Dayton Audio iMM-6C

Dayton Audio iMM-6C Calibrated Measurement USB-C Microphone User Manual

Model: iMM-6C

Introduction

The Dayton Audio iMM-6C is a precision condenser microphone engineered for critical audio measurement applications. It connects directly to any smartphone or tablet equipped with a USB-C port, offering a true omnidirectional polar pattern and a calibrated flat frequency response. This device is an essential tool for audio professionals and enthusiasts seeking accurate acoustic analysis.

Key Features

- Precision condenser microphone for critical measurement.
- For use with any smartphone or tablet with a USB-C port.
- True omnidirectional pattern with calibrated flat frequency response.
- Headphone/Line Out pass-through jack for test signals or listening.
- Kickstand feature elevates and angles device and microphone capsule.
- Rugged construction with high-quality components.

Setup

The iMM-6C microphone is designed for straightforward integration with your mobile device. Follow these steps for initial setup:

1. **Connect the Microphone:** Insert the USB-C connector of the iMM-6C directly into the USB-C port of your smartphone or tablet.
2. **Install Measurement App:** Download and install a compatible Real-Time Analyzer (RTA) application from your device's app store. Recommended applications include AudioTool for Android and AudioTools for iOS.
3. **Load Calibration File:** For accurate measurements, it is crucial to load the unique calibration file for your iMM-6C into your chosen RTA software. This file is typically provided with your microphone or can be downloaded from the Dayton Audio website using the serial number on your device. Refer to your RTA app's instructions for loading calibration files.



Figure 1: The iMM-6C microphone featuring its USB-C connector for direct device integration.



Figure 2: The iMM-6C with its integrated kickstand and headphone/line out pass-through jack.

Operating Instructions

Once the iMM-6C is connected and your RTA app is configured with the calibration file, you can begin taking

measurements:

1. **Position the Microphone:** Place the iMM-6C in the desired measurement location. Utilize the integrated kickstand to angle the microphone capsule appropriately towards the sound source.
2. **Generate Test Signals:** Most RTA applications can generate various test signals, such as pink noise or sine waves. Use these signals to analyze the frequency response of your audio system or environment.
3. **Monitor Readings:** Observe the real-time frequency response graphs and SPL (Sound Pressure Level) readings on your RTA app. The calibrated response of the iMM-6C ensures accurate representation of the sound.
4. **Utilize Pass-Through Jack:** The headphone/line out pass-through jack allows you to monitor test signals or listen to audio while the microphone is connected, without needing to disconnect the microphone.

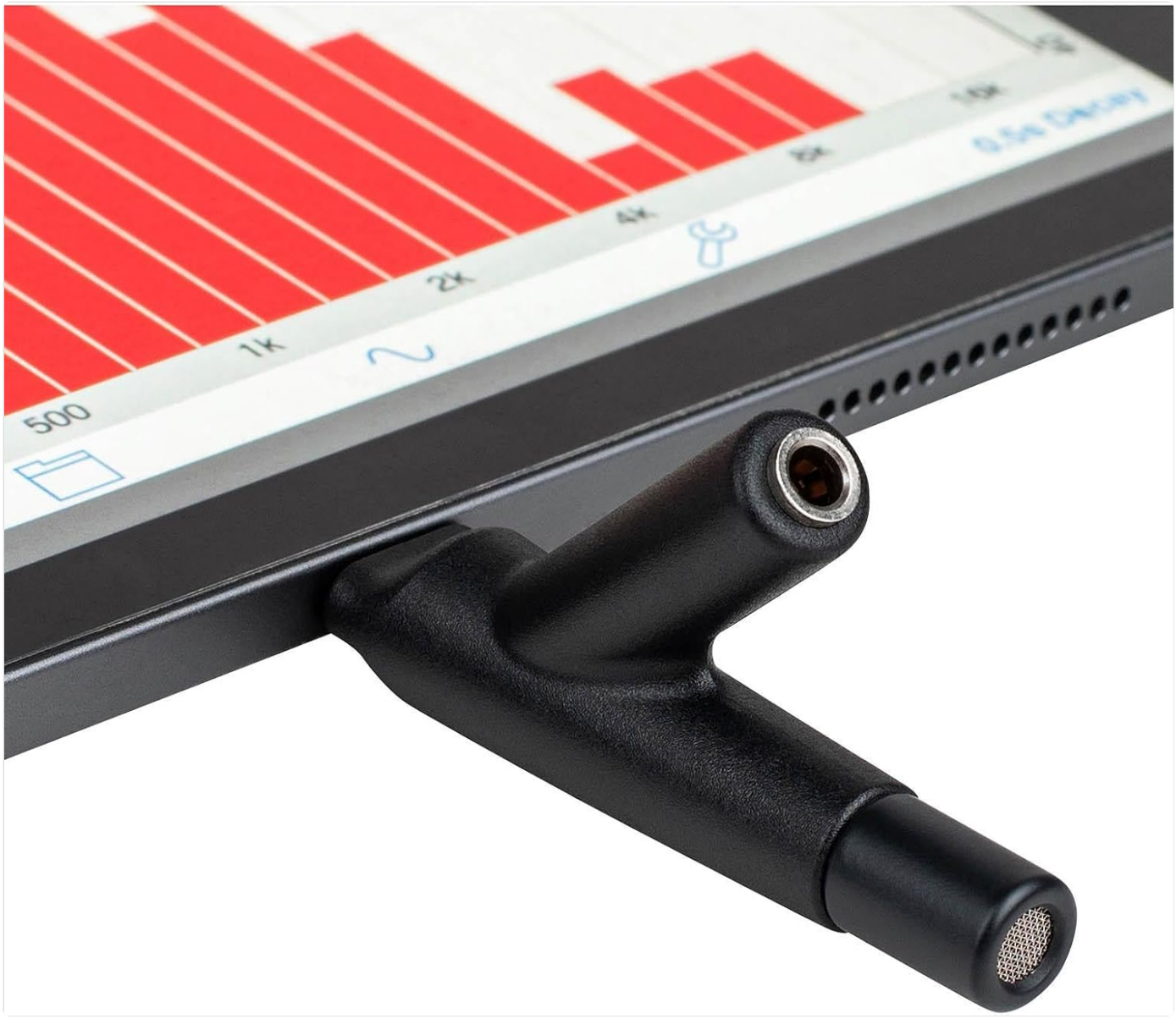


Figure 3: The iMM-6C connected to a tablet, ready for audio measurements.

Maintenance

To ensure the longevity and accuracy of your Dayton Audio iMM-6C microphone, follow these maintenance guidelines:

- Keep the microphone clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the microphone to extreme temperatures, humidity, or direct sunlight.
- Store the microphone in its original packaging or a protective case when not in use to prevent physical damage.
- Do not attempt to disassemble the microphone, as this will void the warranty and may cause damage.

Troubleshooting

If you encounter issues with your iMM-6C microphone, consider the following:

- **No Signal/Low Signal:** Ensure the microphone is fully inserted into the USB-C port. Verify that your RTA app is correctly configured to use the external microphone input. Check the volume settings on your device and within the app.
- **Distorted Signal:** This can occur if the input signal is too strong. Ensure that any attenuators or gain settings within your RTA app or connected audio equipment are properly adjusted to prevent clipping. The iMM-6C is designed for line-level input, so ensure your source is appropriate.
- **Inaccurate Readings:** Confirm that the correct calibration file for your specific iMM-6C unit has been loaded into the RTA software. An uncalibrated microphone or incorrect calibration file will lead to inaccurate frequency response measurements.
- **Device Compatibility:** While designed for USB-C, some older or non-standard devices may have compatibility issues. Ensure your device's operating system and hardware support external USB-C audio input.

Specifications

Feature	Specification
Item Weight	2.4 ounces
Microphone Form Factor	Mini
Item dimensions L x W x H	4.2 x 3 x 1 inches
Power Source	Battery Powered
Material	Aluminum
Signal-to-Noise Ratio	75 dB
Hardware Platform	Smartphone, Tablet
Number of Channels	1
Frequency Response	18 KHz
Manufacturer	Dayton Audio
Model Name	iMM-6C
Connectivity Technology	USB C
Connector Type	USB Type-C
Special Feature	USB C
Compatible Devices	Laptop, Smartphone, Tablet
Color	Black
Included Components	microphone
Polar Pattern	Omnidirectional

Warranty & Support

The Dayton Audio iMM-6C is backed by a 1-year limited warranty. For detailed warranty information, technical support, or service inquiries, please visit the official Dayton Audio website or contact their customer support directly. Keep your purchase receipt for warranty claims.

You can find more information and support at theDayton Audio Store on Amazon.

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Question

Example: How do I reset this device or fix this error?

Details

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