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Sony ECMB10

Sony ECM-B10 Digital MI Shoe Shotgun Microphone Instruction Manual

Model: ECM-B10

1. Introduction

The Sony ECM-B10 is a compact digital shotgun microphone designed for super-directional audio capture using advanced beamforming technology. It connects directly to compatible Sony cameras via the Multi-Interface (MI) Shoe, eliminating the need for cables and batteries. This manual provides essential information for setting up, operating, and maintaining your microphone to achieve high-quality audio recordings.



Figure 1: Sony ECM-B10 microphone mounted on a compatible camera.

2. What's in the Box

- Sony ECM-B10 Digital MI Shoe Shotgun Microphone
- Fur-type noise-reducing windscreen
- Protector cap for Microphone MI Shoe connector
- Convenient carrying bag for microphone



Figure 2: The ECM-B10 with its fur-type windscreen attached.

3. Setup

1. **Attach the Microphone:** Slide the ECM-B10 into the Multi-Interface (MI) Shoe on your compatible Sony camera. Ensure it clicks securely into place.
2. **Secure the Microphone:** Tighten the locking wheel on the microphone's base to firmly attach it to the camera's MI Shoe.
3. **Power On:** The microphone draws power directly from the camera via the MI Shoe, so no external batteries or cables are required. Turn on your camera, and the microphone will be ready for use.
4. **Attach Windscreen (Optional):** For outdoor recording or in windy conditions, gently slide the fur-type windscreen over the microphone's pickup elements to reduce wind noise.

Figure 3: Attaching the ECM-B10 to the camera's Multi-Interface Shoe.

4. Operating Instructions

The ECM-B10 features intuitive controls on its rear panel, allowing for quick adjustments to suit various recording scenarios.

4.1. Selectable Pickup Patterns

The microphone offers three selectable pickup patterns to optimize audio capture based on your subject's position:

- **Super-directional:** Focuses audio capture on a narrow area directly in front of the camera, suppressing sounds from the sides and rear. Ideal for interviews or vlogging where the subject is directly ahead.
- **Unidirectional:** Captures sound from a wider area in front of the camera while still reducing background noise from the sides and rear. Suitable for capturing multiple subjects in front of the camera.
- **Omnidirectional:** Picks up audio equally from all directions (360 degrees). Best for recording ambient sounds or when you need to capture voices from both in front of and behind the camera.



Figure 4: Rear panel controls for selecting pickup patterns.

4.2. Noise Filters

Enhance audio clarity by utilizing the built-in noise filters:

- **Noise Cut (NC):** Reduces unwanted background noise, such as air conditioner hum or traffic sounds, for clearer speech.
- **Low Cut (LC):** Filters out low-frequency rumble, like wind noise or vibrations, which can often be distracting.

4.3. Audio Level Control

Adjust the audio input level to prevent distortion or ensure adequate volume:

- **AUTO:** The microphone automatically adjusts the audio input level for optimal recording. Recommended for most users.
- **MAN (Manual):** Allows precise manual control over the audio input level using the dedicated dial.

4.4. Digital/Analog Switch

Select the desired audio output format:

- **DIGITAL:** Provides direct digital audio transmission to compatible cameras, ensuring high-quality sound without degradation.
- **ANALOG:** Outputs an analog audio signal, compatible with a wider range of cameras that may not support digital MI Shoe input.

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Video 1: Official Sony ECM-B10 Microphone Feature Video, demonstrating key functionalities and benefits.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the microphone body. Do not use liquid cleaners or solvents.
- **Storage:** Store the microphone in its provided carrying bag when not in use to protect it from dust and scratches.
- **Moisture Protection:** The microphone features a dust and moisture-resistant design. However, it is not guaranteed to be 100% dust and moisture proof. Wipe off any dust or water droplets with a clean, soft, dry cloth before use to prevent interference with recording.
- **Connector Care:** Always use the protector cap for the MI Shoe connector when the microphone is detached from the camera to prevent damage to the contacts.

6. Troubleshooting

- **No Audio Recording:**
  - Ensure the microphone is securely attached to the camera's MI Shoe.
  - Check camera audio settings to ensure external microphone input is enabled.
  - Verify the Digital/Analog switch is set correctly for your camera's compatibility.
- **Poor Audio Quality/Noise:**

- Check the selected pickup pattern to ensure it matches your recording environment.
- Activate Noise Cut (NC) or Low Cut (LC) filters if experiencing background noise or rumble.
- Adjust the Audio Level (MAN) if the sound is too quiet or distorted.
- Use the fur-type windscreen in windy conditions.

- **Microphone Not Recognized:**
  - Ensure your camera model is listed as compatible with the ECM-B10.
  - Clean the MI Shoe contacts on both the camera and microphone if necessary.

7. Specifications

Brand	Sony
Model Name	ECM-B10
Item Model Number	ECMB10
Microphone Form Factor	Shotgun
Connectivity Technology	Multi Interface (MI) Shoe
Power Source	Cable-Free and Battery-Free (via MI Shoe)
Polar Pattern	Super-directional, Unidirectional, Omnidirectional
Signal-to-Noise Ratio	60 dB
Item Weight	73 Grams (2.57 ounces)
Product Dimensions (L x W x H)	1.13 x 3.25 x 3.13 inches
Color	Black
Material	Plastic Or Metal Alloy
Recommended Uses	Streaming, conversations, interviews, vlogging

8. Compatible Devices

The Sony ECM-B10 is compatible with Sony cameras featuring a Multi-Interface (MI) Shoe, including but not limited to:

- Sony Alpha 1, Alpha 9 II, Alpha 7R IV, Alpha 7S III, Alpha 7 IV, Alpha 7C, ZV-E10, Alpha 9
- Former Alpha 7 series, Alpha 6000 series
- PXW-Z90, FX6, FX3, HXR-NX80, MC88
- RX10 series, FDR-AX43, AX700, AX53, AX33

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Video 2: A video showcasing the Sony ECM-B10's compatibility and use cases with various Sony cameras.

9. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your product or visit the official Sony support website. Keep your proof of purchase for any warranty claims.

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