

Nikon E23NKZ6IIBODY

Nikon Z6II Mirrorless Camera User Manual

MODEL: E23NKZ6IIBODY

Introduction

This manual provides essential information for the safe and optimal use of your Nikon Z6II Mirrorless Camera. The Nikon Z6II is a versatile Z series camera designed to balance speed, power, low-light capability, and advanced video features. It features a 24.5-megapixel BSI CMOS sensor and dual EXPEED 6 Processors, offering an impressive ISO range from 100-51,200, expandable up to 204,800 equivalent. The camera boasts a fast 14 fps continuous shooting speed and supports 4K UHD 60p video with full pixel readout.

Key features include an enhanced AF system with 273 on-sensor phase-detect autofocus points, Eye-Detection AF, and Animal-Detection AF for both stills and video. Dual card slots (CFexpress/XQD + UHS-II SD) provide flexible storage options.

- AN-DC19 Strap
- BF-N1 Body Cap
- DK-29 Rubber Eyecup
- Deco Gear Camera Gadget Bag Travel Case
- Lexar Professional 667x 64GB SDXC UHS-3 Class 10 Memory Card
- Compatible Battery for EN-EL15
- Corel Paint Shop Pro & VideoSuite Software
- Photo Video Photography Lighting LED Light
- 12" Tripod / Grip 2 In 1
- Lens Cap Keeper
- Screen Protectors
- Memory Card Reader
- Memory Card Storage Case
- Deco Photo Photography Accessory Kit (Carry Case, Lens Blower, Sensor Brush, Lens Tissue, Microfiber Cloth)

Battery Installation and Charging

1. Ensure the camera is turned off.
2. Open the battery chamber cover located at the bottom of the camera.
3. Insert the EN-EL15c battery with the orange battery lock lever held to one side, pushing the battery in until it clicks into place.
4. Close the battery chamber cover.
5. To charge, insert the battery into the MH-25a charger and connect the charger to a power outlet. The charge lamp will blink while charging and turn steady when complete.

Memory Card Installation

The Z6II supports both CFexpress/XQD and UHS-II SD cards.

1. Ensure the camera is turned off.
2. Open the memory card slot cover on the side of the camera.
3. Insert the CFexpress/XQD card into Slot 1 and the UHS-II SD card into Slot 2, ensuring the correct orientation until they click into place.
4. Close the memory card slot cover securely.



Side view of the Nikon Z6II camera showing the dual memory card slots open, with a SanDisk SD card inserted.

Lens Attachment (Nikon Z Mount)

While this bundle is for the camera body, the Z6II uses Nikon Z mount lenses.

1. Remove the body cap from the camera and the rear cap from the lens.
2. Align the mounting mark on the lens with the mounting mark on the camera body.
3. Rotate the lens counter-clockwise until it clicks into place.



Front view of the Nikon Z6II Mirrorless Camera body, with the lens mount and exposed sensor clearly visible.

Initial Power On

After installing the battery and memory card, turn the camera on using the power switch located around the shutter button. Follow any on-screen prompts for initial setup, such as setting the date and time.

Operating the Camera

Basic Controls and Display

The Nikon Z6II features a 3.2-inch tilting LCD touchscreen and a high-resolution electronic viewfinder. Familiarize yourself with the main controls:

- **Shutter Button:** Activates autofocus and takes photos.
- **Mode Dial:** Selects shooting modes (P, S, A, M, U1, U2, U3, Auto).
- **Command Dials:** Adjust settings like aperture, shutter speed, and ISO.
- **i Button:** Accesses a quick menu for frequently used settings.
- **DISP Button:** Cycles through display information on the LCD and viewfinder.
- **AF-ON Button:** Activates autofocus independently from the shutter button.
- **Multi-selector and OK Button:** Navigate menus and confirm selections.



Rear view of the Nikon Z6II Mirrorless Camera, showing the tilting LCD screen, electronic viewfinder, and various control buttons.



Top view of the Nikon Z6II Mirrorless Camera, highlighting the mode dial, shutter button, and top display.

Shooting Modes

The Z6II offers various shooting modes to suit different photographic needs:

- **P (Programmed Auto):** Camera sets both shutter speed and aperture for optimal exposure.
- **S (Shutter-Priority Auto):** You set the shutter speed, and the camera selects the aperture. Ideal for controlling motion blur.
- **A (Aperture-Priority Auto):** You set the aperture, and the camera selects the shutter speed. Ideal for controlling depth of field.
- **M (Manual):** You control both shutter speed and aperture.
- **U1, U2, U3 (User Settings):** Save and quickly recall your preferred camera settings.
- **Auto:** Fully automatic mode for simple point-and-shoot operation.

Autofocus System

The Z6II features a robust 273-point phase-detect AF system. It can acquire focus in extreme low-light scenarios (down to -4.5 EV). The camera supports advanced autofocus features:

- **Eye-Detection AF:** Automatically detects and focuses on human eyes.
- **Animal-Detection AF:** Automatically detects and focuses on the eyes of dogs and cats.
- **Continuous-Servo AF (AF-C):** For moving subjects.
- **Single-Servo AF (AF-S):** For stationary subjects.

Video Recording

The Z6II is a powerful tool for videographers, offering:

- **4K UHD 60p:** High-resolution video with full pixel readout.
- **4K 30p:** Standard 4K recording.
- **Full HD 120p:** For smooth slow-motion playback.

AF speed and tracking sensitivity are adjustable for video recording. The focus ring can also be reversed.

Image Stabilization

The camera features 5-axis in-body sensor-shift Vibration Reduction (VR) to minimize camera shake, allowing for sharper images and smoother video, especially in low light or when using non-VR lenses.

Connectivity

The Z6II offers various connectivity options:

- **Wi-Fi:** For wireless image transfer and remote camera control via the Nikon SnapBridge app.
- **Bluetooth:** For continuous connection with smart devices.
- **USB-C:** For data transfer and in-camera battery charging.
- **HDMI:** For external monitor connection or video output.
- **Microphone Input:** For external audio recording.
- **Headphone Output:** For audio monitoring during video recording.



Side view of the Nikon Z6II Mirrorless Camera, showing the various input/output ports including microphone, headphone, USB, and HDMI.

Maintenance

Cleaning the Camera

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, use a cloth lightly dampened with water. Avoid harsh chemicals.
- **LCD Monitor:** Gently wipe with a soft, clean cloth. For smudges, use a specialized LCD cleaning solution and cloth.
- **Sensor:** Sensor cleaning should be performed with extreme care. If dust spots appear on images, use a blower brush to gently remove loose dust. For persistent dust, professional cleaning is recommended.

Battery Care

- Always use genuine Nikon batteries and chargers.
- Charge batteries fully before use.
- Store batteries in a cool, dry place when not in use. Avoid extreme temperatures.
- If storing for extended periods, charge batteries every six months to prevent over-discharge.

Storage

When not in use, store the camera in a dry, well-ventilated area, away from direct sunlight, high temperatures, and humidity. Use a desiccant if storing in humid environments. Remove the battery if storing for long periods.

Troubleshooting

This section addresses common issues you might encounter with your Nikon Z6II camera.

Problem	Possible Cause / Solution
Camera does not power on.	Battery is depleted or not inserted correctly. Ensure battery is charged and properly seated. Check battery contacts for cleanliness.
Autofocus is slow or inaccurate.	Insufficient light, low contrast subject, or incorrect AF mode selected. Ensure AF mode matches subject (AF-C for moving, AF-S for stationary). Use AF-ON button for precise focus.
Memory card error message.	Card is full, corrupted, or incompatible. Try a different card. If necessary, format the card <i>(note: this will erase all data)</i> . Ensure card is inserted correctly.
Images are blurry.	Shutter speed too slow, camera shake, or subject movement. Increase shutter speed, use VR, or use a tripod. Check lens for smudges.
No image displayed on LCD/viewfinder.	Eye sensor might be active, or display mode is off. Press the DISP button to cycle through display options.

Specifications

Feature	Detail
Model Name	E23NKZ6IIBODY
Compatible Mountings	Nikon Z
Photo Sensor Technology	CMOS
Photo Sensor Resolution	24.5 MP
Image Stabilization	Sensor-shift
Expanded ISO Range	100 - 204800
Maximum Shutter Speed	1/8000 seconds
Minimum Shutter Speed	900 seconds
Continuous Shooting	14 fps
Screen Size	3.2 Inches
Display Type	Tilting LCD Touchscreen
Flash Memory Type	SD, SDXC (UHS-II), CFexpress/XQD
Video Resolution	2160p (4K UHD), 1080p (Full HD)
Connectivity Technology	Wireless (Bluetooth, Wi-Fi), USB, HDMI

Feature	Detail
Autofocus Points	273
Processor	Dual EXPEED 6 Processors
Weight	5 Pounds (approximate)

Warranty and Support

Your Nikon Z6II Mirrorless Camera comes with a Full Nikon USA Warranty. For detailed warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Nikon USA website. For further assistance, technical support, or to download the latest firmware and software, please visit the official Nikon support website. You can also find FAQs and additional resources there.

Note: No official seller videos were available for embedding in this manual.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

