AXN10

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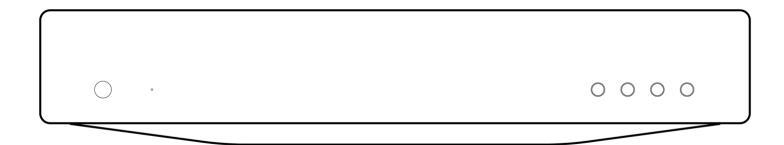
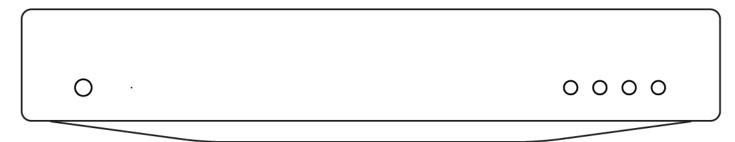


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AXN10

Last updated: February 2, 2023 03:20. Revision #8798



Users Manual

Introduction

Last updated: January 30, 2023 08:54. Revision #8764

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 publishing; 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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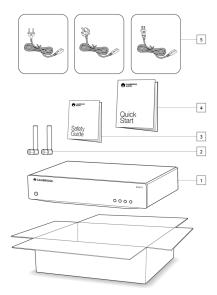
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What's included with the AXN10?

Last updated: February 2, 2023 03:20. Revision #8791

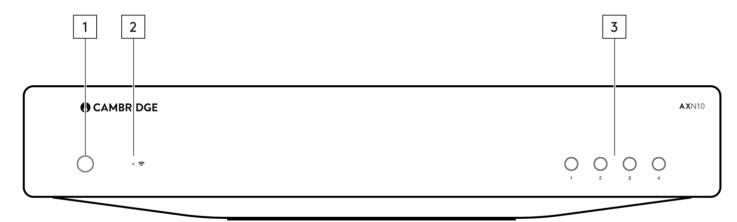
Inside the box of your AXN10 you will receive:



- AXN10 player
 WiFi/BT Antenna (x2)
- 3. Safety guide
- 4. Quick start guide
- 5. Regional mains lead

Front panel controls

Last updated: February 2, 2023 03:20. Revision #8792



1. Power button

Switches the unit between Standby Mode (indicated by dim power LED) and On (indicated by bright power LED). Standby Mode is a low power mode (0.5 Watts) – This can only be achieved when using Eco mode. The unit should be left in Standby Mode when not in use.

2. Network state LED

See <u>LED Descriptions</u> page for descriptions of the colours and flashing states

3. Preset buttons

Used to access and store presets, for more information on what can be stored as a preset please see the Presets section on the Home tab in the StreamMagic app.

If the currently playing media can be stored as a preset, long pressing the preset button will store the preset

LED descriptions

Last updated: January 31, 2023 03:17. Revision #8756

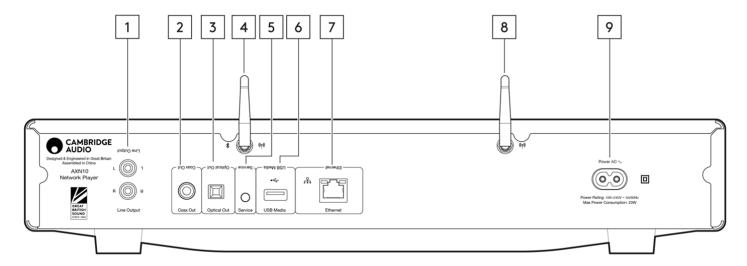
LED Colour

Mode	Colour
Booting White - Slowly flashing	
Connecting to network White - Quickly flashing	
Network connected White - On	
Network setup mode Teal - Slowly flashing	
Further setup required Teal - On	
Software updating White / Teal - Slowly flashing	

No internet connection Orange - On	
Resetting factory defaults Red - Quickly flashing	

Rear panel connections

Last updated: February 2, 2023 03:20. Revision #8793



1. Line output.

Fixed level analogue output used to provide a signal to an integrated amplifier, pre-amp or recording device.

- 2. S/P DIF coaxial digital output.
- 3. TOSLINK digital output.
- 4. WiFi and Bluetooth antenna

Ensure both antennas are connected securely before use.

5. Service port.

For servicing use only.

Connecting any other device here may result in damage.

6. USB Socket

Connection for a USB flash drives.

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

7. Ethernet

Use to connect the AXN10 directly to a router.

8. WiFi antenna

9. AC Power Socket

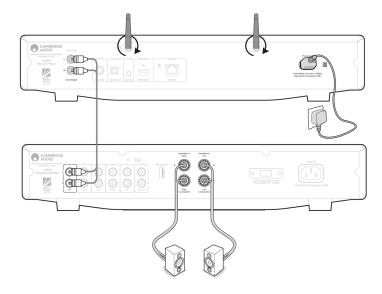
Once you have completed all connections to the amplifier, plug the AC power cable into an appropriate mains socket then switch on.

Getting connected

Last updated: February 2, 2023 03:20. Revision #8794

Basic connections

The diagram below shows the basic connection of your AXN10 to an AXA35.

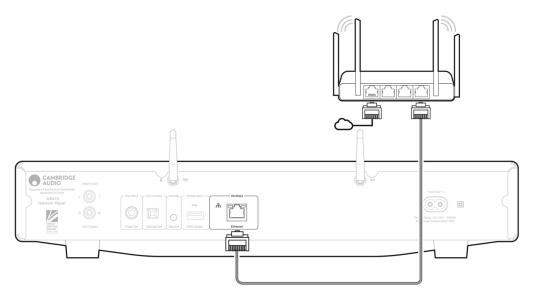


Connecting to WiFi

Important Note: It is vitally important that your AXN10 remains connected to a Wi-Fi network as often as possible. This will ensure that the unit is regularly updated to meet essential security protocols, third party compatibility and the latest software requirements.

Failure to maintain your device with regular firmware updates as provided by Cambridge Audio will void the product warranty and is likely to cause major issues to the unit in time. Please ensure that your unit is updated to the most current firmware version. Information on the latest firmware version for the AXN10 can be found here.

Note: The AXN10 is not compatible with captive portal networks. The AXN10 can connect to 2.4GHz/5GHz WiFi networks



StreamMagic app - Setup

Last updated: February 7, 2022 03:44. Revision #8753

Your player is network connected, not only can you listen to devices connected to the inputs on the product but you can also stream music from many different sources both on your home network and from the internet.

To set up your player, please first download the StreamMagic app from the Apple app store or Google Play store.





Set up

- 1. Switch on your player and follow the on screen instructions to select your preferred language.
- 2. Open the StreamMagic app and follow the instructions provided to complete setting up your player on your network. This process will also apply any new updates that may be pending.

Note: During the set up process you will be asked to give your player a name, please make sure this is unique to your player. This will make it easier to find when using streaming and smart home services.

Once your player is connected to your home network you'll have full control of your sources, including internet radio, streaming services, network and USB drives and more.

For more information on our StreamMagic app, please visit: https://www.cambridgeaudio.com/streammagic

Google Home / Chromecast built-in

Last updated: January 24, 2022 03:01. Revision #8752

Your player is network connected, not only can you listen to devices connected to the inputs on the product but you can also stream music from many different sources both on your home network and from the internet.

Your player features Chromecast built-in and can be incorporated in to your Google Home. To set up your player, download the Google Home app on your smart phone or tablet.





With Chromecast built into your player, your phone becomes your remote. Simply tap the Cast button from apps you already know and love to stream music, podcasts and playlists from your phone, tablet or laptop to your player.

Chromecast built-in

Your phone is your remote

- Simply tap the Cast button from apps you already know and love. No new logins or downloads required.
- Use your phone to search, play, pause and turn up the volume from anywhere in the home.
- While you're streaming, you can keep using your phone for other things scroll through social media, send a text, and even accept calls.
- Enjoy music throughout your house when you use multi-room casting with Chromecast-enabled speakers.
- Just say "Hey Google" to cast to your player

Unlimited entertainment, all on your schedule

- Works with hundreds of apps and new apps are being added all the time.
- Choose from millions of songs from popular music services like Pandora, Spotify, and Youtube Music.

Android, Google Play and the Chromecast built-in logo are trademarks of Google Inc.

Internet radio

Last updated: January 5, 2023 12:41. Revision #8751

You can assign up to 99 of your favourite Internet Radio stations as presets on your player, which can then be recalled using the StreamMagic app or a remote control if your player includes one

You can search and assign a preset via the StreamMagic app:

- 1. Within the StreamMagic app navigate to the Radio tab.
- 2. Use the Search for Radio search tab at the top of the page or enter a Custom URL link by selecting URL.
- 3. Once you have located the station you wish to store, select and you will be prompted with the option to Play now or Add to presets.
- 4. Add station to the desired preset for your player between 1-99.
- 5. You will then receive confirmation that the station is saved to the chosen preset.

Note: Please ensure that the custom URL stream is one of the following supported file types: ALAC, WAV, FLAC, AIFF, DSD (x256), WMA, MP3, AAC, HE AAC AAC+, OGG Vorbis.

To remove a preset (iOS):

- 1. Within the StreamMagic app navigate to the Home tab.
- 2. Scroll to the bottom of the page where you find your players Presets, and select EDIT.
- 3. To remove station from preset, tap the red circle icon and then press Delete.

To remove a preset (Android):

- 1. Within the StreamMagic app navigate to the Home tab.
- 2. Scroll to the bottom of the page where you find your players Presets, and select EDIT.
- 3. Tap on the station you wish to remove.

Note: You may also assign a preset using a remote control, by pressing and holding a number on the remote whilst a station is playing.

AirPlay

Last updated: November 30, 2022 11:02. Revision #8750

AirPlay is an Apple technology designed to control home audio systems and speakers in any room — with a tap or by just asking Siri — right from iPhone, iPad, HomePod, or Apple TV. Play a song in the living room and kitchen at the same time or adjust the volume in any room, all in sync.

After installing your player, add it to the Apple Home app with a few simple steps using your iPhone or iPad

How to use AirPlay from iPhone or iPad

- 1. Ensure your player is connected to your network.
- 2. Open the app that you want to AirPlay from.



4. Select your player as your AirPlay device.

How to use AirPlay from Control Center

To switch the audio on your device from Control Center:

Swipe down from the top right side of the screen on your device to open Control Center.





in the upper-right corner, then select your player.

This product supports AirPlay 2 and requires iOS 11.4 or later.

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Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

Built-in streaming services

Last updated: November 2, 2022 09:55. Revision #8759

Your player has the following built-in streaming services:

Spotify Connect

TIDAL

Oobuz

Deezer

Note: It is essential that the device you are streaming from (smartphone, tablet, computer, etc.) is on the same Wi-Fi network as your player, to ensure that the units can communicate with each other.

Spotify Connect

Use your phone, tablet or computer as a remote control for Spotify.

Go to spotify.com/connect to learn how.

The Spotify Software is subject to third party licenses found here: www.spotify.com/connect/third-party-licenses

TIDAL (Connect)

- 1. Open the TIDAL app and choose the playlist, album, song, etc. that you wish to stream to your player.
- 2. Select the Sound Output devices icon within TIDAL and select your player from the list.
- 3. TIDAL Connect should now be streaming your chosen content to your player.

Go to tidal.com/connect to learn more

TIDAL (via StreamMagic)

1. Open the StreamMagic app and navigate to the Library tab, and then select TIDAL.

Note: Please ensure that you sign into your TIDAL account when prompted to do so. This will only be required on the first instance of use to link the account to the StreamMagic app.

- 2. Choose the playlist, album, song, etc. that you wish to stream to your player.
- 3. TIDAL should now be streaming your chosen content to your player.

Qobuz (via Chromecast)

- 1. Open the Qobuz app and choose the playlist, album, song, etc. that you wish to stream to your player.
- 2. Select the Qobuz Connect icon within Qobuz and select your player from the list.
- 3. Qobuz should now be casting your chosen content to your player.

Qobuz (via StreamMagic)

1. Open the StreamMagic app and navigate to the Library tab, and then select Qobuz.

Note: Please ensure that you sign into your Qobuz account when prompted to do so. This will only be required on the first instance of use to link the account to the StreamMagic app.

- 2. Choose the playlist, album, song, etc. that you wish to stream to your player.
- 3. Qobuz should now be streaming your chosen content to your player.

Deezer (via Chromecast)

- 1. Open the Deezer app and choose the playlist, album, song, etc. that you wish to stream to your player.
- 2. Select the speaker icon within Deezer, then select 'Google Cast'. Select your player from the list.
- 3. Deezer should now be casting your chosen content to your player.

Deezer (via StreamMagic)*

1. Open the StreamMagic app and navigate to the Library tab, and then select Deezer.

Note: Please ensure that you sign into your Deezer account when prompted to do so. This will only be required on the first instance of use to link the account to the StreamMagic app.

- 2. Choose the playlist, album, song, etc. that you wish to stream to your player.
- 3. Deezer should now be streaming your chosen content to your player.

*Deezer is only available within the StreamMagic app when running firmware version 129-b-004 or later and StreamMagic app version 2.9.0 or later.

Bluetooth

Last updated: February 2, 2023 03:17. Revision #8784

The Bluetooth source allows your player to receive wireless Bluetooth audio from most phones, tablets and laptops.

Pairing

To begin streaming high-quality music from your chosen media source it will first need to be paired with your player.

- 1. within the StreamMagic App navigate to the Home tab
- 2. Use the "Edit" option of the source to add a Bluetooth source.
- 3. Return to the Home tab and select the Bluetooth source.
- 4. Open your mobile device or laptops Bluetooth settings
- 5. Select your player from the list of available devices
- 6. Your device should now connect to your player

Once paired you should be able to connect to your player at any time by selecting the Bluetooth source on your player and then choosing your player from the list of previously connected devices.

Notes:

Your Bluetooth device can only be connected to your player while the Bluetooth source is selected.

USB Media

Last updated: December 7, 2022 05:20. Revision #8761

You may connect a USB SSD, USB HDD or flash drive to your player via the USB Media inputs located on the rear of the unit for playback. Once connected the following formats are supported: ALAC, WAV, FLAC, AIFF, DSD (x512), WMA, MP3, AAC, HE AAC, AAC+, OGG Vorbis

Note: your player will read large capacity hard drives connected to their USB inputs. However, some larger capacity drives will require you to use their own power supply.

Your player only supports USB hard drives which are formatted to FAT32 and NTFS.

The primary function of your player is as a network music player. The USB ports are intended for convenient connection of USB thumb drives. As such, we cannot guarantee compatibility with all USB HDD's.

USB Media Playback (via StreamMagic app)

- 1.Connect USB SSD, HDD or flash drive to rear panel USB Input.
- 2. Navigate to the Library tab of the StreamMagic app.
- 3.Under USB Drives, locate your USB Media device and open.
- 4.Upon selecting a track you will have the option to 'PLAY FROM HERE', 'PLAY TRACK NOW', 'PLAY TRACK NEXT' or 'QUEUE TRACK'.

Streaming Your Local Digital Music Collection

Last updated: February 2, 2023 03:17. Revision #8785

Your player can play content from many different physical sources and this section will explain what you need to do to access and play your locally stored digital music collection. 'Locally Stored' means the digital music files you have on your PC, Mac or Network Attached Storage devices (NAS).

To stream local content, you will need the following hardware and software running in your network:

- 1. Your Cambridge Audio Network Player.
- 2. A mobile device such as a smartphone or tablet on which you can run the StreamMagic app.
- 3. A hard drive, computer or NAS containing your compatible digital music files.
- 4. An active UPnP music or media server.
- 5. A router which is configured to allow the UPnP service.

Note: The above items must be correctly connected and configured, and it is important to note that depending on the server, NAS, computer, etc. you're using this will differ from setup to setup. To help you with this we have created best practice guide which should get you up and running with minimal fuss and effort. This can be found here.

Settings

Last updated: February 2, 2023 03:17. Revision #8786

Device Name

This is how your player will appear in your StreamMagic app and on your home network when using services like Spotify, Chromecast built-in and TIDAL Connect.

Giving your player a unique name makes it easier to distinguish when using streaming and smart home services.

AirPlay Name

This is how your player will appear when using AirPlay or the Apple Home app.

Standby Mode

This selects what type of standby mode your player will use.

Network Standby means your player will still be controllable by the StreamMagic app and other network services.

If Eco mode is chosen your player will use even less power in standby but will need to be switched on either by the front panel or the remote control.

Automatic Power Down

This sets how long your player will wait while inactive before switching in to standby.

Roon Ready DSD

This will allow you to choose how Roon provides DSD content.

Use DoP for digital output - If your device does support native DSD in DoP format.

Use PCM for digital output - If your device doesn't support native DSD.

Early Update

Setting this to 'On' will let you try out the latest firmware ahead of general release.

For more information and to find out what's new visit our FAQ.

Firmware

This will check for and apply any new firmware available for your player.

When left in network standby overnight your player will check and apply any new updates.

Factory Reset

This will return your player to its factory settings.

You can also do this manually by following the steps below:

- 1. Remove the mains power lead
- 2. Hold the standby button while re-applying the power lead
- 3. The LED will flash red while the factory reset process completes

4. The player will reboot

Note: Your network player must be connected to the internet to carry out firmware updates. It is recommended that you keep your network player connected to ensure optimal performance.

Technical Specifications

Last updated: February 2, 2023 03:20. Revision #8795

Inputs

Ethernet, USB host (mass storage), Wi-Fi, Bluetooth

Outputs

Line out (unbalanced), Digital out (Coax and Optical)

DAC

ESS Sabre ES9033Q

Frequency response

20Hz - 70kHz +0/-1dB

THD+N OdBFS, 1khz, 20k BW

<0.001%

S/N Ratio (20k BW)

>110dB

RCA output level

2Vrms +/-10%

RCA output Impedance

5000hm

Ethernet

IEEE 802.3 10 Base-T or 100 Base-T

Wi-Fi

Wi-Fi 5 dual band 2.4/5gHz WPA2/WPA2-PSK

Bluetooth

5.0 A2DP/AVRCP supporting SBC and AAC

Compatibility

UPnP, Local USB media, Chromecast built-in, Spotify connect, Tidal, Qobuz, RoonReady, Airplay2, Amazon Music

Audio formats

ALAC, WAV, FLAC, AIFF, DSD (x512), WMA, MP3, AAC, HE AAC, AAC+, OGG Vorbis, HLS/DASH, .m3u, .pls playlists

USB File system support

FAT32, NTFS, ext3/4, ExFAT

Hi-res support

Up to 768KHz 32bit PCM, up to DSD512

Mains Voltage 100-240V ~50/60Hz

Max Power consumption

20W

Standby power consumption

<0.5W

Dimensions (H x W x D)

75 x 430 x 305mm

Weight

3.5kg

Troubleshooting

Last updated: February 2, 2023 03:20. Revision #8796

If you have trouble connecting the AXN10 to your network, these steps may help to resolve the problem:

- Ensure that both of the supplied Wi-Fi antennas are securely connected.
- Confirm that a connected computer can access the Internet (i.e. can browse the web) using the same network.
- If you have an encrypted Wi-Fi network, check that you have entered the correct key or passphrase. Remember that text-format keys are case-sensitive.

If your AXN10 can connect to the network successfully but is unable to play particular Internet Radio stations, it may be due to one of the following causes:

- The station is not broadcasting at this time of the day (remember it may be located in a different time zone).
- The station has reached the maximum allowed number of simultaneous listeners.
- The station is not broadcasting anymore.
- The Internet connection between the server (often located in a different country) and you is too slow.

If you have trouble connecting the StreamMagic app to the AXN10, these steps may help to resolve the problem:

- Ensure that both of the supplied Wi-Fi antennas are securely connected.
- Ensure that your mobile device and the AXN10 are connected to the same network.
- Ensure that you have allowed the StreamMagic app to have access to devices on your network, via your mobile devices' app settings.
- Check whether any VPN or Anti-Virus app downloaded on to your mobile device may be preventing the StreamMagic app from 'seeing' the
 AXN.

If you have problems with UPnP playback check the following:

- Ensure your chosen UPnP server software is capable of serving the file type you are trying to access. Some servers do not serve FLAC for instance.
- The AXN can only play non DRM files. Files that have DRM controls cannot be played by the AXN. Some servers may be able to authorise and de-crypt Microsoft PlaysForSure before then serving the content to the AXN, but this operation is not guaranteed as it is purely a function of the server.
- If attempting to play 24-bit WAV or FLAC content a wired Ethernet connection is normally required for reliable operation due to bandwidth considerations.
- Check that the AXN is capable of playing back the file type you are trying to access.

If you have problems with USB Media playback check the following:

- Check that the AXN is capable of playing back the file type you are trying to access.
- For USB Media, the AXN can only play non DRM files. Files that have DRM controls cannot be played.
- Check that your device does not require more than 1A if it is powered from the USB socket itself.
- Check your device format is supported by the AXN.
- The way you organise your USB media affects how efficiently the AXN can browse the content. A good practice is to create folders for Artists within which you should have subfolders for each Album which then contain the tracks for that Album. Libraries with thousands of tracks in one folder will progressively slow down the AXN's media browsing.

There is no power:

- Ensure the AC power cord is connected securely.
- Ensure the plug is fully inserted into the wall socket and is switched on.
- Check fuse in the mains plug or adaptor.

Frequently Asked Questions (FAQ)

Last updated: February 2, 2023 03:33. Revision #8799

Can the AXN10 support MQA content?

Although the AXN can receive MQA encoded content, it is not possible for the device to playback full MQA files via TIDAL Connect, because the AXN does not have an MQA decoder built in to unfold the MQA files.

There are no plans to integrate MQA support into the AXN, as this would require a hardware modification to install a Full MQA Decoder.

How do I set up my AXN10 with a DacMagic 200M for MQA passthrough?

Although the AXN can receive MQA encoded content, it is not possible for the device to playback full MQA files via TIDAL Connect, because the AXN does not have an MQA decoder built in to unfold the MQA files.

It is, however, possible to bypass the DAC in the AXN, and have the MQA file processed by an external DAC that supports MQA, such as the DacMagic 200M. This will allow the full unfold of the MQA file to take place in the DacMagic 200M, and you will still be able to control and queue your MQA files via the AXN.

Please follow the below instructions on how to how to set this up:

- 1. Connect either of the Digital Outputs (SP/DIF Coaxial or Toslink Optical) of the AXN to the corresponding DacMagic 200M Digital Input (D1 or D2).
- 2. Connect the Balanced or Unbalanced Output of DacMagic 200M to your amplifier.
- 3. Select the relevant D1/D2 Input on your DacMagic 200M.
- 4. Open the TIDAL app 'Settings' on your smartphone or tablet, and confirm that the streaming quality is set to 'Master'.
- 5. Select the AXN within the TIDAL Connect menu as your output device.
- 6. Processing of the MQA files will now be passed through to the DacMagic 200M, and MQA playback should be indicated on the DacMagic 200M by the relevant LED light.

Can I use more than one of the AXN10's outputs at once?

If you wish to connect the AXN to one single device, you can use any output, digital or analogue, that you wish.

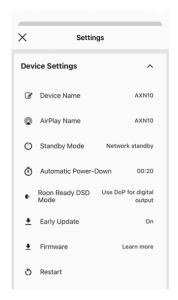
If, however, you would like to connect the AXN to more than one device at a time, you can connect up to three devices and play simultaneously, as all outputs remain active at all times.

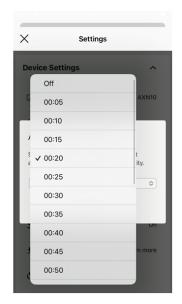
Please note, however, that as the AXN does not contain a volume control, you will need to ensure that the devices connected to the player have their own volume control.

How do I stop the AXN10 from powering down when not in use?

The AXN will automatically switch to standby mode after 20 minutes of inactivity. This Automatic Power-Down (APD) feature can be disabled, by navigating to the device settings within the StreamMagic app.

You can either disable this feature, or edit the length of time it takes for APD to be triggered, by selecting 'Automatic Power-Down'.





Can I play files from a connected USB HD when the AXN10 is not connected to a network?

This is not possible as the use of the StreamMagic app is required to be able to play local files from a connected USB HD.

Please note that it is strongly recommended that the AXN is connected to a network at all times.

What is the Service port on the back of the AXN10 for?

The service port on the back of the AXN is intended for servicing use only by Cambridge Audio authorised service centres and dealers.

Please do not connect any devices to the service port, as this may result in damage to the unit.

Do I need to connect both Antennas for the AXN10 to work?

Yes, if you are connecting your AXN to your network wirelessly, you will need to connect both of the supplied antennas to enable full Wi-Fi functionality and the strongest possible wireless network connection.

Bluetooth functionality will also only be possible when one of the antennas is connected to the port with the Bluetooth symbol.

Does the AXN10 have pre-amp or volume control?

The AXN does not have a 'pre-amp' mode and it is not possible to control the volume of the unit, as it outputs a fixed volume level.

You will need to control the volume of the AXN via your connected amplifier or DAC.

Does the AXN10 have a remote control?

The AXN does not have a remote control. The unit can be controlled and the settings can be adjusted via the StreamMagic app.