

**CXN V2**  
NETWORK PLAYER



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# Support

## FAQS AND SUPPORT

Please visit <https://techsupport.cambridgeaudio.com>

## GET IN CONTACT WITH OUR DEDICATED TECHNICAL SUPPORT TEAM:

[support@cambridgeaudio.com](mailto:support@cambridgeaudio.com)

UK: +44 20 7551 5422

US: +1 877 357-8204

HK: +852 2499 6018

# Important!

The CXN v2 is largely a software based product and new features and updates will be made available from time to time. See the Upgrade Firmware section at the end of this manual for how to check for and then automatically update your unit via the internet. The process takes only a few minutes.

We would encourage you to check for any updates before using your CXN v2 for the first time and then from time to time afterwards.

Also please do check the support page for the CXN v2 at <https://techsupport.cambridgeaudio.com> for details of any new features, advice on compatibility with other products and audio formats and the most recent copy of this manual.

Make sure you register your purchase.

Visit: [www.cambridgeaudio.com/register](http://www.cambridgeaudio.com/register)

By registering, you'll be the first to know about:

- Future product releases
- Software upgrades
- News, events and exclusive offers plus competitions!

This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice.

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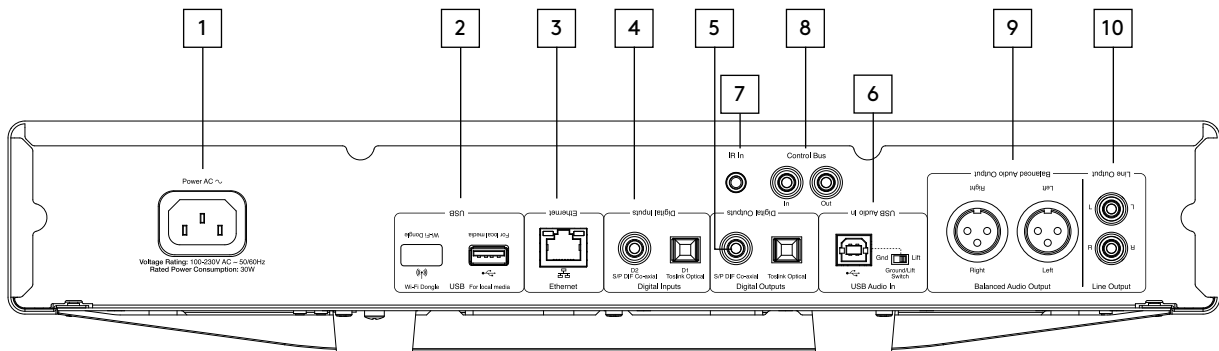
This product contains software licensed under version 2 of the GNU Public License and version 2.1 of the GNU Lesser Public License. The source code for this software is available from:

<http://gpl.stream-magic.com/>

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The Spotify software is subject to third party licenses found here: [www.spotify.com/connect/third-party-licenses](http://www.spotify.com/connect/third-party-licenses).

# Rear panel connections



## 1. AC POWER SOCKET

## 2. USB SOCKETS

Pre-fitted Wi-Fi dongle and connection for USB HD/flashdisk or optional BT100 Bluetooth audio receiver.

The USB ports are not intended for connection to Apple mobile devices, no functionality, charging or otherwise is supported.

The Wi-Fi dongle is pre-fitted. Please leave connected. Your unit will automatically default to an Ethernet connection if one is made. If you are using this CXN v2 with Wi-Fi please make sure your unit is positioned within range of your wireless router.

### Important note:

Do not connect/disconnect the Wi-Fi dongle when the unit is on.

## 3. ETHERNET

## 4. DIGITAL INPUTS

## 5. DIGITAL OUTPUTS

## 6. USB AUDIO IN

For connecting to PC/MAC computers.

Ground lift switch

Enable 'Lift' to eradicate hum noise through the speakers.

## 7. IR (INFRA RED) EMITTER IN

## 8. CONTROL BUS

For connection to other CX series products. Features vary according to other product functionality.

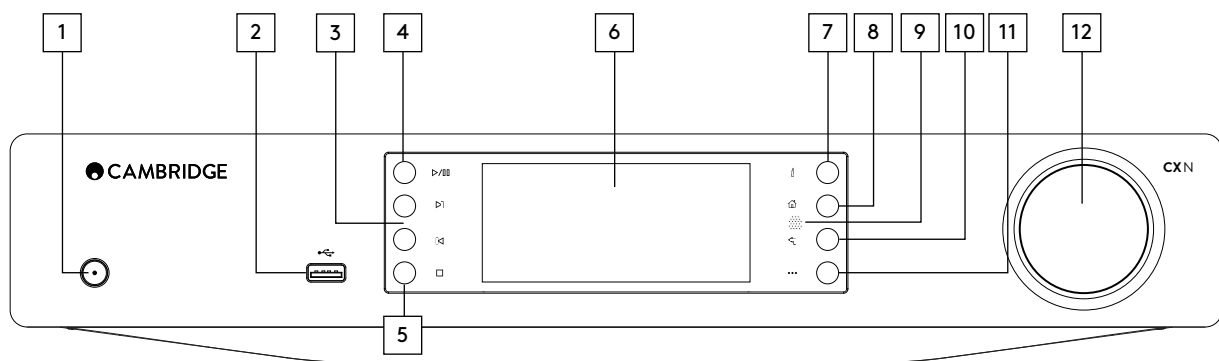
## 9. BALANCED AUDIO OUTPUT

For use with XLR connections.

Note: XLR connectors should be wired as follows: Pin 1: Ground, Pin 2: Hot (in-phase) and Pin 3: Cold (phase-inverted).

## 10. LINE OUTPUT

# Front panel controls



## 1. STANDBY/ON

## 2. USB

For use with USB audio storage. 1A maximum current consumption.

**Note:** This USB port is not intended for connection to Apple mobile devices.

## 3. SKIP

## 4. PLAY/PAUSE

## 5. STOP/DELETE

Press during playback to stop or delete items in various menus.

## 6. DISPLAY

Displays the status of the unit.

## 7. (i) INFO

Displays 'Now Playing' screen. Press to toggle through various screen layouts.

## 8. HOME

## 9. INFRARED SENSOR

## 10. RETURN

Press to return to the previous menu.

## 11. (MORE)

When playing from UPnP sources, this button displays queued tracks and options.

## 12. NAVIGATION/SELECT (ROTARY DIAL)

Rotate to scroll and navigate around the menus. Press to accept the item/function shown on the display.

# Remote control

For ultimate control of your Cambridge Audio CXN (v2) the StreamMagic app gives you fast access to device settings, media libraries and internet radio.



# Remote control

## 1. STANDBY/ON

## 2. DISPLAY BRIGHTNESS

## 3. MUTE

(Pre-amp mode)

## 4. (MORE)

When playing from UPnP sources, this button displays queued tracks and options.

## 5. DIGITAL INPUT

## 6. RANDOM

## 7. REPEAT

## 8. VOLUME

(Pre-amp mode)

## 9. HOME

## 10. (i) INFO

Displays 'Now Playing' screen. Press to toggle through various screen layouts.

## 11. SKIP

Skips between tracks.

## 12. ENTER

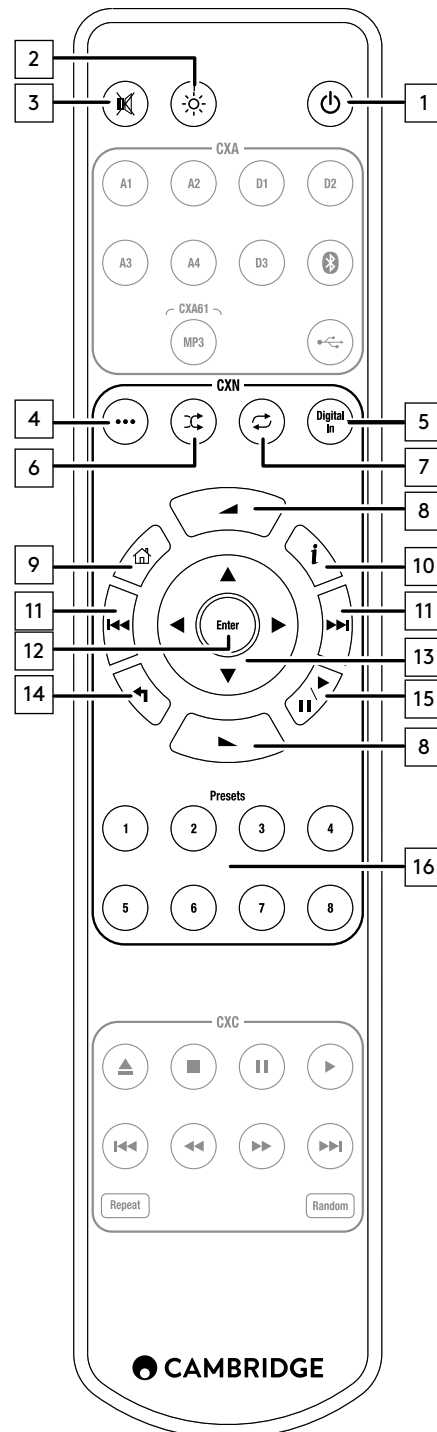
## 13. NAVIGATION

## 14. RETURN

## 15. PLAY/PAUSE

## 16. PRESETS

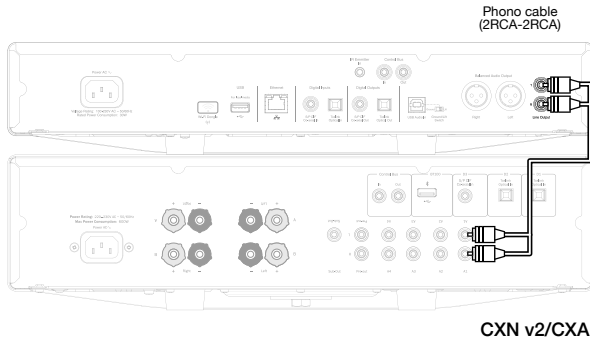
Recalls stored 1 – 8 presets.



# Getting connected

## BASIC AUDIO CONNECTIONS

Switch the power off before making any connections.



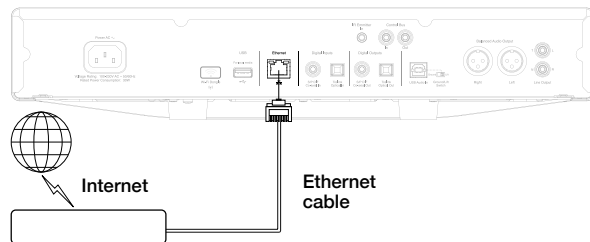
## NETWORK CONNECTIONS

To use the UPnP media sharing feature, you will need either a wired Ethernet or Wi-Fi connection to your network

To use internet radio, Streaming Services or to receive product software updates you will also need a broadband internet connection.

Use a wired connection for seamless playback of high resolution 24-bit/176kHz and 24-bit/192kHz files.

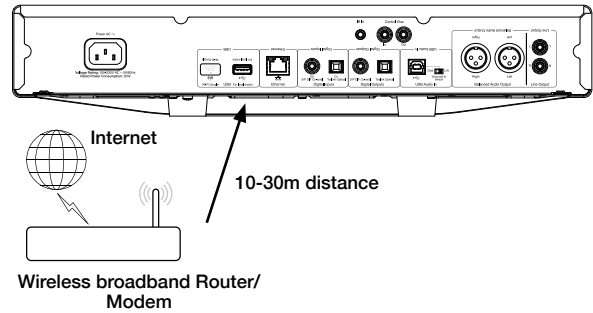
## CONNECTING TO A WIRED NETWORK



### Broadband Router/Modem

Connect a network cable (Category 5/5E straight through Ethernet cable) between the CXN v2 and your router.

## CONNECTING TO A WIRELESS NETWORK



Your CXN v2 will need to be in range of your wireless router.

**Important note: Do not plug/unplug the wireless dongle when the unit is on.**

On an iOS device go to Wi-Fi settings and select 'CXN v2'.

Alternatively, connect the CXN v2 directly to the Wi-Fi network: Select your Wi-Fi network and then enter your password.

**Note:** Wi-Fi network passwords are sometimes case sensitive.

For further information on CXN v2 network settings please see the "Settings >> Network" section later in this manual.

## Character entry

This is typically for:

- Wi-Fi network password.
- Searching for radio stations and content on UPnP servers.
- Customising the CXN v2's "friendly" name and digital input names.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	0	1	2	3	4	5	6	7	8	9	<		=	>
+	-	_	!	?	@	#	\$	%	^	&	*	:	;	'	"	.	,	\	
/	[	]	{	}	(	)	~												



To enter text:

1. Use the front panel rotary encoder to scroll through each symbol.
2. Using the IR remote control, you can navigate horizontally and vertically.
3. Press Enter on the front panel or IR remote to select the highlighted character.

← deletes the last character selected (equivalent to the ■ button on the front panel or IR remote control).

✕ cancels the text entry process.

→ submits the entered text.

# Operating instructions

## MUSIC LIBRARY

The Music Library menu item lists all found UPnP servers and USB media devices.

There are many suitable UPnP server software packages available for PC and Mac. Stand-alone servers and Network Attached Storage (NAS) devices with built in UPnP server capabilities are also available. Please see the set-up guides on our website at: [www.cambridgeaudio.com/networksetup](http://www.cambridgeaudio.com/networksetup)

Note: When using a UPnP server to share your media, the menu structure, search and selection criteria are determined by that server, not the CXN v2.

The CXN v2 does not scan entire USB storage devices to build an artist/track database. It is therefore recommended that audio files are stored in a structured way by artist and album to facilitate locating tracks.

## PLAYING TRACKS AND ADDING TO THE QUEUE

### ADD INDIVIDUAL TRACKS

Selecting an individual track will show the following menu:

- PLAY NOW
- PLAY NEXT
- ADD TO QUEUE – Add the track to the end of the queue.
- REPLACE QUEUE – Remove all queue items and replace with the new track.

### VIEWING THE QUEUE

To view the queue at any time press the '...' (more) button.

You can jump playback to any point in the queue by navigating up/down the list and pressing Enter.

### EDITING THE QUEUE

Tracks can be removed from the queue by highlighting them with the navigator and pressing the Stop button.

To clear an entire queue, navigate to the bottom of the queue to highlight [Clear Queue] and press Enter.

**Note:** Switching the CXN v2 into Eco mode standby will delete the queue.

## THE 'NOW PLAYING' SCREEN

Pressing the 'i' button will cycle through:

- Combination of track/stream info plus album/station art.
- Just album/station art.
- Just track/stream info.

Album art and radio station logos may also be displayed if available. For USB Media the album art needs to be in the same folder as the track.

## ALBUM ART FILE FORMAT

Album art images are supported in .png and .jpg file formats only.

Images can have any name, but images named Folder.png or Folder.jpg take precedence.

Images embedded into tracks are not supported.

## PLAYLISTS

The CXN v2 supports various playlist formats:

- ASX (Microsoft® playlist format)
- M3U
- PLS

For permanent storage of favourite media selections it is recommended to use suitable software to create playlists. These can then be accessed by the CXN v2 from USB storage devices or UPnP servers that support playlist serving.

It is not currently possible to save the queue created on the CXN v2 as a playlist.

## INPUTS

### USB AUDIO

The CXN v2 USB Audio input is intended to connect directly to a PC or Mac computer.

The default CXN v2 configuration is USB Audio profile 1.0 which works with nearly all common operating systems and computer types without needing additional drivers. In this configuration sample rates from 16-bit/44.1kHz to 24-bit/96kHz are supported.

For more details on USB Audio, see our online guides at: [www.cambridgeaudio.com/USB-audio](http://www.cambridgeaudio.com/USB-audio).

### D1-D2


The two digital inputs are capable of receiving stereo PCM audio with sample rates up to 24-bit/192kHz.

### BLUETOOTH

The optional Cambridge Audio BT100 Bluetooth dongle can be connected into any available USB socket.

### SPOTIFY CONNECT



Spotify lets you listen to millions of songs – the artists you love, the latest hits and discoveries just for you. If you are a Spotify Premium user, you can control your CXN v2 using the Spotify app.

1. Connect your CXN v2 to the same Wi-Fi network as your phone or tablet running the Spotify app.
2. Open the Spotify app, and play any song.
3. Tap the song image in the bottom left of the screen.
4. Tap the Connect icon .
5. Pick your CXN v2 from the list.

For information on how to set up and use Spotify Connect please visit [www.spotify.com/connect](http://www.spotify.com/connect).

The Spotify Software is subject to third party licenses found here: [www.spotify.com/connect/third-party-licenses](http://www.spotify.com/connect/third-party-licenses).

### HOW TO USE AIRPLAY

1. Connect your CXN v2 to your network.
2. Open the app that you want to AirPlay from.
3. Tap  or .
4. Select CXN v2 as your AirPlay device.

### FROM CONTROL CENTER

To switch the audio on your device from Control Center: Swipe up from the bottom edge of any screen on your device to open Control Center.

Touch and hold  in the upper-right corner, then select your CXN v2.

### HOW TO USE CHROMECAST BUILT-IN

CXN v2 comes with Chromecast built-in. It lets you stream your favorite music from your phone, tablet or laptop to your speaker.\*

\*Works with compatible iPhone®, iPad®, Android phone and tablet, Mac® and Windows® laptop, and Chromebook devices.

### Your phone is your remote

By using your phone, there's nothing new to learn — stream your apps, your playlists, your favorite artists — without new log-ins or downloads. It's simple to browse, queue, and control from anywhere in the home.

### Tap the Cast button

Simply tap the Cast button from your own mobile device to start streaming music to your speaker. Search, play, pause, and more right from your phone.\*

\*Device should be on the same Wi-Fi network.

100+ Chromecast enabled apps

Choose from millions of songs from popular music services like Google Play Music, Spotify, Deezer, TuneIn and 100+ more. Discover more apps at... [google.com/cast/apps](http://google.com/cast/apps)

Set up your speaker on your phone or tablet [google.com/cast/setup](http://google.com/cast/setup)

# Settings

## NETWORK

Set-up Wi-Fi: Initiates Wi-Fi setup.

Enter network name: For manual entry of the network name.

Current config: Displays current network settings.

Edit config:

- Auto (DHCP).
  - YES (recommended).
  - NO – settings are manually entered.

If 'NO' is selected, you will need to enter (using the navigator and select buttons) the CXN v2's IP address, Network mask, Gateway address and DNS server(s).

Wi-Fi strength

Signal warning: On-screen warning of low Wi-Fi signal strength.

Wi-Fi region: Select the region that closest matches your location.

Wired/Wi-Fi:

- Auto (default).
- Wired only.
- Wi-Fi only.

## FIRMWARE

- Check for updates and display version number.

## DISPLAY BRIGHTNESS

## DEVICE NAME

Rename the CXN v2.

## AUDIO

- Digital pre-amp mode.
  - On – enables volume control.
  - Off – fixed output.
  - Balance – only available if Digital Pre-amp Mode = On.
- USB audio class.
  - 1.0 – for greatest compatibility with computers.
  - 2.0 – allows high sample rate audio (up to 24-bit/192kHz sample rate). You may need to download and install the Cambridge Audio USB Audio class 2.0 driver.

For further information on USB Audio: [www.cambridgeaudio.com/USB-audio](http://www.cambridgeaudio.com/USB-audio).

## REMOTE CONTROL

Used when there is a clash with other products.

- CXN v2 Series handset (24) (default).
- CXN v2 Series handset (28) – alternate set IR remote control commands.
- No IR control – disables the CXN v2 from responding to IR remote control commands.

To use the alternate set IR remote control commands, both the CXN v2 and the CXN v2 IR remote control handset must be reconfigured:

- CXN v2 – select CXN v2 Series handset (28) in the above menu.
- Remote control – perform the following steps:

Remove the batteries from the CXN v2 IR remote control.

Press and hold the 'Power' button while reinserting the batteries.

**Note:** To restore the default CXN v2 IR remote control command set, remove and reinstall the batteries without pressing any buttons.

## LANGUAGE

### STANDBY MODE

- Network Standby – network connections remain active and the StreamMagic app can turn on the CXN v2.
- ECO mode – all audio, network and control circuits are shut down.

### AUTOMATIC POWER-DOWN

Sets the time before entering Standby Mode after inactivity.

### EDIT INPUT NAMES

Allows you to customise the names of the digital inputs; USB Audio and D1 – D2.

### FACTORY RESET

Restores the CXN v2 to the default factory shipping state.

**Note:** Factory reset will delete all Wi-Fi networks and keys from memory..



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Gallery Court, Hankey Place  
London  
SE1 4BB  
United Kingdom

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