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Behringer Deepmind12

Behringer DeepMind 12 Analog Synthesizer User Manual

Model: DeepMind 12

1. INTRODUCTION

The Behringer DeepMind 12 is a 12-voice analog polyphonic synthesizer designed for musicians and producers. It features a 49-key semi-weighted keyboard with velocity sensitivity and aftertouch, offering extensive sound design capabilities through its powerful synthesis engine and integrated effects. This manual provides essential information for setting up, operating, and maintaining your DeepMind 12.



Figure 1.1: Front view of the Behringer DeepMind 12 synthesizer. This image displays the full keyboard, control panel with faders and knobs, and the central LCD screen.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and follow these safety instructions to ensure safe operation and to prevent damage to your device:

- Do not open the device. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Do not expose this appliance to rain or moisture.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Ensure proper ventilation. Do not block any ventilation openings.



Figure 5.1: Close-up view of the pitch bend and modulation wheels, along with volume and portamento controls, located on the left side of the DeepMind 12.

5.2 Voice Architecture

The DeepMind 12 is a 12-voice polyphonic synthesizer. Each voice includes two digitally controlled oscillators (DCOs), two LFOs, and three ADSR envelope generators. These components allow for complex sound shaping.

5.3 Filters

The synthesizer features a switchable low-pass filter and a high-pass filter per voice, providing versatile tonal sculpting options. Adjust the VCF (Voltage Controlled Filter) and HPF (High Pass Filter) sections using the dedicated faders and knobs on the control panel.



Figure 5.2: Detailed view of the VCF, VCA, and HPF sections on the DeepMind 12 control panel, showing faders and controls for filter and amplifier parameters.

5.4 Effects Engines

The DeepMind 12 incorporates four effects engines with technology from TC Electronic and Klark Teknik. These engines offer a wide range of high-quality effects that can be routed and configured to enhance your sounds.

5.5 Modulation Matrix and Sequencer

An 8-channel modulation matrix allows for intricate routing of modulation sources to various destinations. The integrated 32-step control sequencer provides rhythmic and melodic sequencing capabilities.

5.6 Remote Control and Display

The DeepMind 12 can be controlled remotely via a dedicated app available for iPad, PC, Mac, and Android devices, connecting through USB, MIDI, or the built-in WiFi. The central LCD display provides visual feedback and access to parameters and settings.



Figure 5.3: Close-up of the DeepMind 12's LCD display and surrounding control buttons, used for navigation and parameter editing.

6. MAINTENANCE

6.1 Cleaning

To clean your DeepMind 12, use a soft, dry cloth. Do not use abrasive cleaners, solvents, or waxes, as these can damage the finish and controls. Keep the ventilation openings clear of dust.

6.2 Storage

When not in use, store the synthesizer in a dry, dust-free environment. Avoid extreme temperatures and humidity. If transporting the unit, use appropriate protective casing.

7. TROUBLESHOOTING

- **No Sound Output:**

- Check that the power cable is securely connected and the unit is powered on.
- Ensure audio cables are correctly connected to the outputs and to your sound system.

- Verify that the master volume knob on the DeepMind 12 is turned up.
 - Check the volume levels on your mixer or audio interface.
 - Ensure that a patch is selected and not muted.
- **MIDI Not Responding:**
 - Check MIDI cable connections (IN/OUT).
 - Verify MIDI settings on both the DeepMind 12 and your external device/software.
 - For USB MIDI, ensure the USB cable is connected and drivers (if required) are installed.
- **WiFi Connection Issues:**
 - Ensure your WiFi network is active and within range.
 - Double-check the WiFi password and network settings on the DeepMind 12.
 - Restart both the DeepMind 12 and your router.

8. SPECIFICATIONS

Model Name	DeepMind 12
Type	Analog Polyphonic Synthesizer
Keyboard	49 semi-weighted keys with velocity and aftertouch
Voices	12
Oscillators	2 DCOs per voice (24 total)
LFOs	2 LFOs per voice
Envelopes	3 ADSR generators per voice
Filters	Switchable Low-Pass and High-Pass filters
Effects	4 integrated effects engines (TC Electronic & Klark Teknik)
Modulation Matrix	8-channel
Sequencer	32-step control sequencer
Connectivity	MIDI In/Out/Thru, USB MIDI, WiFi
Remote Control	iPad/PC/Mac/Android App
Dimensions (LxWxH)	91.8 x 36.1 x 20.5 cm (36.1 x 14.2 x 8.1 inches)
Weight	8.4 kg (18.5 lbs)
Material	Plastic

9. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Behringer website or contact your local Behringer distributor. Keep your purchase receipt as proof of purchase for any warranty claims.

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