

SM
PRO



DIB8

Operating Manual

August 2012



SM PRO

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 Pro Audio products by purchasing this unit. The DI8E 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 ProAudio DI8E 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 ProAudio DI8E 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 DI8E 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. DI8E MAIN FEATURES

- line inputs
- Stereo Link input
- 8 channel Mixer
- Earth lift per channel
- 20dB pad per channel
- Volume per channel
- Pan control per channel
- Master Volume control
- Stereo Line output
- 8 Link (TS) outputs
- 8 XLR outputs

2. INTRODUCTION

The DI8E is a multi function 8 channel direct injection box and stereo line mixer in a standard 19" rack-mountable chassis. Suitable for many applications right out of the box, the DI8E offers 8 channels of Unbalanced to Balanced converters featuring independent 20dB pad and earth/ground lift options. Volume, Pan, and an independent stereo master output allows the DI8E to double as a multi channel line mixer. Application: DI, Keyboard player, electronic drummer, Bass player, PA/Studio owner, pro musician, broadcasting.

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. DI8E FRONT PANEL

The front panel offers 8 volume controls, 8 Pan controls, 8 Ground/Earth lift switches, 8 20dB Pad switches, 8 line input and Link Jacks (6,5mm 1/4"), a master volume control and a stereo headphone output connector (6,5mm 1/4").



4.1 Master Level

The Master Level control allows for the adjustment of both the headphone output level and the master stereo output on the rear of the DI8E.



4.2 Headphone Output

Connect your headphones to the Headphone Output socket. Ensure headphones are not below 80hm in resistance otherwise you may damage the DI8E.



4.3 Ground/Earth Lift Switch

The Ground/Earth Lift Switch allows you to break the ground connection between the relevant channel line input and the corresponding audio destination (typically a mixing console). Enable the Ground/Earth switch when the input

channel on your destination device (mixing desk) exhibits excessive HUM from the connected source material.



4.4 Mixer Volume and Pan

The Mixer Volume and Pan controls adjust level and pan of each channel in the Stereo Outputs and Headphone output.

**Note: This does not change the volume of each individual XLR output.*



4.5 20dB Pad Switch

The PAD switch attenuates the selected channels signal level by 20dB. Use only if you have extremely high input signal gain.



4.6 Power Switch

Toggle the DI8E ON or OFF using the Power Switch. Make sure correct voltage is selected on the unit before switching the power ON.

5. DI8E BACK PANEL

The back panel offers 8 XLR outputs, 2 stereo TS outputs, voltage selector, and an IEC power cord connector.



5.1 XLR Outputs

The balanced XLR outputs correspond directly to the TS Jack inputs on the front panel. Note: The Volume and Pan controls of the channel do not effect this output. The Ground/Earth Lift and 20dB PAD do.



5.2 Master Output

The Master Output delivers a stereo mix of all the input channels. Each channels Volume and Pan are individually controlled whereas the Master Level is controlled by the Master Volume Level on the front panel.



5.3 Link Input

When several DI8E's are to be used together to output a single stereo mix, the output from one DI8E can be connected to the next DI8E via the Link input (TS stereo input). The user is then able to mix 16-24-48 channels to one Stereo Mix Output.



5.4 Voltage selector and power cord input

Make sure the correct voltage is selected before using or connecting any power source to the DI8E. Failure to do so will cause damage to the unit.

6. APPLICATION

6.1 Using the SM DI8E as a DI Box (direct injection unit)

Connect the signal you would like to convert from unbalanced to balanced to the SM DI8E via a 1/4 inch unbalanced jack to one of the channel inputs on the front panel of the unit. Connect an XLR balanced cable to the corresponding channel output on the rear of the SM DI8E and connect to your chosen destination. If the input signal strength is too „hot“ (high) you can depress the 20dB PAD switch to adjust to a more appropriate level.

If there is an earth loop hum you can remove by depressing the earth lift switch.

6.2 Using the SM DI8E as a line mixer

You can mix volume & pan of all input signals to a single stereo pair of TS connections on the rear of the SM DI8E. This enables use of the unit as a fully functional line mixer. This can be very handy for many applications both live and in the studio. Just connect the TS stereo master outputs on the rear to your chosen destination (eg. Monitor amplifier) and adjust the individual volume and pan controls for each individual channel on the front of the SM DI8E to suit your needs. A master volume control is provided on the front panel in addition to the individual controls.

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.

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

www.smproaudio.com
