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Nikon Z6

Nikon Z6 Full Frame Mirrorless Camera Body User Manual

Model: Z6 (Model Number: 1595)

1. INTRODUCTION AND OVERVIEW

The Nikon Z6 is a versatile full-frame mirrorless camera designed for photographers and videographers seeking a balance of resolution, speed, and low-light performance. It features a lightweight mirrorless design, a revolutionary Z-mount system, and seamless integration with Nikon's DSLR system via the FTZ adapter.

Key features include:

- Large, full-frame Z mount for advanced optical performance.
- Nikon-designed 24.5MP backside-illuminated image sensor.
- 273-point on-sensor phase-detect autofocus system.
- Up to 12 frames per second continuous shooting.
- 4K Ultra-HD video recording and 1080P/120fps slow motion.
- Compatibility with NIKKOR Z lenses and over 360 F-mount NIKKOR lenses (with FTZ adapter).



Front view of the Nikon Z6 Full Frame Mirrorless Camera Body, showcasing the Z-mount and the camera's ergonomic grip. The Fn1 and Fn2 buttons are visible on the front grip.

2. SETUP

2.1 Unboxing and Package Contents

Before beginning, ensure all components are present in the package:

- Nikon Z6 Camera Body
- EN-EL15b Rechargeable Li-ion Battery
- MH-25a Battery Charger
- UC-E24 USB Cable
- HDMI/USB Cable Clip
- BS-1 Accessory Shoe Cap
- AN-DC19 Strap
- BF-N1 Body Cap
- DK-29 Rubber Eyecup

2.2 Battery Installation and Charging

1. Open the battery chamber cover located at the bottom of the camera.
2. Insert the EN-EL15b battery with the contacts facing inward, ensuring it clicks into place.
3. Close the battery chamber cover.
4. To charge, insert the battery into the MH-25a charger and connect the charger to a power outlet. The charging lamp

will blink during charging and turn steady when complete.

2.3 Memory Card Insertion

The Nikon Z6 uses XQD memory cards. Ensure the camera is off before inserting or removing the card.

1. Open the memory card slot cover on the side of the camera.
2. Insert the XQD card into the slot with the label facing the correct direction until it clicks.
3. Close the memory card slot cover.

2.4 Attaching a Lens

The Z6 features the Nikon Z mount. For F-mount NIKKOR lenses, use the FTZ Mount Adapter (sold separately).

1. Remove the body cap from the camera and the rear lens 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.

3. OPERATING INSTRUCTIONS

3.1 Powering On and Basic Controls

To power on the camera, rotate the power switch located around the shutter-release button. The Z6 features both an Electronic Viewfinder (EVF) and a tilting LCD touchscreen for composing and reviewing images.

- **Shutter-release button:** Press halfway to focus, fully to take a picture.
- **Mode Dial:** Select shooting modes such as Program (P), Shutter-priority (S), Aperture-priority (A), Manual (M), and Auto.
- **Fn1/Fn2 Buttons:** Customizable function buttons on the front grip for quick access to frequently used settings.
- **i-button:** Access the i-menu for quick adjustments to common settings.

3.2 Shooting Modes and Exposure Control

The Z6 offers various shooting modes to suit different photographic situations:

- **Programmed Auto (P):** Camera sets shutter speed and aperture for optimal exposure.
- **Shutter-Priority Auto (S):** User sets shutter speed, camera sets aperture. Ideal for controlling motion blur.
- **Aperture-Priority Auto (A):** User sets aperture, camera sets shutter speed. Ideal for controlling depth of field.
- **Manual (M):** User controls both shutter speed and aperture.
- **Auto:** Fully automatic mode for simple point-and-shoot operation.

Metering options include Matrix, Center-Weighted Average, Highlight Weighted, and Spot metering.

3.3 Autofocus System

The Z6 features a 273-point on-sensor phase-detect AF system covering approximately 90% of the image area. Focus modes include:

- **Single-Servo AF (AF-S):** For stationary subjects. Focus locks when the shutter-release button is pressed halfway.
- **Continuous-Servo AF (AF-C):** For moving subjects. Focus continuously adjusts while the shutter-release button is pressed halfway.
- **Full-Time Servo AF (AF-F):** Primarily for video, camera continuously adjusts focus.
- **Manual Focus (MF):** User adjusts focus manually. Focus peaking is available to assist.

3.4 Video Recording

The Z6 supports 4K UHD (3840 x 2160) video recording at up to 30p and Full HD (1920 x 1080) at up to 120p for slow-motion effects. It offers 10-bit HDMI output with N-Log gamma for professional video workflows.

To start recording, ensure the camera is in video mode (usually selected via a switch or button) and press the dedicated video record button.

3.5 In-Body Vibration Reduction (IBIS)

The Z6 incorporates 5-axis in-body Vibration Reduction (VR) for stills and video, providing stabilization regardless of the lens used. This system helps reduce camera shake, especially in low light or when shooting handheld.

4. MAINTENANCE

4.1 Cleaning the Camera Body and Sensor

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth. Avoid harsh chemicals.
- **Lens and Viewfinder:** Use a lens blower brush to remove dust. For smudges, use a specialized lens cleaning solution and a microfiber cloth.
- **Image Sensor:** The Z6 has an automatic sensor cleaning function. If dust spots persist, use a sensor cleaning kit or consult a professional service center. Avoid touching the sensor directly.

4.2 Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging batteries regularly to prolong their lifespan.
- Do not expose batteries to extreme temperatures.

4.3 Storage

When storing the camera for extended periods, remove the battery and memory card. Store the camera in a dry, well-ventilated area, ideally with a desiccant to prevent mold and mildew.

5. TROUBLESHOOTING

5.1 Common Issues and Solutions

- **Camera does not power on:** Ensure the battery is fully charged and correctly inserted. Check if the battery contacts are clean.
- **"Error. Press and release shutter button again." message:** This can occur with certain F-mount lenses via the FTZ adapter. Try powering the camera off and on, or re-attaching the lens. Ensure firmware is up to date.
- **Images are blurry:** Check focus mode (AF-S for still, AF-C for moving subjects). Ensure shutter speed is fast enough for the focal length and subject motion. Verify VR is enabled if needed.
- **No image recorded:** Check if a memory card is inserted and has sufficient space. Ensure the lens cap is removed.
- **Poor low-light performance:** Increase ISO sensitivity (up to native ISO 51,200). Use a lens with a wider aperture. Ensure VR is active.

For more complex issues, refer to the comprehensive user manual available on the Nikon support website or contact Nikon customer service.

6. SPECIFICATIONS

Nikon Z6 Key Specifications

Model Name	Nikon Z6 Full Frame Mirrorless Camera Body
Model Number	1595
Sensor Type	CMOS, Full Frame (35mm)
Effective Still Resolution	24.5 MP
Compatible Mountings	Nikon Z
Image Stabilization	5-axis In-Body Vibration Reduction (IBIS)
Autofocus Points	273-point Phase Detection
Continuous Shooting	Up to 12 fps
Video Resolution	4K UHD 2160p, 1080p/120fps
ISO Sensitivity	Native ISO 100-51,200 (Expanded ISO 51-204,800)
Shutter Speed	30 seconds to 1/8000 seconds
Display	3.2-inch Tilting Touchscreen LCD (2.1M dots)
Viewfinder	Electronic Viewfinder (EVF) with 3.69M dots
Memory Card Slot	1x XQD slot
Connectivity	Bluetooth, Wi-Fi, HDMI (Mini-HDMI), USB
Battery Type	EN-EL15b Rechargeable Li-ion Battery
Item Weight	1.29 Pounds (approx. 585g)
Dimensions (H x W x D)	Approx. 4 x 5.3 x 2.7 inches (body only)
Water Resistance Level	Water Resistant

7. WARRANTY AND SUPPORT

The Nikon Z6 Full Frame Mirrorless Camera Body comes with a **1 Year Parts and Labor Warranty** from the manufacturer, Nikon.

For detailed warranty terms, service requests, or additional support, please visit the official Nikon support website or contact their customer service department. Keep your proof of purchase for warranty claims.

For further information and resources, you may visit the [Nikon Store on Amazon](#).

