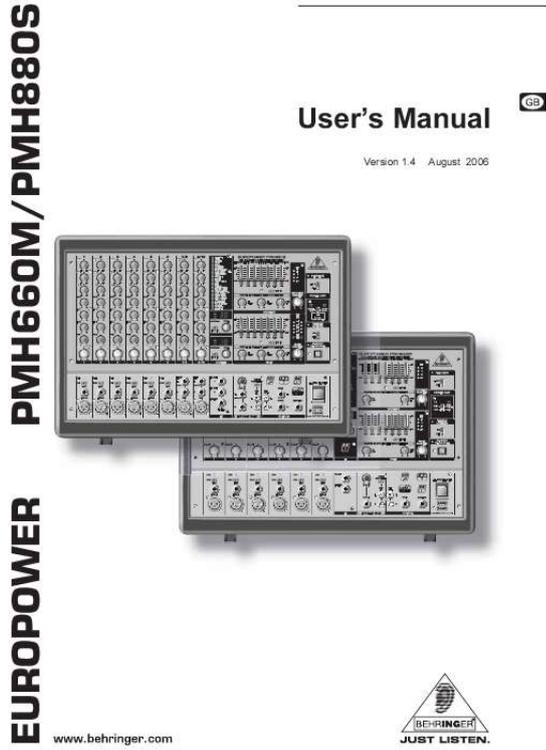




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You can read the recommendations in the user guide, the technical guide or the installation guide for BEHRINGER PMH880S. You'll find the answers to all your questions on the BEHRINGER PMH880S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BEHRINGER PMH880S
User guide BEHRINGER PMH880S
Operating instructions BEHRINGER PMH880S
Instructions for use BEHRINGER PMH880S
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PMH660M/PMH880S

EUROPOWER

User's Manual 

Version 1.4 August 2006

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Manual abstract:

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 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.

WARNING: 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 and no objects filled with liquids, such as vases, shall be placed on the apparatus. 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.

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 operation instructions unless you are qualified to do so. 2 EUROPOWER PMH660M/PMH880S FOREWORD Dear Customer, Welcome to the team of BEHRINGER users and thank you very much for expressing your confidence in us by purchasing this power mixer. 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: to present you two outstanding power mixers that give you maximum flexibility and performance with a unique sound character and broad range of striking functions. The task of designing our PMH series of power mixers 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 all who 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 shaping our company and making 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 you who have made the Project PMH 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, TABLE OF CONTENTS 1.

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..... 13 Uli Behringer + CAUTION! We would like to point out that high volume levels may damage your hearing and/or your headphones. Please turn the MAIN MASTER and MONITOR MASTER controls fully counter-clockwise before switching on the device.

Always make sure that the appropriate volume is set. 3 EUROPOWER PMH660M/PMH880S 1. INTRODUCTION Congratulations! With the PMH660M/PMH880S you have acquired a state-of-the-art power mixer that sets new standards. Right from the very start it has been our goal to design a revolutionary unit that can be used for a wide variety of applications. And indeed, this overwhelming power mixer gives you plenty of functionality and a broad range of connection and expansion options. 1.1.2 Initial operation Be sure that there is enough air space around the unit for cooling and, to avoid overheating, please do not place the EUROPOWER near radiators, etc. + Blown fuses must be replaced by fuses of the same type and rating! Please refer to the SPECIFICATIONS for details. The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all of the international safety certification requirements. + Your power mixer features our revolutionary Coolaudio amplifier technology that reduces weight and size of your device and provides extreme high output power. Further advantages are the integrated Voice Canceller that removes vocal tracks from a playback, the FBQ function for feedback detection and the Speaker Processing function for adjusting the frequency response of any loudspeaker and everything with 24-bit/46 kHz resolution. The mixing consoles of the PMH series feature a state of the art, integrated switch-mode power supply (SMPS). One of the great advantages is that (compared to conventional circuits) a switch-mode power supply adapts to mains voltages between 100 and 240 volts automatically. Furthermore, due to its much greater efficiency, it consumes much less energy than a conventional power supply unit. BEHRINGER is a company with its roots in professional recording studio technology.



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For many years we have been successful in developing products for studio and live use. These include microphones and 19" units of all types (compressors, enhancers, noise gates, tube processors, headphone amplifiers, digital effects, DI boxes, etc.), monitor and P.

A. speakers as well as professional live and recording mixers. Our entire technical know-how has gone into your PMH power mixer. Please make sure that all units have proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or on the AC power cord. 1.1.3 Online registration Please, do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com 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). Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation! 1.

1 Before you get started 1.1.1 Shipment Your PMH was carefully packed at the factory and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage which may have occurred during transit. 1.

2 The manual This manual is designed to give you both an overview of all control elements and to provide detail about how to use them. To provide you with a clear structure, we have grouped the control elements according to their function. They can easily be found on the enclosed numbered illustrations. If you need more detailed information on specific topics, please visit our web site www.behringer.com.

The product-related information pages and the ULTRANET-based glossary explain the relevant audio engineering terminology in full detail. + + + + If the unit is damaged, please do NOT return it to BEHRINGER, but notify your dealer and the shipping company immediately. Otherwise, claims for damage or replacement may not be granted. We recommend that you use a flight case, so as to give your power mixer optimum protection during use or transport. Always use the original packing carton to prevent damage during storage or transport. Make sure that children cannot play unsupervised with the device or its packaging. Please ensure proper disposal of all packing materials. 4 1. INTRODUCTION EUROPOWER PMH660M/PMH880S 2.

CONTROL ELEMENTS A detailed description of all functions of your power mixer can be found in the following chapters. Please also refer to the enclosed sheet with the numbered illustrations to get an overview of the control layout. 2.2 Effects section List of all multi-effects presets. LED level meter of the effects processor. Since the PMH880S allows you to select two effects simultaneously, it also has two level meters (DUAL FX). Be sure that the clip LED illuminates for signal peaks only. If it is illuminated all the time, it is a sign that the effects processor is overloading and hence producing unpleasant distortion. The EFFECT display (PMH880S: two displays) shows the currently selected preset. Turn the PROGRAM control (PMH880S: one control each for FX 1 and FX 2) to select an effects preset (preset number starts flashing).

Push the control briefly to confirm your selection. Press the FX IN button (PMH880S: FX 1 IN and FX 2 IN) to activate the effects processor. 2.1 Mono and stereo channels The HI control in the EQ section governs the high-frequency range of the respective channel. Use the MID control to boost or cut the mid-range frequency outputs or stereo drum machines.

+ Please remember to use either the microphone or the line input of a channel at a time, but never both at the same time! 2. CONTROL ELEMENTS 5 EUROPOWER PMH660M/PMH880S signal, and OUTPUT B the main signal (mono). In BRIDGE AMP MODE the output power of outputs A and B are added and provided at OUTPUT B. The PMH660M also has three operating modes, since it can be operated in two modes with the switch in its upper position (MAIN/MAIN (BRIDGE) mode), depending on the pin connections of the speaker cables. In MAIN/MAIN (BRIDGE) mode power of both outputs is added and provided at OUTPUT B (SPEAKON cable, pins 1+/2+).

With the normal pin connections (SPEAKON cable, pins 1+/-) a main signal is provided in this mode at OUTPUT A and B (not bridged). In MON/MAIN mode, the mixer can also be used as a dual mono amplifier, i.e. OUTPUT A provides the monitor signal, while the main signal is present at OUTPUT B. Please refer to Loudspeaker connectors. as well as chapter 4.4 The VOICE CANCELLER filters vocal-specific frequencies from the 2TR IN signal. This function can be used for karaoke, i.e. you can remove the vocals from a song and then sing along with the music yourself.

The REC OUT (RCA) provides line-level signals from the power mixer to a DAT recorder, for example. On the PMH880S the REC OUT signal is stereo and on the PMH660M two identical mono signals are provided. If the REC OUT signal is connected to a recorder whose output signal is returned to the 2TR IN, feedback can occur when you activate the record function. So, disconnect the 2TR IN from the recorder, before you start recording! The MAIN 1/4" connectors allow you to send the main signal to an external amplifier, when you only wish to use the mixer and effects section. The signal is taken prepower stage of the mixer. It is also possible to use only the left jack of the output. The PMH660M has only one mono output connector. Connect your monitor power amps or active monitor speakers to the mono MONITOR output to monitor the signal mix created with the MON controls or to route it to the musicians on stage. Use the POWER switch to put the unit into operation. The POWER switch should always be in the Off position when you are about to connect the unit to the mains.

Please note: The POWER switch does not fully disconnect the unit from the mains. Unplug the power cord completely when the unit is not used for prolonged periods of time. + + + In BRIDGE mode, always connect only one loudspeaker with an impedance of at least 8 W to OUTPUT B (pins 1+/2+)! @ @ In all other operating modes, the minimum impedance of the speaker connected must not fall below 4 W. Use the SPEAKER PROCESSING switch to activate a filter that adapts the mixer to the specifications of your loudspeakers. If the speakers have a limited frequency response in the bass range, it allows you to adapt it optimally to the frequency response of the speakers.



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If **STANDBY** is pressed, all input channels are muted. During breaks you can thus prevent the microphones from picking up noise or interference, which would then be reproduced by the P.A. system. The advantage is that all faders can be left untouched while you play a CD via the CD/TAPE inputs (see). There is also no need to move down the faders of muted channels and lose your mix. + 2.4 Rear panel The mains connection is on a standard IEC receptacle. An appropriate power cord is supplied with the unit. **FUSE HOLDER**. Before connecting the unit to the mains, ensure that the voltage setting matches your local voltage. Blown fuses should only be replaced by fuses of the same type and rating. Please also read the information given in chapter 6 **SPECIFICATIONS**. These are the two cooling fans of the unit. Loudspeaker **OUTPUT A**.

PMH880S: Depending on the operating mode selected (see) either the left main signal or the monitor signal is provided at **OUTPUT A**. NEVER use this output in bridged mono mode. **PMH660M**: In **MON/MAIN** mode, the monitor signal is provided at **OUTPUT A** (see). NEVER use this output in bridged mono mode, except when you use a cable with the normal pin connections (**SPEAKON** cable: pins 1+/1-). In this case you can take the mono main signal from this output in **MAIN/MAIN (BRIDGE)** mode (not bridged). Please also refer to chapter 4.4 Loudspeaker connection. The impedance of the loudspeaker connected must not fall below 4 W. Please note that the power delivered to the speaker in bridged mono mode is considerably higher than in other operating modes.

Please read the information given on the rear panel of the power mixer.

Loudspeaker **OUTPUT B**. **PMH880S**: Depending on the operating mode selected (see) either the right main signal, the mono main signal or the bridged mono signal is provided at **OUTPUT B**. 2.3.1 Connectors The **FOOTSWITCH** connector is for a standard footswitch.

You can activate an effect bypass that mutes the effects processor. Please use a dual footswitch for the **PMH880S**, so that you can enable/disable **FX1** and **FX2** independently of each other. In this case, the tip of the 1/4" plug controls **FX1**, and the ring **FX2**. The **FX OUT** connector is used to route the **FX SEND** signal from the input channels, for example, to the input of an external effects processor. @@@@This can be the signal generated by an external effects processor.

@@The **PMH660S** has only one mono **AUX IN** connector. @@@@Please also refer to chapter 4.4 Loudspeaker connection. **CHORUS**: This effect slightly detunes the original signal. @@@@The variations available range from slow to fast chorus effects. @@@@The same audio signal was recorded on both machines. @@@@The generated delay results in phase shifting of the signals. @@@@The resulting sound is thicker and above all livelier. This effect is often used for guitar sounds and keyboards. @@@@The **PMH** offers you four different phaser variations.

@@@@In all other operating modes, the minimum impedance of the speaker connected must not fall below 4 W. Information on how to properly connect your speaker with regard to polarity can be found on the rear of the mixer (**PINOUTS**). **SERIAL NUMBER**. + + 3. **DIGITAL EFFECTS PROCESSOR A** special feature of your **PMH880S** and **PMH660M** is the builtin multi-effects processor that features the same audio quality as our renowned studio-grade **VIRTUALIZER PRO DSP2024P**. The **PMH880S** even has two effects processors, each of them with 99 different standard effects such as reverb, chorus, flanger, delay, vocal distortion as well as various effects combinations. **CATHEDRAL**: Simulates the dense, long reverberation of a large cathedral, which is appropriate for solo instruments or vocals in slow pieces. Choose between two variations. **PLATE**: Simulates the sound of plate reverberations and hence is a classic for drums (snare) and vocals. The second one features more high-end sparkle than the first.

CONCERT: Select between a small theater and a large hall. Although this program is similar to studio (see below) it features more presence, which adds to its lively character. **STAGE**: Is well suited for dissipating the sound of a keyboard or an acoustic guitar. **ROOM**: You can clearly hear the walls of the room. A useful program for reverb that isn't directly noticeable (rap, hip hop vocals) or to make dry recordings of instruments sound natural again.

STUDIO: This simulation of a middle to large-sized room is also available in two variations. Both variations sound very natural and can be used as all-purpose effects. **SMALL HALL**: Simulates a small, lively (strongly reflecting) hall and is perfect for processing drums. **AMBIENCE**: Reproduces a middle-sized room without late reflections. **EARLY REFLECTIONS**: The initial reflections of this room are clearly audible.

This effect is a classic for dynamic signals (drums, percussion, slap bass, etc.). **SPRING REVERB**: Simulates classic spring reverberation. **GATED REVERB**: This effect synthetically cuts off reverberation after a period of time. It is famous in the song *In the Air Tonight* by Phil Collins. The variations differ in the reverb length. **REVERSE REVERB**: This is a reverberation in which the envelope is reversed, i.e. it slowly gets louder. **DELAY**: A delay of the input signal with various repetitions.

Different tempo settings (ten variations in total) allow interesting delay effects. **ECHO**: Similar to the stereo delay, with the difference being that the repetitions have less presence. This simulates the character of the original tape echo that was used before the digital era and can be thought of as a Vintage Sound. **MULTI TAP**: A delay effect with changing stereo positioning (left, center, right). Four variations are available. **CHORUS & REVERB**: This algorithm combines the popular chorus with a reverb effect. Taking all variations into account, they differ in the length of reverb time. **FLANGER & REVERB**: The combination of flanger and reverb effects. **PHASER & REVERB**: The combination of a classic stereo phaser and a reverb effect. Here, too, the phaser is combined with different reverb types.

ROTARY SPEAKER & REVERB: The combination of a rotary speaker effect and reverb program. **DELAY & REVERB**: Delay and reverb is the most common combination for vocals, solo guitars, etc. **PITCH & REVERB**: The pitch shifter slightly detunes the audio signal, while the reverb adds ambience to the signal. **DELAY & CHORUS**: Chorus can contribute to a wideness of the signal and interesting repetition effects can be adjusted with the delay. Vocals can be given a distinctive effect without making the voice sounding blurred.

DELAY & FLANGER: This effect is just right for creating a modern, slightly spacy vocal sound. 3. **DIGITAL EFFECTS PROCESSOR 7 EUROPOWER PMH660M/PMH880S DELAY & PITCH**: A repetition of the audio signal, with an oscillatory effect added by the pitch shifter. 3 **VOICE PITCH**: The pitch effect can be used to produce a cartoon-character type voice effect. **LFO BANDPASS**: Filters, in general, influence the frequency response of a signal. A low-pass filter allows low frequencies to pass and suppresses high frequencies, while a high pass filter allows high frequencies to pass and suppresses low frequencies.



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This LFO bandpass effect is complemented by modulation from an LFO (Low Frequency Oscillator). VOCAL DISTORTION: This effect is very hip when used on vocals and drum loops. VINYLIZER: This effect adds clicks and noise to your audio signal, simulating old vinyl records. SPACE RADIO: Here, the typical sound of scanning an FM tuner is simulated. This can be a very interesting effect when sound-tracking radio plays. TEST TONE: Use this 1-kHz test tone to facilitate P.A. level setting. Fig.

4.1: 1/4" TS connector 4. INSTALLATION 4.1 Mains connection Blown fuses must be replaced by fuses of the same type and rating. The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all of the international safety certification requirements. Fig. 4.2: 1/4" TRS connector + Please make sure that all units have a proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or of the AC power cord.

4.2 Audio connections The inputs and outputs of the BEHRINGER EUROPOWER are unbalanced 1/4" TS connectors except for the balanced mono line inputs. Of course, all inputs and outputs work with both balanced and unbalanced connectors. The Tape Ins and Outs are on stereo RCA connectors. Fig. 4.3: XLR connectors + Please ensure that only qualified personnel install and operate the power mixer. 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" TS connector for footswitch + Please use a dual footswitch for the PMH880S, so that you can enable/disable FX1 and FX2 independently of each other. In this case, the tip of the 1/4" plug controls FX1, and the ring FX2. 8 4. INSTALLATION EUROPOWER PMH660M/PMH880S OUTPUT B +1 OUTPUT A +1 Fig. 4.5: RCA cable 4.3 Loudspeaker connection Your EUROPOWER is equipped with high-quality NEUTRIK SPEAKON-compatible loudspeaker connectors, which ensure safe and trouble-free operation. The SPEAKON connector was especially developed for high-power loudspeakers. Once it is plugged in, it safely locks into position and cannot be accidentally disengaged.

It prevents the occurrence of electrical shock and ensures the correct polarity. Each of the connectors carries only the assigned single signal (see tab. 4.1/fig. 4.7 and the information on the rear panel of the power mixer). 8 4 -1 -1 8 4 BRIDGE +1 16 8 +2 Fig. 4.7: SPEAKON connector assignment Fig. 4.

6: Loudspeaker connector Please be sure to only use commercial SPEAKON cables (type NL4FC) for connecting your loudspeakers to the mixer. Please check the pin connections of your loudspeakers and cables depending on the EUROPOWER speaker output you choose. PVUQVU6 H6DIG HPI PVUQVU7 PVUQVU7 H6DIS HPIP 7SD9B@ PVUQVU6 H6DIHPIP HPI 7SD9B@ PVUQVU7 H6DIHPIP H6DI 7SD9B@ @VSPQPX@SQHC%T 1+ POS POS 1+ POS POS POS 1NEG NEG 1NEG NEG 2+ POS 2+ NEG 2NEG 2- @VSPQPX@SQHC%%H 1+ POS POS 1+ POS POS POS 1NEG NEG 1NEG NEG 2+ 2+ NEG 22- Tab. 4.1: Pin connections of loudspeaker connectors 4.

INSTALLATION 9 EUROPOWER PMH660M/PMH880S 5. WIRING EXAMPLES For stereo operation the POWER AMP switch of the PMH880S must be set to its upper position (MAIN L/MAIN R). Outputs A and B deliver the stereo main signal to the P.A. speakers.

Two active speakers, wired in parallel, are connected to the PREAMP MONITOR output. They are used as on-stage monitor speakers. The effects processors can be switched on and off with a dual footswitch. This set-up is not possible with the PMH660M (no stereo operation possible). Both the PMH880S and the PMH660M can be set-up for dual mono operations. The POWER AMP switch must be set to its lower (PMH660M) or center position (PMH880S). The two loudspeaker outputs provide the main and the monitor signals independently of each other and to two loudspeakers each, which are wired in parallel. Fig. 5.2: EUROPOWER mixer as a dual mono amplifier (example) Fig.

5.1: EUROPOWER mixer as a stereo amplifier (example) 10 5. WIRING EXAMPLES EUROPOWER PMH660M/PMH880S This illustration shows just one example of how the channels of your power mixer can be used, including the connection of mono and stereo sources, and the tape ins and outs recording the mix signal or playing back external signals. One example of how to use your power mixer with a subwoofer in bridged mono mode. The illustration shows the PMH880S with a subwoofer connected to OUTPUT B that will receive the full (bridged) output power. A separate stereo power amp (BEHRINGER EUROPOWER EP1500) for the stereo main P.A. signal is connected to the PRE AMP MAIN outputs. The PRE AMP MONITOR output is wired to active speakers on the stage. This application can also be realized with the PMH660M, except for the main P.

A. signal, which would be mono. Fig. 5.3: Standard set-up (example) Fig.

5.4: EUROPOWER in bridged mono mode 5. WIRING EXAMPLES 11 EUROPOWER PMH660M/PMH880S 6. SPECIFICATIONS HD8SPQCPI@DIQVUT Type Mic E.I.

N. (20 Hz - 20 kHz) @ 0 source resistance @ 50 source resistance @ 150 source resistance QHC%%H QHC"T XLR, electronically balanced input circuit X X X Frequency response Gain Max. input level Impedance Signal-to-noise ratio Noise (THD + N) Type Impedance Max. input level Type Impedance Max. input level Low Mid High HPIP@DIQVUT -112 dB / 114 dB A-weighted -112 dB / 114 dB A-weighted -112 dB / 114 dB A-weighted < 10 Hz - 200 kHz (-1 dB) < 10 Hz - > 200 kHz (-3 dB) +30 dB, +10 dB with pad +12 dBu @ +10 dB gain approx. 2.2 kX balanced / 1.1 kX unbalanced 110 dB / 114 dB A-weighted (0 dBu In @ +10 dB gain) 0.001% / 0.0007% A-weighted 1/4" TS connectors, balanced approx.

20 kX balanced +21 dBu 1/4" TRS connectors, unbalanced approx. 100 kX unbalanced +21 dBu 80 Hz / +/-15 dB 2.5 kHz / +/-15 dB 12 kHz / +/-15 dB RCA approx. 10 kX TU@S@PGDI@DIQVUT @RV6GD@S !US68FDIQVU QS@6HQPVUQVUT MAIN Type Impedance Max. output level MONITOR Type Impedance Max. output level Type Impedance 1/4" TS connectors, unbalanced approx. 150 +21 dBu X unbalanced X unbalanced TU@S@PPVUQVUT 1/4" TS connectors, unbalanced approx. 150 +21 dBu RCA, mono output approx. 1 kX +21 dBu 1/4" TRS connectors, unbalanced approx. 150 +21 dBu RCA approx.

1 kX +21 dBu H6DIHDYT TU@H96U6 Noise MAIN MIX @ -oo Channel fader -oo MAIN MIX @ 0 dB Channel fader -oo MAIN MIX @ 0 dB Channel fader @ 0 dB Type Impedance Max. input level Type Impedance Max. input level X unbalanced -102 dB/-106 dB A-weighted -88 dB/-91 dB A-weighted -84 dB/-86 dB A-weighted NEUTRIK SPEAKON-compatible GVP9TQ@6F@SPVUQVUT Type Load impedance MAIN L/R MONITOR/MAIN MONO MAIN MONO/MAIN MONO BRIDGE 9TQ 4-8 4 - 8X 8 - 16X 24-bit Delta-Sigma, 64/128-times oversampling 90 dB 46.875 kHz max. 5 secs approx.

1.5 msec 2-digit, 7-segment LED 2 x 2-digit, 7-segment LED Output power 2 x 200 W 1 x 400 W 100 - 240 V~, 50 / 60 Hz 500 W US6C 250 V IEC standard receptacle approx.



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12 2/5" x 18 1/10" x 8 3/5" approx. 315 mm x 460 mm x 220 mm 8.5 kg 18.

74 lb. 9.4 kg 20.73 lb. 2 x 400 W 1 x 600 W X 4 - 8X 9DTQG6 `Converter Dynamics D/A Sampling rate Delay Time Signal run time (Line In > Line Out) Type 6HQGDAD@S QPX@STVQQG `Output power @ 4 Output power @ 8 X XBRIDGE) 9DH@ITDPITX@DBCUC Weight Mains voltage Power consumption Fuse Mains connector Dimensions (H x W x D) U%"6C 250 V 700 W 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. 12 6. SPECIFICATIONS EUROPOWER PMH660M/PMH880S 7. WARRANTY 1 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. 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. Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealers invoice. @@2. @@@@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. 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. 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. * Customers in the European Union please contact BEHRINGER Germany Support for further details. Technical specifications and appearance subject to change without notice. The information contained herein is correct at the time of printing. The names of companies, institutions or publications pictured or mentioned and their respective logos are registered trademarks of their respective owners. Their use neither constitutes a claim of the trademarks by BEHRINGER nor affiliation of the trademark owners with BEHRINGER. BEHRINGER accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Colours and specification may vary slightly from product. Products are sold through our authorised dealers only.

Distributors and dealers are not agents of BEHRINGER and have absolutely no authority to bind BEHRINGER by any express or implied undertaking or representation. 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 International GmbH. BEHRINGER is a registered trademark. ALL RIGHTS RESERVED. 2006 BEHRINGER International GmbH, Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Muenchheide II, Germany. Tel. +49 2154 9206 0, Fax +49 2154 9206 4903 7. WARRANTY 13.



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