

Nikon 1594

Nikon Z7 FX-Format Mirrorless Camera User Manual

Model: 1594

1. INTRODUCTION

The Nikon Z7 is a high-performance FX-format mirrorless camera designed for professional photographers and enthusiasts. It features a revolutionary Z mount, a 45.7MP backside-illuminated image sensor, and advanced autofocus capabilities. This manual provides essential information for setting up, operating, and maintaining your camera.



Figure 1: Nikon Z7 camera body with the NIKKOR Z 24-70mm f/4 S lens attached. The image highlights the camera's front view,

including the lens mount, function buttons (Fn1, Fn2), and the Z7 branding.

2. GETTING STARTED: SETUP

2.1. Unpacking and Contents

Carefully unpack all items from the box. Ensure all components are present:

- Z7 FX-format Mirrorless 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
- NIKKOR Z 24-70mm f/4 S Lens
- LC-72B 72mm Snap-On Front Lens Cap
- LF-N1 Rear Lens Cap
- HB-85 Bayonet Hood
- CL-C1 Lens Case

2.2. Charging the Battery

Insert the EN-EL15b battery into the MH-25a charger. Plug the charger into a power outlet. The charging indicator light will blink while charging and turn steady when complete. A full charge takes approximately 2 hours and 35 minutes.

2.3. Attaching the Lens

1. Remove the body cap from the camera and the rear lens cap from the NIKKOR Z 24-70mm f/4 S 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.

2.4. Inserting a Memory Card

The Nikon Z7 uses XQD memory cards. Open the memory card slot cover and insert the XQD card with the label facing the correct direction until it clicks into place. Close the cover securely.

2.5. Initial Power On

After inserting the charged battery and memory card, turn the camera on using the power switch. Follow the on-screen prompts to set the date, time, and language.

3. OPERATING THE CAMERA

3.1. Basic Shooting Modes

The Z7 offers various exposure control modes:

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

3.2. Autofocus System

The Z7 features a 493-point on-sensor phase-detect AF system. Key autofocus modes include Single-Servo AF (AF-S) for still subjects, Continuous-Servo AF (AF-C) for moving subjects, and Manual Focus (MF). The camera also supports Eye Detection AF for precise focus on subjects' eyes.

3.3. Video Recording

The Z7 can record 4K UHD (2160p) video. To start recording, set the mode dial to video mode and press the movie-record button. The camera supports up to 30 minutes of continuous recording.

3.4. Connectivity

The camera includes built-in Wi-Fi and Bluetooth for seamless connection to smart devices via the SnapBridge app. This allows for remote control, image transfer, and location data acquisition.

4. MAINTENANCE

4.1. Cleaning the Camera and Lens

- Use a soft, lint-free cloth to wipe the camera body.
- For the lens, use a lens brush to remove dust, then a lens cleaning solution and microfiber cloth.
- Avoid touching the sensor directly. If sensor cleaning is required, use a blower brush or consult a professional service.

4.2. Battery Care

Store batteries in a cool, dry place. Recharge them regularly, even if not in use, to maintain battery health. Avoid fully discharging batteries for extended periods.

4.3. Storage

When not in use, store the camera in a dry, well-ventilated area, away from direct sunlight and extreme temperatures. Use lens and body caps to protect the sensor and lens elements.

5. TROUBLESHOOTING

5.1. Common Issues and Solutions

Problem	Possible Cause / Solution
Camera does not power on.	Ensure battery is charged and correctly inserted. Check battery contacts for cleanliness.
Images are blurry.	Check focus mode and ensure lens is properly attached. Use a faster shutter speed or tripod in low light.

Problem	Possible Cause / Solution
Memory card error.	Reinsert the card. Try a different compatible XQD card. Format the card (this will erase all data).
Wi-Fi/Bluetooth connection issues.	Ensure SnapBridge app is updated. Restart camera and smart device. Check camera's network settings.

6. SPECIFICATIONS

Feature	Detail
Brand	Nikon
Model Name	Z 7
Model Number	1594
Effective Still Resolution	45.7 MP
Photo Sensor Size	Full Frame (35mm)
Image Stabilization	Sensor-shift
Lens Mount	Nikon Z
Included Lens	NIKKOR Z 24-70mm f/4 S
Autofocus Points	493
Video Resolution	4K UHD 2160p
Screen Size	3.2 Inches
Display Type	Tilting LCD Touch Screen
Memory Slots	1 (XQD)
Connectivity	Bluetooth, Wi-Fi, 3.5mm audio, HDMI, USB
Item Weight	1.29 Pounds (Body Only)

7. WARRANTY INFORMATION

The Nikon Z7 FX-Format Mirrorless Camera comes with a **one-year limited warranty** from the manufacturer. Please retain your proof of purchase for warranty claims. For full details on warranty terms and conditions, refer to the official Nikon warranty documentation included with your product or visit the Nikon support website.

8. SUPPORT AND RESOURCES

For further assistance, detailed instructions, or technical support, please refer to the following resources:

- **Official User Manual (PDF):** [Download PDF Manual](#)
- **Nikon Support Website:** Visit the official Nikon website for FAQs, software downloads, and service center

information.

- **Customer Service:** Contact Nikon customer support directly for personalized assistance.