

[Manuals.plus](#) /

> [Sony](#) /

> Sony a7 IV Full Frame Mirrorless Camera User Manual

Sony ILCE-7M4/B

Sony a7 IV Full Frame Mirrorless Camera User Manual

Model: ILCE-7M4/B

1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your Sony a7 IV Full Frame Mirrorless Camera. The a7 IV is designed for both still photography and video production, featuring a 33MP Exmor R sensor, BIONZ XR processor, and advanced autofocus capabilities.



Figure 1.1: Sony a7 IV Camera Body

Key Features:

- 33MP full-frame Exmor R back-illuminated CMOS sensor for high-resolution imaging.
- Next-generation BIONZ XR image processing engine for enhanced speed and image quality.
- Up to 4K 60p 10-bit 4:2:2 video recording with full pixel readout.
- Real-time Eye-AF for humans, animals, and birds in both photo and movie modes.
- 5-axis in-body image stabilization for steady handheld shooting.
- 759 phase detection AF points covering 94% of the image area.
- Dual card slots supporting UHS-II SD and CFexpress Type A.
- Fast Wi-Fi connectivity (2.4GHz/5GHz) and 10Gbps SuperSpeed USB 3.2.

2. WHAT'S IN THE BOX

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.



Figure 2.1: Sony a7 IV Camera Bundle Contents

- Sony a7 IV Full Frame Mirrorless Camera Body (ILCE-7M4/B)
- Body Cap (ALC-B1EM)
- Eyepiece Cup (FDA-EP18)
- Multi Interface Shoe Cap (FA-SHC1M)
- Rechargeable Battery (NP-FZ100)
- USB Charger (AC-UUD12)
- Shoulder Strap
- USB-A to USB-C Cable (USB 3.2)
- Deco Gear Photography Camera Bag Travel Case
- 50" Adjustable & Folding Professional Tripod
- Replacement Compatible Battery for NP-FZ100
- External Dual Charger
- 12" Tabletop Vlogging Tripod/Grip 2 in 1
- PC Software Suite (piZap, Photo Commander, Optimizer 7, GRFX Studio, PixTeller, Movie Studio)
- Lexar 2 Pack of 1066x 64GB SDXC UHS-I Cards (128GB Total)
- Dust Blower
- Lens/Sensor Brush Pen
- Screen Protectors
- 2 Pack Microfiber Cloths
- Lens Cap Keeper
- Card Reader
- Card Case

3. SETUP

3.1. Battery Installation and Charging

The camera uses a rechargeable NP-FZ100 battery. Ensure the battery is fully charged before first use.

1. Open the battery cover located at the bottom of the camera.
2. Insert the NP-FZ100 battery with the arrow pointing towards the camera and the orange lock lever depressed. Push until it clicks into place.
3. Close the battery cover securely.
4. To charge, connect the camera to the USB charger using the supplied USB-C cable, or use the external dual charger for faster charging of two batteries simultaneously. The charging indicator will illuminate.



Figure 3.1: Camera Bottom with Battery Compartment

3.2. Memory Card Insertion

The a7 IV supports both UHS-II SD cards and CFexpress Type A cards. It features dual card slots.

1. Locate the memory card slot cover on the side of the camera.
2. Open the cover.
3. Insert the memory card(s) into the appropriate slot(s) with the correct orientation until they click into place.
4. Close the memory card slot cover securely.



Figure 3.2: Camera Side with Memory Card Slot

3.3. Attaching a Lens

The Sony a7 IV uses the Sony E-mount system. Ensure the camera is powered off before attaching or detaching a lens.

1. Remove the body cap from the camera and the rear lens cap from the lens.
2. Align the white index mark on the lens with the white index mark on the camera body.
3. Mount the lens by rotating it clockwise until it clicks into place.

3.4. Initial Power On and Basic Settings

After installing the battery and memory card, power on the camera using the ON/OFF switch. Follow the on-screen prompts to set the date, time, and language.

4. OPERATING THE CAMERA

4.1. Camera Controls Overview

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



Figure 4.1: Rear Controls



Figure 4.2: Top Controls



Figure 4.3: Side Ports

4.2. Photography Modes

The mode dial on the top of the camera allows you to select various shooting modes:

- **AUTO:** Camera automatically adjusts settings for optimal results.
- **P (Program Auto):** Camera sets aperture and shutter speed, while you control other settings.
- **A (Aperture Priority):** You set the aperture, and the camera sets the shutter speed.
- **S (Shutter Priority):** You set the shutter speed, and the camera sets the aperture.
- **M (Manual Exposure):** You control both aperture and shutter speed.

- **Movie:** Dedicated mode for video recording.

4.3. Autofocus System

The a7 IV features an advanced autofocus system with Real-time Eye-AF for precise tracking of human, animal, and bird eyes. It utilizes 759 phase detection AF points covering 94% of the image area.



Figure 4.4: Real-time Eye-AF in operation

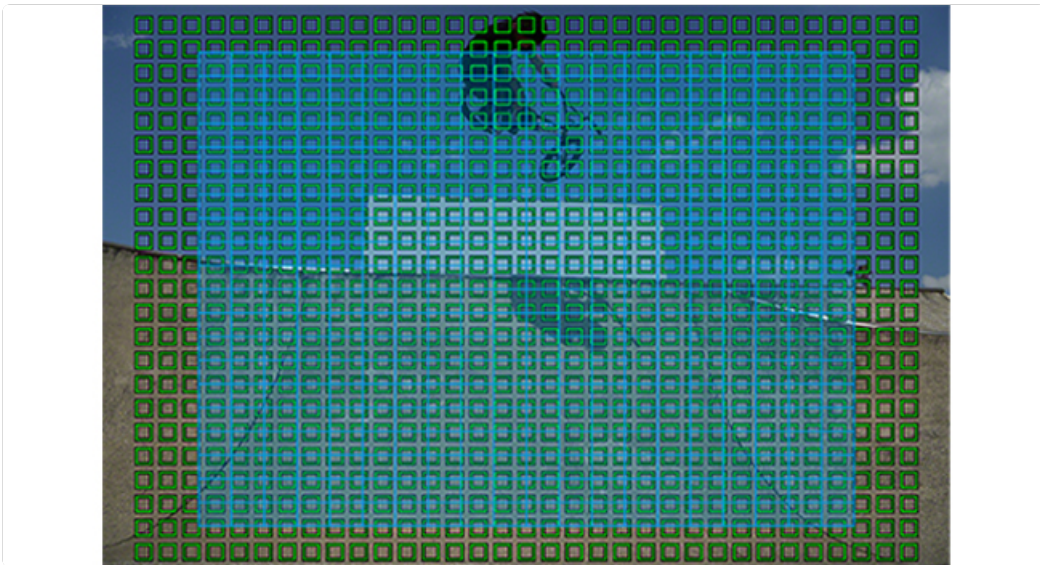


Figure 4.5: Autofocus Point Coverage

4.4. Video Recording

The a7 IV offers robust video capabilities, including 4K 60p 10-bit 4:2:2 recording. It supports S-Cinetone, S-Log3, and HLG profiles for professional color grading flexibility. There is no 29m 59s continuous recording limit.

4.5. Image Stabilization

The camera features 5-axis in-body image stabilization, which compensates for various types of camera shake, allowing for sharper images and smoother video even when shooting handheld.

4.6. Connectivity

The a7 IV supports fast wireless transfer via 2.4GHz/5GHz Wi-Fi and wired transfer via its 10Gbps SuperSpeed USB 3.2 port. It also supports UVC/UAC live streaming up to 4K 15p/1080 60p with internal recording.

5. MAINTENANCE

5.1. Cleaning the Camera

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, slightly dampen the cloth with water or a mild cleaning solution.
- **Lens and Sensor:** Use a lens brush or a dust blower to remove dust. For smudges, use a specialized lens cleaning solution and microfiber cloth. Sensor cleaning should be done with extreme care, preferably by a professional, or using a sensor cleaning kit according to instructions.
- **LCD Screen:** Gently wipe with a clean, soft cloth. Avoid pressing hard.

5.2. Battery Care

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

5.3. Storage

When storing the camera for extended periods, remove the battery and memory card. Store the camera in a dry, dust-free environment, ideally in a camera bag or a sealed container with desiccant to prevent mold and mildew.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Sony a7 IV camera.

6.1. Common Issues and Solutions

- **Camera does not power on:** Ensure the battery is fully charged and correctly inserted. Check if the battery terminals are clean.
- **Images are blurry:** Check focus mode and ensure the lens is properly attached. Verify shutter speed is fast enough for the shooting conditions or enable image stabilization.
- **Memory card error:** Ensure the memory card is inserted correctly. Try formatting the card (this will erase all data). If the issue persists, try a different memory card.
- **Camera overheating:** Prolonged video recording or continuous shooting in high ambient temperatures can cause the camera to heat up. If an overheating warning appears, stop recording and allow the camera to cool down.
- **Wi-Fi connection issues:** Ensure the camera's Wi-Fi is enabled and you are within range of the access

point. Re-enter network credentials if necessary.

6.2. Resetting Camera Settings

If you experience persistent issues, you may consider resetting the camera settings to their factory defaults. Refer to the camera's on-screen menu for the