

User Manual



MINIMIX MIX800

Ultra-Compact Karaoke Processor with Voice Canceller and Echo/Reverb Effects






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Thank you


Thank you for expressing your confidence in us by purchasing the MINIMIX MIX800.


EN Important Safety Instructions


 Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

 This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.

 This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

 **Caution**
To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

 **Caution**
To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

 **Caution**
These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.

4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.



16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

EN**LEGAL DISCLAIMER**

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at www.music-group.com/warranty.

1. Introduction

Sing along with this powerful karaoke machine! Its revolutionary Voice Canceller effectively eliminates vocals from any stereo source while retaining most music elements. The integrated digital echo/reverb processor in 24-bit/40 kHz resolution assures ultimate vocal enhancement. We've included 2 independent mic channels with Level controls and Clip indicators for perfect level adjustment. A dedicated 2-band EQ provides for awesome vocal enhancement and sound shaping, and there is an accurate 6-digit LED output meter for precise level indication. Stereo Line Inputs/Outputs let you connect your favorite CD or MP3 player, tape recorder and similar equipment. Long-term reliability is guaranteed with the high-quality potentiometers and illuminated switches. Ultra low-noise audio operational amplifiers offer outstanding sound performance.

Karaoke has never been this easy and this much fun!

1.1 Before you get started

1.1.1 Shipment

Your MIX800 was carefully packed at the assembly plant to assure secure transport. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage.

- ◆ **Damaged equipment should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery. Otherwise, all claims for replacement/repair may be rendered invalid.**
- ◆ **Please always use the original packaging to avoid damage due to storage or shipping.**
- ◆ **Never let unsupervised children play with the MIX800 or with its packaging.**
- ◆ **Please dispose of all packaging materials in an environmentally friendly fashion.**

1.1.2 Initial operation

Be sure that there is enough space around the unit for cooling. To avoid overheating, do not place the MIX800 on top of power amps or near radiators, etc.

- ◆ **To power the MIX800, use only the power supply unit that is delivered with your equipment.**

1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

2. Control Elements and Connections

- ◆ **Please ensure that the unit is installed and operated only by people qualified to do so. During installation and operation the user must have sufficient electrical contact to earth. Electrostatic discharge may affect the operation of the unit.**

2.1 The front

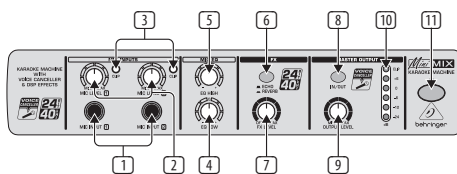


Fig. 2.1: Front panel control elements and connectors of the MIX800

- 1 **MIC INPUT 1/2.** 1 or 2 microphones can be connected using these 1/4" jacks.
 - 2 **MIC LEVEL 1/2.** The MIC LEVEL control adjusts the level of the microphone signal.
- ◆ **After they pass the MIC LEVEL controls, the 2 microphone signals are combined into 1 mono signal.**
- 3 **CLIP.** When the Clip LED lights up, distortion may occur in the microphone input of the MIX800. Reduce the microphone level with the MIC LEVEL control 2).

- 4 **EQ LOW.** The EQ LOW control allows you to raise or lower the low-frequency content of the microphone signal.
- 5 **EQ HIGH.** With the EQ HIGH control, you can raise or lower the high-frequency content of the microphone signal.
- 6 **ECHO/REVERB.** The MIX800 allows you to add an effect to the microphone signal. When the ECHO/REVERB button is pressed in, you can add REVERB to the signal. When the button is pressed out, the ECHO effect is active.
- ◆ **1 of the 2 effects is always active! Use the FX LEVEL control 7 to switch off the effect or to adjust the effect intensity.**
- 7 **FX LEVEL.** The FX LEVEL control determines the amount of effect that is added to the master signal.
- ◆ **Turn this control fully to the left to switch off the active effect.**
- 8 **IN/OUT.** Press the IN/OUT button to activate the Voice Cancellor in the signal path. This filter circuit allows you to remove the vocals almost completely from a recording. The filter has been designed so that vocal frequencies will be processed without significantly affecting other music signals. What is more, the filter only works in the center of the stereo panorama, where vocals are usually positioned in a recording.
- ◆ **The Voice Cancellor can be used for stereo signals only!**
- 9 **OUTPUT LEVEL.** Set the volume of the output signal with the OUTPUT LEVEL control.
- 10 **LED DISPLAY.** The LED display is for monitoring the input level. It comprises 6 LEDs. When the Clip LED lights up, distortion may occur in the MIX800 output. Reduce the output level with the OUTPUT LEVEL control 9.
- 11 **⏻ SWITCH.** The ⏻ switch turns your MINIMIX MIX800 on and off.
- ◆ **Attention: The ⏻ switch does not fully disconnect the unit from the mains. To disconnect the unit from the mains, pull out the main cord plug or appliance coupler. When installing the product, ensure the plug or appliance coupler is readily operable. Unplug the power cord completely when the unit is not used for prolonged periods of time.**

2.2 The rear

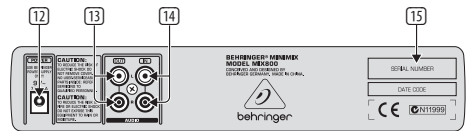


Fig. 2.2: Rear panel connectors of the MIX800

- 12 Use the 9 V jack to connect the power supply delivered with the unit.
- 13 These connectors are the unbalanced cinch outputs of the MIX800.
- 14 These connectors are the unbalanced cinch inputs of the MIX800.
- 15 **SERIAL NUMBER.**

3. Application Example

The wiring example shown below gives you an idea of how to use the MIX800.

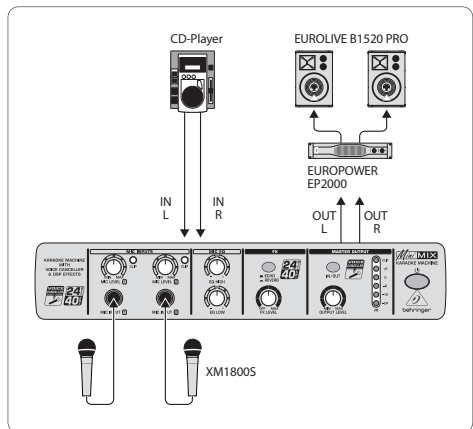


Fig. 3.1: Using the MIX800

4. Specifications

Mic Inputs

Connectors	¼" stereo jack, balanced
Input impedance	approx. 2 kΩ balanced
Max. input level	-20 dBu

Audio Input

Connectors	Cinch, unbalanced
Input impedance	approx. 20 kΩ
Max. input level	15 dBu

Audio Output

Type	RCA connectors, unbalanced
Impedance	approx. 150 Ω
Max. output level	15 dBu

System Data

Frequency response	10 Hz to 200 kHz, ±0/-2 dB
Dynamics	112 dB, 20 Hz to 20 kHz
THD	0.002% typ. @ 4 dBu
Signal crosstalk	-75 dB @ 1 kHz
Signal-to-noise ratio	97 dBu @ 4 dBu, A-weighted

Power Supply

Mains connection	external power supply, 9 V~/750 mA
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Mains Voltage

USA/Canada	120 V~, 60 Hz
U.K./Australia	240 V~, 50 Hz
China	220 V~, 50 Hz
Europe	230 V~, 50 Hz
Japan	100 V~, 50 - 60 Hz

Power consumption	6 W
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Dimensions/Weight

Dimensions (H x W x D)	approx. 1.9 x 4.7 x 9.6" approx. 48 x 120 x 242.6 mm
Weight	approx. 1.34 lbs / 0.61 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

5. Other Mini Products

The MINIBEAT belongs to the MINI suite of BEHRINGER products, which can operate together and are introduced below:

MINIFEX FEX800

Ultra-compact 9.5" stereo multi-effects processor for studio and stage applications

- 16 awesome FX presets in 24-bit/48 kHz resolution including reverb, delay, chorus, flanger, phaser, rotary speaker, pitch shifter and multi-effects
- Intuitive FX Preset control with LED's indicating the selected program

MINIAMP AMP800

Ultra-compact 9.5" headphones amplifier system for studio and stage applications

- 4 totally independent stereo high-power amplifier sections
- Highest sonic quality with virtually all types of headphones even at maximum volume

MINICOM COM800

Ultra-compact 9.5" stereo modeling compressor for studio and stage applications

- 16 awesome preset models for the most typical compression applications (vocal, drums, guitar, keyboard, etc.)
- Dedicated Compressor Modeling control with LED's indicating the selected dynamics program

MINIMIC MIC800

Ultra-compact 9.5" microphone modeling preamp for studio and stage applications

- High-end preamplifier for all microphone, instrument and line-level sources. Perfectly complements studio-grade condenser mics
- Ultra-flexible Preamp Modeling allows you to quickly optimize your recordings

MINIMON MON800

Ultra-compact 9.5" monitor matrix mixer for studio and stage applications

- Dedicated input section with 4 selectable and mixable stereo inputs
- Accurate 6-digit LED main stereo output meters for precise level indication

MINIBEAT BEAT800

Ultra-compact 9.5" dual beat counter/phono preamp for studio and stage applications

- Intelligent dual BPM counters with Tempo Difference indicator
- Ultra-flexible Beat Assist and Sync Lock functions

MINIFBQ FBQ800

Ultra-compact 9.5" graphic equalizer for studio and stage applications

- Revolutionary FBQ Feedback Detection System instantly reveals critical frequencies and can also be used as Audio Analyzer
- Additional Low Cut filter removes unwanted frequencies, e. g. floor rumble

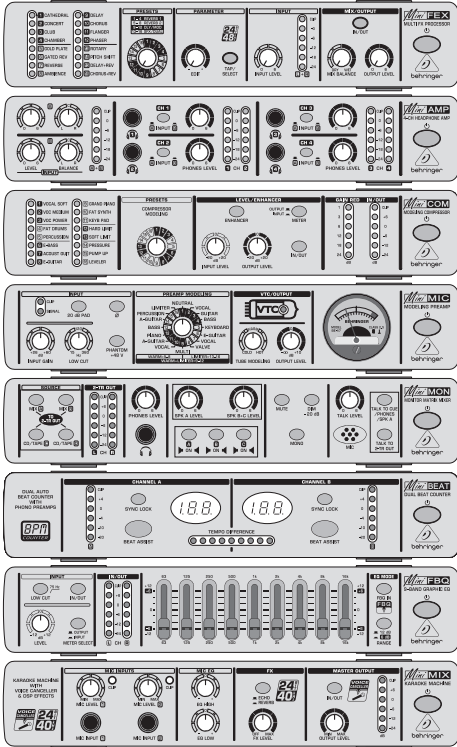


Fig. 5.1: MINI products stack on top of each other



We Hear You