Behringer DEEPMIND12

Behringer DeepMind 12 User Manual

Model: **DEEPMIND12** | Brand: **Behringer**

Classic polyphonic synthesizer with 12 true analog voices for insanely fat and authentic sounds.

1. INTRODUCTION

The Behringer DeepMind 12 is a 49-key, 12-voice analog synthesizer designed to deliver rich, authentic sounds. It features a robust build with solid wood end cheeks and a durable metal chassis, ensuring longevity and stability. This manual provides essential information for setting up, operating, and maintaining your DeepMind 12.

The DeepMind 12 incorporates advanced sound design capabilities, including dual analog OSCs and LFOs per voice, 3 ADSR Generators, an 8-Channel Modulation Matrix, and onboard 4 FX engines. Its intuitive interface allows for comprehensive control over your soundscapes, making it a versatile instrument for both studio and live performance.

2. WHAT'S IN THE BOX

Upon unboxing your Behringer DeepMind 12, please ensure all the following components are present:

- Behringer DeepMind 12 Synthesizer Unit
- Power Cable
- Quick Start Guide (or similar documentation)
- True Analog 12 Voice Polyphonic Synthesizer With 4 FX Engines
- 2 OSCs And LFOs Per Voice

3. SETUP

3.1 Physical Placement

Place your DeepMind 12 on a stable, flat surface. Ensure there is adequate ventilation around the unit to prevent overheating. The synthesizer features robust construction with solid wood end cheeks and a durable metal chassis, providing excellent stability.

Figure 3.1: Front view of the Behringer DeepMind 12, showcasing its 49-key layout and control panel.

3.2 Power Connection

Connect the provided power cable to the AC IN port on the rear panel of the DeepMind 12 and then to a suitable power outlet. Ensure the power switch is in the OFF position before connecting.

3.3 Audio Connections

Connect the main audio outputs (L/MONO and R) on the rear panel to your mixer, audio interface, or amplifier using appropriate 1/4-inch TS or TRS cables. For headphone monitoring, use the PHONES output.

3.4 MIDI and USB Connections

The DeepMind 12 supports MIDI In, Out, and Thru connections for integration with other MIDI devices. For computer connectivity and software control, use the USB port. This allows for firmware updates and advanced parameter editing via dedicated software.

Figure 3.2: Rear panel of the Behringer DeepMind 12, showing power input, audio outputs, headphone jack, sustain and pedal/CV inputs, MIDI In/Out/Thru, and USB port.

4. OPERATING INSTRUCTIONS

4.1 Powering On and Initial Sound

After connecting all necessary cables, switch on the power. The unit will boot up, and the display will show the current patch. Adjust the **Volume** knob located on the left side of the control panel to a comfortable listening level.

Figure 4.1: Overview of the DeepMind 12 control panel, highlighting the various sections for sound shaping.

4.2 Navigating Presets

The DeepMind 12 comes with numerous factory presets. Use the **BANK/UP** and **BANK/DOWN** buttons, along with the **DATA ENTRY** knob, to browse through the available sounds. The central display will show the preset name and relevant parameters.

Figure 4.2: Close-up of the DeepMind 12 display and navigation controls, used for selecting presets and adjusting parameters.

4.3 Sound Shaping Controls

The DeepMind 12 offers extensive controls for sound design:

- **Pitch and Mod Wheels:** Located on the left, these illuminated wheels allow for real-time pitch bending and modulation effects.
- **ARP/SEQ Section:** Control arpeggiator and sequencer functions, including chord mode, rate, and gate time.
- **LFO1 & LFO2:** Two Low-Frequency Oscillators with controls for rate, delay time, and various waveforms to

modulate sound parameters.

- **OSC 1 & 2:** Dual Oscillators with controls for pitch, tone mod, PWM, and noise level, forming the core of the sound.
- **POLY Section:** Manage polyphony settings, including unison detune for thicker sounds.
- **VCF (Voltage Controlled Filter):** Adjust frequency and resonance to shape the timbre of the sound.
- **VCA (Voltage Controlled Amplifier):** Control the overall level of the sound.
- **HPF (High-Pass Filter):** Further sculpt the sound by cutting low frequencies.
- **ENVELOPES:** Dedicated ADSR (Attack, Decay, Sustain, Release) envelopes for VCA, VCF, and Mod, allowing dynamic control over sound evolution.

Figure 4.3: Close-up of the illuminated Pitch and Mod wheels, providing expressive control.

Figure 4.4: Detailed view of the LFO and OSC sections, crucial for synthesizing complex sounds.

5. MAINTENANCE

To ensure the longevity and optimal performance of your DeepMind 12, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Avoid abrasive cleaners or solvents.
- **Environment:** Store and operate the synthesizer in a dry environment, away from direct sunlight, excessive heat, and humidity.
- **Storage:** When not in use for extended periods, cover the unit to protect it from dust.

6. TROUBLESHOOTING

If you encounter issues with your DeepMind 12, consider the following common troubleshooting steps:

- **No Sound:** Check all audio cable connections, ensure the volume is turned up, and verify that the correct output is selected on your mixer/interface.
- **Power Issues:** Ensure the power cable is securely connected and the power outlet is functional.
- **Unexpected Behavior:** Try performing a factory reset (refer to the official PDF manual for instructions). Ensure your firmware is up to date.
- **MIDI Connectivity:** Verify MIDI cable connections and MIDI settings on both the DeepMind 12 and your connected device/software.

7. SPECIFICATIONS

Feature	Detail
Brand	Behringer
Model Name	DEEPMIND 12
Item Model Number	DEEPMIND12
Item Weight	23 pounds
Product Dimensions	37 x 8 x 15 inches
Body Material	Wood (end cheeks), Metal (chassis)
Material Type	Metal, Plastic
Number of Keyboard Keys	49
Power Source	USB (for data/control, main power via AC)
Connector Type	USB, MIDI, 1/4" Audio Jacks
Included Components	True Analog 12 Voice Polyphonic Synthesizer With 4 FX Engines, 2 OSCs And LFOs Per Voice
UPC	615435497716, 748252187048
Date First Available	February 15, 2017

8. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Behringer documentation. An electronic version of the user manual is available for download:

Download Official User Manual (PDF)

You can also visit the official Behringer store for additional product information and support resources. Behringer Store