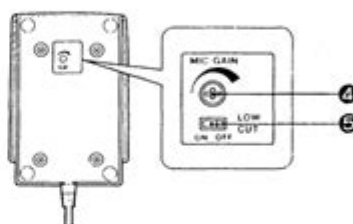# Icom Sm 20 User Guide

FRONT VIEW

BOTTOM VIEW

❶ FREQUENCY UP/DOWN SWITCHES [UP] / [DOWN]
Change the frequency up or down. Some transceivers do not have this function.

❷ PTT SWITCH
Push to transmit, then release to receive.

❸ PTT LOCK SWITCH [LOCK]
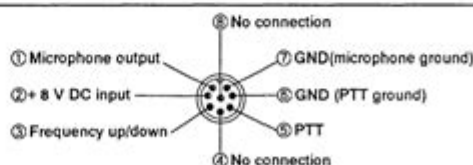Push IN to transmit continuously, then push OUT to receive.

❹ MIC GAIN CONTROL [MIC GAIN]
Varies microphone output level. Use this control when the connected transceiver has no mic gain controls.

NOTE: Rotating the control too far clockwise may result in overmodulation and transmit signal distortion.

❺ LOW CUT SWITCH [LOW CUT]
Cuts out low-frequency components of input voice signals.

• MICROPHONE PIN CONNECTION

The pins are shown from the cable, or rear, side of the plug.

① Microphone output
② + 8 V DC input
③ Frequency up/down
④ No connection
⑤ PTT
⑥ GND (PTT ground)
⑦ GND (microphone ground)
⑧ No connection

icom sm 20 user guide is an essential resource for users of the Icom SM-20, a professional-grade desktop microphone designed for high-quality audio communication. Whether you are a ham radio enthusiast, a marine operator, or a professional in a communication-based industry, understanding how to effectively use the SM-20 can enhance your user experience. This guide will walk you through the features, setup, and troubleshooting tips to ensure you make the most out of your Icom SM-20.

Overview of the Icom SM-20 Microphone

The Icom SM-20 is a high-performance desktop microphone that is compatible with various Icom radios. Built with quality materials and designed for durability, the SM-20 is tailored for clear audio transmission, making it a favorite among communication professionals.

Key Features

- Electret Condenser Element: Provides clear audio capture and reduces background noise.
- Built-in Preamp: Enhances the audio signal for better transmission quality.
- Adjustable Stand: Allows for optimal positioning to suit individual user preferences.
- Durable Construction: Designed to withstand rigorous use in various environments.
- Compatible with Multiple Icom Models: Works seamlessly with a wide range of Icom transceivers.

Setting Up Your Icom SM-20

Proper setup is crucial for maximizing the performance of your SM-20 microphone. Follow these steps to ensure you have a successful installation.

What You'll Need

Before setting up your microphone, make sure you have the following:

- Icom SM-20 Microphone
- Compatible Icom Transceiver
- Appropriate connecting cables
- Power source (if required)
- A flat surface for mounting

Installation Steps

1. Choose the Location: Select a stable surface for the microphone. Ensure the area is free from excessive clutter or noise.
2. Connect the Microphone:
- Locate the microphone input on your Icom transceiver.
- Use the appropriate cable to connect the SM-20 to the transceiver.
3. Power On the Transceiver: After connecting, power on your Icom transceiver to ensure the microphone is recognized.
4. Adjust the Position: Use the adjustable stand of the SM-20 to position the microphone at a comfortable height and angle for speaking.
5. Test the Audio: Test the microphone by speaking into it and adjusting the gain settings

on the transceiver for optimal audio quality.

Using the Icom SM-20 Microphone

Once your SM-20 microphone is set up, you can begin using it for various communication purposes. Understanding the functionality of the microphone will help you get the best results.

Basic Operation

- Speaking Technique: Speak directly into the microphone at a consistent distance (approximately 6-12 inches) to ensure clear audio transmission.
- Gain Adjustments: Adjust the gain settings on your transceiver to suit your voice and environment. Too high may cause distortion, while too low may result in weak audio.
- Mute Function: Familiarize yourself with the mute option (if available) for times when you need to stop transmitting without turning off the microphone.

Advanced Features

- Equalization Settings: If your transceiver supports equalization, experiment with different settings to enhance voice clarity.
- Voice Activation: Some users may prefer using a VOX (voice-activated transmission) mode. Make sure to adjust the sensitivity for optimal performance.

Maintenance and Care

To ensure your Icom SM-20 microphone operates efficiently over time, regular maintenance is necessary. Here are some tips:

Cleaning the Microphone

- Dusting: Use a soft, dry cloth to wipe down the exterior of the microphone and remove any dust.
- Windshield Cleaning: If your microphone has a windshield, periodically remove it and clean it gently to avoid clogging.

Storage Tips

- Avoid Extreme Temperatures: Store the microphone in a cool, dry place away from direct

sunlight and extreme temperatures.
- Use a Protective Case: If the microphone is not in use, consider placing it in a protective case to prevent physical damage.

Troubleshooting Common Issues

Even with proper care, you may encounter some issues with your Icom SM-20. Here are common problems and their solutions:

Low Audio Quality

- Check Connections: Ensure all connections are secure and the cables are not damaged.
- Adjust Gain Settings: Revisit the gain settings on your transceiver to find an optimal level.

Microphone Not Working

- Power Supply: Confirm that your transceiver is powered on and functioning properly.
- Test with Another Device: If possible, connect the microphone to a different Icom device to determine if the issue lies with the microphone or the transceiver.

Background Noise Issues

- Positioning: Adjust the microphone position to minimize background noise.
- Use of Filters: Consider using noise-canceling features available in your transceiver settings.

Conclusion

The **icom sm 20 user guide** serves as a comprehensive resource for users looking to enhance their communication experience with the Icom SM-20 microphone. From setup to troubleshooting, understanding the various aspects of this microphone will ensure you harness its full potential. Regular maintenance and proper care can prolong the life of your device, making it a reliable tool for all your communication needs. For any further assistance, consult the user manual or reach out to Icom's customer support for professional guidance.

Frequently Asked Questions

What is the purpose of the Icom SM-20 user guide?

The Icom SM-20 user guide provides detailed instructions on how to set up, operate, and troubleshoot the SM-20 microphone, ensuring users can maximize its functionality.

How do I connect the Icom SM-20 microphone to my radio?

To connect the Icom SM-20 microphone, plug the microphone cable into the appropriate microphone input jack on your radio, ensuring it is securely attached.

What specifications should I be aware of for the Icom SM-20?

Key specifications include its frequency response, which is typically 50 Hz to 16 kHz, and its impedance rating, which is usually around 600 ohms.

How can I adjust the audio levels using the Icom SM-20?

You can adjust the audio levels of the SM-20 by using the gain control settings on your connected radio or by adjusting the microphone's position for optimal audio capture.

Is the Icom SM-20 compatible with all Icom radios?

The Icom SM-20 is compatible with most Icom radios that have the appropriate microphone input; however, it's advisable to check specific compatibility in the user guide.

Where can I find troubleshooting tips for the Icom SM-20?

Troubleshooting tips for the Icom SM-20 can be found in the user guide, usually in a dedicated section that addresses common issues and their solutions.

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Icom IC-F320 - Технический портал QRZ.RU
Apr 3, 2002 · Сообщение от RA0JV взял IC-F320 для APRS A что это за аппарат? Можно поподробнее про него? Желательно с картинкой и с обоснованием причин выбора.

CAT в Icom 7600 - Технический портал QRZ.RU
Nov 21, 2009 · Проблем с установкой драйвера Icom нет. К разъемам ничего лишнего не подключено Только кабель USB - USB B и со второго USB через переходник USB-COM и ...

DG2IAQ Modification Sheet ICOM IC-7200.doc
The famous ICOM IC-7200 is a great transceiver and I like it very much. As announced in several forums I realized that it has some (few) weaknesses on the early models.

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ICOM IC-765 - Технический портал QRZ.RU
Aug 30, 2003 · Аппарат своих денег стоит и я бы считал его просто супер девайсом если бы не гемор с переменниками. Но в целом очень даже ничего. Я перед покупкой 940-го еще …

Ищу схемы к ICOM IC-F110/F111
Aug 29, 2004 · Разыскиваются схемы на Icom IC-F110 и на Icom IC-F111, а также схемы программаторов и софт на эти станции. Если у кого есть - залейте, pls, на

Icom X60 - Страница 2
Sep 24, 2011 · ICOM 7760 Стырили у Кенвуда второй дисплей.))) Как я и писал, топа не будет, смысла нет. 7851 самодостаточен.

IC - 7760 - Технический портал QRZ.RU
Jan 10, 2008 · То-то, я смотрю, HDMI уже лет 15 повсюду, во всех мыслимых устройствах, чуть ли не в умных унитазах установлен, при всех описанных вами ужасах, но именно …

IC-705 - Технический портал QRZ.RU
Oct 4, 2016 · The Icom IC-705 is expected to be available around March 2020. No word yet on price, but the sub-US$1000 mark shouldn't be too hard to hit. Последний раз …

УКВ: ICOM [Архив] - Форум QRZ.RU
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