

SMPRO



HP6E

Operating Manual

August 2012



SMPRO

SAFETY INSTRUCTIONS

CAUTION: To reduce the risk of electrical shock, do not remove the cover or rear panel of this unit. No user serviceable parts inside. Please refer servicing to qualified personnel only.

WARNING: To reduce the risk of fire or electrical shock do not expose this appliance to rain or moisture.

DETAILED SAFETY INSTRUCTIONS:

All safety and operation instructions of this manual should be read and adhered to before operation.

Retain Instructions:

Please retain all safety and operating instructions for future reference.

Follow instructions:

All operation and user instructions should be followed.

Water, liquid and Moisture:

The appliance should not be used near water, rain or other liquids. Make sure that no liquid can leak, spill or otherwise seep into the appliance.

Ventilation:

Please place the appliance so no obstacles interfere or impede the flow of air through the ventilation openings.

Heat:

The appliance should be situated away from other heat sources such as heaters, radiators, ovens, or other appliances that produce heat.

Power Source:

Make sure your appliance is set to the correct voltage for the country in which it will be use before switching the device ON.

Grounding and Polarization:

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

Power-Cord Protection:

Power supply cords should be routed so that they are not likely to be walked on, pinched, damaged, worn, or rubbed by any other device or obstacle.

Cleaning:

The appliance should be cleaned only with a light soft cloth. Do not use any damaging or corrosive products on the unit.

Periods of inactivity:

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time or in case a lightning storm occurs.

Damage Requiring Service:

The appliance should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

Servicing:

The user should not attempt to service the appliance beyond that is described in the Operating Instructions.

All other servicing should be referred to qualified service personnel.

FOREWORD

Dear Customer,

Thank you very much for expressing your confidence in SM ProAudio products by purchasing this unit. The HP6E has been designed to be used as a standard tool for home/pro studios, P.A. rental companies, Schools and in many other situations where audio products would be used. With much experience in the audio industry over a long period of time, and along with valuable suggestions from our customers, our engineers have developed a product we know you will be satisfied with. We guarantee you uncompromising quality as well as excellent technical and audio properties at an extremely affordable price.

Regards,
SM ProAudio

INSTALLATION

Your SM Pro Audio HP6E was carefully packed in the factory and the packaging was 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 in transit.

If the unit is damaged, please do not return it to us, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted. Shipping claims must be made by the consignee.

PLACEMENT

The SM Pro Audio HP6E has an electronic circuit inside as well as isolation transformers. Be sure that there is enough air space around the unit for cooling. As to avoid overheating, please do not place the units on high temperature devices such as power amplifiers or near other units which may have high frequency transmittance such as wireless devices.

MAINS VOLTAGE

The HP6E can be used with voltages ranging from 100V AC to 250V AC, please make sure that you have selected the correct voltage range on the back of the unit and that the required fuse setting is correct as well before switching the unit ON. Any damage occurring as a result of incorrect voltage selection may not be granted a warranty repair.

1. HP6E MAIN FEATURES

- 10 TRS inputs, 5 stereo channels
- Mix add control for each amplifier output
- 6 class A stereo headphone amplifiers
- Nominal output @ 32Ohm 600mw per channel
- Frequency response @100mw output 20Hz-20kHz +/- 0.3 dB
- Built in flash memory for last state memory save
- Sturdy metal construction
- 1U 19" rack-mountable device

2. INTRODUCTION

The HP6E is a high-quality, powerful, flexible, and reliable six (6) channel headphone amplifier housed in a sturdy 1RU 19" standard rack-mountable metal chassis. The HP6E boasts a variety of improvements over the standard headphone amplifiers including improved frequency response, additional power, digital control of input selection and a fifth mix input. Built in flash memory has also been added to allow for last state memory recall of the input selection for each channel... perfect for saving critical studio time. The HP6E's flexible design allows any of the four (4) available audio input source signals can be routed to any of the 6 Class A headphone amps provided on the HP6E. An additional fifth stereo signal can also be mixed into each individual headphone channel. This allows for endless application support including studio monitoring, live monitoring, in ear individual mixing, signal distribution and more.

3. THE DESIGN CONCEPT

3.1 High quality components and design

The philosophy behind SM Pro Audio products guarantees a no-compromise circuit design and employs the best choice of components.

3.2 Inputs and outputs

All inputs and outputs are secured firmly to the exterior chassis housing. This ensures robust quality and confidence in performance under all conditions.

4. HP6E FRONT PANEL

The panel has 6 mix controls, 6 level controls, 6 selector switches, 6 1/4" 6.5mm output jacks and a power switch.



4.1 LED indicators

The LED indicators are an easy way for the user to see which one of the inputs they are listening to on the HP6E.



4.2 Selector switch

Use this switch to select which input you want to listen to. The inputs will keep scrolling each time you press the button. The state of the input (the chosen number) will automatically be saved when the unit is switched OFF.



4.3 Mix volume

The 5th stereo input on the HP6E is the MIX input. You are able to dial in as much as needed of this input and mix it together with the other selected input.



4.4 Headphone level

Use this control to adjust the overall headphone output level



4.5 Headphone output

Use this output to connect your headphones. Make sure that your headphones are not below 80ohm in resistance otherwise you may damage the HP6E.



4.6 Power switch

This switch is used to switch the HP6E ON or OFF. Make sure correct voltage is selected on the unit before switching the power ON.

5. HP6E BACK PANEL

The back panel has 4 stereo 1/4" (6.5mm) inputs, a MIX input, a power cord connector and a Voltage selector switch.



5.1 Mix input

Use this input to connect audio signal you may want to mix into every headphone channel. If you only have a mono signal and want both sides of the headphone to operate then use the LEFT input.



5.2 Selected signal inputs

Use these inputs to connect an audio signal which individually can be selected by any one of the 6 headphone output channels. If you only have a mono signal and want both sides of the headphone to operate then use the LEFT input.



5.3 Link function

Left/right inputs 1 are mirrored at the LINK output. This allows you to feed the source signals, daisy-chain style, to additional units, for expanding the system. Set your first HP6E to 'Master' and your second HP6E to 'Link'. Connect the two HP6Es with one TRS cable.



5.4 Voltage selector and power cord input

Make sure the correct voltage is selected before using or connecting any power connectors to the HP6E. Failure to do so will cause damage to the unit.

6. APPLICATION

Using the HP6E

Make sure the HP6E is switched OFF and that all the volume levels are set to the minimum amount before connecting any headphones for the first time. Make sure the right voltage has been selected in the back of the unit and then power the unit ON.

Connect an audio signal to one of the inputs at the back of the unit and then your headphones to one of the outputs on the front of the unit. Select the appropriate input on the front panel corresponding to the input you have used at the back of the unit and slowly increase the level of the headphones.

Be careful! The HP6E is very loud and can easily damage your ears if not used properly. Never switch the unit ON or OFF while wearing headphones.

An example of using the MIX input might be if the whole band is mixed onto one stereo channel and the individual singers are on each of the 4 selectable channels. The singers are then able to select how much of the MIX they want to hear compared to their own voice. Alternatively it can be used as a TALK BACK channel as well.

We are sure you will find many other uses for the HP6E.

7. WARRANTY

7.1 Warranty Card

To be protected by this warranty, the buyer must complete and return the enclosed warranty card (signed/stamped by retail dealer) within 14 days of the date of purchase to SM Pro Audio (see address below 3). Failure to return the card in due time (date as per postmark) will void any extended warranty claims.

7.2 Warranty

7.2.1. SM Pro Audio warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (3) years from the original date of purchase, in accordance with the warranty regulations described below. If any defects occur within the specified warranty period that are not caused by normal wear or inappropriate use, SM Pro Audio shall, at its sole discretion, either repair or replace the product.

7.2.2. If the warranty claim proves to be justified, the product will be returned freight prepaid by SM Pro Audio within Australia. Outside of Australia, the product will be returned at the buyer's expense.

7.2.3. Warranty claims other than those indicated above are expressly excluded.

7.3 Return Authorization Number

7.3.1. To obtain warranty service, the buyer must call SM Pro Audio during normal business hours BEFORE returning the product (Tel.: +61 3 9555 8081). All inquiries must be accompanied by a description of the problem. SM Pro Audio will then issue a return authorization number or by email to service@smproaudio.com

7.3.2. The product must be returned in its original shipping carton, together with the return authorization number, to the following address:

SM Pro Audio
Service Department
W25, 26-28 Roberna St
Moorabbin
Melbourne, Victoria
Australia 3189

7.4 Warranty Regulations

7.4.1. Warranty services will be furnished only if the product is accompanied by an original retail dealer's invoice. Any product deemed eligible for repair or replacement by SM Pro Audio under the terms of this warranty will be repaired or replaced in the best possible manner.

7.4.2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship.

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, SM Pro Audio shall not be held responsible for any cost resulting from such a modification/adaptation.

7.4.3. Free inspections, maintenance/repair work and replacement of parts are expressly excluded from this warranty, in particular if caused by inappropriate use. Likewise, the warranty does not cover defects of expendable parts caused by normal wear of the product. Expendable parts are typically pots, potentiometers, switches and similar components.

7.4.4. Damages/defects caused by the following conditions are not covered by this warranty:

- Misuse, neglect or failure to operate the unit in compliance with the instructions given in the 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.
- Damages/defects that are caused by any other condition beyond the control of SM Pro Audio.

7.4.5. Any repair carried out by unauthorized personnel will void the warranty.

7.4.6. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. SM Pro Audio will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 4 weeks after notification, SM Pro Audio will return the unit C.O.D. with a separate invoice for freight and packing. Such cost will also be invoiced separately when the buyer has sent in a written repair order.

7.5 Claim for Damages

Failure of SM Pro Audio to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of SM Pro Audio exceed the invoiced value of the product.

7.6 Other Warranty Rights

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.

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 SM Pro Audio.

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