



# di4 DIRECT BOX

## 4-CHANNEL DIRECT INJECTION BOX



# OWNER'S MANUAL

## Warranty

1. Please register your product online at [www.dbxpro.com](http://www.dbxpro.com). Proof-of-purchase is considered to be the responsibility of the consumer. A copy of the original purchase receipt must be provided for any warranty service.
2. dbx warrants this product, when purchased new from an authorized U.S. dbx dealer and used solely within the U.S., to be free from defects in materials and workmanship under normal use and service. This warranty is valid to the original purchaser only and is non-transferable.
3. dbx liability under this warranty is limited to repairing or, at our discretion, replacing defective materials that show evidence of defect, provided the product is returned to dbx WITH RETURN AUTHORIZATION from the factory, where all parts and labor will be covered up to a period of two years. A Return Authorization Number must first be obtained from dbx. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. dbx reserves the right to make changes in design or make additions to or improvements upon this product without incurring any obligation to install the same additions or improvements on products previously manufactured.
5. The foregoing is in lieu of all other warranties, expressed or implied, and dbx neither assumes nor authorizes any person to assume on its behalf any obligation or liability in connection with the sale of this product. In no event shall dbx or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

## Technical Support & Service

If you require technical support, contact dbx Technical Support. Be prepared to accurately describe the problem. Know the serial number of your device – this is printed on a sticker attached to the chassis.

Before you return a product to the factory for service, we recommend you refer to this manual. Make sure you have correctly followed installation steps and operating procedures. For further technical assistance or service, please contact our Technical Support Department at (801) 566-8800 or visit [www.dbxpro.com](http://www.dbxpro.com). If you need to return a product to the factory for service, you MUST first contact our Technical Support Department to obtain a Return Authorization Number.

**NO RETURNED PRODUCTS WILL BE ACCEPTED AT THE FACTORY WITHOUT A RETURN AUTHORIZATION NUMBER.**

Please refer to the Warranty information, which extends to the first end-user. After expiration of the warranty, a reasonable charge will be made for parts, labor, and packing if you choose to use the factory service facility. In all cases, you are responsible for transportation charges to the factory. If the product is still under warranty, dbx will pay the return shipping.

Use the original packing material if it is available. Mark the package with the name of the shipper and with these words in red: DELICATE INSTRUMENT, FRAGILE! Insure the package properly. Ship prepaid, not collect. Do not ship parcel post.

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## Overview

### **Introduction**

Congratulations on your purchase of the dbx di4 Direct Box. The 4-channel di4 is designed to be used as a standard tool for many audio applications. Offering four channels, the di4 easily solves the problem of converting unbalanced signals into balanced output suitable for use with mixers, PAs, recording consoles and more. The di4 also functions as multi-channel stereo line mixer. This feature allows you to connect all your keyboards, samplers & modules into just one rack unit on stage and supply independent XLR balanced outputs to the stage box for a front of house engineer and set your own independent mix for stage monitoring. The di4 also offers a headphone output.

We hope your new dbx di4 will serve as an indispensable creative tool for your sound processing and music production needs. Thank you for choosing dbx.

Every effort has been made to ensure all information provided in this manual is accurate at the time of writing.

dbx Professional Products is not liable for any incorrect information contained in this manual and extends no liabilities in regard to this manual other than those required by local law.

dbx Professional Products may update the contents of this manual at any time without prior notice. The latest version of this manual is available from the dbx Professional Products website at all times.

<http://www.dbxpro.com>

### **Features**

- *Four independent DI Box units in 1/2 RU package*
- *Independent 20/40 dB pad switch per channel*
- *Ground lift switch*
- *Independent level control per channel for line mixer aux output*
- *Independent pan control per channel for line mixer aux output*
- *Master level for headphone output*
- *Headphone output*

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## Front Panel



### 1. GROUND LIFT SWITCHES

Use these switches to lift the ground in the input signal of each respective channel.

### 2. LEVEL CONTROLS

Independent level controls are provided for each channel. Use these variable controls to set the level of each channel's signal being sent to the stereo mixer aux and heaphone outputs.

### 3. PAN CONTROLS

Independent pan controls are provided for each channel. Use these variable controls to set the pan of each channel's signal being sent to the stereo mixer aux and heaphone outputs.

### 4. HEADPHONE LEVEL CONTROL

Sets the heaphone output level.

### 5. ATTENUATION (20 dB/40 dB PAD) SWITCHES

Use these switches to pad each input channel signal level by 20dB or 40dB. Use this only if you have an extremely high input signal strength.

### 6. UNBALANCED (TS) INPUT JACKS

Connect your signal sources to these 1/4" unbalanced TS connectors.

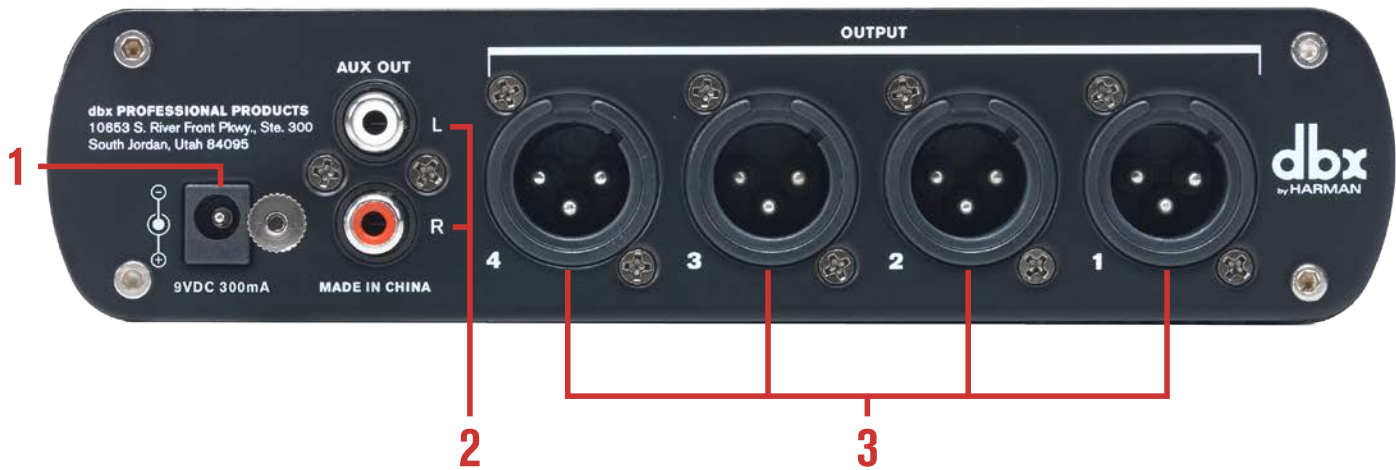
### 7. POWER STATUS LED

This LED will light when the di4 is on.

### 8. HEADPHONE OUTPUT JACK

The headphone output accommodates stereo headphones with a 1/4" stereo plug.

## Rear Panel



### 1. POWER SUPPLY JACK

Connect the external DC power supply to this jack.

### 2. UNBALANCED RCA AUX MIX OUTPUTS

Use these outputs for your own independent monitor mix.

### 3. BALANCED XLR OUTPUTS

Balanced signal outputs to connect to a mixer, stage box, etc.

## Applications

### Using the di4 as a Direct Box

Connect the signal you would like to convert from unbalanced to balanced to the di4 via a 1/4 inch unbalanced cable 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 di4 and connect to your chosen destination. If the input signal strength is too high you can engage the attenuation switch to pad the signal by 20dB-40dB. If there is ground loop hum you can remove it by engaging the ground lift switch.

### Using the di4 as a Stereo Mixer

You can mix level and pan of all input signals to a single stereo pair of RCA connections on the rear of the di4. This enables use of the unit as a fully-functional line mixer. Just connect the RCA stereo master outputs on the rear to your chosen destination and adjust the individual level and pan controls for each individual channel on the front of the di4 to suit your needs.

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## Specifications

### AUDIO INPUTS:

Number of Connectors:	4
Connection:	1/4" TS
Type:	Unbalanced
Input Impedance:	320k Ohms
Peak Input Level:	+15 dBu

### STEREO LINE MIXER OUTPUTS:

Connection:	RCA
Output Impedance:	600 Ohms
Maximum Output Level:	+16 dBu

### OUTPUTS:

Number of Connectors:	4
Connection:	Male XLR, Balanced, Pin 2 hot
Maximum Output Level:	+15 dBu

### DISTORTION, FREQUENCY RESPONSE, S/N RATIO & CROSSTALK::

Frequency Response:	20 Hz–20 kHz, 0 dB to -2 dB
THD+N:	0.0008% typical at +4dBu, 1 kHz
Interchannel Crosstalk:	<-90dB, 20 Hz–20 kHz
Dynamic Range:	129.5 dB (A-Weighted)

### POWER SUPPLY:

Power Requirements:	9 VDC external power adapter
Power Consumption:	775 mW
Power Adapter Model:	PS0913DC-04 (US, JA, EU, AU, UK)

### PHYSICAL:

Dimensions:	1 3/4" (44.5 mm) x 8" (230.6 mm) x 8 1/2" (217 mm)
Net Weight (Approx.):	3.85 lbs. (1.75 kg)

Specifications are subject to change without notice.

dbx 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 shown.

### IMPORTANT NOTE:

Every effort has been made to ensure all information provided in this manual is accurate at the time of writing. dbx is not liable for any incorrect information contained in this manual and extends no liabilities in regard to this manual other than those required by local law. dbx may update the contents of this manual at any time without prior notice. The latest version of this manual is available from the [dbx website](#) at all times.



**Phone:** (801) 566-8800  
**Website:** [dbxpro.com](http://dbxpro.com)  
**Support:** [dbxpro.com/support](http://dbxpro.com/support)

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di4 Owner's Manual  
Rev A

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