



exposure

XM HP Headphone Amplifier



Quick Start Manual

Thank you for purchasing the Exposure XM HP Headphone Amplifier
www.exposurehifi.com

Contents & before you start

Please check the contents in the box:



Exposure XM HP Headphone Amplifier



HS3 Remote Control
(Batteries not included)



Mains Cable



Driver Disc

Before you start



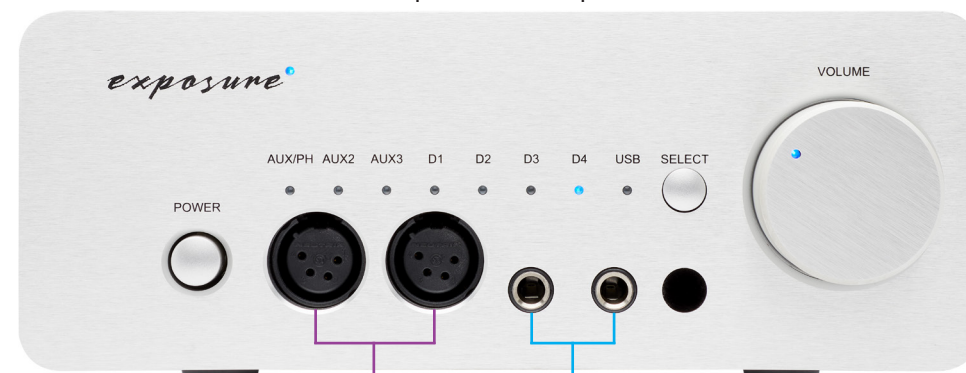
Ensure your unit is switched off and that the volume control knob is at it's minimum.



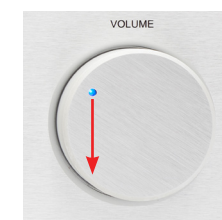
Please note that your Exposure XM HP Headphone Amplifier may take up to 48 hours to 'run-in' before reaching it's optimal performance. Each subsequent 'run-in' will then take about 20 minutes.

1 Installation

The XM HP Headphone Amplifier : Front View



Two (2) sets of headphones can be connected at any one time.



1. Please set the volume control knob to minimum before connecting or disconnecting any cables.



2. Connect the mains cable to the IEC mains input socket.



3. Connect to the mains outlet on the wall. DO NOT switch on until all input and output connections are made.

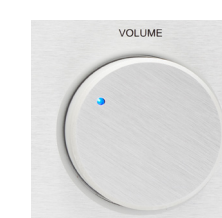
3 Operation



1. Turn the XM HP Headphone Amplifier volume control to minimum.



2. Press the power switch on the XM HP Headphone Amplifier. The LED power indicator will light up. The output relay will activate after a short delay.



3. Without playing any source, turn the volume control knob slowly clockwise to around 20%. You should only hear a *faint* hiss.



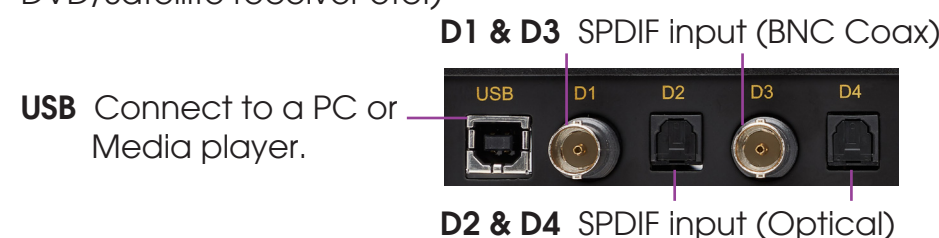
4. Press the select button for the desired input source, indicated by the LED.

Sound should now be heard when the input source is played.

2 Source Component Connections

DIGITAL INPUTS

The XM HP Headphone Amplifier is fitted with an USB input and four (4) SPDIF inputs (D1 to D4 are for connection to CD/DVD/Satellite receiver etc.)

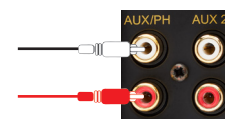


ANALOGUES INPUTS

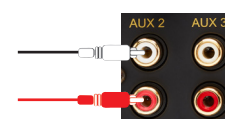
The XM HP Headphone Amplifier is fitted with three (3) analogue inputs; AUX/PH, AUX 2, and AUX 3.

1. Connect RCA Phono cables from each source component to the respective input. (Right channel is marked in red)
2. Ensure left and right channels are connected correctly. (Right channel is marked in red)

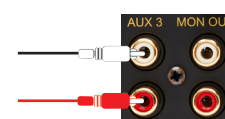
AUX/PH Connect to a Turntable that uses a Moving Magnet (MM) cartridge. Connect the arm ground wire to the ground terminal provided below the input socket.



AUX 2 Line level input to connect to any line level source.



AUX 3 Line level input to connect to any line level source.



The XM HP Headphone Amplifier : Back View



GROUND TERMINAL

For turntable arm ground wire

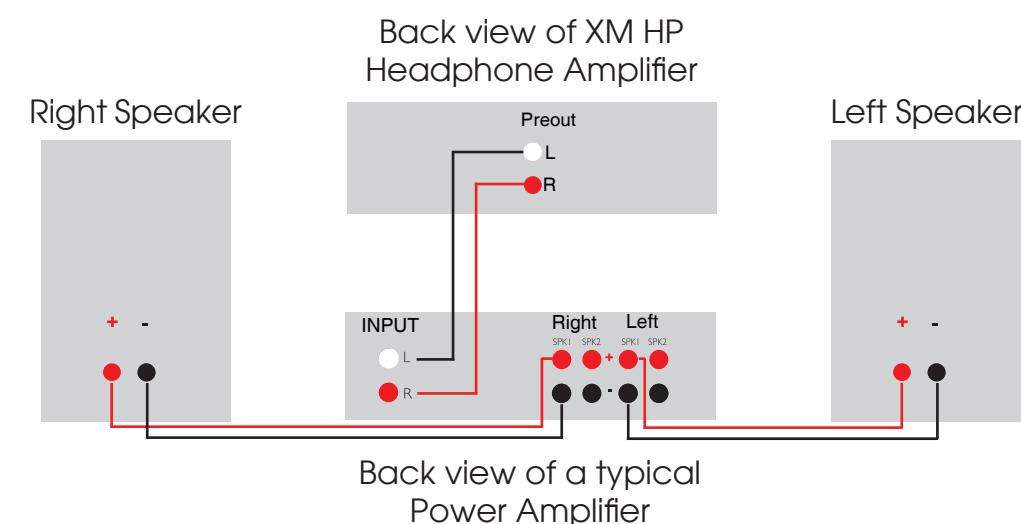
OUTPUTS

MON OUT

Monitor output for connection to a tape recorder input.

PRE OUT

Connect to an external Power Amplifier (see diagram below). Turn off the Power Amplifier when headphones are in use. When using the PRE OUT disconnect the headphones.



4 Remote Control



Functions for an Exposure CD Player.

Increase/decrease the volume. The LED on the volume knob will flash as the volume is adjusted.

Press the select + or - for the desired input source.

Press the appropriate button for the desired input source.

Mutes the output to minimum. The LEDs on the volume knob and the input source will go out. Press MUTE again or press the VOL- button to restore the output.

5 Technical Specifications

Analogue Inputs	
Pre Amplifier Output (input sensitivity / impedance / S/N):	
AUX/PH input MM	2.5mV @ 1KHz, 47K ohms > 73dB
Frequency Response	+/-0.5dB 50Hz-20KHz. High pass roll off -1.5dB @ 20Hz
AUX 2 & AUX 3 input line	350mV @ 1KHz > 14K ohms output gain x3.75, +11.5dB
Total Harmonic Distortion	<0.005% at 1KHz, 1.3V RMS output
Frequency Response	20Hz - 20KHz +/-0.5dB
Signal to Noise Ratio ref 1.3V RMS Output	1KHz > 92dB
Channel Separation @ 20KHz	> 60dB
Digital Inputs	
SPDIF inputs	
BNC Coax & Optical	32 - 192KHz @ 16-24 bits
Total Harmonic Distortion	<0.005% at 1KHz, 1.3V RMS output
Signal to Noise Ratio ref 1.3V RMS Output	1KHz: > 98dB
USB input	Linear PCM 44K1 - 192KHz @ 16-24 bits DSD x64 (DoP) Asynchronous transfer from host
Headphone Output	
Output Impedance	< 5 ohms
Maximum Level 33 ohms load	@ 1KHz & 0.01% THD: 7V RMS (1.5W)
Total Harmonic Distortion	@ 2V output, 1KHz: <0.003% (120mW)
Maximum Level 330 ohms load	@ 1KHz & 0.01% THD: 7.5V RMS (170mW)
Total Harmonic Distortion	@ 2V output, 1KHz: <0.003% (12mW)
Load Impedance total all outputs	16 ohms minimum
General Specifications	
Mains Supply	110/120V or 220/240V @ 50/60Hz (factory set)
Fuse	T2AL for 110/120V units T1AL for 220/240V units
Power Consumption	<15W
Dimensions (WxDxD)	218mm x 89mm x 363mm (inc knob)
Net Weight	4kg
Gross Weight	5kg

6 Safety

Incorrect installation or inappropriate use of the XM HP Headphone Amplifier may result in injury due to electrical shock.

- Ensure that the voltage rating on the rear panel of this unit matches that of your local mains supply*
- Ensure that the mains cable and plug supplied with this unit are also correct. (Contact your dealer immediately if this is not the case).
- This unit is protected by a mains fuse, which is accessible as part of the IEC socket on the rear panel.
- Fuse replacement specifications:
110/120V units T2AL fuse
220/240V units T1AL fuse
- Protect the unit against all forms of liquid. Never expose the unit to dripping or splashing, or place objects filled with water; such as vases, on the unit.
- Unplug the unit from the mains when not in use for prolonged periods.
- Do not open this unit - there are NO user serviceable parts inside.
- Set the volume control to minimum before turning this unit on or off.
- Ensure that this unit is switched off when connecting or disconnecting speaker and interconnect cables.
- * Contact your Exposure dealer or distributor for advice on moving your equipment to another country or territory.

7 Caution

For a long and trouble-free life of your XM HP Headphone Amplifier, please ensure the following:

- Do not short circuit the speaker terminals.
- Do not remove the cover of the unit or dismantle the case.
- Protect the unit against all forms of liquid. Never exposure the unit to dripping or splashing, or place objects filled with water; such as vases, on the unit.
- Do not operate the unit in damp environments or allow liquids to enter the unit.
- Do not attempt to bypass the mains fuse or replace the fuse with one of a different specification.
- Do not place the unit in a position which restricts cooling airflow around its case.
- Do not use abrasive or solvent-based cleaning fluids on the unit’s case.

Failure to observe these precautionary measures may void your warranty.

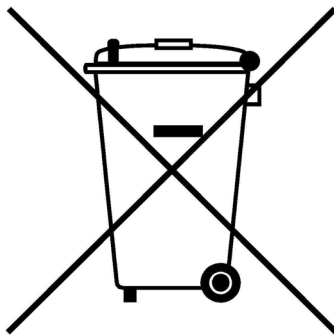
8 Warranty/Guarantee

1. The Exposure warranty entitles you to FREE repair of this unit for the first three (3) years from the date of purchase. This covers parts and labour but excludes carriage.
2. This warranty is valid only if the unit is purchased from an authorised Exposure dealer in your country of residence.
3. It is recommended to register the warranty using the form on our website:
www.exposurehifi.com/warranty
4. The distributor accepts no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorised adjustment and or repair or replacement of any components, nor will they accept responsibility for damage or loss occurred during transit to or from the person making a claim under warranty.
5. The Exposure warranty covers:
 - **Parts and labour costs for three (3) years from the date of purchase. It does not include carriage to or from the customer**Please retain your original receipt as proof of purchase and purchase date. The guarantee is extended only to the original purchaser and is not transferable.

When making claims under this warranty:

1. The unit should be suitably packed and returned to the dealer from whom it was purchased, together with proof of purchase or a copy of the dated sales receipt. The customer should also include their address and daytime telephone number as well as a description of the fault.
2. If necessary the unit should be sent carriage pre-paid by a reputable carrier, NOT by post.
3. No responsibility is accepted for the unit whilst in transit to the dealer or distributor, and customers are advised to insure the unit against loss or damage whilst in transit.
4. The dealer receipt MUST be produced when making claims against this guarantee.
5. Any tampering or alteration made to the dealer receipt or to the serial number on the unit will invalidate the warranty.
6. The dealer or distributor shall notify the customer when the repairs have been completed. The customer must claim the goods within fourteen (14) days from the date of notice, failing which, the distributor reserves the right to impose storage charges.
7. The distributor reserves the right to dispose of the unit after ninety (90) days from the date of notice in a manner that it sees fit and without compensation to the customer.

9 Product Disposal Instructions



The symbol shown here and on the product means that the product is classed as electrical or electronic waste and should not be disposed of with other household waste at the end of its working life.

The Waste of Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC) has been put in place to recycle products using the best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid increasing landfill.

When you have no further use for this product, please remove any batteries and dispose of them and the product as per your local authority’s recycling process.

For more information please contact your local authority or the retailer where the product was purchased.

