

Icom Sm 6 User Guide



Thank you for purchasing the **SM-6** DESKTOP MICROPHONE.

The **SM-6** is designed for base station operation with an Icom transceiver. The **SM-6** provides high-quality audio and a flexible, free-bending neck for your convenient operations.

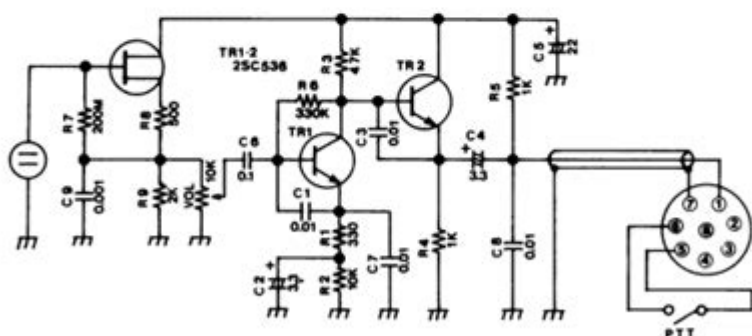
PRE-OPERATION

1. Set the mic gain control located on the bottom of the microphone to the center position.
2. Connect the connector plug to the transceiver mic connector.
3. Keep the soft sponge on the mic element during operations.

OPERATION

1. Push and hold the PTT switch to transmit and release to receive.
2. For continuous transmission, use the PTT lock function:
 - Push the PTT switch and then pull it backwards until "LOCK" appears.
 - Push the switch forward to release the lock.
3. Adjust the mic gain control, if desired.

SCHEMATIC DIAGRAM



Icom Inc.
6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan

Count on us!

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Icom SM 6 User Guide

The Icom SM 6 is a professional-grade dynamic microphone designed for use in various applications, including broadcast, podcasting, and live performances. Its robust construction, excellent audio quality, and user-friendly features make it a popular choice among audio professionals. This user guide aims to provide comprehensive information about the Icom SM 6, covering its specifications, setup instructions, usage tips, and maintenance recommendations.

Specifications of the Icom SM 6

Before diving into the setup and usage of the Icom SM 6, it's crucial to understand its specifications. Here's a breakdown of its key features:

- **Type:** Dynamic Microphone
- **Frequency Response:** 50 Hz - 15 kHz
- **Impedance:** 600 Ohms
- **Sensitivity:** -55 dB (0 dB = 1 V/Pa)
- **Weight:** 400 grams (approx. 0.88 lbs)
- **Connector:** XLR 3-pin
- **Dimensions:** 50 mm x 180 mm (diameter x length)

Understanding these specifications will help users appreciate the capabilities of the Icom SM 6 and how it can fit into their audio setup.

Setup Instructions

Setting up the Icom SM 6 is a straightforward process. Here is a step-by-step guide to ensure that you get the best performance from your microphone.

What You'll Need

Before you start, gather the following items:

- Icom SM 6 Microphone
- Audio Interface or Mixer
- XLR Cable
- Headphones (for monitoring)
- Pop Filter (optional)

Steps to Set Up the Icom SM 6

1. Connect the Microphone:
 - Take the XLR cable and connect one end to the Icom SM 6 microphone.
 - Connect the other end of the XLR cable to your audio interface or mixer.

2. Position the Microphone:

- Place the microphone on a stand or hold it comfortably in your hand.
- If you're using a pop filter, position it about 6 inches in front of the microphone to reduce plosive sounds.

3. Adjust Input Levels:

- Turn on your audio interface or mixer.
- Adjust the gain knob to set the input level. Aim for a level that peaks around -6 dB to -12 dB during loudest sounds to avoid clipping.

4. Monitor Your Sound:

- Plug your headphones into the audio interface or mixer.
- Speak or perform into the microphone and listen for clarity and balance in your headphones.

5. Finalize the Setup:

- Make any necessary adjustments to the positioning and input levels.
- Ensure all connections are secure.

Using the Icom SM 6

Once your Icom SM 6 is set up, it's time to use it effectively. Here are some tips and techniques to maximize its potential.

Best Practices for Performance

- **Microphone Technique:**
 - Maintain a distance of about 6 to 12 inches from the microphone for optimal sound quality.
 - Use a slight angle when speaking into the mic to avoid plosive sounds.
- **Environment:**
 - Choose a quiet location for recording or performing.
 - Consider using soundproofing materials or blankets to reduce ambient noise.
- **Gain Staging:**
 - Always check your gain levels before starting your session.
 - Avoid excessive gain, which can introduce distortion.
- **Post-Processing:**
 - After recording, use audio editing software to enhance your sound.
 - Consider applying equalization, compression, and noise reduction as needed.

Common Issues and Troubleshooting

While the Icom SM 6 is designed for reliable performance, users may encounter occasional issues. Here are some common problems and their solutions:

No Sound Output

- **Check Connections:** Ensure all cables are securely connected.
- **Inspect the Audio Interface/Mixer:** Verify that the input channel is enabled and not muted.
- **Test the Microphone:** If possible, test the microphone with a different audio interface or mixer.

Low Volume Level

- **Adjust Gain:** Increase the gain on your audio interface or mixer.
- **Check Cable Quality:** Ensure that the XLR cable is in good condition without any visible damage.

Unwanted Noise or Feedback

- **Check Your Environment:** Ensure there are no external noises or feedback loops.
- **Use a Pop Filter:** This can help reduce plosive sounds that may cause distortion.

Maintenance of the Icom SM 6

Proper maintenance is essential for ensuring the longevity and performance of your Icom SM 6 microphone. Here are some tips:

- **Storage:** Always store the microphone in a protective case when not in use to prevent physical damage.
- **Cleaning:** Use a soft, dry cloth to wipe down the microphone. Avoid using liquids or abrasive materials.
- **Check Cables:** Regularly inspect XLR cables for wear and tear. Replace them as necessary to avoid sound issues.
- **Temperature and Humidity:** Store the microphone in a controlled environment to prevent moisture buildup and temperature extremes.

Conclusion

The Icom SM 6 is a versatile and high-quality microphone suitable for various audio applications. By following the guidelines in this user guide, users can set up, use, and maintain their microphone effectively. Whether for professional broadcasting, podcasting, or live performances, the Icom SM 6 delivers exceptional audio quality that meets the demands of audio professionals. With proper care and usage, this microphone can provide reliable performance for years to come.

Frequently Asked Questions

What is the main purpose of the ICOM SM-6 user guide?

The ICOM SM-6 user guide provides detailed instructions on how to operate and maintain the SM-6 microphone, including setup, features, and troubleshooting tips.

Where can I find the ICOM SM-6 user guide?

The ICOM SM-6 user guide can be found on the official ICOM website under the support or downloads section, or it may be included in the packaging of the microphone.

What are some key features highlighted in the ICOM SM-6 user guide?

Key features highlighted in the ICOM SM-6 user guide include its high-quality audio performance, ergonomic design, and compatibility with various ICOM transceivers.

Does the ICOM SM-6 user guide include troubleshooting steps?

Yes, the ICOM SM-6 user guide includes troubleshooting steps for common issues such as audio distortion, connection problems, and microphone sensitivity adjustments.

Is there a section on safety precautions in the ICOM SM-6 user guide?

Yes, the ICOM SM-6 user guide includes a section on safety precautions to ensure proper usage and to prevent damage to the microphone and connected devices.

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