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Neumann KH 120 II

Neumann KH 120 II DSP Powered Studio Monitor User Manual

Model: KH 120 II | Brand: Neumann

1. INTRODUCTION AND OVERVIEW

The Neumann KH 120 II DSP Powered Studio Monitor is a compact nearfield monitor designed for professional audio environments. Building upon its predecessor, the KH 120 II features an onboard Digital Signal Processing (DSP) engine, enhanced power, deeper bass response, and higher Sound Pressure Level (SPL) capabilities. This monitor is engineered for precise monitoring accuracy, facilitating linear-phase crossovers and room-adaptive alignment through Neumann's MA 1 Automatic Alignment system. Its robust construction ensures reliable performance over extended periods.



Figure 1: Front view of the Neumann KH 120 II DSP Powered Studio Monitor.

2. SAFETY INFORMATION

Please read and adhere to the following safety guidelines to ensure safe operation and prevent damage to the device or personal injury:

- **Power Supply:** Connect the monitor only to a power outlet with the specified voltage and frequency. Ensure the

power cable is not damaged or pinched.

- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the monitor to prevent overheating.
- **Moisture:** Keep the monitor away from water, rain, and excessive humidity. Do not operate with wet hands.
- **Cleaning:** Disconnect the power before cleaning. Use a dry, soft cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the monitor yourself.
- **Placement:** Place the monitor on a stable surface or stand to prevent it from falling.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Neumann KH 120 II DSP Powered Studio Monitor (White)
- Power Cable
- Quick Start Guide
- Safety Information Sheet

4. SETUP

4.1 Placement

Optimal placement is crucial for accurate monitoring. Position the monitors to form an equilateral triangle with your listening position. The tweeters should ideally be at ear level. Ensure there are no obstructions between the monitors and your ears. Avoid placing monitors directly against walls or in corners without proper acoustic treatment, as this can affect bass response.

4.2 Connections

The KH 120 II offers versatile connectivity options:

- **XLR Input:** For balanced audio connections from professional audio interfaces or mixing consoles.
- **RCA Input:** For unbalanced audio connections from consumer-grade equipment.
- **1/4" TRS Input:** For balanced or unbalanced audio connections from various sources.

Connect your audio source to the desired input on the rear panel of the monitor. Ensure all connections are secure before powering on.

4.3 Power Connection

Connect the provided power cable to the power inlet on the rear of the monitor and then to a suitable electrical outlet.

4.4 DSP and MA 1 Automatic Alignment

The KH 120 II features an onboard DSP for advanced acoustic control. For optimal room correction and alignment, utilize the Neumann MA 1 Automatic Alignment system (sold separately). This system measures your room acoustics and calibrates the monitors for the most accurate sound reproduction.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Locate the power switch on the rear panel of the monitor. Flip the switch to the 'ON' position to power on the monitor. The Neumann logo on the front will illuminate. To power off, flip the switch to the 'OFF' position.

5.2 Volume Control

Adjust the output volume using the volume control knob, typically found on your audio interface or mixing console. The KH 120 II monitors are designed for flat frequency response, so avoid using external EQ unless specifically for room correction or creative mixing purposes.

5.3 DSP Features

The integrated DSP allows for precise control over various acoustic parameters, including EQ settings. These settings can be accessed and adjusted via compatible Neumann software or hardware, enabling fine-tuning for your specific listening environment and preferences.

6. MAINTENANCE

6.1 Cleaning

To clean the monitor, first disconnect it from the power supply. Use a soft, dry, lint-free cloth to wipe down the exterior surfaces. Do not use abrasive cleaners, solvents, or waxes, as these can damage the finish or components. Avoid spraying liquids directly onto the monitor.

6.2 Storage

When not in use for extended periods, store the monitor in a cool, dry place, away from direct sunlight and extreme temperatures. If possible, use the original packaging for protection during storage or transport.

7. TROUBLESHOOTING

If you encounter issues with your Neumann KH 120 II monitor, refer to the following common problems and solutions:

- **No Sound:**

- Ensure the monitor is powered on and the power cable is securely connected.
- Check audio cable connections from your source to the monitor.
- Verify the audio source is active and outputting sound.
- Confirm volume levels on both the source and the monitor are not set to minimum.

- **Distorted Sound:**

- Reduce the input level from your audio source to prevent clipping.
- Check for damaged audio cables.
- Ensure the monitor is not placed too close to walls or corners, which can cause bass buildup.

- **Humming or Buzzing Noise:**

- Ensure all audio cables are properly shielded and connected.
- Check for ground loops; try connecting all audio equipment to the same power strip.
- Move the monitor away from other electronic devices that may cause interference.

If the issue persists after attempting these solutions, please contact Neumann customer support or a qualified service technician.

8. SPECIFICATIONS

Feature	Specification
Model Name	KH 120 II
Speaker Type	Woofers
Woofers Diameter	5.25 Inches
Tweeter Diameter	1 Inches
Power Source	Corded Electric
Connectivity Technology	XLR, RCA, 1/4" TRS
Speaker Maximum Output Power	160 Watts
Product Dimensions	15"D x 11"W x 17"H
Item Weight	15.7 Pounds
Manufacturer	Neumann
UPC	615104355835
ASIN	B0C2S3WBND

9. WARRANTY AND SUPPORT

The Neumann KH 120 II DSP Powered Studio Monitor comes with a **Limited Warranty**. For detailed information regarding warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official Neumann website.

For technical support, service inquiries, or to download the full user manual, please visit the [Neumann Store on Amazon](#) or the official Neumann website.