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Mackie Onyx24

Mackie Onyx24 24-Channel Premium Analog Mixer User Manual

Model: Onyx24

1. INTRODUCTION

The Mackie Onyx24 is a 24-channel premium analog mixer designed for live audio, home recording, and content creation. It features 24-bit / 96kHz multi-track recording via USB and direct to SD card, high-gain Onyx mic preamps, British-style Perkins EQ, powerful DSP effects, and Bluetooth connectivity. This manual provides detailed instructions for setting up, operating, and maintaining your Onyx24 mixer.

What's in the Box:

- Mackie Onyx24 Mixer
- Power Cord
- USB Cable
- Quick Start Guide
- DAW Software & Plug-Ins (downloadable)

2. PRODUCT OVERVIEW

The Mackie Onyx24 offers a robust set of features for professional audio mixing and recording.



Figure 2.1: Front view of the Mackie Onyx24 mixer, showing all channels and controls.



Figure 2.2: Angled view of the Mackie Onyx24 mixer, highlighting its compact design.



Figure 2.3: Overview of the Mackie Onyx Series, emphasizing legendary sound and modern design.

Key Features:

- High-resolution 96kHz / 24-bit multi-track recording to Mac/PC via USB.
- Direct stereo recording and playback to/from an SD card.
- Award-winning Onyx mic preamps providing up to 60dB of gain.
- Legendary British-style Perkins EQ with sweepable midrange.
- Robust digital effect engine, including user-customizable reverbs, delays, and more.
- Bluetooth streaming directly to a channel strip.

3. SETUP

Proper setup ensures optimal performance of your Mackie Onyx24 mixer. Follow these steps to get started.

3.1 Power Connection

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



Figure 3.1: Rear panel of the Mackie Onyx24, showing input/output connections and power input.

3.2 Audio Connections

The Onyx24 offers various input and output options. Connect your microphones, instruments, and other audio sources to the appropriate input channels. Connect your main speakers, monitors, and recording devices to the output ports.

- **Microphone Inputs:** Use XLR cables for balanced microphone connections.
- **Line Inputs:** Use 1/4-inch TRS or TS cables for line-level instruments and devices.
- **Main Outputs:** Connect your main PA system or studio monitors to the Main Left/Right XLR outputs.
- **Monitor Outputs:** Connect stage monitors or additional studio monitors to the Monitor outputs.

3.3 USB and SD Card Setup

For multi-track recording to a computer, connect the mixer via the USB port. Install the necessary drivers and software (available for download from the Mackie website). For stereo recording directly to an SD card, insert a compatible SD card into the dedicated slot.



Figure 3.2: Close-up of the SD card recording and playback controls on the Onyx24.

4. OPERATING INSTRUCTIONS

This section details the operation of the various controls and features on your Onyx24 mixer.

4.1 Channel Controls

Each channel strip on the Onyx24 provides comprehensive control over your audio signal.



Figure 4.1: Top-down view of the Mackie Onyx24, showing all channel controls and faders.

- **Gain Knob:** Adjusts the input sensitivity for microphones and line-level signals.
- **Low Cut Button:** Engages a high-pass filter to remove unwanted low-frequency rumble.
- **Perkins EQ:** Three-band (High, Mid, Low) British-style equalizer with sweepable midrange for precise tone shaping.
- **Aux Sends:** Controls the amount of signal sent to external effects processors or monitor mixes.
- **Pan Knob:** Positions the channel's signal within the stereo field (left to right).
- **Mute Button:** Silences the channel's output.
- **Solo Button (PFL):** Isolates the channel's signal for monitoring through headphones without affecting the main mix.
- **Channel Fader:** Controls the overall volume level of the channel in the main mix.



Figure 4.2: Close-up of the Gain and Low Cut controls on an Onyx24 channel strip.



Figure 4.3: Detail of the Perkins EQ section, including High, Mid (sweepable), and Low frequency controls.

4.2 DSP Effects

The Onyx24 includes a powerful digital effects processor with various reverbs, delays, and other effects.



Figure 4.4: The DSP effects display and selection controls.

- Use the dedicated controls to select and adjust the parameters of the built-in effects.
- Apply effects to individual channels using the FX send knobs.
- The full-color display provides visual feedback for effect selection and parameter adjustments.

4.3 Bluetooth Connectivity

Stream audio wirelessly to a dedicated channel strip on the mixer via Bluetooth.



Figure 4.5: Bluetooth ON/OFF and PAIR buttons for wireless audio streaming.

- Press the ON/OFF button to activate Bluetooth.
- Hold the PAIR button to enter pairing mode.
- Connect your Bluetooth-enabled device (e.g., smartphone, tablet) to the mixer.

4.4 Recording and Playback

The Onyx24 supports multi-track recording to a computer and stereo recording/playback to an SD card.

- **USB Multi-Track Recording:** Connect the mixer to your computer via USB and use your preferred DAW (Digital Audio Workstation) software to record individual tracks at 24-bit / 96kHz resolution.
- **SD Card Recording/Playback:** Insert an SD card to record the stereo main mix or play back audio files directly from the card. Use the transport controls (Play, Pause, Record) on the mixer's control panel.

4.5 Official Product Video: A Closer Look

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This video provides a closer look at the features and functionality of the Mackie Onyx series mixers, including controls and connectivity options.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Mackie Onyx24 mixer, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the mixer's surface with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Dust Protection:** Keep the mixer covered when not in use to prevent dust accumulation, which can affect faders and knobs.
- **Ventilation:** Ensure adequate airflow around the mixer to prevent overheating. Do not block ventilation openings.
- **Cable Management:** Organize cables neatly to prevent strain on connectors and accidental disconnections.
- **Storage:** Store the mixer in a cool, dry environment away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your Mackie Onyx24, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No power	Power cable disconnected, power switch off	Check power cable connection, ensure power switch is ON.
No sound from a channel	Mute engaged, fader down, gain too low, incorrect input connection	Disengage Mute, raise fader, increase Gain, check input cable.
No sound from main outputs	Main faders down, output cables disconnected, amplifier off	Raise main faders, check output cables, ensure amplifier is ON.
Distorted audio	Input gain too high, output level too high	Reduce input gain, lower channel/main faders.
Bluetooth not connecting	Bluetooth not enabled, device not in pairing mode	Ensure Bluetooth is ON and in pairing mode on both mixer and device.

7. SPECIFICATIONS

Feature	Detail
Number of Channels	24
Item Model Number	Onyx24
Item Weight	28.6 pounds (12.97 kg)
Product Dimensions	14.02 x 25.2 x 5.39 inches (35.6 x 64 x 13.7 cm)
Hardware Interface	Bluetooth, Secure Digital Card, USB 2.0
Power Source	Corded Electric
Connectivity Technology	USB
Recording Resolution	96kHz / 24-bit (Multi-track USB)
Preamps	Onyx Mic Preamps (up to 60dB gain)
Equalization	British-style Perkins EQ with sweepable midrange
Effects	Robust Digital Effect Engine (user-customizable reverbs, delays, etc.)

8. WARRANTY AND SUPPORT

Mackie products are built for reliability and performance. For detailed warranty information, please refer to the

warranty card included with your product or visit the official Mackie website. For technical support, product registration, or to download the latest drivers and software, please visit www.mackie.com/support.

Keep your purchase receipt and serial number in a safe place, as they may be required for warranty service.