for your region.

http://downloadcenter.nikonimglib.com/

Capture NX-D

Use Nikon's Capture NX-D software to fine-tune photos or to change settings for NEF (RAW) pictures and save them in other formats. Capture NX-D is available for download from: http://downloadcenter.nikonimglib.com/

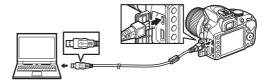
Using ViewNX-i

Copying Pictures to the Computer

Before proceeding, be sure you have installed ViewNX-i (^{[[]]} 76).

1 Connect the USB cable.

After turning the camera off and ensuring that a memory card is inserted, connect a USB cable (available separately) as shown and then turn the camera on.



USB Hubs

Connect the camera directly to the computer; do not connect the cable via a USB hub or keyboard.

Use a Reliable Power Source

To ensure that data transfer is not interrupted, be sure the camera battery is fully charged.

Connecting Cables

Be sure the camera is off when connecting or disconnecting interface cables. Do not use force or attempt to insert the connectors at an angle.

2 Start Nikon Transfer 2 component of ViewNX-i.

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

During Transfer

Do not turn the camera off or disconnect the USB cable while transfer is in progress.

Windows 7

If the following dialog is displayed, select Nikon Transfer 2 as described below.

- 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 🕵.

Windows 10 and Windows 8.1

Windows 10 and Windows 8.1 may display an AutoPlay prompt when the camera is connected. Tap or click the dialog and then tap or click **Nikon Transfer 2** to select Nikon Transfer 2.



🖉 0S X

If Nikon Transfer 2 does not start automatically, confirm that the camera is connected and then launch Image Capture (an application that comes with OS X) and select Nikon Transfer 2 as the application that opens when the camera is detected.

3 Click Start Transfer.

Pictures on the memory card will be copied to the computer.



Start Transfer

4 Terminate the connection.

When transfer is complete, turn the camera off and disconnect the USB cable.

For More Information Consult online help for more information on using ViewNX-i.

Technical Notes

Read this chapter for information on compatible accessories, cleaning and storing the camera, and what to do if an error message is displayed or you encounter problems using the camera.

Compatible Lenses

This camera supports autofocus with AF-P and type E and G AF-S lenses only. AF-S lenses have names beginning with **AF-S** and AF-P lenses with **AF-P**; for information on determining lens type (D, E, G, or CPU), see page 81. Autofocus is not supported with other autofocus (AF) lenses. The following table lists the features available with compatible lenses in viewfinder photography:

| Camera setting | Focus mode | | Shooting mode | | Metering system | | |
|---|------------|--|------------------|-----------------------|--------------------|---|-----------------------|
| Lens ¹ | AF | MF (with electronic rangefinder) | MF | м | Other modes | ۲ | 0 |
| E type lens | ~ | ~ | ~ | ~ | ~ | ~ | √ ² |
| Type G AF-S/AF-P NIKKOR | ~ | v | ~ | ~ | ~ | ~ | √ ² |
| Type G AF NIKKOR | — | v | ~ | ~ | ~ | ~ | √ ² |
| D type lens | — | ~ | ~ | √ ³ | — | — | — |
| PC-E NIKKOR series 4,5 | — | √ ⁶ | ~ | ~ | ~ | ~ | √ ² |
| PC Micro 85mm f/2.8D ⁷ | — | ✓ ⁶ | ~ | √ ³ | — | ~ | √ ² |
| Other AF NIKKOR (except lenses for F3AF) | _ | ✔8 | ~ | V ³ | - | _ | _ |
| AI-P NIKKOR | — | √ ⁹ | ~ | √ ³ | - | — | — |

1 Assumes a combined aperture of f/5.6 or faster when AF-S teleconverter is attached.

2 Spot metering meters selected focus point.

- 3 Exposure indicator disabled.
- 4 The shift knob for the PC-E NIKKOR 24mm f/3.5D ED may contact the camera body when the lens is revolved.
- 5 Shifting and/or tilting the lens interferes with exposure.

- 6 Can not be used with shifting or tilting.
- 7 Optimal exposure will only be achieved if the lens is at maximum aperture and the lens is not shifted or tilted.
- 8 When AF 80-200mm f/2.8, AF 35-70mm f/2.8, AF 28-85mm f/3.5-4.5 (New), or AF 28–85mm f/3.5–4.5 lenses are zoomed all the way in at the minimum focus distance, the in-focus indicator (•) may be displayed when the image on the matte screen in the viewfinder is not in focus. Before shooting, confirm that the image in the viewfinder screen is in focus.
- 9 With maximum aperture of f/5.6 or faster.

IX NIKKOR Lenses

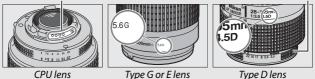
IX NIKKOR lenses can not be used. Attempting to attach an IX NIKKOR lens could damage the lens or camera.

Identifying CPU and Type G, E, and D Lenses

CPU lenses can be identified by the presence of CPU contacts, type G, E, and D lenses by a letter on the lens barrel. Type G and E lenses are not equipped with a lens aperture ring.

CPU contacts





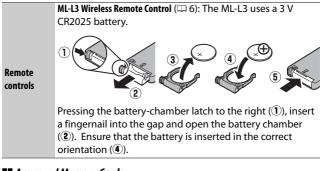
Type D lens

Other Accessories

At the time of writing, the following accessories were available for the D3400.

| Power sources | EN-EL14a Rechargeable Li-ion Battery (□ 10): Additional EN-EL14a batteries are available from local retailers and Nikon-authorized service representatives. EN-EL14 batteries can also be used. MH-24 Battery Charger (□ 10): Recharge EN-EL14a and EN-EL14 batteries. EP-5A Power Connector, EH-5b AC Adapter: These accessories can be used to power the camera for extended periods (EH-5a and EH-5 AC adapters can also be used). A power connector EP-5A is required to connect the camera to the EH-5b, EH-5a, or EH-5. |
|------------------|---|
| Filters | Filters intended for special-effects photography may interfere with autofocus or the electronic rangefinder. The D3400 can not be used with linear polarizing filters. Use C-PL or C-PL II circular polarizing filters instead. NC filters are recommended for protecting the lens. To prevent ghosting, use of a filter is not recommended when the subject is framed against a bright light, or when a bright light source is in the frame. Center-weighted metering is recommended with filters with exposure factors (filter factors) over 1 × (Y44, Y48, Y52, O56, R60, X0, X1, C-PL, ND2S, ND4, ND4S, ND8, ND400, A2, A12, B2, B8, B12). See the filter manual for details. |

| DK-5 Eyepiece Cap: Prevents light entering via the viewfinder from appearing in the photograph or interfering with exposure. DK-20C Eyepiece Correction Lenses: Lenses are available with diopters of -5, -4, -3, -2, 0, +0.5, +1, +2, and +3 m⁻¹ when the camera diopter adjustment control is in the neutral position (-1 m⁻¹). Use eyepiece correction lenses only if the desired focus can not be achieved with the built in diopter adjustment control (-1.7 to +0.5 m⁻¹). Test eyepiece correction lenses before purchase to ensure that the desired focus can be achieved. The rubber eyecup can not be used with eyepiece correction lenses. DG-2 Magnifier: The DG-2 magnifies the scene displayed in the center of the viewfinder for greater precision during focusing. Eyepiece adapter required (available separately). DK-22 Eyepiece Adapter: The DK-22 is used when attaching the DG-2 magnifier. DR-6 Right-Angle Viewing Attachment: The DR-6 attaches at a right angle to the viewfinder eyepiece, allowing the image in the viewfinder to be viewed at right angles to the lens (for example, from directly above when the camera is horizontal). BF-18 Body Cap/BF-1A Body Cap: The body cap keeps the mirror, viewfinder screen, and image sensor free of dust when a lens is not in place. Accessory shoe: The accessory shoe is used for optional flash units. USB cables UC-E20 USB Cable (CD 77) HDMI cables | | |
|--|-------------|--|
| Body cap viewfinder screen, and image sensor free of dust when a lens is not in place. Accessory BS-1 Accessory Shoe Cover: A cover protecting the accessory shoe. The accessory shoe is used for optional flash units. USB cables UC-E20 USB Cable (□ 77) HDMI cables HC-E1 HDMI Cable: An HDMI cable with a type C connector for connection to the camera and a type A connector for | eyepiece | from appearing in the photograph or interfering with exposure. DK-20C Eyepiece Correction Lenses: Lenses are available with diopters of -5, -4, -3, -2, 0, +0.5, +1, +2, and +3 m⁻¹ when the camera diopter adjustment control is in the neutral position (-1 m⁻¹). Use eyepiece correction lenses only if the desired focus can not be achieved with the built in diopter adjustment control (-1.7 to +0.5 m⁻¹). Test eyepiece correction lenses before purchase to ensure that the desired focus can be achieved. The rubber eyecup can not be used with eyepiece correction lenses. DG-2 Magnifier: The DG-2 magnifies the scene displayed in the center of the viewfinder for greater precision during focusing. Eyepiece adapter required (available separately). DK-22 Eyepiece Adapter: The DK-22 is used when attaching the DG-2 magnifier. DR-6 Right-Angle Viewing Attachment: The DR-6 attaches at a right angle to the viewfinder to be viewed at right angles to the lens (for example, from directly above when the |
| shoe covers shoe. The accessory shoe is used for optional flash units. USB cables UC-E20 USB Cable (□ 77) HC-E1 HDMI Cable: An HDMI cable with a type C connector for connection to the camera and a type A connector for | Body cap | viewfinder screen, and image sensor free of dust when a |
| USB cables UC-E20 USB Cable (□ 77) HC-E1 HDMI Cable: An HDMI cable with a type C connector for connection to the camera and a type A connector for | Accessory | BS-1 Accessory Shoe Cover: A cover protecting the accessory |
| HC-E1 HDMI Cable: An HDMI cable with a type C connector for connection to the camera and a type A connector for | shoe covers | shoe. The accessory shoe is used for optional flash units. |
| HDMI cables connection to the camera and a type A connector for | USB cables | UC-E20 USB Cable (🕮 77) |
| | HDMI cables | connection to the camera and a type A connector for |



Approved Memory Cards

The camera supports SD, SDHC, and SDXC memory cards, including SDHC and SDXC cards compliant with UHS-I. Cards rated SD Speed Class 6 or better are recommended for movie recording; using slower cards may result in recording being interrupted. When choosing cards for use in card readers, be sure they are compatible with the device. Contact the manufacturer for information on features, operation, and limitations on use.

Optional Accessories

Availability may vary with country or region. See our website or brochures for the latest information.

Caring for the Camera

Storage

When the camera will not be used for an extended period, remove the battery and store it in a cool, dry area with the terminal cover in place. To prevent mold or mildew, store the camera in a dry, well-ventilated area. Do not store your camera with naphtha or camphor moth balls or in locations that:

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

Cleaning

| Camera body | Use a blower to remove dust and lint, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off sand or salt with a cloth lightly dampened in distilled water and dry thoroughly. Important : <i>Dust or</i> <i>other foreign matter inside the camera may cause damage</i> <i>not covered under warranty.</i> |
|------------------------------------|--|
| Lens, mirror, and viewfinder | These glass elements are easily damaged. Remove dust and lint with a blower. If using an aerosol blower, keep the can vertical to prevent the discharge of liquid. To remove fingerprints and other stains, apply a small amount of lens cleaner to a soft cloth and clean with care. |
| Monitor | Remove dust and lint with a blower. When removing fingerprints and other stains, wipe the surface lightly with a soft cloth or chamois leather. Do not apply pressure, as this could result in damage or malfunction. |

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

Caring for the Camera and Battery: Cautions

Do not drop: The product may malfunction if subjected to strong shocks or vibration.

Keep dry: This product is not waterproof, and may malfunction if immersed in water or exposed to high levels of humidity. Rusting of the internal mechanism can cause irreparable damage.

Avoid sudden changes in temperature: Sudden changes in temperature, such as those that occur when entering or leaving a heated building on a cold day, can cause condensation inside the device. To prevent condensation, place the device in a carrying case or 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. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry.

Do not leave the lens pointed at the sun: Do not leave the lens pointed at the sun or other strong light source for an extended period. 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: Do not unplug the product or remove the battery while the product is on or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry. To prevent an accidental interruption of power, avoid carrying the product from one location to another while the AC adapter is connected. **Cleaning**: When cleaning the camera body, use a blower to gently remove dust and lint, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt using a cloth lightly dampened in pure water and then dry the camera thoroughly.

The lens and mirror are easily damaged. Dust and lint should be gently removed with a blower. When using an aerosol blower, keep the can vertical to prevent discharge of liquid. To remove fingerprints and other stains from the lens, apply a small amount of lens cleaner to a soft cloth and wipe the lens carefully.

See the Reference Manual for information on cleaning the image sensor.

Do not touch the shutter curtain: The shutter curtain is extremely thin and easily damaged. Under no circumstances should you exert pressure on the curtain, poke it with cleaning tools, or subject it to powerful air currents from a blower. These actions could scratch, deform, or tear the curtain.

Storage: To prevent mold or mildew, store the camera in a dry, wellventilated area. If you are using an AC adapter, unplug the adapter to prevent fire. If the product will not be used for an extended period, remove the battery to prevent leakage and store the camera in a plastic bag containing a desiccant. Do not, however, store the camera case in a plastic bag, as this may cause the material to deteriorate. Note that desiccant gradually loses its capacity to absorb moisture and should be replaced at regular intervals.

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 it away.

Store the battery in a cool, dry place. Replace the terminal cover before putting the battery away.

Notes on the monitor: The monitor is 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 in a bright light.

Do not apply pressure to the monitor, as this could cause damage or malfunction. Dust or lint on the monitor can be removed with a blower. Stains can be removed by wiping lightly with a soft cloth or chamois leather. Should the monitor break, care should be taken to avoid injury from broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes and mouth.

Moiré: Moiré is an interference pattern created by the interaction of an image containing a regular, repeating grid, such as the pattern of weave in cloth or windows in a building, with the camera image sensor grid. If you notice moiré in your photographs, try changing the distance to the subject, zooming in and out, or changing the angle between the subject and the camera.

Servicing the Camera and Accessories

The camera is a precision device and requires regular servicing. Nikon recommends that the camera be inspected by the original retailer or Nikon-authorized service representative once every one to two years, and that it be serviced once every three to five years (note that fees apply to these services). Frequent inspection and servicing are particularly recommended if the camera is used professionally. Any accessories regularly used with the camera, such as lenses or optional flash units, should be included when the camera is inspected or serviced.

The battery and charger: Batteries may leak or explode if improperly handled. Read and follow the warnings and cautions on pages xi–xiv of this manual. Observe the following precautions when handling batteries and chargers:

- Use only batteries approved for use in this equipment.
- Do not expose the battery to flame or excessive heat.
- Keep the battery terminals clean.
- Turn the product off before replacing the battery.
- Remove the battery from the camera or charger when not in use and replace the terminal cover. These devices draw minute amounts of charge even when off and could draw the battery down to the point that it will no longer function. If the battery will not be used for some time, insert it in the camera and run it flat before removing it and storing it in a location with an ambient temperature of 15 °C to 25 °C (59 °F to 77 °F; avoid hot or extremely cold locations). Repeat this process at least once every six months.
- Turning the camera on and off repeatedly when the battery is fully discharged will shorten battery life. Batteries that have been fully discharged must be charged before use.
- The internal temperature of the battery may rise while the battery is in use. Attempting to charge the battery while the internal temperature is elevated will impair battery performance, and the battery may not charge or charge only partially. Wait for the battery to cool before charging.
- Continuing to charge the battery after it is fully charged can impair battery performance.
- A marked drop in the time a fully charged battery retains its charge when used at room temperature indicates that it requires replacement. Purchase a new EN-EL14a battery.
- Charge the battery before use. When taking photographs on important occasions, ready a spare battery and keep it fully charged. Depending on your location, it may be difficult to purchase replacement batteries on short notice. Note that on cold days, the capacity of batteries tends to decrease. Be sure the battery is fully charged before taking photographs outside in cold weather. Keep a spare battery in a warm place and exchange the two as necessary. Once warmed, a cold battery may recover some of its charge.
- Used batteries are a valuable resource; recycle in accord with local regulations.

Error Messages

This section lists the indicators and error messages that appear in the viewfinder and monitor.

Warning Icons

A flashing @ in the monitor or @ in the viewfinder indicates that a warning or error message can be displayed in the monitor by pressing the @ (?) button.

| Indicator | | |
|--|---|--|
| Monitor | Viewfinder | Solution |
| Lens not attached | F/? | Attach compatible lens. |
| | (flashes) | • If lens is not type E or G, select mode M. |
| Before taking photos, rotate the zoom ring to extend the lens. | F (flashes) | A lens with a retractable lens barrel button is attached with the lens barrel retracted. Press the retractable lens barrel button and rotate the zoom ring to extend the lens. |
| Shutter release disabled. Recharge battery. | œ∎/? (flashes) | Turn camera off and recharge or replace battery. |
| This battery cannot be used. It does not communicate properly with this camera. To use the camera safely, choose a battery designated for use in this camera. | (flashes) | Use Nikon-approved battery. |
| Initialization error. Turn camera off and then on again. | ← / [E ┌ ┌] (flashes) | Turn camera off, remove and replace battery, and then turn camera on again. |

| Indicator | | |
|---|--------------------------------|---|
| Monitor | Viewfinder | Solution |
| Battery level is low. Complete operation and turn camera off immediately. | _ | End cleaning and turn camera off and recharge or replace battery. |
| Clock not set | ? (flashes) | Set camera clock. |
| No memory card inserted | [- E -]/? (flashes) | Turn camera off and confirm that card is correctly inserted. |
| Memory card is locked. Slide lock to "write" position. | E d (flashes) | Memory card is locked (write protected). Slide card write-protect switch to "write" position. |
| This memory card cannot be used. Card may be damaged. Insert another card. | [d/(Err) (flashes) | Use approved card. Format card. If problem persists, card may be damaged. Contact Nikon- authorized service representative. Error creating new folder. Delete files or insert new memory card. Insert new memory card. |
| This card is not formatted. Format the card. | (F o r) (flashes) | Format card or turn camera off and insert new memory card. |
| Card is full | FuL/0/? (flashes) | Reduce quality or size.Delete photographs.Insert new memory card. |
| _ | (flashes) | Camera can not focus using autofocus. Change composition or focus manually. |

| Indicator | | |
|-----------------------|--|--|
| Monitor | Viewfinder | Solution |
| Subject is too bright | (flashes) | Use a lower ISO sensitivity. Use commercial ND filter. In mode: Increase shutter speed Choose a smaller aperture (higher f-number) Choose another shooting mode |
| Subject is too dark | | Use a higher ISO sensitivity. Use flash. In mode: Lower shutter speed Choose a larger aperture (lower f-number) |
| No "Bulb" in S mode | buit b /? (flashes) Change shutter speed or select mode | Change shutter speed or select mode M . |
| No "Time" in S mode | /? (flashes) | |
| _ | ₽ (flashes) | Flash has fired at full power. Check photo in monitor; if underexposed, adjust settings and try again. |
| _ | ₽/? (flashes) | Use the flash. Change distance to subject, aperture, flash range, or ISO sensitivity. Lens focal length is less than 18 mm: use a longer focal length. |

| Indicator | | |
|--|------------|---|
| Monitor | Viewfinder | Solution |
| Error. Press shutter release button again. | (flashes) | Release shutter. If error persists or appears frequently, consult Nikon- authorized service representative. |
| Start-up error. Contact a Nikon-authorized service representative. Metering error | | Consult Nikon-authorized service representative. |
| Unable to start live view. Please wait for camera to cool. | _ | Wait for the internal circuits to cool before resuming live view or movie recording. |
| Folder contains no images. | _ | Folder selected for playback contains no images. Select folder containing images from Playback folder menu or insert memory card containing images. |
| Cannot display this file. | _ | File can not be played back on camera. |
| Cannot select this file. | _ | Images created with other devices can not be retouched. |
| This movie cannot be edited. | _ | Movies created with other devices can not be edited. Movies must be at least two seconds long. |
| No image for retouching. | _ | Memory card does not contain NEF (RAW) images for use with NEF (RAW) processing . |
| Network access not available until camera cools. | _ | Turn camera off and try again after waiting for camera to cool. |

Specifications

II Nikon D3400 Digital Camera

| Туре | |
|-------------------------|---|
| Туре | Single-lens reflex digital camera |
| Lens mount | Nikon F mount (with AF contacts) |
| Effective angle of view | Nikon DX format; focal length equivalent to |
| | approx. 1.5 \times that of lenses with FX format angle of |
| | view |
| Effective pixels | |
| Effective pixels | 24.2 million |
| Image sensor | |
| Image sensor | 23.5 × 15.6 mm CMOS sensor |
| Total pixels | 24.72 million |
| Dust-reduction System | Image Dust Off reference data (Capture NX-D |
| | software required) |
| Storage | |
| Image size (pixels) | • 6000 × 4000 (Large) |
| | • 4496 × 3000 (Medium) |
| | • 2992 × 2000 (Small) |
| File format | NEF (RAW): 12 bit, compressed |
| | • JPEG: JPEG-Baseline compliant with fine (approx. |
| | 1 : 4), normal (approx. 1 : 8), or basic (approx. |
| | 1 : 16) compression |
| | NEF (RAW)+JPEG: Single photograph recorded in |
| | both NEF (RAW) and JPEG formats |
| Picture Control System | Standard, Neutral, Vivid, Monochrome, Portrait, |
| | Landscape, Flat; selected Picture Control can be |
| | modified |
| Media | SD (Secure Digital) and UHS-I compliant SDHC |
| | and SDXC memory cards |
| File system | DCF 2.0, Exif 2.3, PictBridge |

| Viewfinder | |
|--------------------|---|
| Viewfinder | Eye-level pentamirror single-lens reflex |
| | viewfinder |
| Frame coverage | Approx. 95% horizontal and 95% vertical |
| Magnification | Approx. 0.85 \times (50 mm f/1.4 lens at infinity, |
| | –1.0 m ⁻¹) |
| Eyepoint | 18 mm (–1.0 m ⁻¹ ; from center surface of |
| | viewfinder eyepiece lens) |
| Diopter adjustment | -1.7-+0.5 m ⁻¹ |
| Focusing screen | Type B BriteView Clear Matte Mark VII screen |
| Reflex mirror | Quick return |
| Lens aperture | Instant return, electronically controlled |
| Lens | |
| Autofocus support | Autofocus is available with AF-P and type E and G AF-S lenses. |
| | AF-S lenses. |
| Shutter | |
| Туре | Electronically-controlled vertical-travel focal- |
| | plane shutter |
| Speed | 1/4000 – 30 s in steps of 1/3 EV; Bulb; Time |
| Flash sync speed | $X = \frac{1}{200}$ s; synchronizes with shutter at $\frac{1}{200}$ s or slower |
| Release | |
| Release mode | ⑤ (single frame), 및 (continuous), 區 (quiet |
| | shutter release), 🖄 (self-timer), 🖥 2s (delayed |
| | remote; ML-L3), 🕯 (quick-response remote; ML-L3) |
| Frame advance rate | Up to 5 fps |
| | Note: Frame rates assume manual focus, manual or |
| | shutter-priority auto exposure, a shutter speed of |
| | $\frac{1}{250}$ s or faster, and other settings at default |
| | values. |
| Self-timer | 2 s, 5 s, 10 s, 20 s; 1–9 exposures |

| - | |
|-----------------------|---|
| Exposure | |
| Metering | TTL exposure metering using 420-pixel RGB |
| | sensor |
| Metering method | • Matrix metering: 3D color matrix metering II (type |
| | E and G lenses) |
| | • Center-weighted metering: Weight of 75% given to |
| | 8-mm circle in center of frame |
| | • Spot metering: Meters 3.5-mm circle (about 2.5% |
| | of frame) centered on selected focus point |
| Range (ISO 100, f/1.4 | • Matrix or center-weighted metering: 0–20 EV |
| lens, 20 °C/68 °F) | • Spot metering: 2–20 EV |
| Exposure meter | CPU |
| coupling | |
| Mode | Auto modes (🛍 auto; 🏵 auto, flash off); |
| | programmed auto with flexible program (P); |
| | shutter-priority auto (S); aperture-priority auto (A); |
| | manual (M); scene modes (\mathbf{I} portrait; |
| | ■ landscape; |
| | Inight portrait); special effects modes (22 night |
| | vision; VI super vivid; POP pop; D photo illustration; |
| | toy camera effect; the miniature effect; |
| | |
| | ✓ selective color; ≦ silhouette; III high key; III low |
| F | key) |
| Exposure compensation | Can be adjusted by $-5 - +5$ EV in increments of |
| | ¹ / ₃ EV in P , S , A , M , scene, and ¹ / ₂ modes |
| Exposure lock | Luminosity locked at detected value with $\overset{\text{\tiny det}}{\overset{\text{\tiny det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\tiny det}}{\overset{\text{\tiny det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}}}{\overset{\text{\scriptstyle det}}}{\overset{\text{\scriptstyle det}}}}}}}}}}}}}}}}}}}}}}}}}}$ |
| | button |
| ISO sensitivity | ISO 100 – 25600 in steps of 1 EV. Auto ISO |
| (Recommended | sensitivity control available |
| Exposure Index) | |
| Active D-Lighting | On, off |

| Focus | |
|-----------------|--|
| Autofocus | Nikon Multi-CAM 1000 autofocus sensor module with TTL phase detection, 11 focus points (including one cross-type sensor), and AF-assist illuminator (range approx. 0.5–3 m/1 ft 8 in.–9 ft 10 in.) |
| Detection range | –1 – +19 EV (ISO 100, 20 °C/68 °F) |
| Lens servo | Autofocus (AF): Single-servo AF (AF-S); continuous- servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically according to subject status Manual focus (MF): Electronic rangefinder can be used |
| Focus point | Can be selected from 11 focus points |
| AF-area mode | Single-point AF, dynamic-area AF, auto-area AF, 3D-tracking (11 points) |
| Focus lock | Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing 能 (On) button |
| Flash | |
| Built-in flash | 答, 乏, 乏, 匹, N, P, W, W, 息, 息: Auto flash with auto pop-up P, S, A, M: Manual pop-up with button release |
| Guide Number | Approx. 7/22, 8/26 with manual flash (m/ft, ISO 100, 20 °C/68 °F) |
| Flash control | TTL: i-TTL flash control using 420-pixel RGB sensor is available with built-in flash; i-TTL balanced fill- flash for digital SLR is used with matrix and center- weighted metering, standard i-TTL flash for digital SLR with spot metering |
| Flash mode | Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red- eye reduction, rear-curtain with slow sync, rear- curtain sync, off |

| Flash | |
|---|---|
| Flash compensation | Can be adjusted by $-3 - +1$ EV in increments of |
| | ⅓ EV in P, S, A, M , and scene modes |
| Flash-ready indicator | Lights when built-in flash or optional flash unit is |
| | fully charged; flashes after flash is fired at full |
| | output |
| Accessory shoe | ISO 518 hot-shoe with sync and data contacts and |
| | safety lock |
| | Nikon CLS supported |
| System (CLS) | |
| Sync terminal | AS-15 sync terminal adapter (available separately) |
| White balance | |
| White balance | Auto, incandescent, fluorescent (7 types), direct |
| | sunlight, flash, cloudy, shade, preset manual, all |
| | except preset manual with fine-tuning |
| Live view | |
| Lens servo | Autofocus (AF): Single-servo AF (AF-S); full-time- |
| | servo AF (AF-F) |
| | Manual focus (MF) |
| AF-area mode | Face-priority AF, wide-area AF, normal-area AF, |
| | subject-tracking AF |
| | |
| Autofocus | Contrast-detect AF anywhere in frame (camera |
| Autofocus | selects focus point automatically when face- |
| Autofocus | selects focus point automatically when face- priority AF or subject-tracking AF is selected) |
| Automatic scene | selects focus point automatically when face- |
| | selects focus point automatically when face- priority AF or subject-tracking AF is selected) |
| Automatic scene | selects focus point automatically when face- priority AF or subject-tracking AF is selected) |
| Automatic scene selection Movie Metering | selects focus point automatically when face- priority AF or subject-tracking AF is selected) |
| Automatic scene selection Movie Metering Metering method | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in 📽 and ③ modes TTL exposure metering using main image sensor Matrix |
| Automatic scene selection Movie Metering | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in 🛱 and ③ modes TTL exposure metering using main image sensor |
| Automatic scene selection Movie Metering Metering method | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in 📽 and ③ modes TTL exposure metering using main image sensor Matrix |
| Automatic scene selection Movie Metering Metering method Frame size (pixels) and | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in and modes TTL exposure metering using main image sensor Matrix • 1920 × 1080; 60p (progressive), 50p, 30p, 25p, 24p • 1280 × 720; 60p, 50p |
| Automatic scene selection Movie Metering Metering method Frame size (pixels) and | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in 🖀 and ③ modes TTL exposure metering using main image sensor Matrix • 1920 × 1080; 60p (progressive), 50p, 30p, 25p, 24p |
| Automatic scene selection Movie Metering Metering method Frame size (pixels) and | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in and modes TTL exposure metering using main image sensor Matrix • 1920 × 1080; 60p (progressive), 50p, 30p, 25p, 24p • 1280 × 720; 60p, 50p |
| Automatic scene selection Movie Metering Metering method Frame size (pixels) and | selects focus point automatically when face- priority AF or subject-tracking AF is selected) Available in and modes TTL exposure metering using main image sensor Matrix • 1920 × 1080; 60p (progressive), 50p, 30p, 25p, 24p • 1280 × 720; 60p, 50p Actual frame rates for 60p, 50p, 30p, 25p, and 24p |

| Movie | |
|------------------------|---|
| File format | MOV |
| | |
| Video compression | H.264/MPEG-4 Advanced Video Coding |
| Audio recording format | |
| Audio recording device | Built-in monaural microphone; sensitivity |
| | adjustable |
| ISO sensitivity | ISO 100–25600 |
| Monitor | |
| Monitor | 7.5-cm (3-in.), approx. 921k-dot (VGA) TFT LCD |
| | with 170 ° viewing angle, approx. 100% frame |
| | coverage, and brightness adjustment |
| Playback | |
| Playback | Full-frame and thumbnail (4, 9, or 72 images or |
| | calendar) playback with playback zoom, playback |
| | zoom cropping, playback face zoom, movie |
| | playback, photo and/or movie slide shows, |
| | histogram display, highlights, photo information, |
| | location data display, auto image rotation, picture |
| | rating, and image comment (up to 36 characters) |
| Interface | |
| USB | Hi Speed LISP with Migre LISP connectory |
| USB | Hi-Speed USB with Micro-USB connector; |
| | connection to built-in USB port is recommended |
| HDMI output | Type C HDMI connector |
| Bluetooth | |
| Communication | Bluetooth Specification Version 4.1 |
| protocols | |
| Operating frequency | • Bluetooth: 2402–2480 MHz |
| | Bluetooth Low Energy: 2402–2480 MHz |
| Maximum output | 8.1 dBm (EIRP) |
| power | |
| Range (line of sight) | Approximately 10 m (32 ft) without interference; |
| | range may vary with signal strength and presence |
| | or absence of obstacles |
| | |

| Supported languages | |
|--------------------------------------|---|
| 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 (Portugal and Brazil), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese |
| Power source | |
| Battery | One EN-EL14a rechargeable Li-ion battery |
| AC adapter | EH-5b AC adapter; requires EP-5A power |
| | connector (available separately) |
| Tripod socket | |
| Tripod socket | 1⁄4 in. (ISO 1222) |
| Dimensions/weight | |
| Dimensions ($W \times H \times D$) | Approx. $124 \times 98 \times 75.5$ mm ($4.9 \times 3.9 \times 3$ in.) |
| Weight | Approx. 445 g (15.7 oz) with battery and memory |
| | card but without body cap; approx. 395 g/14 oz |
| | (camera body only) |
| Operating environment | |
| Temperature | 0 °C-40 °C (+32 °F-104 °F) |
| Humidity | 85% or less (no condensation) |

• Unless otherwise stated, all measurements are performed in conformity with Camera and Imaging Products Association (CIPA) standards or guidelines.

• All figures are for a camera with a fully-charged battery.

 The sample images displayed on the camera and the images and illustrations in the manual are for expository purposes only.

 Nikon reserves the right to change the appearance and specifications of the hardware and software described in this manual at any time and without prior notice. Nikon will not be held liable for damages that may result from any mistakes that this manual may contain.

III MH-24 Battery Charger

| IC 100–240 V, 50/60 Hz, 0.2 A maximum IC 8.4 V/0.9 A |
|--|
| |
| |
| likon EN-EL14a rechargeable Li-ion batteries |
| pprox. 1 hour and 50 minutes at an ambient emperature of 25 °C (77 °F) when no charge emains |
| °C–40 °C (+32 °F–104 °F) |
| pprox. 70 \times 26 \times 97 mm (2.8 \times 1.0 \times 3.8 in.), xcluding plug adapter |
| pprox. 96 g (3.4 oz), excluding plug adapter |
| |

The symbols on this product represent the following:

 \sim AC, == DC, \Box Class II equipment (The construction of the product is double-insulated.)

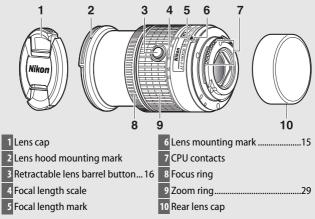
II EN-EL14a Rechargeable Li-ion Battery

| Туре | Rechargeable lithium-ion battery |
|--------------------------------------|--|
| Rated capacity | 7.2 V/1230 mAh |
| Operating temperature | 0°C-40 °C (+32 °F-104 °F) |
| Dimensions (W \times H \times D) | Approx. $38 \times 53 \times 14$ mm ($1.5 \times 2.1 \times 0.6$ in.) |
| Weight | Approx. 49 g (1.7 oz), excluding terminal cover |

■ AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR and AF-P DX NIKKOR 18–55mm f/3.5–5.6G Lenses

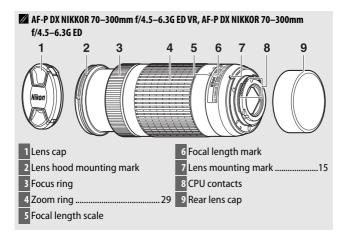
| Туре | Type G AF-P DX lens with built-in CPU and F mount |
|-------------------------------------|--|
| Focal length | 18–55 mm |
| Maximum aperture | f/3.5–5.6 |
| Lens construction | 12 elements in 9 groups (2 aspherical lens |
| Lens construction | elements) |
| Angle of view | 76° – 28° 50′ |
| Angle of view Focal length scale | |
| Distance information | Graduated in millimeters (18, 24, 35, 45, 55) |
| | Output to camera |
| Zoom | Manual zoom using independent zoom ring |
| Focusing | Autofocus controlled by stepping motor; separate focus ring for manual focus |
| Vibration reduction | Lens shift using voice coil motors (VCMs) |
| (AF-P DX NIKKOR | (, |
| 18–55mm f/3.5–5.6G | |
| VR only) | |
| • • | 0.25 m (0.9 ft) from focal plane at all zoom |
| | positions |
| Diaphragm blades | 7 (rounded diaphragm opening) |
| Diaphragm | Fully automatic |
| Aperture range | • 18 mm focal length: f/3.5–22 |
| | • 55 mm focal length: f/5.6-38 |
| | The minimum aperture displayed may vary |
| | depending on the size of the exposure increment |
| | selected with the camera. |
| Metering | Full aperture |
| Filter-attachment size | 55 mm (P = 0.75 mm) |
| Dimensions | Approx. 64.5 mm maximum diameter × 62.5 mm |
| | (distance from camera lens mount flange when |
| | lens is retracted) |
| Weight | • AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR: Approx. |
| | 205 g (7.3 oz) |
| | • AF-P DX NIKKOR 18–55mm f/3.5–5.6G: Approx. 195 g |
| | (6.9 oz) |
| | |

AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR, AF-P DX NIKKOR 18–55mm f/3.5–5.6G The lens generally used in this manual for illustrative purposes is the AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR. AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR and AF-P DX NIKKOR 18–55mm f/3.5–5.6G feature retractable lens barrels.



■ AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR and AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED Lenses

| TypeType G AF-P DX lens with built-in CPU and F mountFocal length70-300 mmMaximum aperturef/4.5-6.3Lens construction14 elements in 10 groups (including 1 ED lens element)Angle of view22° 50′ - 5° 20′Focal length scaleGraduated in millimeters (70, 100, 135, 200, 300)Distance informationOutput to cameraZoomManual zoom using independent zoom ringFocusingAutofoccus controlled by stepping motor; separate focus ring for manual focusVibration reductionLens shift using voice coil motors (VCMs)Minimum focus distance1.1 m (3.7 ft) from focal plane at all zoom positionsDiaphragmFully automaticAperture range• 70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera.MeteringFull apertureFilter-attachment size58 mm (P = 0.75 mm) (distance from camera lens mount flange)Weight• AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) • AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. | Туре | Type G AF-P DX lens with built-in CPU and F mount |
|--|------------------------|---|
| Maximum aperturef/4.5–6.3Lens construction14 elements in 10 groups (including 1 ED lens element)Angle of view22° 50′ - 5° 20′Focal length scaleGraduated in millimeters (70, 100, 135, 200, 300)Distance informationOutput to cameraZoomManual zoom using independent zoom ringFocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3GLens shift using voice coil motors (VCMs)Diaphragm blades7 (rounded diaphragm opening)DiaphragmFully automaticAperture range• 70 m focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera.MeteringFull apertureFilter-attachment size58 mm (P = 0.75 mm)DimensionsApprox. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange)Weight• AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | | ,, ,, |
| Lens construction14 elements in 10 groups (including 1 ED lens element)Angle of view22° 50′ - 5° 20′Focal length scaleGraduated in millimeters (70, 100, 135, 200, 300)Distance informationOutput to cameraZoomManual zoom using independent zoom ringFocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR | Focal length | 70–300 mm |
| element)Angle of view22° 50′ - 5° 20′Focal length scaleGraduated in millimeters (70, 100, 135, 200, 300)Distance informationOutput to cameraZoomManual zoom using independent zoom ringFocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR only)Lens shift using voice coil motors (VCMs)Minimum focus distance1.1 m (3.7 ft) from focal plane at all zoom positionsDiaphragmFully automaticAperture range7 (rounded diaphragm opening)DiaphragmFully automaticAperture range70 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera.MeteringFull apertureFilter-attachment size58 mm (P = 0.75 mm)DimensionsApprox. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange)Weight• AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | Maximum aperture | f/4.5–6.3 |
| Angle of view22° 50′ - 5° 20′Focal length scaleGraduated in millimeters (70, 100, 135, 200, 300)Distance informationOutput to cameraZoomManual zoom using independent zoom ringFocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3GLens shift using voice coil motors (VCMs)Minimum focus distance1.1 m (3.7 ft) from focal plane at all zoom positionsDiaphragmFully automaticAperture range70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera.MeteringFull apertureFilter-attachment size58 mm (P = 0.75 mm)DimensionsApprox. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange)Weight• AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | Lens construction | 14 elements in 10 groups (including 1 ED lens |
| Focal length scaleGraduated in millimeters (70, 100, 135, 200, 300)Distance informationOutput to cameraZoomManual zoom using independent zoom ringFocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR only)Lens shift using voice coil motors (VCMs)Minimum focus distance1.1 m (3.7 ft) from focal plane at all zoom positionsDiaphragmFully automaticAperture range70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera.MeteringFull apertureFilter-attachment size58 mm (P = 0.75 mm) DimensionsDimensionsApprox. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange)Weight• AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | | |
| Distance information Output to camera Zoom Manual zoom using independent zoom ring Focusing Autofocus controlled by stepping motor; separate focus ring for manual focus Vibration reduction (AF-P DX NIKKOR Lens shift using voice coil motors (VCMs) On-300nm f/4.5–6.3G ED VR only) Minimum focus distance 1.1 m (3.7 ft) from focal plane at all zoom positions Diaphragm Fully automatic Aperture range 70 mm focal length: f/4.5–22 300 mm focal length: f/4.5–22 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | Angle of view | 22° 50′ – 5° 20′ |
| ZoomManual zoom using independent zoom ringFocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3G | Focal length scale | Graduated in millimeters (70, 100, 135, 200, 300) |
| FocusingAutofocus controlled by stepping motor; separate focus ring for manual focusVibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR only)Lens shift using voice coil motors (VCMs)Minimum focus distance Diaphragm blades1.1 m (3.7 ft) from focal plane at all zoom positions 7 (rounded diaphragm opening)Diaphragm DiaphragmFully automaticAperture range e-70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera.MeteringFull apertureFilter-attachment size (distance from camera lens mount flange)Weight• AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | Distance information | Output to camera |
| focus ring for manual focus Vibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR only) Minimum focus distance 1.1 m (3.7 ft) from focal plane at all zoom positions Diaphragm blades 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | Zoom | Manual zoom using independent zoom ring |
| Vibration reduction (AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR only) Lens shift using voice coil motors (VCMs) Minimum focus distance ED VR only) 1.1 m (3.7 ft) from focal plane at all zoom positions 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | Focusing | Autofocus controlled by stepping motor; separate |
| (AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR only) Minimum focus distance 1.1 m (3.7 ft) from focal plane at all zoom positions Diaphragm blades 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5-22 • 300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | | focus ring for manual focus |
| 70-300mm f/4.5-6.3G ED VR only) Minimum focus distance 1.1 m (3.7 ft) from focal plane at all zoom positions Diaphragm blades 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range •70 mm focal length: f/4.5-22 •300 mm focal length: f/6.3-32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR: Approx. 415 g (14.7 oz) | Vibration reduction | Lens shift using voice coil motors (VCMs) |
| ED VR only) Minimum focus distance 1.1 m (3.7 ft) from focal plane at all zoom positions Diaphragm blades 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5–22 • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | • | |
| Minimum focus distance 1.1 m (3.7 ft) from focal plane at all zoom positions Diaphragm blades 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5–22 • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | |
| Diaphragm blades 7 (rounded diaphragm opening) Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5–22 • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | |
| Diaphragm Fully automatic Aperture range • 70 mm focal length: f/4.5–22 • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | |
| Aperture range • 70 mm focal length: f/4.5–22 • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | · · | |
| • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | , |
| The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | Aperture range | 2 |
| depending on the size of the exposure increment selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | 5 |
| selected with the camera. Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | |
| Metering Full aperture Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | 1 5 1 |
| Filter-attachment size 58 mm (P = 0.75 mm) Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | |
| Dimensions Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | | • |
| (distance from camera lens mount flange) Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | Filter-attachment size | . , |
| Weight • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) | Dimensions | |
| 415 g (14.7 oz) | | |
| | Weight | |
| AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED: Approx. | | 415 g (14.7 oz) |
| | | |
| 400 g (14.2 oz) | | 400 g (14.2 oz) |



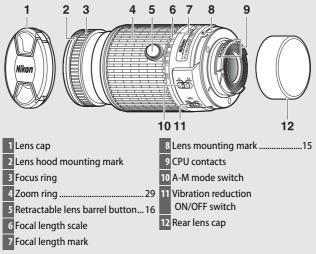
■ AF-S DX NIKKOR 55–200mm f/4–5.6G ED VR II Lens

| Туре | Type G AF-S DX lens with built-in CPU and F |
|------------------------|---|
| | mount |
| Focal length | 55–200 mm |
| Maximum aperture | f/4–5.6 |
| Lens construction | 13 elements in 9 groups (including 1 ED lens |
| | element) |
| Angle of view | 28° 50 ´ – 8° |
| Focal length scale | Graduated in millimeters (55, 70, 85, 105, 135, |
| | 200) |
| Distance information | Output to camera |
| Zoom | Manual zoom using independent zoom ring |
| Focusing | Nikon Internal Focusing (IF) System with |
| | autofocus controlled by Silent Wave Motor and |
| | separate focus ring for manual focus |
| Vibration reduction | Lens shift using voice coil motors (VCMs) |
| Minimum focus distance | 1.1 m (3.7 ft) from focal plane at all zoom |
| | positions |
| Diaphragm blades | 7 (rounded diaphragm opening) |
| Diaphragm | Fully automatic |
| Aperture range | • 55 mm focal length: f/4–22 |
| | • 200 mm focal length: f/5.6–32 |
| Metering | Full aperture |
| Filter-attachment size | 52 mm (P = 0.75 mm) |
| Dimensions | Approx. 70.5 mm maximum diameter × 83 mm |
| | (distance from camera lens mount flange when |
| | lens is retracted) |
| Weight | Approx. 300 g (10.6 oz) |
| | |

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AF-S DX NIKKOR 55–200mm f/4–5.6G ED VR II

The AF-S DX NIKKOR 55–200mm f/4–5.6G ED VR II features a retractable lens barrel.



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Conformity Marking

The standards with which the camera complies can be viewed using the **Conformity marking** option in the setup menu (\Box 71).

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MIT License (HarfBuzz)

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

Certificates

Indonesia

44633/SDPPI/2016 4588 44168/SDPPI/2016 4593

México

IFETEL: RCPMUTY16-0164 TYPE1FJ

Módulo WLAN instalado adentro de esta computadora La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.
- Paraguay

Número del Registro: 2015-12-I-0000358 Este producto contiene un transmisor aprobado por la CONATEL.

• Brasil



• الإمارات العربية المتحدة

TRA REGISTERED No: ER45170/16 DEALER No: DA39487/15

• عُمان

• الأردن TRC/SS/2016/230

Battery Life

The movie footage or number of shots that can be recorded with fully-charged batteries varies with the condition of the battery, temperature, the interval between shots, and the length of time menus are displayed. Sample figures for EN-EL14a (1230 mAh) batteries are given below.

- Photographs, single-frame release mode (CIPA standard 1): Approximately 1200 shots
- Movies: Approximately 60 minutes at 1080/60p²
- 1 Measured at 23 °C/73.4 °F (±2 °C/3.6 °F) with an AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR lens under the following test conditions: lens cycled from infinity to minimum range and one photograph taken at default settings once every 30 s; after photograph is taken, monitor is turned on for 4 s; tester waits for standby timer to expire after monitor is turned off; flash fired at full power once every other shot. Live view not used.
- 2 Measured at 23°C/73.4°F (±2°C/3.6°F) with the camera at default settings and an AF-P DX NIKKOR 18–55mm f/3.5–5.6G VR lens under conditions specified by the Camera and Imaging Products Association (CIPA). Individual movies can be up to 20 minutes in length or 4 GB in size; recording may end before these limits are reached if the camera temperature rises.

The following can reduce battery life:

- Using the monitor
- Keeping the shutter-release button pressed halfway
- Repeated autofocus operations
- Taking NEF (RAW) photographs
- Slow shutter speeds
- Using camera Bluetooth features
- Using the camera with optional accessories connected
- Using VR (vibration reduction) mode with VR lenses
- Repeatedly zooming in and out with an AF-P lens.

To ensure that you get the most from rechargeable Nikon EN-EL14a batteries:

- Keep the battery contacts clean. Soiled contacts can reduce battery performance.
- Use batteries immediately after charging. Batteries will lose their charge if left unused.

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NIKON CORPORATION Printed in Sin

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Printed in Singapore SB8I04(11) 6MB36111-04