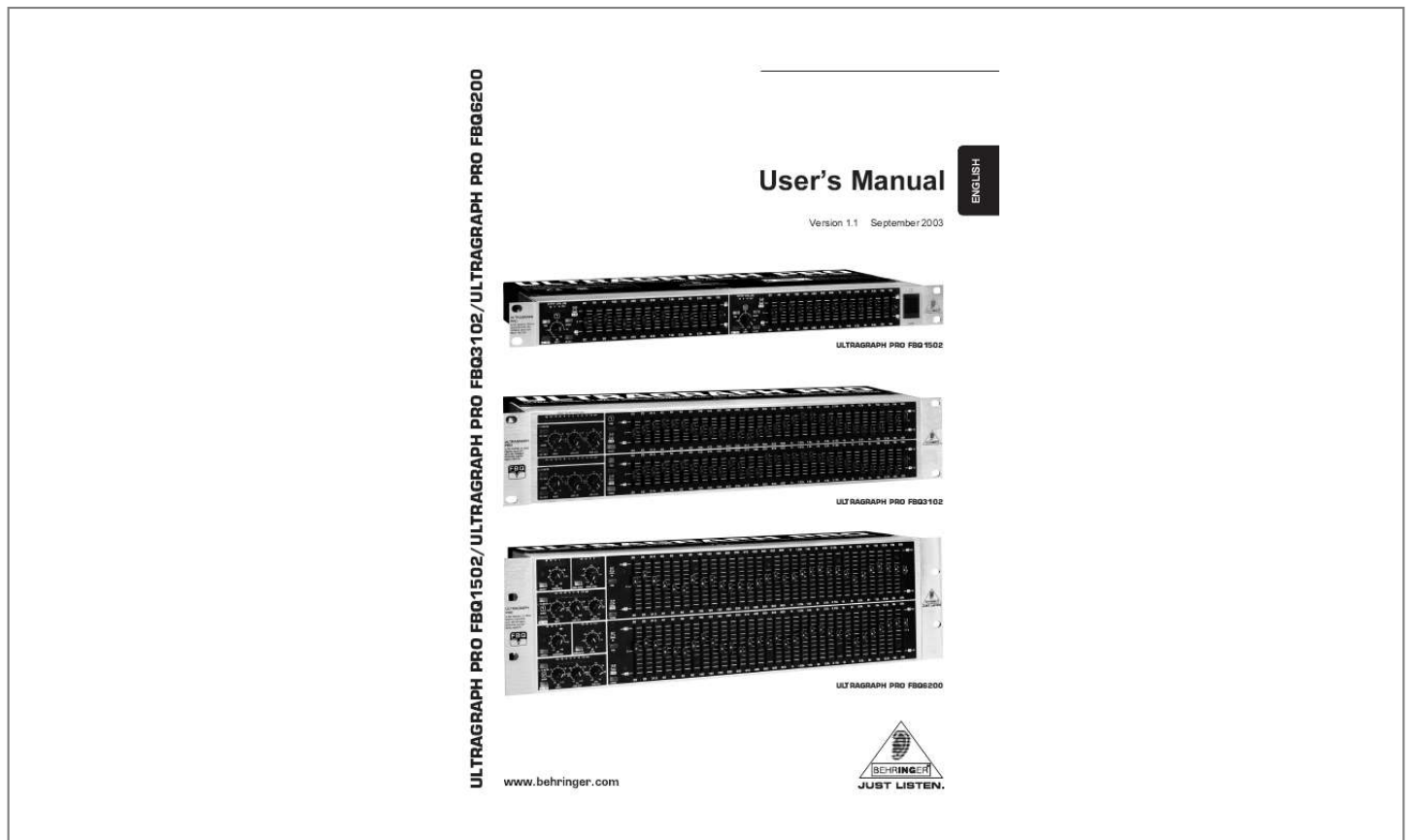




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BEHRINGER FBQ3102. You'll find the answers to all your questions on the BEHRINGER FBQ3102 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BEHRINGER FBQ3102  
User guide BEHRINGER FBQ3102  
Operating instructions BEHRINGER FBQ3102  
Instructions for use BEHRINGER FBQ3102  
Instruction manual BEHRINGER FBQ3102



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**Manual abstract:**

3) Heed all warnings. 4) Clean only with a dry cloth. 5) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 6) 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. 7) Protect the power cord from being walked on or pinched particularly at plugs, extension cords, and the point at which they exit the unit.

8) Only use attachments/accessories specified by the manufacturer. 9) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart/ device combination to avoid injury from stumbling over it. **WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. 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. 10) Unplug this device during lightning storms or when not used for long periods of time. 11) Refer all servicing to qualified service personnel. Servicing is required when the unit 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 device, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

**2 ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 FOREWORD** Dear Customer, Welcome to the team of ULTRAGRAPH PRO users and thank you very much for expressing your confidence in BEHRINGER products by purchasing one of our equalizers. 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 three outstanding graphic equalizers, whose features and flexibility correspond to all your requirements for studio and P.A. system applications. The task of designing our new ULTRAGRAPH PRO equalizers certainly meant a great deal of responsibility which we assumed the task 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 making it successful.

In return, we guarantee you uncompromising quality (manufactured under ISO9000 certified management system) 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 ULTRAGRAPH PRO equalizers 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.

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.. 12 1. INTRODUCTION Thank you very much for expressing your confidence in our products by purchasing one of our equalizers. This 2-channel high-end equalizer was designed with our experience and knowhow in filter technology spanning many years. Our analog and digital equalizers are used the world over in various reputable studios, P.A. systems and radio and TV stations. Just like with the rest of our product line, when we started designing the new ULTRAGRAPH PRO models, we had put forth uncompromizing demands in terms of controls, sound, technical data and fit-and-finish quality. FBQ Feedback Detection System The FBQ Feedback Detection System is one of the most outstanding characteristics of our graphic equalizers.

This ingenious circuitry lets you immediately recognize and eliminate feedback frequencies. The FBQ Feedback Detection System uses the LEDs in the frequency band faders to indicate the critical frequencies. This way, what once used to be a labor-intensive search for feedback frequencies is now an activity that even a child could master. In normal operation, the fader LEDs indicate frequency ranges with the highest energy levels, therefore replacing a separate audio analyzer. If you keep an eye on the LEDs while you play back your music (or during the sound check before a show), you can easily identify those frequency ranges showing the highest energy levels. Similarly, increased signal levels on individual frequency bands indicate a higher likelihood that feedback may occur. All three models feature a dedicated subwoofer output with adjustable cut-off frequency. You can also adjust the fader range from 6 to 12 dB for each channel independently. My friends, its been worth the effort! Thank you very much, Uli Behringer 1. INTRODUCTION 3 ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 The FBQ1502 requires just one rack space, yet it offers you tons of effective methods for adjusting the sound characteristics, and is ultra-compact and extremely simple to operate. The FBQ3102 features 31 frequency bands per channel as well as adjustable high-pass and low-pass filters. These filters further augment the adjustability options available to you. With its integrated limiters, noise generator and the adjustable subwoofer output with signal level display and its 62 lighted 45 mm faders, the FBQ6200 is our top model in this category.



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Future-oriented BEHRINGER technology To assure the highest possible degree of usability, all our equipment is manufactured adhering to the highest quality standards in the audio industry. Your equalizer has been manufactured under ISO9000 certified management system.

Relay-controlled hard bypass The so-called hard bypass relays were integrated into the development concept of the FBQ6200 and the FBQ3102. These relays assure that your equalizer is automatically switched into bypass mode in the event of loss of power or faulty power delivery. These fail-safe relays also produce a slight delay during powering up in order to avoid dangerous switch-on thumps. Balanced inputs and outputs The BEHRINGER ULTRAGRAPH PRO models feature electronic servo-balanced inputs and outputs. The servo function performs automatically, recognizing when unbalanced signals are connected and internally converts the nominal signal level so that no signal level difference between input and output signals occurs (6 dB correction).

+ Faulty fuses must be replaced with fuses of appropriate rating without exception! The correct value of the fuse needed can be found in the chapter SPECIFICATIONS. Power is delivered via the cable provided with the unit. All required safety precautions have been adhered to. + Please make sure that the unit is grounded at all times. For your own protection, you should never tamper with the grounding of the cable or the unit itself. 1.1.3 Warranty Please take a few minutes and send us the completely filled out warranty card within 14 days of the date of purchase. You may also register online at [www.behringer.com](http://www.behringer.com).

com. The serial number needed for the registration is located on the rear of the unit. Failure to register your product may void future warranty claims. 1.2 The users manual The users manual is designed to give you both an overview of the control elements, as well as detailed information on how to use them. In order to help you understand the links between the controls, we have arranged them in groups according to their function. Should you need detailed information about specific topics not covered in this manual, please visit our website at [www.behringer.com](http://www.behringer.com). For example, additional information about power amps and effects processors is found there.

+ The following users manual is intended to familiarize you with the units control elements, so that you can master all the functions. After having thoroughly read the users manual, store it at a safe place for future reference. 2. CONTROL ELEMENTS AND CONNECTORS 2.1 Front panel 1.

1 Before you get started 1.1.1 Shipment The ULTRAGRAPH PRO was carefully packed at the factory 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. + In this chapter we will describe various control elements of your equalizer.

All controls and connectors are explained in detail, and you will also find useful hints on how to best use them. Since the three equalizers in the FBQ series are fairly similar, lets start with the control elements of the FBQ1502 and the FBQ3102 that are similar to the control elements found on the FBQ6200. The FBQ6200 additionally features extra control elements that will be explained in detail later on. The INPUT/OUTPUT LEVEL METER lets you keep an eye on the signal level in order to avoid distortion. Depending on the position of the I/O METER IN/OUT switch, the display shows either the input or the output signal (switch depressed) level. When the signal level reaches roughly +18 dB, that is, 3 dB below clipping starts to occur, the red CLIP LED lights up. The level meter on the FBQ1502 displays only the output signal level. Attenti CUT control is used to adjust the lower cut-off frequency of your ULTRAGRAPH PRO. The high-pass filter (18 dB/oct.) covers the range between 10 and 400 Hz, whereby the filter lets the signal pass through unprocessed, when the control is in the 10 Hz position.

The FBQ1502 features a switchable high-pass filter (LOW CUT) instead of a low cut control, and its cut-off frequency is 25 Hz. The HIGH CUT control is used to adjust the upper cut-off frequency of your ULTRAGRAPH PRO. The low-pass filter (18 dB/oct.) covers the range between 2.5 and 30 kHz, whereby the filter lets the signal pass through unprocessed when the control is in the 30 kHz position. Fig. 2.2: Control elements and important information on the rear of the FBQ3102 The POWER switch powers up your ULTRAGRAPH PRO. The POWER switch should always be in the Off position when you are about to connect your FBQ to the mains. To disconnect the unit from the mains, pull out the main cord plug.

When installing the product, ensure that the plug is easily accessible. If mounting in a rack, ensure that the mains can be easily disconnected by a plug or by an all-pole disconnect switch on or near the rack. Please keep in mind: The POWER switch does not entirely separate the unit from the mains. Please disconnect the power cord from the mains if you will not be using your FBQ for longer periods of time. FBQ1502s power switch is located at the front. The connection to the mains is done via a standard IEC connector. A matching cable is included. FUSE COMPARTMENT / VOLTAGE SELECTION. Before connecting the unit to a power outlet, please make sure that the selected voltage matches your local voltage. When replacing fuses, please make sure that you always use fuses of the same type.

Some units allow for switching between 230 V and 120 V. Please note: when connecting + 2. CONTROL ELEMENTS AND CONNECTORS 5 ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 a unit intended for the European market to a 120 V power outlet, you must also replace the factory fuse with a highervalue fuse. SERIAL NUMBER. Please take a few minutes and send to us a completely filled out warranty card within 14 days of the original date of purchase. Otherwise, warranty claims may be rendered invalid. Or fill out the warranty information online at [www.behringer.com](http://www.behringer.com). Fig.

2.3: Connectors at the rear of the FBQ3102 INPUT. These are the audio inputs of the FBQ3102. All three equalizers in the series feature the same input and output connectors in the form of balanced 1/4" TRS and XLR connectors. OUTPUT. These are the audio outputs. The 1/4" connectors and their respective XLR connectors are wired in parallel. SUB OUT. @@A summed up mono signal for the subwoofer is provided here. Please connect the subwoofer amplifiers input to this connector.

@@@Fig. @@The limiter confines the signal to an adjustable signal level. @@@@system to specific acoustic characteristics of various venues. Activate the pink noise generator by using the PINK NOISE switch. @@Read off the noise generators signal level on the LED display.

@@Room resonance and sound transfer characteristics of the P.A. @@Pink noise is a neutral signal that can be played back via the P.A. system in order to measure these sound characteristics.



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@@@The limiter will process very quickly in such situations. @@@@Use the LIMITER switch for its activation. 6 2. @@@@3.1).

@@@Loudspeaker location is also very important. @@@If you are using an active multi-way system you should take some run-time and phase correction measures before you work with the ULTRAGRAPH PRO (our crossover network SUPER-X PRO CX3400 provides all the necessary tools with its variable split frequencies, phase reverse switches and electronic run-time correction facility). Only after making these preliminary adjustments should you start implementing them on your ULTRAGRAPH PRO. Disturbing noise (e. g.

mains-induced hum) as well as narrowband resonances should first be tackled by using the ULTRAGRAPH PRO (also see ch. 3.2.1). You should definitely perform all these adjustments before modifying the overall sound. Now you have a basic setup and now its time to start finetuning your sound. Some ground rules: A linear response curve is not ideal for every application. For example, when dealing with the spoken word, intelligibility is what is most important. Therefore, the transmission curve should drop off in the bass segment of the signal because otherwise only interference is transmitted. In general, extremely low and high frequencies are transmitted with much lower amplitudes.

There is no sense in forcing a small full-range speaker to reproduce frequencies below 50 Hz; apart from a need for higher power reserves, speaker damage will be the most likely result. 2.3.3 Subwoofer section The LED display indicates the signal level present at the SUB OUT connector. The signal level present at the subwoofer output connector can be adjusted by using the LEVEL control.

To activate the subwoofer output, please depress the SUBWOOFER switch. In general, the location of a subwoofer is not critical, since the source of deeper frequencies is not easily determined. However, to achieve optimal sound resolution, you should try to position the subwoofer in a central location between the two main speakers. This way, you minimize run-time differences and the sound quality deterioration associated with them. 3.

APPLICATION EXAMPLES The flexible concept of the ULTRAGRAPH PRO models, with the diverse possibilities in sound processing, open up an entire range of application possibilities for you. + Always respect the physical limitations of your system. After setting up your system as precisely as possible to the desired transmission curve, walk around the venue in order to get an impression of what your signal sounds like in different locations. Do not forget to take regular breaks while you do this, and also try to use various program sources to truly develop a feeling for what your system really sounds like and how the venue carries the sound. + Setting up your equalizer well takes a lot of time and patience! If you notice that only extreme settings on your equalizer create a usable frequency response, this is probably a good indication that a cardinal mistake may have been committed elsewhere in the P.A. system or room acoustics. An equalizer is no solution for bad equipment, but it is an extremely useful and effective sound tool for musical fine-tuning. Fine-tuning often leads to amazing improvements in acoustic penetration and in the overall sound quality of your entire setup. Fig.

3.1: The ULTRAGRAPH PRO FBQ6200 as master equalizer 3. APPLICATION EXAMPLES 7 ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 3.2 Equalizer in the monitor path When using your ULTRAGRAPH PRO in the monitor path, the same applies as when using it as described in section 3.1. Basically, the stage volume should be as low as possible because: 1. 2. 3. this protects your hearing, there are fewer feedback problems, and it is easier to create a good FOH sound. 3.

2.1 Priming a monitor system Priming describes the process of detecting and suppressing feedback frequencies. After placing and leveling your mics and monitors (incl. power amps), you should crank up the aux send controls of your mixer. Now, activate the FBQ feedback detection system by pressing the FBQ switch .

The slide control LEDs will turn dark. Then, increase the amplification on your mixer by using the aux send master control until you notice feedback starting to occur. Feedback frequencies will now be easily visible through intensive lighting of the relevant LEDs. Pull down the slide controls whose LEDs are lit until the feedback subsides. Repeat this procedure to weed out other possible feedback frequencies.

After having adjusted all critical frequencies, when you crank up the aux send master control, you will be able to hear only the initial multi-frequency feedback. Your monitors have reached their maximum volume. Leave all other faders in the middle position as long as no need for frequency correction occurs (e.g. measuring with a realtime analyzer). Set the desired stage volume, and you will have a tremendous amount of headroom available to you, without creating audible feedback. Often, monitor volume level is increased during a concert. Use intermissions in the program to lower all monitor paths roughly 3 dB. The musicians will hardly notice this reduction because their hearing can recover somewhat during an intermission. This way you can achieve valuable headroom for possible use later in the program.

Extremely deep frequencies are usually completely removed to avoid creating a queasy feedback stage sound. To this end, use the low-cut filter and set it up in such a way that extremely deep feedback completely disappears, creating a more transparent monitor sound. 3.3 Using the ULTRAGRAPH PRO in the studio Additional applications await the ULTRAGRAPH PRO models in the studio. No limits stand in the way of your imagination. Here are just a few examples of possible uses: EQing your studio monitors: You can conduct a graphic equalization of your monitors. Besides, you can suppress narrow-band room resonance.

An analyzer, for example the analyzer integrated into our digital equalizer ULTRACURVE PRO DEQ2496, can help you when you are looking for room resonance and a linear frequency response. General sound processing: Equalizers can be used to process both single-channel and master signals. To process single-channel signals, you should connect the ULTRAGRAPH PRO via the channel inserts on your mixer.

To control several signals with your ULTRAGRAPH PRO, use either subgroup or main mix inserts. Nowadays, the overall sound of a mix is often tweaked with equalizers. Often, a mix is not uniform, that is, frequency ranges are either too prominent or not prominent at all. A graphic equalizer lets you find a fitting ratio between the intensity of these various frequency ranges in order to achieve a homogenous sound. 3.

4 Special sound effects In recording studios as well as stage or radio plays, the ULTRAGRAPH PRO will be your valuable sound tool for modifying the sound of voices (e.g. telephone voice) or to filter instruments so that they fit in an existing mix.



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The tables on the separate add-on sheet give you an idea of specific frequencies and their acoustic significance, and suggest some possible uses for your ULTRAGRAPH PRO. Fig.

3.2: The ULTRAGRAPH PRO FBQ3102 in a monitor system 8 3. APPLICATION EXAMPLES ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 4. INSTALLATION 4.1 Rack mounting The FBQ1502 requires one height unit (1 HU) for mounting in a 19" rack, the FBQ3102 two height units, and the FBQ6200 three height units. Please allow at least an additional 4" of space for the connectors on the back panel. Be sure that there is enough space around the unit for cooling and please do not place your ULTRAGRAPH PRO on high-temperature devices such as power amplifiers etc. to avoid overheating. For rack mounting, please use M6 metal nuts and bolts. Fig.

4.3: 1/4" TRS connector 4.2 Audio connections You will need many different cables for the various applications. The following illustrations show how these cables should be laid out. Please use exclusively high-grade cables. The ULTRAGRAPH PRO is installed with electronically servobalanced inputs and outputs to avoid hum noise problems. You can, of course, also connect unbalanced devices to the balanced inputs/outputs. Either use mono plugs, or connect the ring and sleeve of stereo plugs (bridge pin 1 and pin 3 when using XLR connectors). + Please ensure that only qualified personnel install and operate the ULTRAGRAPH PRO. During installation and operation the user must have sufficient electrical contact to earth.

Electrostatic charges might affect the operation of the unit. Fig. 4.4: 1/4" TRS connector for insert send/return applications Fig. 4.

1: XLR connectors Fig. 4.2: 1/4" TS connector 4. INSTALLATION 9 ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 5. SPECIFICATIONS VGUS6BS6QCQSPA7R%! VGUS6BS6QCQSPA7R" ! VGUS6BS6QCQSPA7R \$! 6V9DPDIQVUT INPUTS Impedance Maximum input level CMRR RF-filtered, servo-balanced XLR and 1/4" TRS connectors 40 k balanced and unbalanced +21 dBu balanced and unbalanced typ.

40 dB, >55 dB @ 1 kHz, servo-balanced XLR and 1/4" TRS connectors balanced XLR connector, level variable off to 0 dB balanced XLR connector variable, 30 - 200 Hz 6V9DPPVUQVUT OUTPUTS SUBWOOFER OUT Crossover frequency T TU@H TQ@8DAD86UDPIT Frequency response S/N ratio Distortion (THD) Crosstalk 10 Hz to 30 kHz, +/-3 dB 22 Hz to 22 kHz >94 dB @ +4 dBu typ. 0.006% @ +4 dBu, 1 kHz, Gain 1 typ. -65 dB @ 1kHz 10 Hz to 200 kHz +/-3dB SPGGPAA ADGU@ST@8UDPI Type Input Low Cut High Cut 12 dB/oct., Butterworth variable (-15 dB to +15 dB) variable (10 Hz to 400 Hz) variable (2.5 kHz to 30 kHz) analog 31-band equalizer 20 Hz to 20 kHz in 31 1/3-octave bands (ISO frequencies) 1/3 octave +/-6 dB or +/-12 dB (switchable) 20 msec / 90 msec variable, -6 dB to +22 dB (off) Gain reduction 20/10/3/1 dB Pink noise, level variable, off to 0 dBu, -24/-12/-6/0 dB switchable, Cutoff @ 25 Hz analog 15-band equalizer 20 Hz to 16 kHz in 15 bands (ISO frequencies) 2/3 octave BS6QCD8@RV6GDa@S Type Frequency range Bandwidth Control range GDHDU@ST@8UDPI Attack/Release Threshold LED meter IPDT@B@I@S6UPS Type LED level meter activates the FBQ Feedback Detection System switch to bypass the equalizer functions switches the meter display from input to output shift of the maximum cut/boost range for all 31/15 bands activates the limiter activates the noise generator activates the subwoofer output 12-segment LED display: -30/-24/-18/-12/-6/-3/0/+3/+6/+9/+12 dB/CLIP activates the high pass filter - AVISUDPITXDUSC@T FBQ Audio In/Out I/O Meter In/Out Range Low Cut Limiter Pink Noise Subwoofer DI9D86UPST Input/output level 8-segment LED display: -24/-18/-12/-6/0/+6/+12 dB/CLIP 4-segment LED display: -18/-12/0/+12 dB 4-segment LED display: -20/0/+6 dB/CLIP (output only) - Subwoofer 10 5. SPECIFICATIONS ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 QPX@STVQQG `Mains voltage VGUS6BS6QCQSPA7R%! VGUS6BS6QCQSPA7R" ! USA/Canada 120 V~, 60 Hz Europe/U.K./Australia 230 V~, 50 Hz Japan 100 V~, 50 - 60 Hz VGUS6BS6QCQSPA7R \$! general export model 120/230 V~, 50 - 60 Hz Power consumption Fuse Mains connection 35 W 100 - 120 V~: U%"6C 35 W 22 W 200 - 240 V~: U" \$6C standard IEC receptacle 9DH@ITDPIT X@DBC Dimensions (approx.) (H x W x D) Weight 133.

5 mm x 482.6 mm x 150 mm 5 " x 19" x 5 7/8" approx. 2.70 kg approx. 5.95 lbs 89 mm x 482.6 mm x 150 mm 3 " x 19" x 5 7/8" approx. 2.5 kg approx. 5.51 lbs 44.5 mm x 482.6 mm x 215 mm 1 " x 19" x 8 3/8" approx. 2.15 kg approx.

4.74 lbs BEHRINGER continuously strives to assure the highest quality standards possible. Required modifications may be implemented without prior notice. Technical data and the appearance of the unit may deviate from the above values and/or illustrations. 5.

SPECIFICATIONS 11 ULTRAGRAPH PRO FBQ1502/ULTRAGRAPH PRO FBQ3102/ULTRAGRAPH PRO FBQ6200 6. WARRANTY 1 WARRANTY CARD/ONLINE REGISTRATION To be protected by the extended warranty, the buyer must complete and return the enclosed warranty card within 14 days of the date of purchase to BEHRINGER Spezielle Studioteknik GmbH, in accordance with the conditions stipulated in 3. Failure to return the card in due time (date as per postmark) will void any extended warranty claims. Based on the conditions herein, the buyer may also choose to use the online registration option via the Internet ([www.behringer.com](http://www.behringer.com) or [www.behringer.de](http://www.behringer.de)). 2 WARRANTY 1. BEHRINGER (BEHRINGER Spezielle Studioteknik 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 4, 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. 3 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. @@3. Shipments without freight prepaid will not be accepted. 4 WARRANTY REGULATIONS 1.



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@@@2.

@@The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. 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 and similar parts.

4. Damages/defects caused by the following conditions are not covered by this warranty: s improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals. s 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. s damages/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER. 5. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty. 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 buyers 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. 5 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. 6 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. 7 OTHER WARRANTY RIGHTS AND NATIONAL LAW 1. This warranty does not exclude or limit the buyers 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.

\* Customers in the European Union please contact BEHRINGER Germany Support for further details. The information contained in this manual is subject to change without notice. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of BEHRINGER Spezielle Studiotechnik GmbH.

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