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- Monacor SPH-5M Hi-Fi Bass-Midrange Speaker Instruction Manual

# **Monacor SPH-5M**

# Monacor SPH-5M Hi-Fi Bass-Midrange Speaker

INSTRUCTION MANUAL

#### 1. Introduction

The Monacor SPH-5M is a high-quality Hi-Fi bass-midrange speaker designed for exceptional audio reproduction. It features a robust construction and advanced acoustic properties, making it suitable for various speaker system designs.

# **Key Features:**

- High-quality bass-midrange speaker designed for long excursion.
- Damped, low-resonance polypropylene cone for clear sound.
- Robust die-cast aluminum basket with an attractive design and 6-hole screw connection.
- Magnetic system with a drilled pole core and extended rear plate for optimized performance.
- Versatile for compact bass-reflex, TML, and closed speaker systems.
- Also suitable as a midrange speaker in 3-way speaker systems.



**Figure 1:** Monacor SPH-5M Hi-Fi Bass-Midrange Speaker. This image shows the speaker's black polypropylene cone, the surrounding rubber surround, and the sturdy die-cast aluminum frame with mounting holes. The rear terminals are also visible.

# 2. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your SPH-5M speaker. Follow these guidelines:

- Enclosure Design: The SPH-5M is designed for compact bass-reflex, TML (Transmission Line), and closed speaker enclosures. Ensure your enclosure design is appropriate for the speaker's parameters to achieve desired acoustic results.
- 2. **Mounting:** Secure the speaker firmly into the enclosure using the 6-hole screw connection points on the robust die-cast aluminum basket. Use appropriate screws that do not overtighten or damage the basket.
- 3. **Wiring:** Connect the speaker terminals to your amplifier or crossover network. Ensure correct polarity (+ to + and to -) to avoid phase issues that can degrade sound quality. The speaker has an impedance of 8 Ohms.
- 4. **Amplifier Matching:** Use an amplifier capable of delivering sufficient power (up to 40 WRMS continuous, 80 WMAX peak) into an 8 Ohm load. Avoid underpowering or overpowering the speaker, as both can lead to damage.

# 3. Operation

To ensure the best performance and extend the life of your Monacor SPH-5M speaker, observe the following operational guidelines:

• Initial Break-in: Allow a break-in period of several hours of moderate listening before operating the speaker at high volumes. This allows the cone and surround materials to loosen and perform

optimally.

- Volume Levels: Operate the speaker within its specified power handling limits (40 WRMS / 80 WMAX). Avoid prolonged listening at excessively high volumes that cause audible distortion, as this can damage the voice coil.
- Crossover Settings: If using a crossover, ensure it is correctly configured for the SPH-5M's frequency response characteristics to prevent sending inappropriate frequencies to the driver.

# 4. Maintenance

The Monacor SPH-5M speaker requires minimal maintenance to ensure long-term performance:

- Cleaning: Gently wipe the cone and frame with a soft, dry cloth to remove dust. Avoid using harsh chemicals or excessive moisture.
- Environmental Conditions: Keep the speaker in a stable environment, away from direct sunlight, extreme temperatures, and high humidity.
- Inspection: Periodically inspect the cone, surround, and dust cap for any signs of damage or wear.

# 5. Troubleshooting

If you encounter issues with your SPH-5M speaker, consider the following common troubleshooting steps:

#### · No Sound:

- Check all wiring connections from the amplifier to the speaker for secure contact and correct polarity.
- Verify that the amplifier is powered on and functioning correctly.
- Ensure the audio source is active and sending a signal.

#### · Distorted Sound:

- Reduce the volume level; distortion often occurs when the amplifier or speaker is overdriven.
- Check for loose connections or damaged speaker wires.
- Inspect the speaker cone and surround for any physical damage.
- Ensure the amplifier is not clipping (producing a distorted waveform).

#### · Weak Bass or Midrange:

- Confirm correct speaker polarity; reversed polarity can cause bass cancellation.
- Check crossover settings to ensure appropriate frequencies are being sent to the speaker.
- Verify the enclosure is sealed properly (for closed designs) or that ports are unobstructed (for bass-reflex designs).

If problems persist after performing these checks, contact a qualified audio technician or Monacor customer support for further assistance.

# 6. Specifications

Feature	Specification
Brand	Monacor
Model Number	10.5530

Feature	Specification
Power Handling (RMS)	40 Watts
Power Handling (Max)	80 Watts
Impedance	8 Ohm
Connectivity Technology	Auxiliary (Wired)
Mounting Type	Table Mount (typically within an enclosure)
Speaker Type	Woofer / Bass-Midrange
Recommended Uses	For television (as part of a home audio system)
Product Dimensions (L x W x H)	13 x 16 x 28 cm
Product Weight	190.51 grams
Waterproof	True (referring to cone material resistance)
Power Source	Electric Cable (via amplifier)

# 7. Warranty and Support

For warranty information, technical support, or service inquiries regarding your Monacor SPH-5M speaker, please refer to the documentation provided at the time of purchase or contact your retailer. You may also visit the official Monacor website for contact details and further resources.

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#### Related Documents - SPH-5M



# MONACOR ATT-325ST Stereo Attenuator - Installation and Technical Guide

This document provides installation instructions, application details, safety notes, and technical specifications for the MONACOR ATT-325ST Stereo Attenuator. Designed for professional audio systems, it offers 25W RMS per channel power handling and  $4\Omega$  impedance compatibility.



# MONACOR AR-30 & AR-50 Audio Exciters: Installation and Specifications

This guide provides detailed instructions for installing and using the MONACOR AR-30 and AR-50 audio exciters. Learn about their features, technical specifications, and how to transform surfaces into speakers for a unique audio experience.



# MONACOR SL-250 SW/EN & SL-250 WS/EN PA Speaker Installation and Operation Manual

This manual provides detailed instructions for installing and operating the MONACOR SL-250 SW/EN and SL-250 WS/EN PA speakers. It covers applications, important usage guidelines, step-by-step installation procedures, and comprehensive technical specifications, ensuring safe and effective deployment in PA and voice alarm systems.



# MONACOR WALL-T Series PA Wall Speakers - Installation Guide and Technical Specifications

Detailed installation guide for MONACOR WALL-T series PA wall speakers (WALL-04T, WALL-05T, WALL-06T, WALL-08T). Covers applications, important notes, step-by-step installation, and technical data for 100V and  $8\Omega$  systems. Features weatherproof IP65 rating.



# MONACOR DMT-4010RMS Digitalmultimeter Bedienungsanleitung

Umfassende Bedienungsanleitung für das MONACOR DMT-4010RMS Digitalmultimeter. Enthält Anleitungen zu Betrieb, Sicherheit, Messungen und technischen Spezifikationen für präzise elektrische Messungen.



# Monacor Spottune Omni-Track/SW 360° Wireless Speaker System

Detailed information on the Monacor Spottune Omni-Track/SW, a wireless 360° speaker for high-voltage rail lighting systems. Features include plug-and-play installation, homogeneous sound radiation, and easy integration with the Spottune network audio streamer.