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Shure UniPlex

Shure UniPlex UL4 Professional Lavalier Microphone

INSTRUCTION MANUAL

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1. Introduction

The Shure UniPlex UL4 is a professional-grade lavalier condenser microphone designed for clear and discreet audio capture in spoken word applications and presentations. Featuring a compact 5mm subminiature capsule and a cardioid polar pattern, it effectively focuses on the speaker's voice while minimizing background noise. The integrated Shure Plex cable is engineered for durability and resistance to kinking, ensuring reliable performance.





Figure 1: Shure UniPlex UL4 Professional Lavalier Microphone. This image shows the compact design of the microphone and

2. Package Contents

Verify that all the following items are included in your package:

- Shure UniPlex UL4 Professional Lavalier Microphone (TA4F Connector, Black)
- Integrated Shure Plex Cable
- Mounting Clip
- Snap-fit Windscreen

3. Setup

3.1. Connecting the Microphone

1. **Identify the TA4F Connector:** The UniPlex UL4 features a TA4F (Tiny Audio 4-pin Female) connector. This connector is designed for use with compatible Shure wireless bodypack transmitters or other devices with a TA4M input.
2. **Align and Connect:** Align the TA4F connector with the corresponding TA4M input on your bodypack transmitter or audio interface. Push firmly until it clicks into place, ensuring a secure connection.
3. **Disconnecting:** To disconnect, gently pull back on the release collar of the TA4F connector while pulling the connector away from the input. Do not pull directly on the cable.

3.2. Microphone Placement

Optimal placement of the lavalier microphone is crucial for clear audio capture.

- **Clothing Attachment:** Use the provided mounting clip to attach the microphone to clothing, typically 6-8 inches (15-20 cm) below the chin. Ensure the microphone capsule is facing towards the speaker's mouth.
- **Minimize Clothing Noise:** Position the microphone to avoid rubbing against clothing, jewelry, or other accessories that could create unwanted noise.
- **Windscreen Use:** Attach the snap-fit windscreen when operating in outdoor environments or situations prone to plosives (harsh 'p' and 'b' sounds) to reduce wind noise and breath sounds.

4. Operating the Microphone

4.1. General Use

Once connected and placed, the UniPlex UL4 operates as a standard condenser microphone. Ensure your connected device (e.g., wireless transmitter, audio interface) is powered on and configured correctly for microphone input.

- **Gain Staging:** Adjust the input gain on your connected device to achieve an optimal signal level without clipping. Monitor audio levels carefully.
- **Proximity Effect:** While the cardioid pattern helps, speaking too close to the microphone can still result in an exaggerated bass response (proximity effect). Maintain consistent distance for balanced sound.

4.2. Cardioid Polar Pattern

The UniPlex UL4 features a cardioid polar pattern, which means it is most sensitive to sound coming from the front and significantly rejects sound from the sides and rear. This characteristic is beneficial for:

- **Speech Clarity:** Focusing on the speaker's voice and reducing ambient room noise.
- **Feedback Rejection:** Minimizing the likelihood of audio feedback in live sound environments.

5. Maintenance and Care

Proper care ensures the longevity and optimal performance of your UniPlex UL4 microphone.

- **Cleaning:** Gently wipe the microphone capsule and cable with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the capsule. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the microphone in a clean, dry place, away from extreme temperatures and humidity. Avoid tightly coiling the cable to prevent damage.
- **Cable Care:** The Shure Plex cable is designed to be kink-resistant. However, avoid sharp bends or excessive pulling to maintain its integrity.

6. Troubleshooting

If you encounter issues with your UniPlex UL4 microphone, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No sound or low volume	Incorrect connection Low gain setting Faulty cable/transmitter Microphone capsule obstructed	Ensure TA4F connector is fully seated. Increase gain on the connected device. Test with another cable or transmitter if possible. Check for debris on the microphone capsule.
Distorted audio	Gain set too high (clipping) Microphone too close to sound source	Reduce input gain. Increase distance between microphone and sound source.
Excessive background noise	Improper microphone placement Environmental noise	Adjust placement to minimize clothing rub. Ensure microphone is pointed directly at the sound source. Use windscreens in windy conditions.

7. Technical Specifications

Microphone Form Factor	Lavalier
Polar Pattern	Cardioid
Connector Type	TA4F
Signal-to-Noise Ratio	32 dB
Item Weight	4.8 ounces (approx. 136 grams)
Product Dimensions (L x W x H)	6.1 x 5.6 x 1.75 inches (approx. 15.5 x 14.2 x 4.4 cm)

Material	Plastic
Color	Black
Manufacturer	Shure
Model Name	UniPlex

Note: Specifications are subject to change without notice.

8. Warranty and Support

Shure products are designed for reliability and performance. For detailed warranty information specific to your region and product, please refer to the warranty card included with your purchase or visit the official Shure website.

For technical support, service, or additional product information, please contact Shure customer service or visit their support portal. Contact details can typically be found on the Shure official website:

[Visit Shure Support](#)

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