Sony ILCE7RM3/B

Sony a7R III Mirrorless Camera Instruction Manual

Model: ILCE7RM3/B

1. INTRODUCTION

The Sony a7R III (Model: ILCE7RM3/B) is a high-resolution full-frame mirrorless digital camera designed for advanced photography and videography. It features a 42.4 MP back-illuminated Exmor R CMOS image sensor, capable of impressive shooting speeds up to 10 frames per second (fps) with full autofocus (AF) and auto-exposure (AE) tracking. This camera also delivers high-quality 4K HDR video, a wide 15-stop dynamic range, and high sensitivity with reduced noise. It is compatible with Sony E-mount lenses.

Figure 1: Front view of the Sony a7R III Mirrorless Camera, showcasing the E-mount lens system.

2. Setup

2.1. What's in the Box

- Camera Body
- Rechargeable Battery
- Cable Protector
- AC Adaptor
- Battery Charger
- Shoulder Strap
- Body Cap
- Accessory Shoe Cap
- Eyepiece Cup
- Micro USB Cable

2.2. Initial Setup

1. **Charge the Battery:** Use the supplied battery charger and AC adaptor to fully charge the rechargeable battery before first use.
2. **Insert Memory Card:** Open the memory card slot cover and insert compatible SD cards (UHS Speed Class 3 (U3) recommended for 4K video) into the designated slots. The camera supports two memory cards.
3. **Attach Lens:** Align the mounting index on the lens with the index on the camera body and rotate the lens clockwise until it clicks into place.
4. **Attach Shoulder Strap:** Securely attach the shoulder strap to the camera's strap lugs.

Figure 2: Side view of the Sony a7R III, highlighting the comfortable grip and the memory card/battery access.

3. Operating the Camera

3.1. Camera Controls

The a7R III features intuitive controls for quick adjustments. Key controls include:

- **Mode Dial:** Located on the top plate, this dial allows selection of various shooting modes (AUTO, Programmed AE, Aperture Priority, Shutter-speed Priority, Manual, Movie modes).
- **Exposure Compensation Dial:** Adjusts exposure levels.
- **AF-ON Button:** Dedicated button for initiating autofocus.
- **Fn (Function) Button:** Provides quick access to frequently used settings.
- **ISO Button:** Adjusts ISO sensitivity.
- **Custom Buttons (C1-C4):** Customizable buttons for assigning preferred functions.

Figure 3: Top view of the Sony a7R III, illustrating the mode dial, exposure compensation dial, and custom buttons.

3.2. Display and Viewfinder

- **Tilting LCD Screen:** The 3-inch LCD screen can be tilted for comfortable shooting from various angles, including low-angle and overhead shots.
- **Electronic Viewfinder (EVF):** Provides a clear, real-time view of your scene with shooting information.

Figure 4: Back view of the Sony a7R III, displaying the tilting LCD screen and rear controls.

3.3. Autofocus System

The a7R III features a fast and accurate autofocus system with 399 phase-detection AF points and 425 contrast-detection AF points. Key AF features include:

- **Eye AF:** Advanced Eye AF for precise focus on human and animal eyes.
- **AF Tracking:** Reliable tracking of moving subjects.
- **Focus Mode:** Options include Automatic AF (AF-A), Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), and Manual Focus (MF).

3.4. Still Photography

- **High Resolution:** Capture detailed 42.4 MP images.
- **Continuous Shooting:** Up to 10 fps with AF/AE tracking.
- **File Formats:** Supports RAW and JPEG.
- **Pixel Shift Multi Shooting:** Combines multiple images for ultra-high resolution (requires external software).

3.5. Video Recording

The a7R III is capable of recording high-quality video:

- **4K HDR Video:** Records 4K video with Hybrid Log-Gamma (HLG) for instant HDR workflow.
- **Full HD Slow Motion:** Records Full HD at up to 120 fps.
- **Video Output:** Micro-HDMI for external monitoring.

Your browser does not support the video tag.
Video 1: Overview of the Sony a7R III's features and capabilities.

Your browser does not support the video tag.
Video 2: Demonstrating 4K HDR video capabilities of the Sony a7R III.

4. MAINTENANCE

4.1. Cleaning

- **Camera Body:** Wipe the camera body with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth and then dry thoroughly.
- **Lens:** Use a lens brush to remove dust, then gently wipe with a microfiber lens cloth. For smudges, use a lens cleaning solution applied to the cloth, not directly to the lens.
- **Sensor:** For sensor cleaning, it is recommended to use a professional service or a specialized sensor cleaning kit with extreme care.
- **LCD Screen:** Gently wipe with a soft, dry microfiber cloth.

4.2. Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging batteries regularly to prolong their lifespan.
- Charge batteries fully before extended shooting sessions.

5. TROUBLESHOOTING

If you encounter issues with your Sony a7R III, consider the following common solutions:

- **Camera does not turn on:** Ensure the battery is fully charged and correctly inserted.
- **Images are blurry:** Check focus mode, ensure proper lens attachment, and verify shutter speed is appropriate for the scene.
- **Memory card error:** Reinsert the memory card, try a different card, or format the card (backing up data first).
- **Video recording stops unexpectedly:** Ensure you are using a high-speed memory card (UHS-I U3 or faster) and that the camera's internal temperature is not too high.
- **No sound in video:** Check microphone settings and ensure an external microphone (if used) is properly connected.

For more detailed troubleshooting, refer to the comprehensive user manual available on the Sony support website.
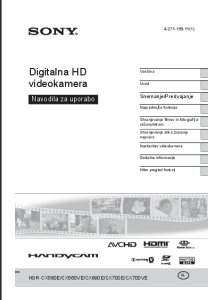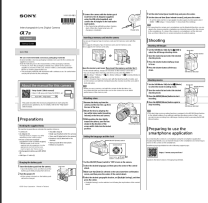
6. SPECIFICATIONS

Feature	Detail
Model Number	ILCE7RM3/B
Sensor Type	42.4 MP Full Frame (35mm) Exmor R CMOS
Lens Mount	Sony E-mount
Image Stabilization	5-axis in-body (Dynamic)
Autofocus Points	399 Phase-detection, 425 Contrast-detection
Continuous Shooting	Up to 10 fps with AF/AE tracking
Video Resolution	4K HDR (3840x2160), FHD 1080p (up to 120 fps)
ISO Range	50-102400 (Expanded)
Screen Size	3-inch Tilting LCD (1,440,000 dots)
Viewfinder	Electronic
Memory Slots	2 (UHS-II compatible)
Connectivity	Wi-Fi, Bluetooth, HDMI, NFC, USB 3.0
Item Weight	1.45 Pounds

7. WARRANTY AND SUPPORT

The Sony a7R III comes with a manufacturer's warranty. For specific warranty terms, conditions, and registration, please refer to the documentation included with your product or visit the official Sony support website. Online resources, firmware updates, and additional support information are also available on the Sony website.

Related Documents - ILCE7RM3/B

[Sony Digitalna HD Videokamera Navodila za uporabo](#)
Obsežen uporabniški priročnik za digitalne HD videokamere Sony Handycam, ki pokriva namestitev, snemanje, predvajanje, upravljanje podatkov, odpravljanje težav in tehnične specifikacije za modele kot so HDR-CX560E, HDR-CX560VE, HDR-CX690E, HDR-CX700E, HDR-CX700VE.

[Sony Digital HD Video Camera Recorder Operating Guide](#)
This operating guide provides comprehensive instructions for Sony Digital HD Video Camera Recorders, including models HDR-CX240, HDR-CX240E, HDR-PJ240, HDR-PJ240E, HDR-PJ270, HDR-PJ270E, and HDR-PJ275. It covers setup, safety, recording, playback, saving images, Wi-Fi connectivity, smartphone integration, customization, precautions, specifications, and parts identification.

[Sony HDR-CX/PJ Series Digital Video Camera Recorder Service Manual](#)
This document is the service manual (Version 1.1, September 2013) for Sony HDR-CX and HDR-PJ series digital video camera recorders. It provides detailed exploded views, part identification, and service notes for various models, including projector and non-projector types.

[Sony α7 IV (ILCE-7M4) Startup Guide & Manual](#)
Get started with the Sony α7 IV (ILCE-7M4) full-frame mirrorless camera. This startup guide and manual covers setup, basic shooting, smartphone connectivity, and advanced features for photographers and videographers.

[Sony Handycam HDR-XR100/XR101/XR200/XR200V Operating Guide](#)
Comprehensive operating guide for Sony Handycam digital HD video camera recorders, models HDR-XR100, HDR-XR101, HDR-XR200, and HDR-XR200V. Covers setup, recording, playback, saving, and safety instructions.

[Sony Handycam HDR-UX Series Navodila za uporabo](#)

Podrobna navodila za uporabo in vodnik za nastavitve za digitalne videokamere Sony Handycam HDR-UX9E, HDR-UX10E, HDR-UX19E in HDR-UX20E, ki zajemajo snemanje, predvajanje, urejanje in odpravljanje težav.