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## Dayton Audio UMM-6

# Dayton Audio UMM-6 USB Measurement Microphone Instruction Manual

Precision Measurement for Accurate Audio Analysis

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## 1. PRODUCT OVERVIEW

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The Dayton Audio UMM-6 is a high-quality USB measurement microphone designed for critical audio measurement and recording applications. It features a true omnidirectional pattern and a calibrated flat frequency response, ensuring accurate and reliable data for your audio analysis needs. Its rugged construction and compact design make it suitable for both professional and enthusiast use.



Figure 1: Dayton Audio UMM-6 USB Measurement Microphone with included accessories.

### Key Features:

- Precision condenser microphone for critical measurement and recording.
- Connects to your PC or Mac via USB port for easy integration.
- True omnidirectional pattern ensures accurate sound capture from all directions.
- Calibrated flat frequency response for reliable data.

- Rugged construction with high-quality components for durability.
- Compact design; includes a sturdy carrying case with foam insert for protection and portability.

## 2. PACKAGE CONTENTS

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Please verify that all items listed below are included in your package:

- Dayton Audio UMM-6 USB Measurement Microphone
- USB Cable
- Mini Tripod Stand
- Microphone Clip
- Sturdy Carrying Case with Foam Insert

## 3. SETUP AND CONNECTION

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Follow these steps to set up your UMM-6 microphone:

1. **Unpack the Microphone:** Carefully remove the UMM-6 microphone and its accessories from the carrying case.
2. **Attach to Stand:** Secure the microphone to the included mini tripod stand using the microphone clip. Ensure it is stable.
3. **Connect to Computer:** Plug the USB cable into the USB port on the base of the UMM-6 microphone. Connect the other end of the USB cable to an available USB port on your PC or Mac.



Figure 2: USB port on the Dayton Audio UMM-6 microphone for computer connection.

Your operating system should automatically recognize the UMM-6 as a USB audio device. No special drivers are typically required for basic functionality.

## 4. OPERATION AND SOFTWARE

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The UMM-6 is designed to work with various audio measurement software applications. It provides accurate data for analyzing room acoustics, speaker performance, and other audio characteristics.

### Recommended Usage:

- **Room Acoustics:** Use with Real-Time Analyzer (RTA) software to measure and optimize the frequency response of your listening environment.

- **Speaker Measurement:** Analyze the performance of loudspeakers, including frequency response, distortion, and phase.
- **Calibration:** Essential for calibrating audio systems, including home theater setups and car audio systems, to achieve a balanced and accurate sound.



Figure 3: UMM-6 in use with audio measurement software.

Popular software options include Room EQ Wizard (REW), SMAART, and various mobile RTA applications when used with appropriate adapters (not included with UMM-6).

## 5. CALIBRATION

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Each Dayton Audio UMM-6 microphone comes with a unique serialized calibration file. This file is crucial for achieving the most accurate measurements by compensating for any minor variations in the microphone's frequency response.

### Downloading Your Calibration File:

1. Locate the serial number on the base of your UMM-6 microphone.
2. Visit the official Dayton Audio calibration download tool website.
3. Enter your microphone's serial number as prompted.
4. Download your unique calibration .txt file.
5. Load this calibration file into your preferred audio measurement software to ensure precise and accurate readings.

Regularly using the correct calibration file is essential for professional-grade audio analysis.

## 6. MAINTENANCE AND CARE

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

- **Storage:** Always store the microphone in its sturdy carrying case with the foam insert when not in use. This protects it from physical damage, dust, and moisture.
- **Cleaning:** Use a soft, dry cloth to clean the microphone body. Avoid using liquid cleaners or solvents, as these can damage the microphone's components.
- **Handling:** Handle the microphone with care. Avoid dropping it or subjecting it to strong impacts, as this can affect its calibration and performance.

- **Environment:** Operate and store the microphone in a stable environment, away from extreme temperatures, humidity, and strong magnetic fields.

## 7. TROUBLESHOOTING

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

- **Microphone Not Recognized:**

- Ensure the USB cable is securely connected to both the microphone and your computer.
- Try a different USB port on your computer.
- Restart your computer.
- Check your computer's audio input settings to ensure the UMM-6 is selected as the default input device.

- **Inaccurate Measurements:**

- Verify that you have downloaded and loaded the correct unique calibration file for your specific UMM-6 microphone into your measurement software.
- Ensure the microphone is positioned correctly for the measurement task (e.g., omnidirectional pattern requires specific placement for room measurements).
- Check for environmental factors like background noise or vibrations that could affect readings.

- **Software Issues:**

- Consult the documentation for your specific audio measurement software for setup and usage instructions with external microphones.
- Ensure your software is up-to-date.

## 8. SPECIFICATIONS

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Feature	Specification
Brand	Dayton Audio
Model Name	UMM-6
Connectivity Technology	USB
Connector Type	USB
Polar Pattern	Omnidirectional
Audio Sensitivity	40 Decibels
Frequency Response	20000 Hz
Signal-to-Noise Ratio	70 dB
Microphone Form Factor	Microphone Only
Hardware Platform	PC
Item Weight	1.9 Pounds
Product Dimensions	0.98 x 0.98 x 8.62 inches
Color	Black
Material	Electret Condenser
Date First Available	November 26, 2012

## 9. WARRANTY AND SUPPORT

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For specific warranty information, please refer to the documentation included with your product or visit the official Dayton Audio website. Dayton Audio is committed to providing high-quality products and support.

For technical assistance, product inquiries, or to download your unique calibration file, please visit the Dayton Audio website. Ensure you have your product's serial number ready for calibration file downloads.