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Nikon Z50

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Nikon Z50 + FTZ Mirrorless Camera Kit Instruction Manual

Model: Z50, VOA050K003

1. OVERVIEW

The Nikon Z50 is a DX-format mirrorless camera designed for exceptional image quality and versatility. This kit includes the Z50 camera body and the FTZ Mount Adapter, allowing compatibility with a wide range of NIKKOR F-mount lenses. The Z50 features a 20.9 MP DX-format CMOS sensor, a fast EXPEED 6 image processor, and a 209-point hybrid autofocus system. It is capable of recording 4K UHD movies at 30p and offers excellent low-light performance with an ISO range of 100–51200.



Figure 1: Nikon Z50 Mirrorless Camera with FTZ Mount Adapter.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully unpack all components from the box. Verify that the following items are present: Nikon Z50 camera body, FTZ Mount Adapter, EN-EL25 Rechargeable Li-ion Battery, MH-32 Battery Charger, USB Cable, Camera Strap, Body Cap, and Rear Lens Cap (for FTZ adapter). Inspect all items for any signs of damage.

2.2 Attaching the FTZ Mount Adapter

The FTZ Mount Adapter allows you to use NIKKOR F-mount lenses with your Z50 camera.

1. Remove the body cap from the camera and the rear cap from the FTZ adapter.
2. Align the mounting marks on the FTZ adapter with the mounting mark on the camera body.
3. Rotate the adapter counter-clockwise until it clicks into place.
4. To attach an F-mount lens, align the mounting mark on the lens with the mounting mark on the FTZ adapter and rotate the lens until it clicks.



Figure 2: Nikon FTZ Mount Adapter.

2.3 Inserting the Battery and Memory Card

Ensure the camera is turned off before inserting or removing the battery or memory card.

1. Open the battery chamber cover located at the bottom of the camera.
2. Insert the EN-EL25 battery with the contacts facing the correct direction, pushing it in until it locks.
3. Open the memory card slot cover. Insert an SD card (Class 10 or UHS Class 1 recommended) with the label facing the back of the camera until it clicks.

4. Close both covers securely.



Figure 3: Front view of the Nikon Z50 camera body, showing the lens mount and function buttons.

Note: The camera's battery compartment and memory card slot are typically located on the bottom and side, respectively. Refer to the camera's on-screen guide for specific visual instructions upon first power-on.

3. OPERATION

3.1 Powering On and Basic Settings

Turn the camera on using the power switch. The first time you power on, you may be prompted to set the date, time, and language. Follow the on-screen instructions.

3.2 Shooting Modes

The Z50 offers various shooting modes accessible via the mode dial:

- **Auto Mode:** Camera automatically adjusts settings for optimal results.
- **P (Program Auto):** Camera sets shutter speed and aperture for optimal exposure; user can shift the program.
- **S (Shutter-Priority Auto):** User sets shutter speed, camera sets aperture. Ideal for controlling motion blur.

- **A (Aperture-Priority Auto):** User sets aperture, camera sets shutter speed. Ideal for controlling depth of field.
- **M (Manual):** User controls both shutter speed and aperture.
- **Scene Modes:** Pre-set modes for specific situations (e.g., Portrait, Landscape).
- **Special Effects Modes:** Apply creative effects to photos and videos.

3.3 Autofocus System

The Z50 features a 209-point hybrid autofocus system, combining phase-detection and contrast-detection AF for fast and accurate focusing.

- **AF-S (Single-servo AF):** For stationary subjects. Focus locks when the shutter-release button is pressed halfway.
- **AF-C (Continuous-servo AF):** For moving subjects. Camera continuously adjusts focus while the shutter-release button is pressed halfway.
- **AF-F (Full-time AF):** For video recording. Camera continuously focuses on the subject.
- **Manual Focus (M):** For precise manual control.



Figure 4: Nikon Z50 camera with a mounted lens, ready for operation.

3.4 Video Recording

The Z50 supports 4K UHD (3840 x 2160) video recording at 30p, 25p, or 24p, and Full HD (1920 x 1080) at up to 120p for slow-motion effects.

1. Set the photo/video selector switch to the video camera icon.
2. Press the red movie-record button to start and stop recording.
3. Adjust video settings (resolution, frame rate, picture control) via the camera menu.



Figure 5: Nikon Z50 camera demonstrating its vari-angle LCD screen, useful for vlogging and unique shooting angles.

3.5 Connectivity

The Z50 features built-in Wi-Fi and Bluetooth for wireless connection to smart devices using the Nikon SnapBridge app. This allows for remote control and easy transfer of images. The camera also has a USB port for wired connections.

4. MAINTENANCE

4.1 Cleaning the Camera and Lens

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, lightly dampen the cloth with distilled water. Avoid using organic solvents.

- **Lens and Viewfinder:** Use a blower brush to remove dust. For smudges, use a lens cleaning solution and a clean, soft lens cloth. Wipe gently in a circular motion from the center outwards.
- **Image Sensor:** The Z50 has an image sensor cleaning function. Access it through the setup menu. For persistent dust, consult a Nikon service center.

4.2 Battery Care

- Charge the battery fully before first use.
- Store batteries in a cool, dry place when not in use.
- Avoid exposing batteries to extreme temperatures.
- If the battery will not be used for an extended period, charge it at least once every six months.

4.3 Storage

When storing the camera for long periods, remove the battery and memory card. Store the camera in a dry, well-ventilated area, away from direct sunlight and high humidity. Use desiccant packets if storing in humid environments.

5. TROUBLESHOOTING

Problem	Possible Cause / Solution
Camera does not turn on.	Battery is depleted or incorrectly inserted. Ensure battery is charged and inserted correctly.
Images are blurry.	Incorrect focus mode, insufficient light, or camera shake. Check focus settings, increase ISO, or use a tripod.
"Card Error" message.	Memory card is full, corrupted, or incompatible. Try a different card, format the card (this will erase all data), or ensure it's a supported type.
No autofocus with F-mount lenses.	Some older F-mount lenses may not support autofocus with the FTZ adapter. Check lens compatibility. Lenses without a built-in motor (AF-D type) will require manual focus.
Dust spots on images.	Dust on the image sensor. Use the camera's sensor cleaning function or consult a Nikon service center for professional cleaning.

For more detailed troubleshooting, refer to the full user manual available on the Nikon support website.

6. SPECIFICATIONS

Feature	Detail
Model Name	Nikon Z50
Model Number	VOA050K003
Sensor Type	DX-format (APS-C) CMOS
Effective Still Resolution	20.9 MP
Image Processor	EXPEED 6
Compatible Mountings	Nikon Z (FTZ adapter for F-mount)
Autofocus Points	209 (Hybrid AF)
ISO Range	100-51200 (expandable)
Video Resolution	4K UHD 2160p (30p/25p/24p), Full HD 1080p (up to 120p)
Continuous Shooting Speed	Up to 11 FPS
Shutter Speed	1/4000 to 30 seconds (mechanical), 1/8000 to 30 seconds (electronic)
Screen Size	3.2 Inches (Vari-angle LCD, Touch Screen)
Viewfinder	Electronic Viewfinder (EVF)
Connectivity	Wi-Fi, Bluetooth, USB
Storage Media	SD Card (SDHC, SDXC compatible)
Item Weight	0.45 Kilograms (body only)

7. WARRANTY AND SUPPORT

7.1 Manufacturer's Warranty

The Nikon Z50 + FTZ Mirrorless Camera Kit is covered by Nikon's limited warranty. The terms and duration of the warranty may vary by region. Please refer to the warranty card included with your product or visit the official Nikon website for detailed warranty information. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, service, or additional information, please contact Nikon customer support. You can find contact details and frequently asked questions on the official Nikon support

website: [Nikon Support](#).

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Related Documents - Z50

	Z50 Carburetor Product Manual A comprehensive installation, adjustment, and maintenance guide for the Z50 Carburetor, covering tools, safety procedures, installation steps, and tuning.
	Nikon Z5 Fotocamera Digitale: Guida di Riferimento Ufficiale Guida di riferimento completa per la fotocamera digitale Nikon Z5. Scopri come utilizzare tutte le funzioni, impostazioni e modalità per scattare foto e video professionali con la tua Nikon Z5.
	Nikon Z50 II Camera User Manual and Warranty Information Comprehensive user guide for the Nikon Z50 II camera, covering initial setup, basic operations, photography and videography, playback, troubleshooting, and warranty information. Includes safety precautions and care instructions.
	Nikon Z6III Digital Camera Reference Guide Comprehensive reference guide for the Nikon Z6III digital camera, covering setup, shooting settings, video recording, playback, and menu navigation.
	Nikon Z 8 User's Manual: Getting Started and Operation Guide Explore the Nikon Z 8 digital camera with this comprehensive user's manual. Learn about setup, basic photography, video recording, safety precautions, and technical specifications.
	Nikon Z 8 Digital Camera Reference Guide Comprehensive reference guide for the Nikon Z 8 digital camera. Learn about setup, shooting settings, menu navigation, video recording, and troubleshooting.

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