

Nikon Z6 III

Nikon Z6 III Mirrorless Camera User Manual

Model: Z6 III (1890-AG2)

1. INTRODUCTION

This manual provides essential instructions for the setup, operation, and maintenance of your Nikon Z6 III Mirrorless Camera. The Nikon Z6 III is designed for advanced photography and filmmaking, featuring a 24.5MP partially-stacked CMOS sensor and the EXPEED 7 image processor. It supports internal 6K60 and 4K120 video recording, a 493-point phase-detection autofocus system, a 5.76M-dot electronic viewfinder (EVF), and a four-axis tilting touchscreen LCD. Please read this manual thoroughly to ensure proper use and to maximize the camera's capabilities.

2. SETUP GUIDE

2.1. Unboxing and Package Contents

Carefully unpack your Nikon Z6 III camera and verify that all included items are present. The bundle typically includes:

- Nikon Z6 III Mirrorless Camera Body
- Nikon FTZ II Mount Adapter
- Nikon EN-EL15c Rechargeable Battery
- 64GB SF-M Tough Series UHS-II SDXC Memory Card
- Wireless Remote Shutter Release
- USB-A to USB-C cable
- HDMI Cable
- Hand Strap
- Lens Cap Keeper
- Cleaning Kit
- Memory Card Wallet
- USB Card Reader (SD/microSD)

- Video Tripod 72-Inch
- Flexible Vlogging Tripod
- Travel Bag



Figure 1: Nikon Z6 III Mirrorless Camera bundle kit, showing the camera body, various accessories including lenses, batteries, memory cards, and tripods.

2.2. Battery Installation and Charging

Insert the EN-EL15c battery into the battery compartment located at the bottom of the camera. Ensure it clicks into place. Charge the battery using the provided USB-A to USB-C cable connected to a compatible USB power source. The charging indicator light will show the charging status.

2.3. Memory Card Insertion

The Nikon Z6 III supports SDXC memory cards. Open the memory card slot cover on the side of the camera. Insert the 64GB SF-M Tough Series UHS-II SDXC card with the label facing the correct direction until it clicks into place. Close the cover securely.



Figure 2: Side view of the Nikon Z6 III camera body with the memory card slot cover open, revealing two card slots.



Figure 3: Rear view of the Nikon Z6 III camera with the memory card slot open, showing two memory cards (one SDXC, one CFexpress) inserted.

2.4. Attaching a Lens

Align the mounting mark on the lens with the mounting mark on the camera body. Rotate the lens clockwise until it clicks into place. If using an F-mount NIKKOR lens, first attach the Nikon FTZ II Mount Adapter to the camera body, then attach the F-mount lens to the adapter.



Figure 4: Front view of the Nikon Z6 III camera body, showing the Z-mount and function buttons.

2.5. Initial Power-On and Basic Settings

Turn the camera on using the power switch. Follow the on-screen prompts to set the date, time, and language. Refer to the camera's on-screen menu for further customization of settings.

3. OPERATING INSTRUCTIONS

3.1. Camera Controls Overview

Familiarize yourself with the camera's buttons, dials, and touchscreen interface for efficient operation.



Figure 5: Rear view of the Nikon Z6 III camera, displaying the electronic viewfinder, tilting touchscreen LCD, and various control buttons.



Figure 6: Top view of the Nikon Z6 III camera, showing the mode dial, command dials, shutter button, and ISO button.

3.2. Basic Photography Modes

The mode dial allows selection of various shooting modes:

- **P (Programmed Auto):** Camera sets shutter speed and aperture for optimal exposure.
- **S (Shutter-Priority Auto):** You set shutter speed, camera sets aperture.

- **A (Aperture-Priority Auto):** You set aperture, camera sets shutter speed.
- **M (Manual):** You control both shutter speed and aperture.

3.3. Autofocus System

The Z6 III features a 493-point phase-detection AF system. Select your desired AF mode (e.g., Single-point AF, Dynamic-area AF, Wide-area AF, Auto-area AF) and AF-area mode through the camera's menu or dedicated buttons. The camera also includes advanced subject detection capabilities.

3.4. Video Recording

To record video, switch to video mode. The Z6 III supports 6K60 and 4K120 recording, including N-RAW and ProRes RAW 12-bit internal formats. Adjust video settings such as resolution, frame rate, and picture control via the video menu. Press the dedicated video record button to start and stop recording.

3.5. Image Playback

Press the playback button to review captured photos and videos. Use the command dials or touchscreen to navigate through images, zoom in/out, and view shooting information.



Figure 7: Rear view of the Nikon Z6 III camera with an image displayed on its tilting LCD screen, demonstrating playback functionality.

3.6. Connectivity

The camera features USB-C and HDMI ports for data transfer and external display. It also includes Wi-Fi for wireless image transfer and remote control via a compatible smart device application.



Figure 8: Side view of the Nikon Z6 III camera body, highlighting the various connectivity ports including USB-C, HDMI, and microphone/headphone jacks.

4. MAINTENANCE

4.1. Cleaning the Camera

Use a soft, lint-free cloth to clean the camera body. For the sensor, use a blower brush or consult a professional cleaning service. Avoid touching the sensor directly. Clean lenses with a lens cleaning solution and a microfiber cloth.

4.2. Battery Care

Store batteries in a cool, dry place. Avoid fully discharging lithium-ion batteries for extended periods. If storing for a long time, charge them to about 50% capacity.

4.3. Storage

When not in use, store the camera in a dry, dust-free environment, preferably in a camera bag. Remove the battery if the camera will not be used for an extended period.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Nikon Z6 III.

- **Camera Not Powering On:** Ensure the battery is fully charged and correctly inserted. Check if the battery contacts are clean.
- **Memory Card Error:** Reinsert the memory card. If the error persists, try a different compatible memory card. Ensure the card is not locked.
- **Autofocus Not Working:** Check the AF mode settings. Ensure there is sufficient light and contrast in the scene. Clean the lens contacts.
- **Images Are Blurry:** Verify shutter speed is appropriate for the shooting conditions. Check lens focus and image stabilization settings.

- **Video Recording Stops Unexpectedly:** Ensure the memory card has sufficient free space and a high enough write speed (UHS-II V60 or higher recommended for 6K/4K).

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

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Nikon Z6III
Model Number	1890-AG2
Sensor Type	24.5MP Partially-Stacked CMOS
Image Processor	EXPEED 7
Lens Mount	Nikon Z
Image Stabilization	Sensor-shift
Autofocus Points	493-point Phase Detection
Video Resolution	6K60, 4K120
Internal Video Formats	N-RAW, ProRes RAW 12-bit, ProRes, H.265 10-Bit
Continuous Shooting	Up to 20 fps (RAW), 60 fps (Full-frame JPEG), 120 fps (DX crop)
ISO Range (Expanded)	50
Viewfinder	5.76M-dot Electronic Viewfinder
Display	3.2-inch Tilting Touchscreen LCD (205479 dots)
Memory Card Slots	SDXC (UHS-II compatible)
Connectivity	USB-C, HDMI, Wi-Fi
Battery Type	Lithium Ion (EN-EL15c)
Weight	Approximately 5.4 Pounds (with battery and memory card)
Dimensions (H x W x D)	Approximately 4 inches (height)

7. WARRANTY INFORMATION

This Nikon Z6 III Mirrorless Camera comes with a **90-day limited warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty documentation included with your product or visit the official Nikon support website.

8. CUSTOMER SUPPORT

For further assistance, technical support, or service inquiries, please visit the official Nikon support website or contact their customer service department. You can find contact information and additional resources on the

