

# Z 50 II

## User's Manual (with Warranty)

- Read this document thoroughly before using the camera.
- To ensure proper use of the camera, be sure to read "For your safety" (overleaf).
- After reading this document, keep it readily accessible for future reference.

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### Nikon Europe Service Warranty Card

Model name <b>Nikon Z50II</b>	Serial No.
Purchase date	
Name and address of customer	
Dealer	
Distributor Nikon Europe B.V. The Garden, Stroombaan 14, 1181 VX Amstelveen, The Netherlands	
Manufacturer NIKON CORPORATION 1-5-20, Nishi-ku, Shinagawa-ku, Tokyo 140-8601, Japan	

### Warranty terms - Nikon Europe service warranty

Dear Nikon customer,  
We thank you for your purchasing this Nikon product. Should your Nikon product require warranty service, please contact the dealer from whom it was purchased or a member of our authorized service network within the sales territory of Nikon Europe B.V. (e.g. Europe/others). See details under:  
<https://www.nikoneurope.com>

In order to avoid any unnecessary inconvenience, we advise you to read the user manuals carefully before contacting the dealer or our authorized service network.

Your Nikon equipment is guaranteed against any manufacturing defects for one full year from the date of original purchase. If during this period of guarantee the product proves defective due to improper material or workmanship, our authorized service network within the sales territory of Nikon Europe B.V. will, without charge for labor and parts, repair the product in the terms and conditions set as below. Nikon reserves the right (at its sole discretion) to replace or repair the product.

- This warranty is only provided upon presentation of the completed warranty card and original invoice or purchase receipt indicating the date of purchase, product type and dealer's name, together with the product. Nikon reserves the right to refuse free-of-charge warranty service if the above documents cannot be presented or if the information contained in it is incomplete or illegible.
- This warranty will not cover:
  - necessary maintenance and repair or replacement of parts due to normal wear and tear.
  - modifications to upgrade the product from its normal purpose as described in user manuals, without the prior written consent of Nikon.
  - transport costs and all risks of transport relating directly or indirectly to the warranty of the products.
  - any damage resulting from modifications or adjustments which may be made to the product, without the prior written consent of Nikon, in order to comply with local or national technical standards in force in any other country than the ones for which the product was originally designed and/or manufactured.
- The warranty will not be applicable in the case of:
  - damage caused by misuse including but not limited to failure to use the product for its normal purpose or according to the user instructions on the proper use and maintenance, and to installation or use of the product inconsistent with the safety standards in force in the country where it is used.
  - damage caused by accidents including but not limited to lightning, water, fire, misuse or neglect.
  - defacing, illegibility or removal of the model or serial number on the product.
  - damage resulting from repairs or adjustments which have been conducted by unauthorized service organizations or persons.
  - defects in any system into which the product is incorporated or with which it is used.

**Notice:** An overview of all authorized Nikon Service Stations can be found online by following this Link  
(URL = <https://www.nikoneurope.com>).

Z50II Model Name: N2318

**Nikon user support**  
Should you need technical support, we offer a number of options.

- **For users in the U.S.A.:**  
<https://www.nikonusa.com/>
- **For users in Canada:**  
<https://www.nikon.ca/>
- **For users in Mexico:**  
<https://www.nikon.com.mx/>
- **For users in Latin America:**  
<https://www.nikonamericalatina.com/>
- **For users in Europe:**  
<https://www.nikoneurope.com>
- **For users in Asia, Oceania, the Middle East, and Africa:**  
<https://www.nikon-asia.com/>

The Z50II User's Manual and Reference Guide

In addition to this *User's Manual*, a *Reference Guide* is available for your camera.

■ **The User's Manual (this sheet)**  
The *User's Manual* describes basic camera operations.

■ **The Reference Guide**  
Camera features and operations are detailed in a *Reference Guide*, a supplement to the *User's Manual*. The *Reference Guide* can be viewed on computers, smartphones, and tablets.

<https://onlinemanual.nikonimglib.com/z50II/en/>

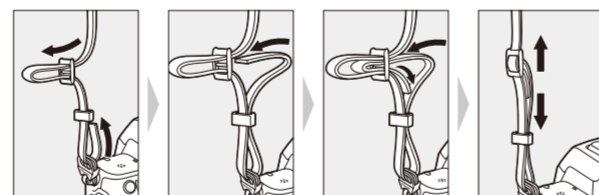
1 Eyelief for camera strap	28 HDMI connector
2 Focal plane mark (☉)	29 Charge lamp
3 Stereo microphone	30 USB connector
4 Video-record button	31 Lens release button
5 Power switch	32 Lens mount
6 Shutter-release button	33 Body cap
7 ISO sensitivity button (ISO)	34 Fn2 button
8 Exposure compensation button (±)	35 Fn1 button
9 Picture Control button (ESC)	36 Rubber eyecup
10 Main command dial	37 Viewfinder
11 Photo/video selector	38 Eye sensor
12 Mode dial	39 Monitor mode button (I/O)
13 Diopter adjustment control	40 DISP button (DISP)
14 Accessory shoe (for optional flash unit)	41 <b>(ON)</b> button
15 Speaker	42 "i" button (i)
16 Sub-command dial	43 OK button (⊕)
17 AF-assist illuminator	44 Multi selector
Red-eye reduction lamp	45 MENU button (MENU)
Self-timer lamp	46 Playback button (▶)
Image sensor	47 Playback zoom out/thumbnails button (☰)
Help button (?)	48 Playback zoom in button (Ⓚ)
Memory card access lamp	49 Memory card access lamp
Battery-chamber/memory card slot cover	50 Battery-chamber/memory card slot cover
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Memory card slot	52 Memory card slot
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Release mode button (Ⓜ)	56 Release mode button (Ⓜ)
Self-timer button (Ⓜ)	57 Self-timer button (Ⓜ)
Delete button (Ⓜ)	57 Delete button (Ⓜ)

• Throughout this document, the display in camera monitor and viewfinder during shooting is referred to as the "shooting display". In most cases, the illustrations show the monitor.

### First steps

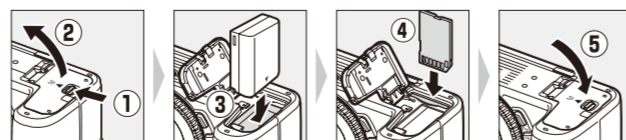
#### Attaching the strap

To attach a strap, follow the steps below.



#### Inserting the battery and a memory card

- Turn the camera off before inserting or removing the battery and memory card.
- Using the battery to keep the orange battery latch pressed to one side, slide the battery into the battery chamber until the latch locks it in place.
- Holding the memory card in the orientation shown, slide it straight into the slot until it clicks into place.

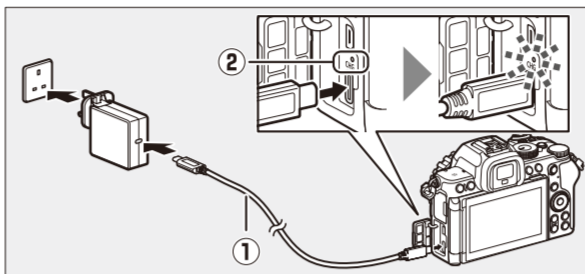


#### Charging the battery

Charge the supplied EN-EL25a rechargeable Li-ion battery before use. With the battery inserted in the camera, connect the camera to the optional EH-8P AC adapter using the supplied USB cable to charge the battery.

⚠ **Caution: Using batteries**  
Read and follow the warnings and cautions in "For your safety" (overleaf) and "Caring for the camera and battery: Cautions" (overleaf).

- Insert the EN-EL25a into the camera.
- After confirming that the camera is off, connect it to an optional EH-8P AC adapter using the supplied USB cable (1). Plug the AC adapter into a household power outlet. The battery charges while the camera is off. Keep the cable or plug straight during insertion and removal.



- The camera charge lamp (2) lights amber while charging is in progress. The lamp turns off when charging is complete.
- Even if the camera is on, the battery will charge after the standby timer expires.
- An exhausted battery will fully charge in about 1 hour and 40 minutes.
- The shape of the plug varies with the country or region of purchase.

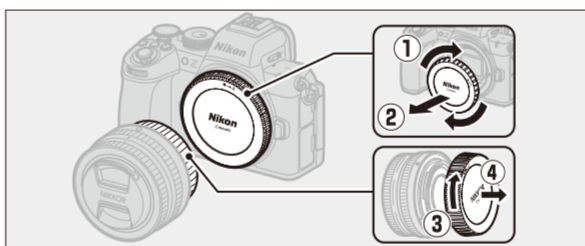
⚠ **Cautions: Charging**  
Charging errors, caused by elevated camera temperatures for example, are indicated by the charge lamp flashing rapidly for about 30 seconds before turning off.  
After the charge lamp turns off, we recommend that you turn the camera on (or activate the standby timer) and confirm that the battery is charged.

**Tip: Charging with third-party AC adapters that are equipped with USB Type C connectors and are compliant with PD (power delivery) standards**

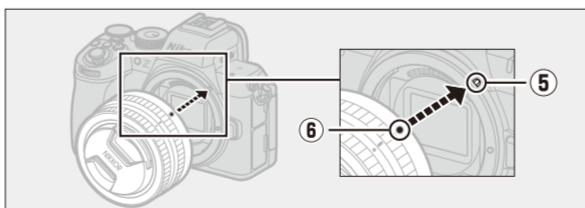
- The camera battery can also be charged with third-party AC adapters. Use an AC adapter that complies with USB PD (power delivery) standards and is equipped with USB Type C connectors.
- Use an AC adapter that supports output of 15 W (5 V/3 A) or more.
- Use a USB cable that is Type C on both ends to connect to the camera.
- We do not guarantee that all third-party AC adapters and USB cables are able to charge the camera battery.

#### Attaching a lens

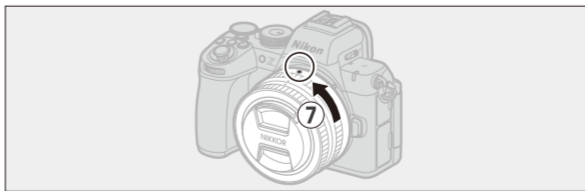
- The camera can be used with Z mount lenses. For more information on lenses, see the lens documentation available from the Nikon Download Center.
- The lens generally used in this document for illustrative purposes is a NIKKOR Z DX 16–50mm f/3.5–6.3 VR.
- Be careful to prevent dust entering the camera.
- Confirm that the camera is off before attaching the lens.
  - Remove the camera body cap (1, 2) and rear lens cap (3, 4).



- Align the mounting marks on the camera (5) and lens (6). Do not touch the image sensor or lens contacts.



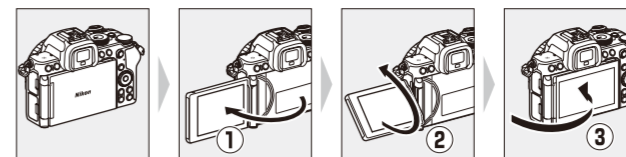
- Rotate the lens as shown until it clicks into place (7).



- Remove the front lens cap before taking pictures.

#### Opening the monitor

Slowly rotate the monitor without using excessive force.



#### Camera setup

Turn the camera on, choose a language, and set the clock. Before using the camera for the first time, follow the steps below to choose a language and time zone and set the clock so that the correct time and date will be recorded with any pictures you take.

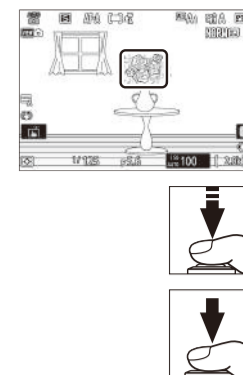
- Press MENU, and in the setup menu highlight [Language] and press Ⓜ.
- Select a language. Press ⏪ or ⏩ to highlight the desired language and press Ⓜ (the languages available vary with the country or region in which the camera was originally purchased).
- Highlight [Time zone and date] and press Ⓜ.
- Choose a time zone.
  - Select [Time zone] in the [Time zone and date] display.
  - The display lists selected cities in the chosen zone and the difference between the time in the chosen zone and UTC.
  - Highlight a time zone in the [Time zone] display and press Ⓜ.
- Turn daylight saving time on or off.
  - Select [Daylight saving time] in the [Time zone and date] display.
  - Select [ON] (daylight saving time on) or [OFF] (daylight saving time off).
  - Selecting [ON] advances the clock one hour; to undo the effect, select [OFF].
- Set the clock.
  - Select [Date and time] in the [Time zone and date] display.
  - Press Ⓜ after using the multi selector to set the clock to the date and time in the selected time zone in the [Date and time] display (note that the camera uses a 24-hour clock).
- Choose a date format.
  - Select [Date format] in the [Time zone and date] display.
  - Highlight the desired date (year, month, and day) display order and press Ⓜ.
- Exit the menu. Lightly press the shutter-release button halfway to exit to shooting mode.

#### Taking photographs easily (AUTO)

⚠ **Lenses with retractable barrels**  
Lenses with retractable barrels must be extended before use. Rotate the zoom ring as shown until the lens clicks into the extended position.

- Select photo mode by rotating the photo/video selector to 📷.
- Rotate the mode dial to AUTO (AUTO).
- Ready the camera.

#### 4 Frame the photograph.



#### 5 Press the shutter-release button halfway to focus.

#### 6 Smoothly press the shutter-release button the rest of the way down to take the photograph.

#### Recording videos easily (AUTO)

#### 1 Select video mode by rotating the photo/video selector to 📹.

#### 2 Rotate the mode dial to AUTO (AUTO).

#### 3 Press the video-record button to start recording.

- During recording, the REC lamp will light, a recording indicator will be displayed (1), and the borders of the shooting display will turn red (2). The display also shows the time remaining, or in other words the approximate amount of new footage that can be recorded to the memory card (3).

#### 4 Press the video-record button again to end recording.

#### Playback

Press the Ⓜ button to view photos and videos in the monitor or viewfinder after shooting.

- Press ⏪ or ⏩, or flick left or right on the monitor to view other images.

- Videos are indicated by a 📹 icon at the upper left of the monitor. Press the Ⓜ button, or tap the 📹 icon in the monitor to play back videos.
- To end playback and return to shooting mode, press the shutter-release button halfway.

#### Caring for the camera

- **Long-term storage**  
When the camera will not be used for an extended period, remove the battery. Before removing the battery, confirm that the camera is off. Do not store the camera 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)

#### Troubleshooting

You may be able to resolve any issues with the camera by following the steps below. Check this list before consulting your retailer or Nikon-authorized service representative.

- STEP 1** Check the list of common problems. Common problems and solutions are listed in the troubleshooting section of the *Reference Guide*.
- STEP 2** Turn the camera off and remove the battery, then wait about a minute, reinsert the battery and turn the camera on. The camera may continue to write data to the memory card after shooting. Wait at least a minute before removing the battery.
- STEP 3** Search Nikon websites. For support information and answers to frequently asked questions, visit the website for your country or region (see "Nikon user support" at the top left corner of this page). To download the latest firmware for your camera, visit: <https://downloadcenter.nikonimglib.com/>
- STEP 4** Consult a Nikon-authorized service representative.

## 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.

After reading these safety instructions, keep them readily accessible for future reference.

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

**⚠ WARNING:** Failure to observe the precautions marked with this icon could result in death or severe injury.

**⚠ CAUTION:** Failure to observe the precautions marked with this icon could result in injury or property damage.

### ⚠ WARNING

Do not use while walking or operating a 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 remove the battery or disconnect the 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.**

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, AC adapters, or USB cables not specifically designated for use with this product. When using batteries, chargers, AC adapters, and USB cables 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.

**Dust on or near the metal parts of the plug should be removed with a dry cloth.**

Continued use could result in fire.

**Do not handle with bare hands in locations exposed to extremely high or low temperatures.**

Failure to observe this precaution could result in burns or frostbite.

### ⚠ CAUTION

**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 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.

**Do not look directly at the AF-assist illuminator.**

Failure to observe this precaution could have adverse effects on vision.

**Do not look at the REC lamp from short distances or for long periods.**

Failure to observe this precaution could have adverse effects on vision.

**Do not transport cameras or lenses with tripods or similar accessories attached.**

Failure to observe this precaution could result in injury or product malfunction.

**Keep the product at least 5 cm (2.0 in.) from pacemakers and other medical devices.**

Medical devices in close proximity could be affected by the magnet or magnets in the product.

### ⚠ 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 step on batteries, pierce them with nails, or strike them with hammers.

**Charge only as indicated.**

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.

**Follow the instructions of airline personnel.**

Batteries left unattended at high altitudes in an unpressurized environment may leak, overheat, rupture, or catch fire.

### ⚠ WARNING (Batteries)

**Keep batteries out of reach of children.**

**Should a child swallow a battery, seek immediate medical attention.**

**Keep batteries out of reach of household pets and other animals.** The batteries could leak, overheat, rupture, or catch fire if bitten, chewed, or otherwise damaged by animals.

**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-EL25a 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.

**When batteries are no longer needed, insulate the terminals with tape.** Overheating, rupture, or fire may result should metal objects come into contact with the terminals.

#### ⚠ WARNING (Batteries)

**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 documentation included with this product may be reproduced, transmitted, or stored, 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 this documentation at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort has been made to ensure that the information in this documentation 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).

*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 cannot 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.

*Nikon brand accessories*

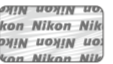
This product is designed to be used with Nikon brand accessories. Nikon is not responsible for any damage caused by accidents such as malfunctions or ignition that are clearly attributable to the use of non-Nikon accessories. In these cases, repair of Nikon products is not covered under your Nikon warranty. Please understand this in advance.

*Batteries*

EN-EL25a rechargeable Li-ion batteries are dedicated for use only with Nikon products. Nikon is not responsible for any malfunctions or accidents resulting from use with chargers or other products that are not compatible with the EN-EL25a.

• Beware of counterfeit batteries. Such batteries do not allow the camera to perform to its full potential and may cause the batteries to overheat, ignite, rupture or leak.

• An EN-EL25a rechargeable Li-ion battery bears a Nikon holographic seal indicating that it is a genuine Nikon product.



*Memory cards*

- Memory cards may be hot after use. Observe due caution when removing memory cards from the camera.
- Do not perform the following operations during formatting or while data are being recorded, deleted, or copied to a computer or other device. Failure to observe these precautions could result in loss of data or in damage to the camera or card.
  - Do not remove or insert memory cards.
  - Do not turn the camera off.
  - Do not remove the battery.
  - Do not disconnect AC adapters.
- Do not touch the card terminals with your fingers or metal objects.
- Do not use excessive force when handling memory cards. Failure to observe this precaution could damage the card.
- Do not bend or drop memory cards or subject them to strong physical shocks.
- Do not expose memory cards to water, heat, or direct sunlight.
- Do not format memory cards in a computer.

**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 on-line at the following sites:

- For users in the U.S.A.:** <https://www.nikonusa.com/>
- For users in Canada:** <https://www.nikon.ca/>
- For users in Mexico:** <https://www.nikon.com.mx/>
- For users in Latin America:** <https://www.nikonamericalatina.com/>
- For users in Europe:** <https://www.nikoneurope.com>
- For users in Asia, Oceania, the Middle East, and Africa:** <https://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: <https://imaging.nikon.com/>

## Caring for the camera and battery: Cautions

■ *Cautions: Using the camera*

● **Do not drop**

Do not drop the camera or lens or subject them to blows. The product may malfunction if subjected to strong shocks or vibration.

● **Keep dry**

Keep the camera dry. Rusting of the internal mechanism caused by water inside the camera can not only be expensive to repair but can in fact cause irreparable damage.

● **Avoid sudden changes in temperature**

Taking the camera from a warm to a cold environment or *vice versa* may cause damaging condensation inside and outside the camera. Place the camera in a sealed bag or plastic case before taking it across a temperature boundary. The camera can be taken from the bag or case once it has had time to adjust to the new temperature.

● **Keep away from strong magnetic fields**

Static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, corrupt data stored on the memory card, or affect the product's internal circuitry.

● **Keep credit cards and other such magnetic storage devices away from the camera and lens**

Data stored on magnetic storage devices could be corrupted.

● **Do not leave the lens pointed at the sun**

Do not leave the lens pointed at the sun or other strong light source. Intense light may damage the image sensor or cause fading or "burn in". Photographs taken with the camera may exhibit a white blur effect.

● **Lasers and other bright light sources**

Do not direct lasers or other extremely bright light sources toward the lens, as this could damage the camera's image sensor.

● **Turn the product off before removing or disconnecting the power source**

Removing or disconnecting the power source while the camera is on could damage the product. Particular care should be taken not to remove or disconnect the power source while images are being recorded or deleted.

● **Cleaning**

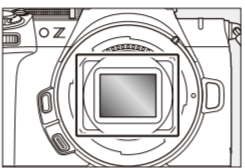
When cleaning the camera body, use a blower to gently remove dust and lint, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt using a cloth lightly dampened in fresh water and then dry the camera thoroughly.

● **Cleaning the lens 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 that could damage glass elements. 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.

● **Do not touch the image sensor**

Under no circumstances should you exert pressure on the image sensor, poke it with cleaning tools, or subject it to powerful air currents from a blower. These actions could scratch or otherwise damage the sensor.



● **The lens contacts**

Keep the lens contacts clean. Avoid touching them with your fingers.

● **Store in a well-ventilated area**

To prevent mold or mildew, store the camera in a dry, well-ventilated area. Do not store the camera with naphtha or camphor moth balls, next to equipment that produces strong electromagnetic, or where it will be exposed to extremely high temperatures, for example near a heater or in an enclosed vehicle on a hot day. Failure to observe these precautions could result in product malfunction.

● **Long-term storage**

To prevent damage caused by, for example, leaking battery fluid, remove the battery if the product will not be used for an extended period. Store the camera in a plastic bag containing a desiccant. Do not, however, store the leather camera case in a plastic bag, as this may cause the material to deteriorate. Store the battery in a cool, dry place. 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, insert the battery, and release the shutter a few times.

● **Monitor/viewfinder**

- The monitors (including viewfinder) are constructed with extremely high precision; at least 99.99% of pixels are effective, with no more than 0.01% being missing or defective. Hence while these displays may contain pixels that are always lit (white, red, blue, or green) or always off (black), this is not a malfunction. Images recorded with the device are unaffected. Your understanding is requested.
- Images in the monitor may be difficult to see in a bright light.
- Do not apply pressure to the monitor. The monitor could malfunction or suffer damage. Dust or lint on the monitor can be removed with a blower. Stains can be removed by wiping the monitor lightly with a soft cloth or chamois leather. Should the monitor break, care should be taken to avoid injury from broken glass. Be careful that liquid crystal from the monitor does not touch the skin or enter the eyes or mouth.
- Should you experience any of the following symptoms while framing shots in the viewfinder, discontinue use until your condition improves:
  - nausea, eye pain, eye fatigue,
  - dizziness, headache, stiffness in your neck or shoulders,
  - queasiness or loss of hand-eye coordination, or
  - motion sickness.
- The display may rapidly flicker on and off during burst photography. Watching the flickering display could cause you to feel unwell. Discontinue use until your condition improves.

● **Bright lights and back-lit subjects**

Noise in the form of lines may in rare cases appear in pictures that include bright lights or back-lit subjects.

● **Camera shooting and playback displays**

When **[HLG]** is selected for tone mode, the shooting and playback displays in the camera monitor and viewfinder may include "noise" in the form of randomly-spaced bright pixels, fog, or lines or may fail to accurately reproduce highlights and highly-saturated colors. In addition, abrupt tone discontinuities may be visible in the camera monitor or viewfinder when photos are displayed full-frame, although the photos themselves are unaffected. For accurate tone reproduction, use monitors, computers, operating systems, applications, and other equipment compatible with HLG.

**Cautions: 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]** item in the camera setup menu to delete network settings and other personal information.

■ *Cautions: Using batteries*

● **Precautions for use**

- If improperly handled, batteries may rupture or leak, causing the product to corrode. Observe the following precautions when handling batteries:
  - Turn the product off before replacing the battery.
  - Batteries may be hot after extended use.
  - Keep the battery terminals clean.
  - Use only batteries approved for use in this equipment.
  - Do not short or disassemble batteries or expose them to flame or excessive heat.

- When the battery is not inserted in the camera, insulate the terminals.

If there is a terminal cover, attach the terminal cover to the battery. If there is no terminal cover, keep the battery separate in a plastic bag or other non-conductive container.

• If the battery is hot, for example immediately after use, wait for it to cool before charging. Attempting to charge the battery while its internal temperature is elevated will impair battery performance, and the battery may not charge or charge only partially.

• If the battery will not be used for some time, remove it from the camera and store it in a cool, dry location with an ambient temperature of 15 °C to 25 °C (59 °F to 77 °F). Avoid hot or extremely cold locations.

• Batteries in long-term storage should be charged to about 50% at least once a year. Do not charge the battery to 100% before returning it to storage. A fully-exhausted battery will charge to around 50% in about half the time needed to charge it to 100%.

• Remove the battery from the camera when not in use. The camera and charger draw minute amounts of charge even when off and could draw the battery down to the point that it will no longer function.

• 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. Charge the battery indoors at ambient temperatures of 5 °C–35 °C (41 °F–95 °F). The battery will not charge if its temperature is below 0 °C (32 °F) or above 60 °C (140 °F).

• Capacity may be reduced and charging times 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).

• Batteries in general exhibit a drop in charging capacity at low ambient temperatures.

• Batteries in general exhibit a drop in available capacity at low ambient temperatures. The change in capacity with temperature is reflected in the camera battery-level display. As a result, the battery display may show a drop in capacity as the temperature drops, even if the battery is fully charged.

• Batteries may be hot after use. Observe due caution when removing batteries from the camera.

● **Charge batteries before use**

Charge the battery before use. The supplied battery is not fully charged at shipment.

● **Ready spare batteries**

Before taking photographs, ready a spare battery and keep it fully charged. Depending on your location, it may be difficult to purchase replacement batteries on short notice.

● **Have fully-charged spare batteries ready on cold days**

Partially-charged batteries may not function on cold days. In cold weather, charge one battery before use and keep another in a warm place, ready to be exchanged as necessary. Once warmed, a cold battery may recover some of its charge.

● **Battery level**

• Turning the camera on or off repeatedly when the battery is fully discharged will shorten battery life. Batteries that have been fully discharged must be charged before use.

• 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 rechargeable battery.

● **Do not attempt to charge fully-charged batteries**

Continuing to charge the battery after it is fully charged can impair battery performance.

● **Recycling used batteries**

Recycle rechargeable batteries in accord with local regulations, being sure to first insulate the terminals with tape.

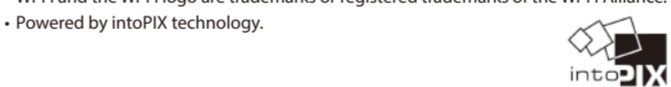
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