Behringer X32COMPACT

Behringer X32 Compact Digital Mixer Console User Manual

Comprehensive guide for setup, operation, and maintenance.

1. PRODUCT OVERVIEW

The Behringer X32 Compact Digital Mixer Console is a powerful 40-input channel, 25-bus digital mixing console designed for both studio and live applications. It features 16 programmable Midas preamps, 17 motorized faders, a virtual FX rack, and a 7-inch color TFT display for intuitive control.

Figure 1: Front view of the Behringer X32 Compact Digital Mixer Console, showcasing its faders, control surface, and display.

Key Features:

- **40-input Channels:** Extensive input capability for complex setups.
- **25-total Buses:** Flexible routing for various mixing needs.
- **16 Programmable Midas Preamps:** High-quality preamps for superior audio capture.
- **17 Motorized Faders:** Automated and precise control over levels.
- **Virtual FX Rack:** Integrated effects processing for enhanced sound.
- **7" Color TFT Display:** Clear and intuitive visual feedback for all parameters.

Product Overview Video:

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Video 1: An overview of the Behringer X32 Compact Digital Mixer, detailing its front panel layout and key features. This video provides a visual guide to the mixer's physical components and basic functionalities.

2. SETUP

Before operating your Behringer X32 Compact, ensure proper connections and power-up sequence.

2.1 Power Connection:

Connect the provided power cable to the IEC inlet 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 2: Rear panel of the Behringer X32 Compact, showing various input/output ports and the power inlet.

2.2 Input/Output Connections:

- **Microphone/Line Inputs:** Connect microphones or line-level sources to the XLR/TRS combo jacks on the rear panel. The X32 Compact features 16 programmable Midas preamps.
- **Auxiliary Inputs/Outputs:** Use the 1/4" TRS or RCA connectors for additional auxiliary devices.
- **Main Outputs:** Connect your main PA system or studio monitors to the XLR main outputs.
- **Digital Connectivity:** Utilize the AES50 ports for digital snake connections (e.g., Behringer S16) or for cascading multiple X32 consoles. The Ultranet port is for Behringer's P16 Personal Monitoring System.
- **USB Audio Interface:** Connect the mixer to your computer via the USB 2.0 port for multi-track recording and playback.

2.3 Initial Power-Up:

Once all connections are secure, flip the power switch to the ON position. The mixer will perform a self-test and load its operating system. The motorized faders will calibrate to their stored positions.

3. Operating the Mixer

The X32 Compact offers intuitive control over all mixing parameters through its physical controls and integrated display.

3.1 Channel Strips and Layers:

The mixer features 17 motorized faders. The first 8 faders control input channels 1-8 by default. Use the "CH 1-8" and "CH 9-16" buttons in the INPUTS section to switch between layers of input channels. Additional layers for channels 17-24 and 25-32 can be accessed by pressing the corresponding buttons. The LCD scribble strips above each fader provide visual labeling for the active channel.

Figure 3: Angled front view of the Behringer X32 Compact, highlighting the motorized faders and LCD scribble strips.

3.2 Channel Processing:

Each input channel offers comprehensive processing capabilities:

- **Config/Preamp:** Adjust input gain, engage 48V phantom power, and set phase.
- **Gate:** Control noise gates with adjustable threshold.
- **Dynamics:** Apply compression or expansion with threshold and ratio controls.
- **Equalizer:** Utilize the 4-band parametric EQ for precise tone shaping. The 7" display provides a visual representation of the EQ curve.
- **Bus Sends:** Route channels to any of the 16 mix buses for monitor mixes or effects sends.

3.3 Effects and Routing:

The X32 Compact includes a Virtual FX Rack with 8 true-stereo (16 mono) multi-effects processors. These can be used for reverbs, delays, modulation effects, and more. Routing is highly flexible, allowing you to send any input to any output, including the 6 matrix mixes.

3.4 Scene Management:

The console's scene management system allows you to save and recall complete mixer setups. This is ideal for live performances with multiple bands or different service configurations. Use the SCENES section to store and load your custom settings.

Operating Overview Video:

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4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your X32 Compact.

- **Cleaning:** Regularly wipe down the control surface with a soft, dry, lint-free cloth. Avoid abrasive cleaners or solvents. For stubborn grime, a slightly damp cloth with mild soap can be used, followed by immediate drying.
- **Dust Protection:** When not in use, cover the mixer with a dust cover to prevent dust and debris from accumulating on faders, knobs, and the display.
- **Ventilation:** Ensure proper airflow around the mixer. Do not block ventilation grilles on the top or rear panels. Overheating can damage internal components.
- **Cable Management:** Keep cables organized and free from kinks or excessive tension to prevent damage to connectors and internal wiring.
- **Software Updates:** Periodically check the Behringer website for firmware updates. Keeping your mixer's firmware up-to-date ensures access to the latest features and bug fixes.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

- **No Power:**

  - Check if the power cable is securely connected to both the mixer and the power outlet.
  - Verify that the power outlet is functional.
  - Ensure the power switch on the mixer is in the ON position.

- **No Audio Output:**

  - Check main output faders and ensure they are up.
  - Verify that input channels are not muted or soloed (unless intended).
  - Ensure correct routing from input channels to main outputs.
  - Check external amplifier/speaker connections and power.

- **No Input Signal:**

  - Verify microphone/line source is connected correctly and functioning.
  - Check input gain levels on the mixer.
  - Ensure phantom power is engaged for condenser microphones.
  - Confirm the correct input layer is selected (e.g., CH 1-8, CH 9-16).

- **Motorized Faders Not Responding:**

  - Restart the mixer.
  - Check for any physical obstructions to the faders.

- Ensure the mixer's firmware is up to date.

6. SPECIFICATIONS

Feature	Detail
Brand	Behringer
Model	X32COMPACT
Item Weight	45.5 Pounds
Product Dimensions	24.61 x 20.08 x 8.46 inches
Number of Channels	40
Color	Black
Connectivity Technology	USB
Power Source	Corded Electric
Wattage	120 watts
First Available	June 17, 2013

7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Behringer website or the user guide provided with your product.

- **User Manual (PDF):** Download User Manual
- **User Guide (PDF):** Download User Guide
- **Behringer Store:** Visit the Official Behringer Store on Amazon

Always register your product to receive important updates and support notifications.