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You can read the recommendations in the user guide, the technical guide or the installation guide for BEHRINGER FBQ800. You'll find the answers to all your questions on the BEHRINGER FBQ800 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BEHRINGER FBQ800
User guide BEHRINGER FBQ800
Operating instructions BEHRINGER FBQ800
Instructions for use BEHRINGER FBQ800
Instruction manual BEHRINGER FBQ800

FBQ800

User's Manual

Version 1.0 November 2005

GB

MINIFBQ



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Manual abstract:

Please read the manual. DETAILED SAFETY INSTRUCTIONS: 1) 2) 3) 4) 5) 6) 7) 8) 9) Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

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) Only use 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) 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 2 MINIFBQ MINIFBQ FBQ800 Ultra-Compact 9-Band Graphic Equalizer with FBQ Ultra-

compact 9.5" graphic equalizer for studio and stage applications Additional Low Cut filter removes unwanted frequencies, e. g. floor rumble Accurate 6-digit LED Input/Output meters and Level control for precise level indication High-quality illuminated faders, potentiometers and illuminated switches for long-term reliability Ultra low-noise audio operational amplifiers offer outstanding sound performance All Mini Series models can be stacked on top of each other to create an ultracompact signal processor solution High-quality components and exceptionally rugged construction ensure long life Conceived and designed by BEHRINGER Germany 3 DEUTSCH Revolutionary FBQ Feedback Detection System instantly reveals critical frequencies and can also be used as Audio Analyzer FBQ800 MINIFBQ FBQ800 FOREWORD Dear Customer, Thank you very much for expressing your confidence in BEHRINGER products by purchasing the MINIFBQ FBQ800. Writing this foreword for you gives me great pleasure, because it represents the culmination of many months of hard work delivered by our engineering team to achieve a very ambitious goal: presenting a graphic equalizer that packs a lot of power in a compact and flexible unit. The task of designing our new FBQ800 equalizer certainly meant a great deal of responsibility, which we assumed by focusing on you, the discerning user and musician. Meeting your expectations also meant a lot of work and night shifts.

But it was fun, too. Developing a product usually brings a lot of people together, and what a great feeling it is when everybody who has participated in such a project can be proud of what they've achieved. It is our philosophy to share our enjoyment with you, because you are the most important member of the BEHRINGER team. With your highly competent suggestions for new products you've made a significant contribution to help shape our company and make it successful. In return, we guarantee you uncompromising quality, as well as excellent technical and audio properties at an extremely reasonable price. All of this will enable you to give free rein to your creativity without being hampered by budget constraints. We are often asked how we manage to produce such high-quality devices at such unbelievably low prices. The answer is quite simple: it's you, our customers! Many satisfied customers mean large sales volumes enabling us to get better purchasing terms for components, etc. Isn't it only fair to pass this benefit on to you? Because we know that your success is our success too! I would like to thank all of those who have made the FBQ800 equalizer possible. You have all made your own personal contributions, from the developers to the many other employees at this company, and to you, the BEHRINGER user.

My friends, it's been worth the effort! Thank you very much, Uli Behringer 4 MINIFBQ FBQ800 TABLE OF CONTENTS 1. INTRODUCTION

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..... 1.1.1 Shipment ...

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... 1.1.2 Initial operation

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To power the FBQ800, use only the power supply unit that is delivered with your equipment. 1.1.3 Online registration Please do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com (alternatively www.behringer.de) and kindly read the terms and conditions of our warranty carefully. Should your BEHRINGER product malfunction, our goal is to have it repaired as quickly as possible.

To arrange for warranty service, please contact the 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 (www.behringer.com/support). Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation! 2. CONTROL ELEMENTS This chapter introduces the FBQ800 and provides what you need to know about: using the FBQ800 (section 2.

2 Front panel) setting up the FBQ800 (section 2.3 Rear panel) Ensure that only qualified personnel set up and operate the FBQ800. 2.1 About the FBQ800

The FBQ800 is a graphic equalizer that you use to modify the strength and quality of audio signals. More specifically, you can use the FBQ800 to: homogenize audio signals correct audio signals filter low-frequency audio signals (feedback, floor rumble, room resonance, and mains hum) Input sources The FBQ800 can receive signals from studio or Hi-Fi units.

Some examples of these units include mixers, soundcards, CD-players, and signal processors. In this documentation, the signals that the FBQ800 receives are referred to as input signals. Audio units that send input signals to the FBQ800 are referred to as input sources. Output targets The FBQ800 can send signals to studio or Hi-Fi units. Some examples of these units include mixers, soundcards, and power amplifiers.

In this documentation, the signals that the FBQ800 sends are referred to as output signals. Audio units that receive output signals from the FBQ800 are referred to as output targets. 6 2. @ @ 2.1: FBQ800 front panel . @ @ @ @ @ @ @ @ not pushed in and not illuminated: The FBQ800 is off. @ @ @ @ @ @ @ @ not pushed in and not illuminated (), as described in this documentation. @ @ @ @ @ 7. @ @ 2. @ @ @ @ @ @ @ @ In addition, all other fader LEDs are dimmed.

@ @ @ @ Fader LEDs illuminate with identical brightness. They do not identify possible feedback frequencies. @ @ In this section, you EQ (EQualize) the input signal. @ @ @ @ @ @ @ @ The center frequency of each frequency band is displayed directly above the relevant fader, as follows: 63 125 250 500 1k 2k 4k 8k 16k These center frequencies are expressed in hertz. The letter k is the abbreviation for kilo (kilohertz). Notice that the center frequencies increase in one-octave steps. This means that equal intervals of pitch separate the frequency bands. About sounds and their frequency bands To help you EQ, the following table lists some typical sounds and identifies the frequency bands in which they occur. The table also describes what happens to some sounds when you overemphasize them: The preceding table is continued on the following page. 2.

CONTROL ELEMENTS 9 DEUTSCH MINIFBQ FBQ800 The following table is continued from the preceding page. How to emphasize and de-emphasize sounds To emphasize or, alternatively to de-emphasize a sound, do the following: 1. Identify the frequency band in which the sound occurs, and then identify the relevant fader. 2. If you want to: emphasize the sound, do one of the following: Slide the relevant fader up.

The FBQ800 boosts the signal level in the relevant frequency band. Slide the faders for the surrounding frequency bands down. The FBQ800 cuts the signal level in the surrounding frequency bands. de-emphasize a sound, do one of the following: Slide the relevant fader down. The FBQ800 cuts the signal level in the relevant frequency band.

Slide the faders for the surrounding frequency bands up. The FBQ800 boosts the signal level in the surrounding frequency bands. When you choose to cut rather than boost the signal level, you protect audio equipment from high signal levels (clipping) and preserve valuable headroom. 10 2. CONTROL ELEMENTS MINIFBQ FBQ800 2.3 Rear panel This chapter describes what you need to know about setting up the FBQ800. Fig. 2.2: FBQ800 rear panel Before you plug the power supply unit in the FBQ800, turn off the (power) button. POWER connector: To power the FBQ800, plug the power supply unit in this connector.

The power supply unit is delivered with the FBQ800. To send the input signal to the FBQ800, use one of the following inputs: RCA INPUT, L (left) and R (right): for RCA plugs 1/4" TRS INPUT, L (left) and R (right): for TRS (balanced) or, alternatively TS (unbalanced) plugs If you simultaneously use both RCA and TRS INPUTs, the FBQ800 receives the input signal only via the TRS INPUT (). To work with: a stereo signal, use both the L and R connectors a mono signal, use only the L or, alternatively the R connector To send the output signal from the FBQ800, you can use the following types of outputs: 1/4" TS OUTPUT, L (left) and R (right): for TS (unbalanced) plugs RCA OUTPUT, L (left) and R (right): for RCA plugs You can simultaneously use both TS and RCA OUTPUTs. Whether or not you use both the L and the R connectors depends on the type of input signal the FBQ800 receives. When the FBQ800 receives: a stereo signal, use both L and R OUTPUT connectors. The output signal is also a stereo signal. a mono signal via an L INPUT connector, use only L OUTPUT connectors. The output signal is also a mono signal. a mono signal via an R INPUT connector, use only R OUTPUT connectors. The output signal is also a mono signal.

SERIAL NUMBER: To register your FBQ800, use this unique serial number. For details about audio plugs, see 4. AUDIO CONNECTIONS. 2. CONTROL ELEMENTS 11 DEUTSCH MINIFBQ FBQ800 3.

SETUP EXAMPLE The following graphically highlights the role of the FBQ800 in your audio setups: Fig. 3.1: Setup example Keep in mind that the previous illustration provides only a single example of how you can use the FBQ800. You can also set the FBQ800 up in the insertion paths of mixers. About setting up with other MINI products The FBQ800 belongs to the MINI suite of BEHRINGER products.

You can set up the FBQ800 with these products, which is both convenient and attractive. For details, see 6. OTHER MINI PRODUCTS. 12 3. SETUP EXAMPLE MINIFBQ FBQ800 4. AUDIO CONNECTIONS To connect audio units to the FBQ800, you can use patch cords that include the following types of plugs: RCA (unbalanced) 1/4" TS (unbalanced) 1/4" TRS (balanced) Illustrations of these plugs follow: Fig. 4.1: Patch cord with RCA plugs Fig.



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4.2: Patch cord with 1/4" TS plugs Fig.

4.3: Patch cord with 1/4" TRS plugs For details about FBQ800 connectors, see 2.3 Rear panel. 4. AUDIO CONNECTIONS 13 DEUTSCH MINIFBQ FBQ800 5. SPECIFICATIONS INPUT Type Impedance CMRR Max. input level OUTPUT Type Impedance Max. output level SYSTEM SPECIFICATIONS Frequency response Dynamic range Distortion Crosstalk Signal-to-noise ratio GRAPHIC EQUALIZER Type Control range Bandwidth OTHER FEATURES Low-cut filter Input level control POWER SUPPLY Mains connection Mains voltage USA/Canada U.K./Australia China Europe Japan Power consumption DIMENSIONS/WEIGHT Dimensions (H x W x D) Weight approx.

1 8/9" (48 mm) x 9 5/9" (243 mm) x 4 5/7" (120 mm) approx. 0.86 lbs. (0.39 kg) external power supply, 9 V ~ / 750 mA 120 V~, 60 Hz 240 V~, 50 Hz 220 V~, 50 Hz 230 V~, 50 Hz 100 V~, 50 - 60 Hz approx.

7.0 W 75 Hz (12 dB/oct.) -12 dB to +12 dB 9 analog stereo bands ± 6 dB or ± 12 dB, switchable 1 oct. 10 Hz to 200 kHz, -3 dB 110 dB, 10 Hz to 22 kHz 0.003 % typ.

@ 0 dBu < 80 dBu @ 1 kHz 10 Hz - 22 kHz < 95 dB @ 0 dBu, a-weighted 1/4" TS connectors (unbalanced) or RCA connectors (unbalanced) approx. 120 +15 dBu 1/4" TRS connectors (balanced) or RCA connectors (unbalanced) approx. 20 k, balanced approx. 10 k, unbalanced 40 dB typ. @ 1 kHz +15 dBu

BEHRINGER constantly strives to maintain the highest quality standards. Modifications may be made, if necessary, without prior notice. The specifications and appearance of the equipment may therefore differ from those listed or illustrated. from those listed or illustrated. 14 5. SPECIFICATIONS MINIFBQ FBQ800 6.

OTHER MINI PRODUCTS The MINIFBQ 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 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 INIMIC MIC800 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 condensers 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 INIBEAT BEAT800 M INIBEAT 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 MINIMIX MIX800 Ultra-compact 9.5" karaoke machine for studio and stage applications Revolutionary Voice Cancellor--effectively eliminates vocals from any stereo source while retaining most music elements Integrated digital echo/reverb processor in 24-bit/40 kHz resolution for ultimate vocal enhancement MINI products stack on top of each other 6.

OTHER MINI PRODUCTS 15 DEUTSCH MINIFBQ FBQ800 7. WARRANTY § 1 OTHER WARRANTY RIGHTS AND NATIONAL LAW 1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract. 2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law. § 2 ONLINE REGISTRATION Please do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com (alternatively www.behringer.de) and kindly read the terms and conditions of our warranty carefully.

Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation! § 3 WARRANTY 1. BEHRINGER (BEHRINGER International GmbH including all BEHRINGER subsidiaries listed on the enclosed page, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year* from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not excluded from this warranty as described under § 5, BEHRINGER shall, at its discretion, either replace or repair the product using suitable new or reconditioned parts. In the case that other parts are used which constitute an improvement, BEHRINGER may, at its discretion, charge the customer for the additional cost of these parts. 2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid. 3. Warranty claims other than those indicated above are expressly excluded. § 4 RETURN AUTHORIZATION NUMBER 1.

To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER (see enclosed list) during normal business hours BEFORE returning the product. All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number. 2. Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by BEHRINGER. 3.

Shipments without freight prepaid will not be accepted. § 5 WARRANTY REGULATIONS 1. @@@@2. @@@@ Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation. 3. Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, tubes, guitar strings, illuminants and similar parts. 16 7. WARRANTY MINIFBQ FBQ800 4.

Damages/defects caused by the following conditions are not covered by this warranty: improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals. connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.



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damages/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER. 6. If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.

7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order. § 6 WARRANTY TRANSFERABILITY This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.

*) shall be entitled to give any warranty promise on behalf of BEHRINGER. § 7 CLAIM FOR DAMAGES Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product. **

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Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty. .



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