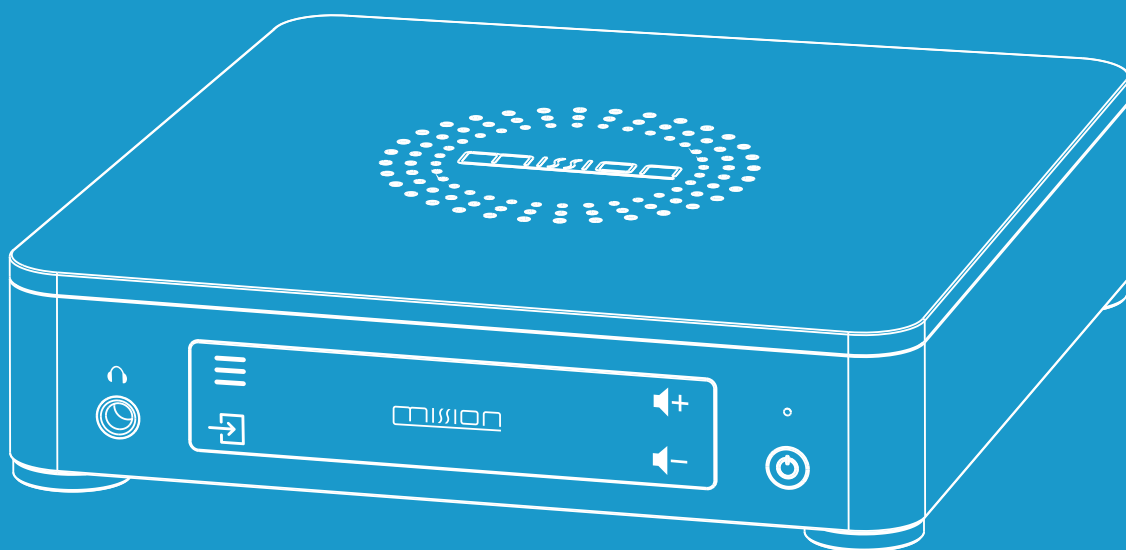


3 YEAR
WARRANTY



Scan the QR code using a smart-phone device,
for product warranty registration online.

LX CONNECT DAC



User's Manual

MISSION

Important Safety Instruction



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

WARNING: To reduce the risk of electric shock, do not remove the cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarized or grounding plug. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

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.

WARNING: Only use attachments/accessories specified or provided by the manufacturer (such as the recommended battery - not supplied).

WARNING: The mains plug/appliance coupler/is used as disconnection device; the disconnection device shall remain readily operable.

CAUTION: These servicing 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 operating instructions unless you are qualified to do so.

Do not install this equipment in a confined or built-in space such as a bookcase or similar unit, and keep well ventilated in open space. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and ensure that objects filled with liquids, such as vases, shall not be placed on the apparatus. No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: Do not ingest the battery, Chemical Burn Hazard. This product requires a coin/button cell battery (not included). If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.



Ground protection terminal. This product should be connected to a power outlet with ground protection.

Denmark: Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

Finland: Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Norway: Apparatet må tilkoples jordet stikkontakt.

Sweden: Apparaten skall anslutas till jordat uttag.

WARNING: No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: Attention should be drawn to environmental aspects of battery disposal.

WARNING: Use of the apparatus in tropical climates.



WARNING: When an amplifier is driven beyond its power output capabilities it will produce distorted waveforms which will quickly damage your speakers by overheating. Make sure that your amplifier is not left unattended when playing, for example at parties, and turn the volume control down at the first sign of audible distortion.



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Being Roon Tested means that IAG Group Ltd and Roon have collaborated to ensure you have the best experience using Roon, software and IAG Group Ltd equipment together, so you can just enjoy the music.



For applicable power supplies see user instructions

Introduction

Welcome to Mission!

Mission is a brand that purveys lifestyle audio that fuses Hi-Fi heritage with contemporary design. Music leads, technology follows.

The Mission LX CONNECT DAC is a stand-alone digital-to-analogue converter, pre-amp and headphone amplifier, derived from the award-winning Mission LX CONNECT wireless speaker system. It fuses the Mission mantra of innovative, attractive design and class-leading performance with the latest audio technology, to enhance your audio experience.

Designed to function as a central console for all your music sources, with analogue, optical and coax digital inputs, the Mission LX CONNECT DAC also features a dedicated HDMI ARC connection to bring high fidelity, true wireless performance for TV, movies and games. It is even equipped with a Bluetooth aptX receiver for wireless streaming of hi-resolution audio from tablets and smartphones. The LX CONNECT DAC is controlled gracefully via the touch-sensitive display, or for even more convenience you can use the included remote. The versatile connectivity options and compact form factor means it can be used as the all-encompassing DAC and pre-amp interface for any amplifier, active speakers, computer audio or head-fi system.

General Information



Please read these instructions carefully before installing your loudspeakers. A few minutes studying this manual will ensure a superb performance from your loudspeakers for many years. Please attention to all cautions printed on the pages marked with this symbol.

Unpacking The Equipment

The carton contains:
 The LX CONNECT DAC
 One power adaptor
 One plug for the adaptor suitable for your area
 One remote controller
 One user manual and a quick start guide

Please note: The remote control requires 1 x CR2025 type battery. Due to international shipping and courier regulations with Lithium Ion batteries, the remote controller battery is not included in this package.

Consult the dealer from whom you purchased the equipment if any item is not present. Carefully unpack the unit and accessories.

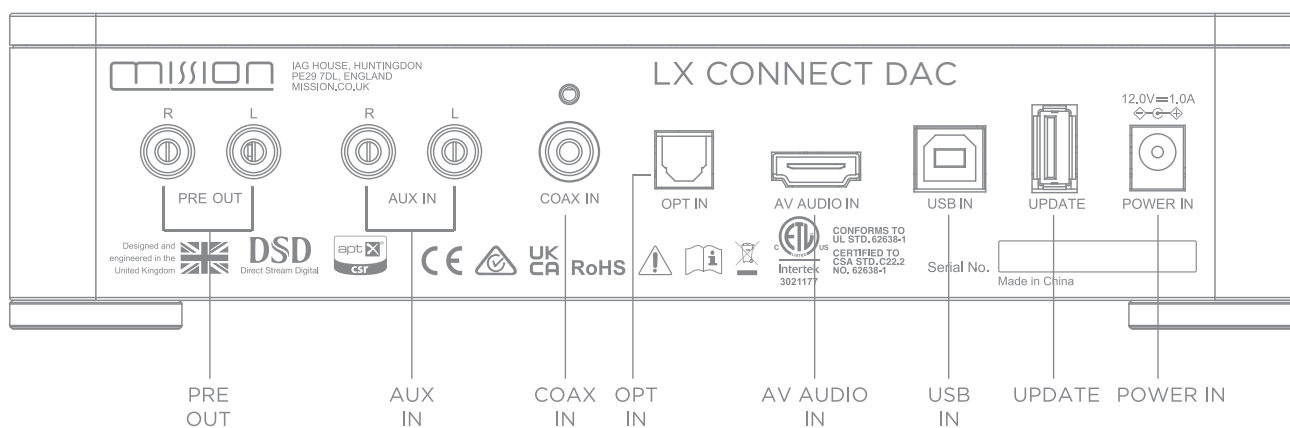
Retain the packing materials for future use. Retain the user manual and information concerning the date and place of purchase of your equipment for future reference. If you transfer the unit to a third party please pass on this instruction manual along with the equipment.

USB Drivers & Firmware Updates

To download Windows Drivers for PC USB, please see the separate user guide included with this package.

Any firmware updates will also be available from www.mission.co.uk

Controls & Functions



Installing & Operating the LX CONNECT DAC

Connect your playback device via the via the auxiliary, optical, coaxial, PC USB, or AV audio inputs on the rear panel.

Connect the LX CONNECT DAC mains supply.

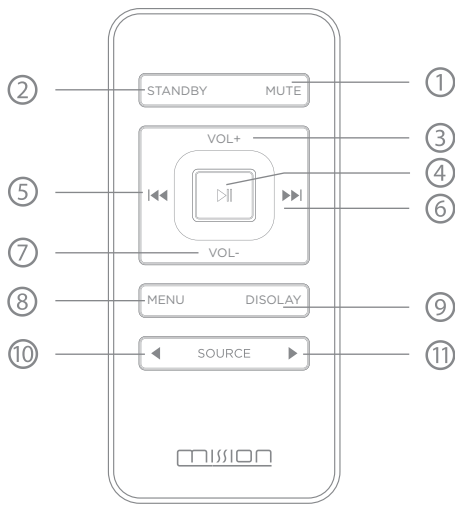
When powered on, the LX CONNECT DAC indicator light will then illuminate dimly, which means it is now in standby mode.

Either press the STANDBY button on the unit, or press the STANDBY button on the remote control and the standby LED will turn on brightly. The screen will then briefly display the Mission logo, confirming the unit is powered on. To return to standby, press the STANDBY button once more.

To adjust the volume, press the '+' and '-' buttons on the front panel of the unit or remote. Volume is adjustable from 0 to 50. When the LX CONNECT DAC is restarted, the default volume is 25.

The DISPLAY button on the remote control will toggle the front panel display ON/ OFF. When the display is OFF, use the front panel control or pressing any remote key will momentarily turn on the display. After 10 seconds, the display will automatically turn off again.

Remote Handset

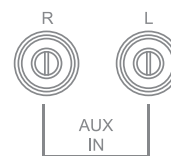


- 1. MUTE Press to mute and unmute the sound
- 2. STANDBY Press to bring the unit in/out of standby
- 3. VOL+ Increase volume
- 4. ▶|| Press to start/pause Bluetooth/USB
- 5. ◀◀ Press to the previous track
- 6. ▶▶ Press to the next track
- 7. VOL- Decrease volume
- 8. MENU Press to enter or exit menu
- 9. DISPLAY Press to cycle through display options
- 10. ◀ Press to select previous source
- 11. ▶ Press to select next source

Connections

Analogue Input

Connect your analogue sources to the line level input AUX IN.



Coaxial Digital Input

Connect your coaxial digital sources to COAX IN.



Optical Digital Input

Connect your optical digital sources to OPT IN.

USB Input

The USB input enables you to connect a Mac or PC to the unit for playing audio files stored on a computer. To use the USB input for the first time, a Windows PC will require the installation of the USB driver. Download the driver via www.mission.co.uk. Please refer to the USB and DSD Setup Guide supplied with the driver files. Connect your computer to the unit via USB cable (type A to Type B).



LX CONNECT DAC is Roon Tested. Roon transforms the experience of browsing music; artist photos, credits, bios, reviews, lyrics, tour dates; and composers are located automatically, then interconnected by links to build a searchable digital magazine about your music collection. Roon finds all the same links between your personal files and the millions of tracks available on TIDAL, so you can start with the music you know, then explore and discover new music from the world beyond your collection.

AV AUDIO

AV AUDIO function allows you to send audio from your ARC-compliant TV to LX CONNECT DAC through a single HDMI connection. To enjoy the AV AUDIO function, please ensure your TV is both HDMI-CEC and ARC compliant and set up accordingly.



Please note: Your TV must support the HDMI-CEC and ARC function. HDMI-CEC and ARC must be set to on. The configuration method of HDMI-CEC and ARC may differ depending on the brand or model of your TV. For details about the ARC function, please refer to your TV owner's manual. Only HDMI 1.4 cables can support the ARC function.

Bluetooth Connection

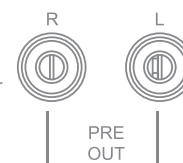
When selecting the Bluetooth input, the hub will display 'Pairing' which means the hub is not yet connected to a Bluetooth device and is searching for one.

To connect, turn on the Bluetooth function on your smartphone, tablet or computer device. Search for active Bluetooth devices. You will then see LX CONNECT DAC as an option to connect. Select the LX CONNECT DAC option to pair to device and the hub will then display "Connected" to confirm.

If you switch to an alternative input Bluetooth will disconnect automatically in 60 seconds, however when you switch back, Bluetooth will connect automatically to your device once more.

Pre-Amplifier Output

Pre-amplifier (Pre Out) output for driving external power amplifiers, subwoofers or signal processors.



Headphone Output

A stereo 6.3mm (1/4") jack is provided on the front panel for connecting headphones. When headphones are connected the Pre Out signal will auto cut off.

Software Update

LX CONNECT DAC UPDATE port is only used for updating the internal software or service purposes. This is a non-user serviceable connection. Please refer to the Mission website or your Mission dealer concerning updates or service.



Menu Options

To access additional controls over the LX CONNECT DAC, either press 'MENU' on your remote or touch the MENU button on the front panel of the unit. This will give you different options: Digital Filter, DSD BW, DPLL BW, Balance, Pre Delay, Brightness, Default Channel, Auto Standby, Pre Out Level, Default Volume, Factory Reset, Update and Firmware. You can toggle through the different options by pressing the '+' or '-' controls on the unit or left and right controls on the remote. The source button on unit toggles between menu select and the menu parameter, or you can press the VOL+/VOL- button on the remote. When you have selected a parameter to adjust, press the '+' or '-' buttons on the unit, or left and right controls on the remote.

Digital Filter (DAC, Only for Pre Out)

LX CONNECT DAC has a choice of 3 digital filters to offer the best performance and compatibility with your digital audio files and system:

Fast roll off: Standard flat response with fast frequency roll off above $F_s/2$ (half the sampling frequency).

Slow roll off: Starts rolling off at a lower frequency than the Fast filter but has a more gentle rate of attenuation. This is the default filter for the LX CONNECT DAC.

Minimum phase: Has a gentle attenuation slope similar to the Slow filter but with minimum phase characteristics. It can be likened to an analogue filter applied in the digital domain.



DSD BW

The DSD Bandwidth can be widened to suit high performance Hi-Fi equipment and particular DSD audio files.



OPT DPLL BW

DPLL setting is used for changing the bandwidth of the digital phase lock loop of the D/A converter to accommodate different levels of jitter on the incoming SPDIF signal.

Normal mode should be selected for signals with low jitter, while Wide mode should be selected for signals with abnormal jitter. For best audio quality leave this setting at the default value Normal, only use Wide for a given input if the LX CONNECT DAC is having problems locking onto the source.



Balance

Balance of left and right output channels (Pre Out) can be adjusted in the unit's menu.



Brightness

The brightness can be adjusted from a low level to a bright level, adjustable in 8 increments.



Default Channel

Any channel can be set as the default channel. Additionally, this can be set, using the 'Recall Last Input' feature.

Default Channel
USB

Default Channel
Recall Last Input

Auto Standby

LX CONNECT DAC has three standby modes, editable via the menu.

Auto Standby Never: LX CONNECT DAC will only enter standby through user control.

Auto Standby 20 Minutes: If there is no input signal for 20 minutes, the LX CONNECT DAC will enter standby.

Auto Standby 1 Hour: If there is no input signal for 1 hour, the LX CONNECT DAC will enter standby.

Auto Standby
Never

Auto Standby
20 Minutes

Auto Standby
1 Hour

Pre Out Level

The Pre Out level can be set to adjustable or fixed.

Adjustable level output is for purposes where the output level should change with the master level output (for instance, when connecting to powered subwoofers).

Fixed level output is for use with sources with built-in volume control such as AV processors, where the input signal from the hub should be constant.

Pre Out Level
Adjustable

Pre Out Level
Fixed

Default Volume

Default volume setting is for the max volume after you restart the system. The default setting is 25, adjustable in 0 to 50.

Default Volume
25

Factory Reset

The LX CONNECT DAC can be restored to factory default settings.

Factory Reset
No

Factory Reset
Yes

Update

The LX CONNECT DAC UPDATE port is only used for updating the internal software or service purposes. This is a non-user serviceable connection.

Please refer to the Mission website or your Mission dealer concerning updates or service.

Update
No

Update
Yes

Firmware

The final menu option displays the current firmware installed on the LX CONNECT DAC.

Firmware
052.10

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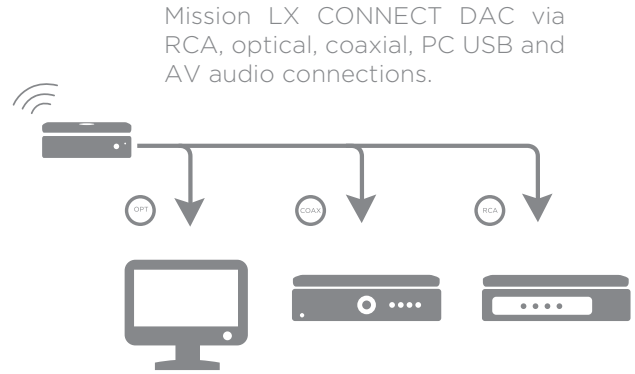
System Operations

The LX CONNECT DAC features optical, coaxial, PC USB, AV audio and RCA inputs on the rear panel with an additional Bluetooth aptX connection for wireless integration of laptops, smart phones and tablet devices. It is controlled gracefully via the touch sensitive display, or for even more convenience you can use the included remote control.

LX CONNECT DAC will work as a stand-alone DAC with a built-in headphone output and pre-output. You can connect it to your amplifier or existing system, for use as a Hi-Fi grade DAC.



Change source / volume and menu parameters with the included remote.



Connect any Bluetooth device and enjoy wireless playback with the aptX codec for CD-like sound quality.

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Warranty Coverage

Mission warrants its products, subject to the following terms and conditions below, to be free from defects in materials and workmanship.

Online Registration



Scan the QR code using a smart-phone device, for product warranty registration online.

The three (3) year extended warranty is applicable to items purchased from Jan 1st 2021, onwards. Items purchased prior to this date are not eligible for this extended warranty service but are subject to statutory warranty claims and all applicable consumer rights.

To qualify for the extended 3 year warranty, you must register your product within ninety (90) calendar days from the date of purchase. Visit mission.co.uk/warranty-registration to complete your online registration. Items not registered online will have a Limited Warranty for one (1) year, or for the period of your country's statutory warranty, whichever is longer.

Warranty can only be offered to products registered with proof of purchase with date, model and details of the authorised dealer clearly stated on the receipt/invoice. Please keep the original receipt/invoice in case it is required for a warranty claim.

This Limited Warranty is non-transferable and is offered exclusively to the original owner.

This Limited Warranty is valid only in the original country of purchase.

Repairs or replacements are provided under this warranty are the exclusive remedy of the consumer. Mission shall not be liable for any incidental or consequential damages for breach of any expenses or implied warranty with any product. Except to the extent prohibited by law, this warranty is exclusive and in lieu of all other warranties whatsoever, both expressed and implied, including but not limited to the warrant of merchantability and fitness for practical purpose.

This warranty provides benefits that are additional to and do not affect your statutory consumer rights.

This Limited Warranty offer is subject to correct information being submitted in your application. Incorrect dates or mismatched purchase receipt dates that are outside of the warranty terms will immediately invalidate any warranty claim.

*Please check with your dealer local distributor for further information.

Exclusions

The following items are excluded from the Mission warranty:

Normal wear and tear and cosmetic damage (including but not limited to any wear from reasonable use, environmental deterioration or neglect)

Products on which the serial number has been removed, altered or otherwise made illegible.

Products not purchased from an authorised Mission dealer.

Products that were not new at the time of original purchase.

Products sold 'as is', 'as seen' or 'with faults'

Product not purchased from an Authorised Dealer/Distributor within the region of the claim (ie parallel imports or grey market products)

Accidental damage or faults caused by commercial use, acts of God, incorrect installation, incorrect connection, incorrect packaging, misuse or careless operation or handling which is not in accordance with the user instructions.

Equipment that has been operated in conjunction with unsuitable, inappropriate or faulty apparatus.

Repairs, alterations or modifications carried out by parties other than Mission or its authorised service partners.

Damage in transit that cannot be attributable to the fault of Mission, the authorised distributor or dealer (ie. claims otherwise covered by transit insurance.)

Faults relating to abnormal or inappropriate power supply voltage or power surges.

Faults relating to extremities in temperature, exposure to heat, water or other liquids, insects, excessive moisture, sand, chemicals, battery leakage or any other contaminants.

Any force majeure events, including but not limited to any acts of God, fire, lightning, typhoon, storm, earthquake, hurricane, natural disaster, tsunami, flood, war, riot, public disturbance.

Any other causes beyond the reasonable control of either Mission and its Authorised Distributor.

Please note items purchased before 1st Jan 2021 are not eligible for the extended warranty claim.

How to Claim

To obtain warranty service please contact the authorised dealer from which you purchased this product and present the limited warranty certificate offered upon registration of your product's extended warranty offer.

Do not dispatch goods without the prior agreement of the dealer distributor or authorised service centre.

If asked to return products for inspection and or repair, please pack carefully preferably in the original carton or packaging affording an equal degree of protection and returned via insured, trackable courier service.

The authorised dealer or distributor will offer full return details and instructions. However, please note if unsuitable packaging is used the warranty may be deemed void due to improper action in return.

Mission or the authorised distributor, dealer or service centre may make a charge for the supply of new packaging for the return of the repaired item. Please note, insurance is recommended as goods are returned at the owner's risk. Authorised distributors or service centres cannot be held liable for loss or damage in transit. Insurance and freight charges on the return journey will be paid for by Mission, authorised dealer, distributor or service centre if corrective work proves to be necessary.

In the event of 'no-fault found' or 'no repair necessary', the return shipping charge will be the responsibility of the owner.

Repairs

All repairs will be carried out by the appointed distributor (or locally appointed service centre). Repairs handled or processed without authorisation or approval of the appointed representative will be excluded from this limited warranty. Please note, Mission is not able to supply parts or replacement items to any other entity than the official distributor or authorised service centre.

Other than the warranty and services set out in this warranty, to the fullest extent permitted by law, Mission shall not be liable to you and/or any third party or entity whatsoever for:

- Any loss, damages and/or malfunction caused to any product(s) which is/are connected to any of the products covered by this warranty.
- Any damages, loss and liability, whether direct, indirect, incidental, consequential special, punitive or otherwise, howsoever caused by, arising out of or otherwise, in relation to the installation, delivery, use, service, repair, replacement and/or maintenance of the product;
- Any damages, loss and liability under this warranty in respect of any act, omission, or negligence of any of their technicians, employees, agents, representatives or independent contractors relating to the actual or purported performance of any of the obligations under this warranty.

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Service Centre Address

Should a fault occur with your loudspeakers, please pack it correctly, using the original packing, so you can ship it safely. Product for service should be returned to the appointed dealer from whom you purchased the product. If you experience difficulties or there is no Mission dealer in your area, contact the Mission distributor or the office below.

IAG Service Dept.
 13/14 Glebe Road
 Huntingdon
 Cambridgeshire
 PE29 7DL
 UK

Tel: +44(O)1480 452561

Email: service@mission.co.uk

For information on other authorised service centres worldwide contact Mission International, UK.

A worldwide distributors list is available on the Mission website: www.mission.co.uk

Specifications

Model	LX CONNECT DAC
General Description	Digital-to-Analogue Convertor, Headphone Amplifier and Pre-amp
Analogue Input	RCA (AUX)
Digital Input	OPT, COAX, PC USB, Bluetooth, AV Audio
Analogue Output	RCA Pre Out
Pre Amplifier	
Input Sensitivity	300mV (AUX IN, volume = MAX)
Input Impedance	13K (AUX IN)
Variable Output Voltage	0 - 3.2V
Output Impedance	100 ohm
Frequency Response	20Hz-20kHz (+/-0.3dB)
Signal-to-noise Ratio (S/N)	> 100dB (AUX IN, A-weighted) > 110dB (digital Inputs, A-weighted)
Total Harmonic Distortion	< 0.001% (digital sources) < 0.005% (analogue sources)
Sampling Rate	24bit - 192kHz (OPT, COAX) 32bit - 384kHz (USB, PCM) 2.8M for DSD64, 5.6M for DSD128, 11.2M for DSD256 (USB, DSD)
Digital Filters	Fast Roll-off, Slow Roll-off, Minimum Phase
Dimensions	
Height (on feet)	55mm
Width	225mm
Depth (with terminals)	231mm
System	
Outer Packaging	418 x 280 x 85mm
Net Weight	1.75kg
Gross Weight	2.65kg
Finish	Black
Power Requirements	Adapter - Input: 100-240Vac (50/60Hz) Output: 12V 1A

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Correct Disposal of this product. This marking indicates that this product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.



IAG House, 13/14 Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, UK
Tel: +44(0)1480 452561 Email: service@mission.co.uk www.mission.co.uk
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Mission is a member of the International Audio Group.