# Installing & Operating the LX CONNECT Hub

- 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 Hub mains supply.

- When powered on, the LX CONNECT Hub 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 pair the hub with the speakers, press the MENU button on the remote (or touch the MENU button on the unit) to enter menu setting.

- Select the 'Enter Pairing' option. The hub will then display 'Pairing'. Press the PAIR button on the rear of one of the Mission LX CONNECT Wireless Speakers. The rear LED will change from flashing to staying on constantly once paired. Display screen will show 'Connected'.

- **Please note pairing of the speakers needs to be done individually.** Once your first speaker is paired, repeat the process for the second speaker.

- To adjust the volume, press the '+' and '-' buttons on the front panel of the hub or remote. Volume is adjustable from 0 to 50. When the system 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.

Connections for LX CONNECT Hub

Analogue Input

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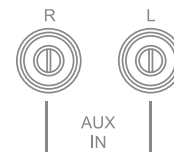
Coaxial Digital Input

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 hub 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 hub via USB cable (type A to Type B).

LX CONNECT has 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.

Please note: In order to ensure optimum performance of the LX CONNECT system, the LX CONNECT Hub is limited to 32-bit / 192kHz operation when paired to the LX CONNECT Speakers. When the USB DAC functionality is utilised for headphone amplifier or pre-out functionality, you can activate higher resolution performance (DSD256 / 384kHz) by disabling 'Wireless' mode via the LX CONNECT Hub control menu. This will enable DSD256 / 384kHz operation for headphone amplifier or pre-out operation only.

AV AUDIO

AV AUDIO function allows you to send audio from your ARC-compliant TV to LX CONNECT 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 as an option to connect. Select the LX CONNECT 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.
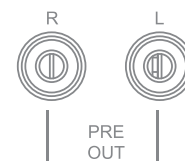
Headphone Output

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 Hub 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...

Menu

To access additional controls over the LX CONNECT system either press 'MENU' on your remote or touch the MENU button on the front panel of the hub. This will give you different options: Speakers, Mode, Digital Filter, DSD BW, DPLL BW, Balance, Pre Delay, Brightness, Default Channel, Auto Standby, Wireless, Pre Out Level, Default Volume, Factory Reset, Update and Firmware. You can toggle through the different options by pressing the '+' or '-' controls on the hub or left and right controls on the remote. The source button on hub 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 hub, or left and right controls on the remote.

Mode

There are two performance modes for the LX CONNECT system:
Music (recommended for listening to music),
Movie (recommended for viewing movies).

Mode	Mode
Music	Movie

Digital Filter (DAC, Only for Pre Out)

The DAC in the LX CONNECT 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 of above Fs/2 (half the sampling frequency).

Slow roll off: Starts rolling of 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 Hub.

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.

Digital Filter	Digital Filter
slowrolloff	fastrolloff
Digital Filter	
Minimumphase	

DSD BW

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

| DSD BW	DSD BW
Normal	50K
DSD BW	DSD BW
60K	70K

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 system is having problems locking onto the source.

OPT DPLL BW	OPT DPLL BW
Normal	Wide

Balance

Balance of left and right channels can be adjusted in the hub's menu. The setting is for all the speakers and Pre Out. The Balance setting ON/OFF can be controlled by the BALANCE SYNC button on the rear panel of each speaker.

Balance	Balance
L+ 3.0dB -R	L 0.0dB R
Balance	
L+ 3.0dB -R	
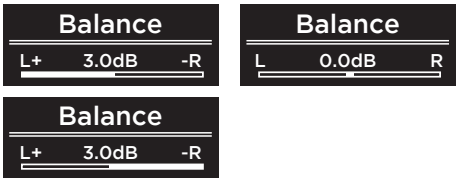
Pre Delay

Pre Out delay time setting have 0ms, 20ms, 40ms, 60ms, 80ms and 100ms. If the Pre Out to be used for a wired and powered subwoofer, please use 20ms to sync with the wireless speakers to get the best performance.

PreDelay	PreDelay
0 ms	20ms (sub)

Brightness

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

Brightness	Brightness
Level1	Level8

Default Channel

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

Default Channel	Default Channel
USB	Recall Last Input

Auto Standby

LX CONNECT has three standby modes, editable via the menu.
Auto Standby Never: LX CONNECT will only enter standby through user control.
Auto Standby 20 Minutes: If there is no input signal for 20 minutes, the LX CONNECT will enter standby.
Auto Standby 1 Hour: If there is no input signal for 1 hour, the LX CONNECT will enter standby.

Auto Standby	Auto Standby
Never	20 Minutes
Auto Standby	
1 Hour	

Wireless

LX CONNECT Hub can enable or disable the wireless transfer function on the menu. While only using the hub as DAC (without speakers), please disable the wireless to get the best performance.

Wireless	Wireless
Enable	Disable

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	Pre Out Level
Adjustable	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 can be restored to factory default settings.

Factory Reset	Factory Reset
No	Yes

Update

The LX CONNECT Hub 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	Update
No	Yes

Firmware

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

Firmware
HUB: 052.10

Specifications

Model	LX CONNECT	
General Description	Wireless Speaker System	
Design Philosophy And Core Technology	5.8GHz Wireless Uncompressed Technology	
	DAC ESS Sabre 9018	
	Support Music And Movie Mode	
	Headphone Amplifier	
	Support USB Upgrade	
	Pre Delay Setting	
	Roon Tested	
	Touch Control	
Analogue Input	RCA (AUX)	
Digital Input	OPT, COAX, PC USB, Bluetooth, AV Audio	
Analogue Output	RCA Pre Out	
Pre Amplifier (hub)		
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	
Active Speakers		
Enclosure Type	Bass Reflex	
Transducer Complement	2-way	
Drive Unit		
Bass Unit	130mm Composite Fibre Cone	
Treble Unit	25mm Microfibre Dome	
AV Shielded	No	
Rated Power Output	60W	
Peak Power Output	100W	
Peak SPL	99dB	
Frequency Response (+/-3dB)	58Hz – 20kHz	
Bass Extension (-6dB)	52Hz	
Crossover Frequency	3.2kHz	
Wireless Reception Distance	20m	
Cabinet Volume	8.2L	
Dimensions	Speaker	Hub
Height (on feet)	305mm	55mm
Width	200mm	225mm
Depth (with terminals)	(250+15)mm	231mm
System		
Carton Size	545 x 440 x 400mm	
Net Weight	6.55kg x 2 (speakers)	
	1.75kg (hub)	
Gross Weight	17.8kg	
Finish	Walnut Pearl / Delux White / Delux Black (speakers); Black (hub)	
Power Requirements	Hub Adapter - Input: 100-240Vac (50/60Hz) Output: 12V 1A	
	Speakers - Input: 100-240Vac (50/60Hz)	

Service Centre

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.

UK

IAG Service Dept, 13/14 Glebe Road, Huntingdon, Cambridgeshire PE 29 7DL, UK

Tel: +44 0 1480 452 561

Email: service@mission.co.uk

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.