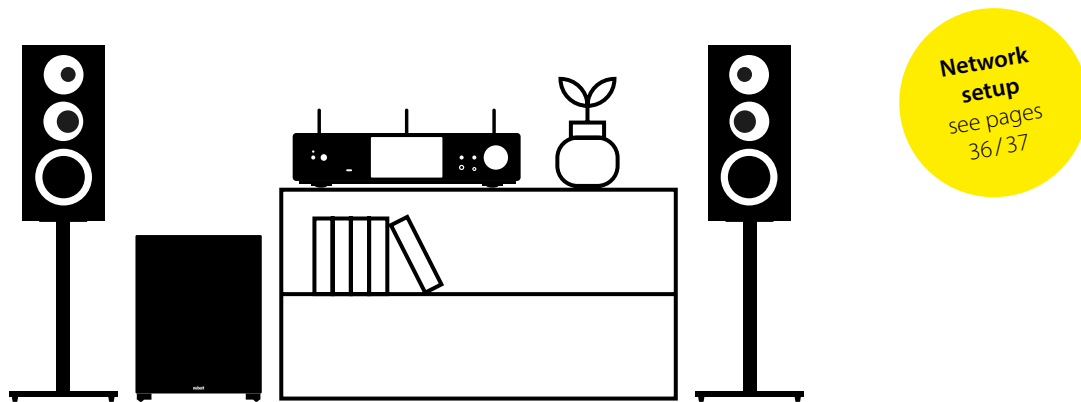


Nubert nuControl X

Application examples



If you have any questions or problems when commissioning your Nubert system, you are welcome to contact our service team.

Please have your customer number ready.

Phone: +49 (0)7171 87120 · Email: info@nubert.de



nubert[®]

Thank you very much for choosing a device from Nubert!

Instructions for setting up your system can be found in the start-up guide on the back of this booklet.

In it, we explain the full range of functions, operation, and connections in detail so that you can achieve the best sound quality and functionality and fully enjoy your device.

Please also be sure to read the additional safety instructions enclosed!

The Nubert team wishes you a lot of enjoyment!

This section of the booklet is intended to demonstrate various practical application possibilities of the nuControl X. It is designed to provide you with concrete setup and connection guidance, as well as tips for the correct configuration of your music system.

Note: The nuControl X allows for a wide range of applications. The possibilities shown below are examples. If you encounter any issues when setting up the nuControl X in your individual setup, our telephone support will be happy to assist you.

Please also be sure to read the separate leaflet with safety instructions and service information.

**For detailed instructions on operating the device,
please turn the booklet over.**

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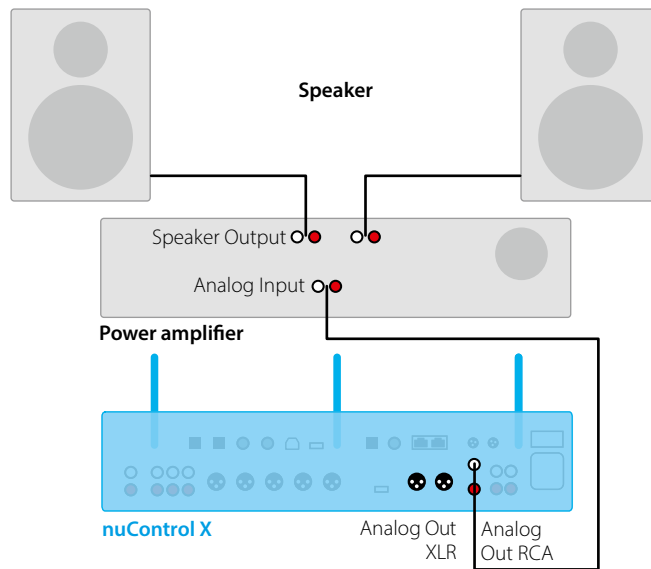
Power Amplifier and Passive Speakers

The connection of a power amplifier can be balanced via XLR or unbalanced via RCA. The **Analog Out XLR** or **Analog Out Pre** outputs are used for this purpose. They are volume-controlled and output the main signal, which can be influenced by the various equalizers and settings in the Sound menu (see page 11 ff.).

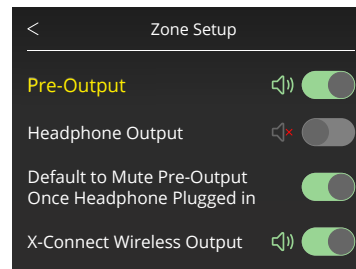
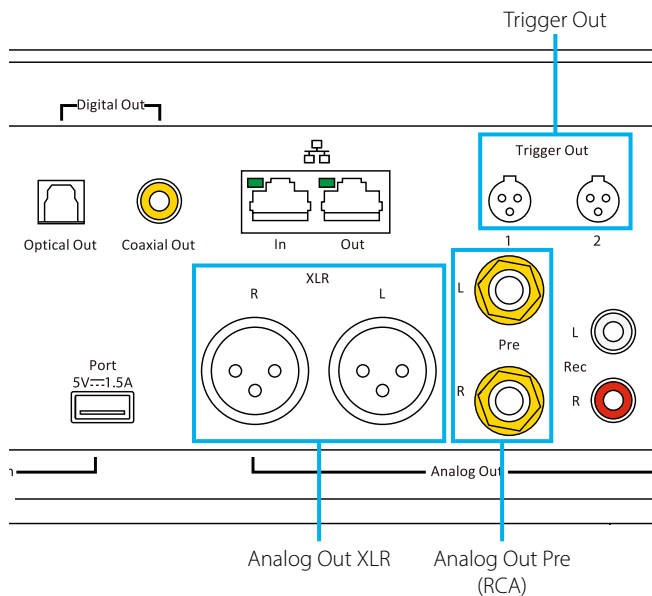
Output voltage: Nominal voltage / Maximum

Aux: $3,2 V_{\text{eff}} / 8 V_{\text{eff}}$

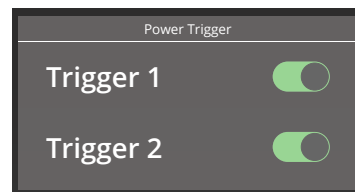
XLR: $3,2 V_{\text{eff}} / 12 V_{\text{eff}}$



If the power amplifier is to be turned on and off together with the nuControl, the Trigger Out connections can be used for this purpose. The nuControl provides a trigger signal with 12 V. The sockets are in mini-XLR format to ensure a secure connection. Suitable cables are included.



The preamplifier outputs Analog Out XLR, Analog Out Pre, and Analog Out Sub can be activated or deactivated together in the menu > Zone Setup > Pre Output.



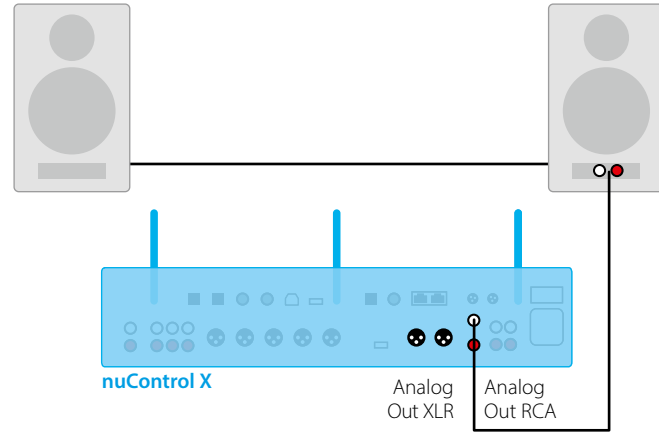
The trigger connections can be individually activated or deactivated in the menu > Setting > Power Trigger.

Active speakers via XLR or RCA

The nuControl X preamplifier allows the simultaneous use of the RCA and XLR front outputs. This can be useful for connecting two different speaker systems. In our previously mentioned example, the setup can be expanded to include two active speakers supplied with the same signal as the main speakers.

As with connecting a power amplifier, active speakers can also be connected to the analog outputs. The connection can be balanced via XLR or unbalanced via RCA. The Analog Out XLR or Analog Out Pre outputs are used for this purpose. They are volume-controlled and output the main signal, which can be influenced by the various equalizers and settings in the Sound menu (see page 11 ff.).

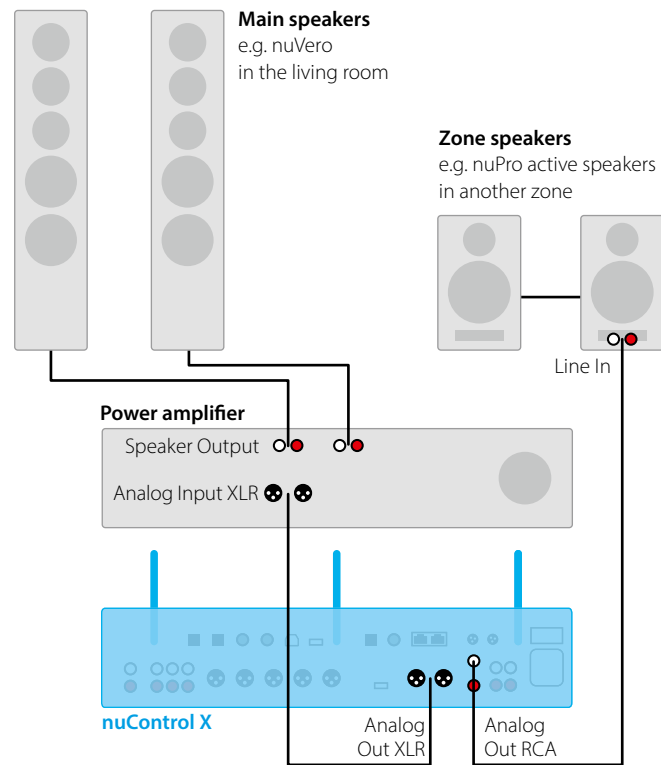
Alternatively, active speakers can also be integrated wirelessly via X-Connect Surround. More information on integrating speakers via X-Connect can be found on page 45.



Tip: Use XLR and RCA Outputs Simultaneously

The nuControl X allows the simultaneous use of the RCA and XLR outputs. This can be useful when connecting two different speaker systems. For example, speakers in another listening zone, such as the kitchen, can be supplied with the same signal as the main speakers.

Note: Both outputs provide the identical, volume-controlled signal, which may be modified by the respective sound controllers. If two significantly different pairs of speakers are to be operated, it is advisable to use neutral settings as much as possible and save them in one of the memory slots p1, p2, p3 for this mode of operation (see pages 18/19).



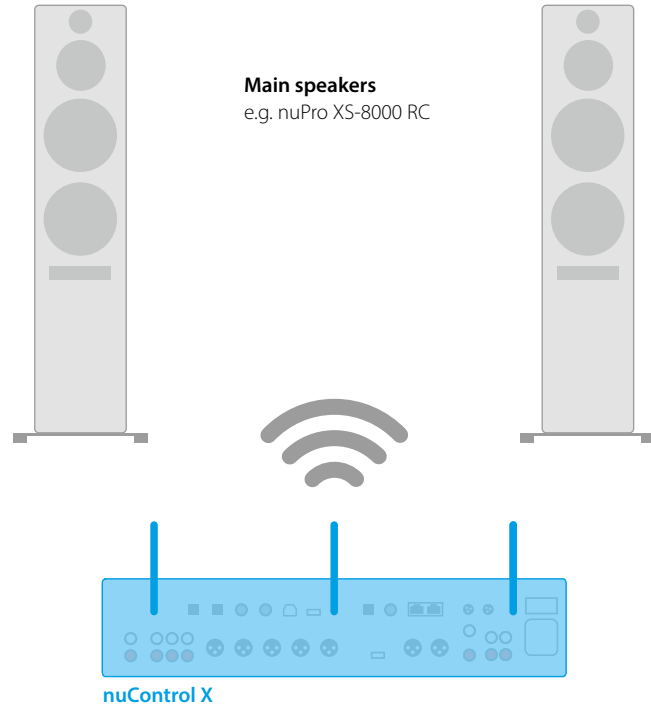
Active speakers via X-Connect wireless system

Active speakers such as the Nubert X-Series and the nuZeo series can be wirelessly supplied with audio data from the nuControl X via X-Connect.

To use this option, first screw all three antennas to the back of the nuControl X and align them upwards.

Then, in the menu > Zone, activate the function > X-Connect Wireless Output to turn on the wireless protocol (see figure on the right).

The wireless range is sufficient for up to 50 meters without obstacles. In practice, 10 to 15 meters should always be possible, considering the presence of walls and furniture in the house.



Turning on the X-Connect
Wireless Protocol:
Activate and configure in
the menu > Zone Setup
> X-Connect Wireless Output
(see page 11 for details).



Please also refer to the user manual of the respective
speakers to connect them via X-Connect.

Subwoofer

A subwoofer significantly enhances the stereo experience by amplifying low frequencies. This also relieves the other speakers from handling the low-frequency range, giving the setup much more dynamics.

Active subwoofers can be connected to the "Sub" outputs on the nuControl X. Both outputs provide a volume-controlled, low-pass-filtered mono signal. Separate settings can be made for both outputs via the Subwoofer menu (see page 41 ff.).

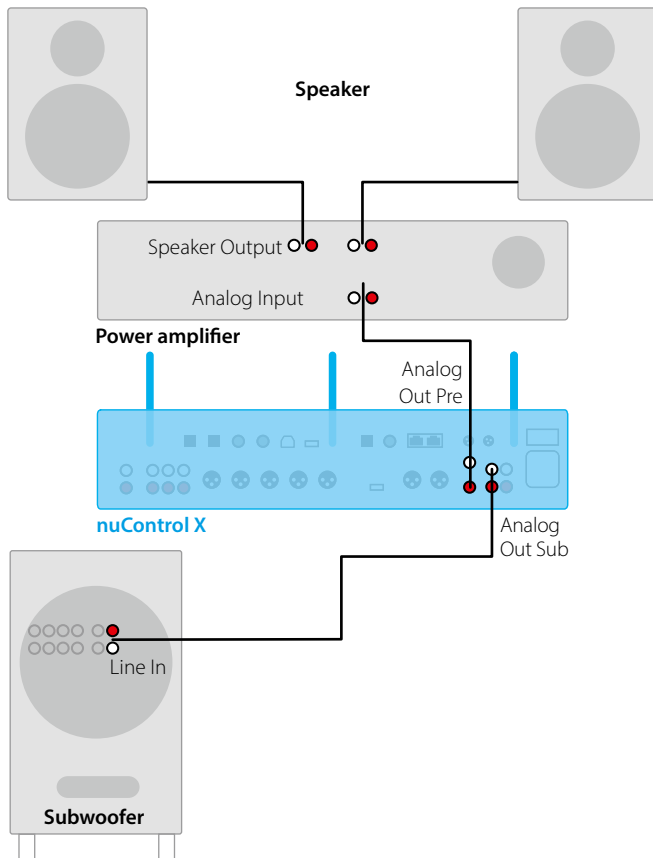
If the subwoofer is controlled wirelessly via X-Connect, the settings must be made on the subwoofer itself, as a full-range signal is always output here. Please refer to the subwoofer's user manual for instructions on setting it up for wireless operation.

Sub/Sat-System

The nuControl X is equipped with two separately adjustable outputs (Analog SUB). If only one subwoofer is connected, only one output should be used – proper cabling must be observed here. It is advisable to set the upper limit frequency to the maximum value on the subwoofer and to make further, finer adjustments of the parameters via the Subwoofer menu on the nuControl X. Detailed subwoofer adjustments can be made in the Nubert app. Subwoofers can also be controlled wirelessly via X-Connect.

Menü Subwoofer

In the **Subwoofer** menu, you have access to sound control for the two subwoofer channels of the nuControl X. A mono signal is provided at both outputs (see page 4/5). The parameters Level, Delay, and Phase can be adjusted separately for the two subwoofer channels. Use the left and right buttons on the control pad to adjust the respective values. Use the up and down buttons to switch between the individual options.



Tip: With the nuControl X, a correct addition of signals from satellites and subwoofer can be achieved not only by adjusting the phase and delay of the subwoofer but also by delaying the satellites.

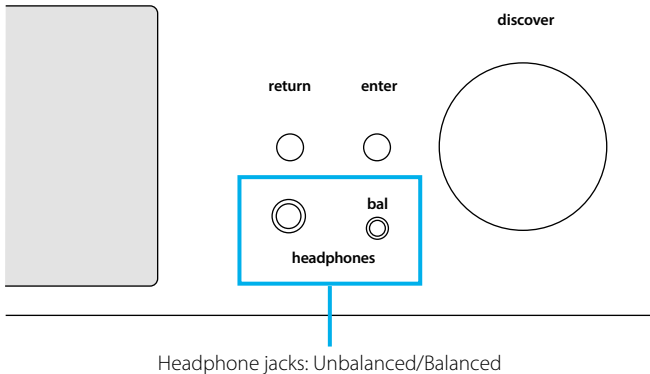
Setting an appropriate delay for the satellites provides significant advantages in terms of the overall system's timing compared to setting a delay for the subwoofer.

When integrating a subwoofer using the **Delay** menu item in the **Sound** menu (see p. 11), delaying the satellites can achieve a sound performance comparable to high-quality floor-standing speakers. Therefore, it is recommended to establish the correct timing behavior using the Delay menu item in the Sound menu when setting up the overall system.

Headphones

Unbalanced/Balanced

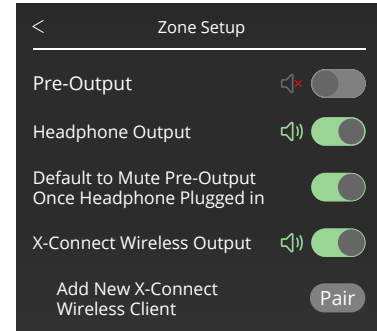
The jacks for connecting headphones are located on the front of the device, labeled Headphones. When connecting **headphones**, you can set in the **Zone** menu (see page 11 and figure on the right) whether connected main speakers should be muted or remain active.



Headphone jacks: Unbalanced/Balanced

Zone setup menu

The option "Headphone Output" activates the headphone outputs.



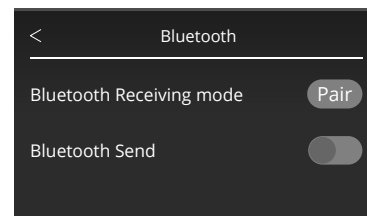
Bluetooth

Headphones with built-in Bluetooth can also be paired with the nuControl X via Bluetooth. To do this, activate the **Bluetooth Send** function in the **Setting** menu (see page 12). If necessary, please refer to your headphones' user manual to learn how to activate Bluetooth pairing mode. The wireless connection allows for convenient operation of the headphones.

Note: The Bluetooth connection remains stable over a distance of about ten meters. Walls, furniture, and other obstacles can significantly limit the connection.

Menü Setting > Bluetooth

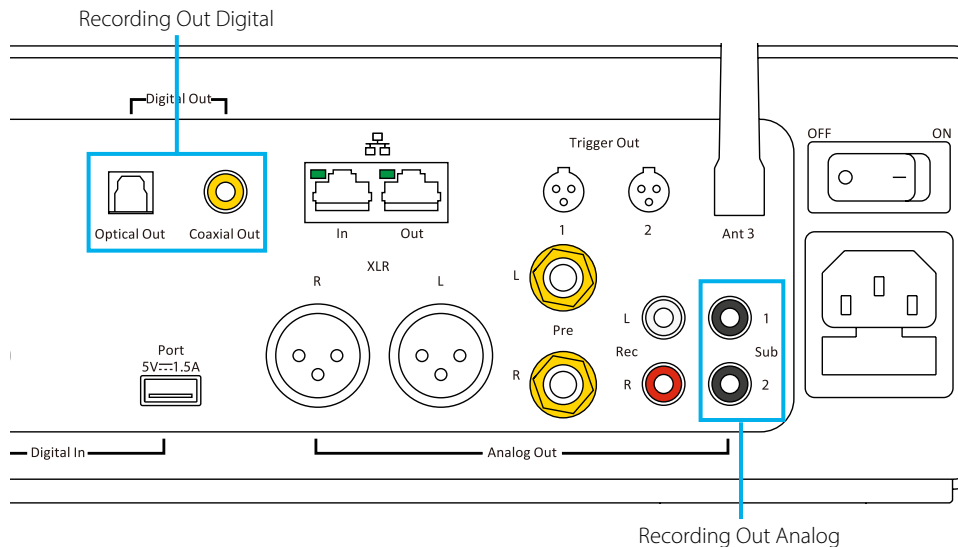
The **Bluetooth Send** option activates Bluetooth as a transmitter; this allows Bluetooth headphones or active speakers to be controlled via Bluetooth from the nuControl X.



Recording devices

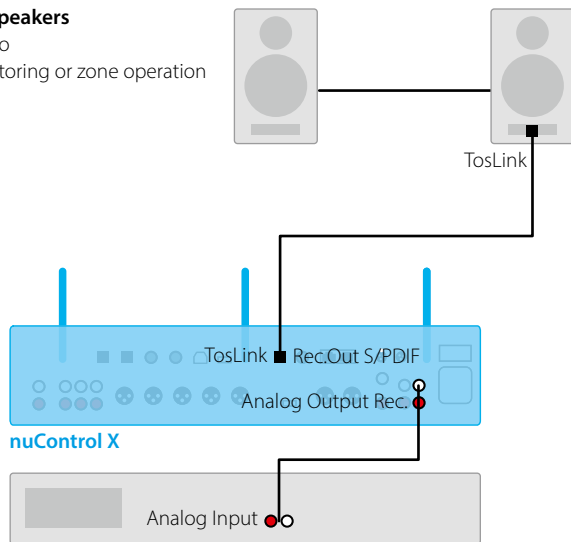
The nuControl X preamplifier also provides several recording outputs. Both analog and digital outputs are available. All recording outputs reproduce the signal of the currently selected input. Thus, a recording can be made with a classic recording device such as a tape deck parallel to music playback.

The signal is converted into the appropriate format if necessary – but not volume-controlled and without further modifications. Therefore, we recommend using volume-controlled active speakers, such as our nuPro series. The preamplifier can also be used as a high-quality D/A or A/D converter.



Active speakers

e.g. nuPro
for monitoring or zone operation

**Recorder with analog inputs**

e.g. tape deck

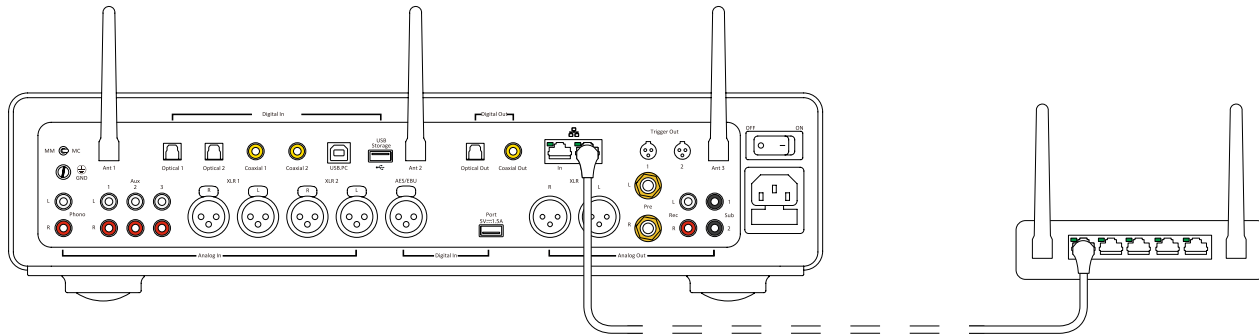
Network

The nuControl X is fully network-compatible and supports the DLNA and UPnP standards. This allows it to be found by other devices in a network. For further hints on configuration in a network, see the user manual on page 4/5. Operating via a network offers a particularly convenient solution.

The nuControl X acts as a network player and streams your music wirelessly if desired, even to speakers in another room. Another advantage is the quick access to streaming databases, for example, from Spotify or Tidal. Thousands of music tracks and albums are available in seconds.

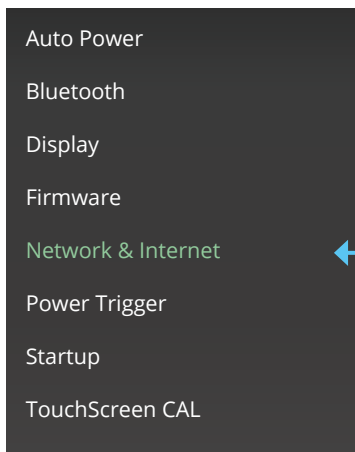
Via network cable

Connect the nuControl X to the router using a LAN cable as shown in the figure. The internet connection is automatically set up.

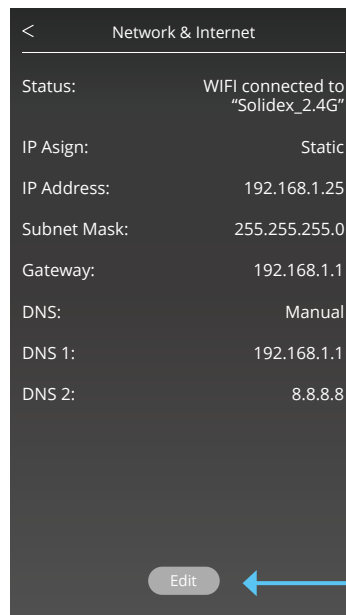


WLAN

In the menu "Setting > Network & Internet > Edit," first activate "WLAN" and select the desired network connection (see user manual pages 12/13).



Settings in the
Setting menu



Selection of the WLAN
setting in the **Network
& Internet** menu

When an internet connection is established, the desired offer from various streaming providers can be selected (optional and subject to a fee).

Analog inputs

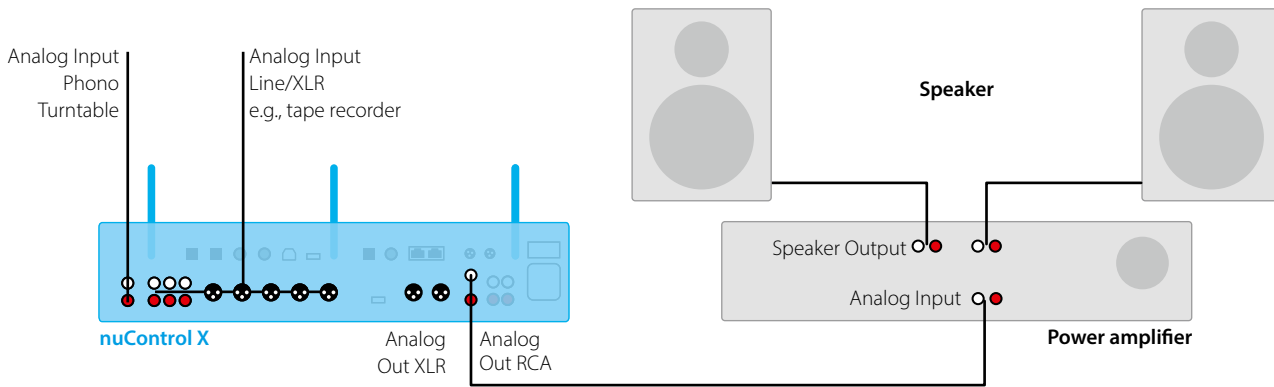
Phono as well as Line and XLR inputs

Analog and digital sources can also be used simultaneously with the nuControl X. For example, it is possible to connect a CD player digitally and operate a classic turntable or tape recorder via the analog phono input. The preamplifier thus allows combining proven analog devices with the advantages of modern digital technology.

Stereo Setup Example

Even as a stereo set with two speakers, the listening experience can be significantly refined with the nuControl X preamplifier. In the application example below, two passive speakers are connected via the RCA connection to a power amplifier; the nuControl X is then connected to the power amplifier via an analog output.

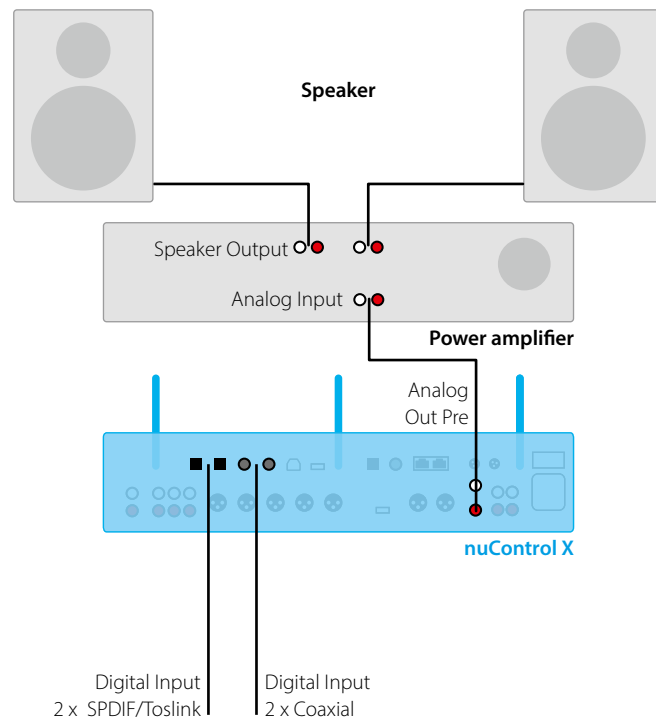
Even in this configuration, the numerous finely adjustable and individually configurable adjustment options of the preamplifier come fully into their own.



Digital inputs

SPDIF / Toslink

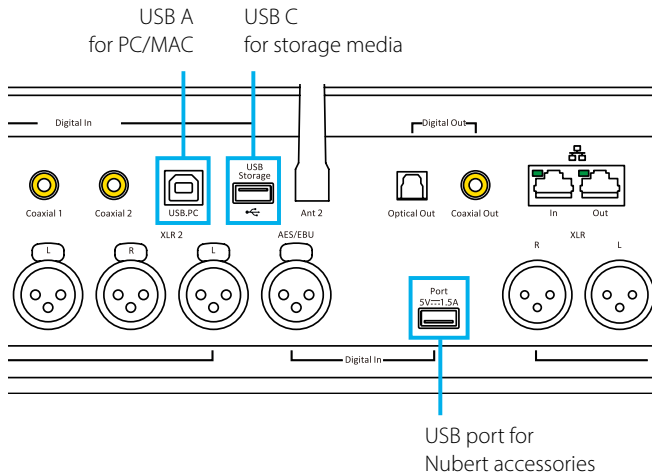
Source devices with an optical digital output can be connected here, such as network players, televisions, and game consoles. The signal is transmitted completely digitally.



USB connections

Audio playback as a sound card on a PC

When connected to a computer via USB, the nuControl X is automatically recognized as an external sound card. PC audio files can thus be played through the hi-fi system. To do this, select the **USB** input in the menu on the nuControl X.

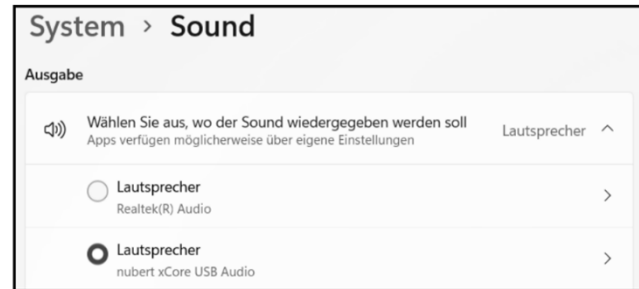


Microsoft Windows 10 / 11 and MacOS from Sierra automatically download and install the required driver. Alternatively, this driver is also available at www.nubert.de/downloads. If this does not work:

Manual selection of the output device

Open the operating system's system settings and navigate to the options > **Sound / Audio** > **Output**. There you can select the audio output device.

Windows:



MacOS:



Manual selection of the output format in shared mode

Windows allows you to specify the output format in which music data is passed to the USB DAC in shared mode. To do this, navigate to the area as described above:

> **System**

> **Sound**

> **Device properties**

> **Additional device properties**

> **"Advanced" tab**

Select the speaker whose settings you want to adjust. Here you can specify the default format in the drop-down menu.

Note: The playback of applications operating in exclusive mode is not affected. Here, the playback format is determined directly by the application.

Software to control the functions of the nuControl X via PC is not available; in this configuration, when connected to a computer, the pre-amplifier must be controlled via the remote control or the display.

USB Ports for Storage Media

There is a USB input labeled **USB Storage** on the back of the unit, which can be used as a local hard drive. Even without access to a streaming provider, you can always have your favorite digital music at hand. The nuControl X recognizes music files in mp3, wav, aac, ogg, alac, wma, and flac formats. USB sticks up to 2 TB capacity are supported as mass storage.

To play audio, select the **USB** input on the nuControl X.

Bluetooth

The nuControl X can also stream audio data via Bluetooth. This allows, for example, a smartphone to be connected to the preamplifier, and music files can be played through the hi-fi system.

Audio playback from mobile device

The nuControl X can both send and receive Bluetooth (e.g., from a smartphone). This makes the possible applications almost limitless.

For configuration hints, please refer to the Bluetooth chapter in the user manual on page 12. Once a device has been paired via Bluetooth, it can be selected directly using the right button on the button block 12 (see manual page 19).

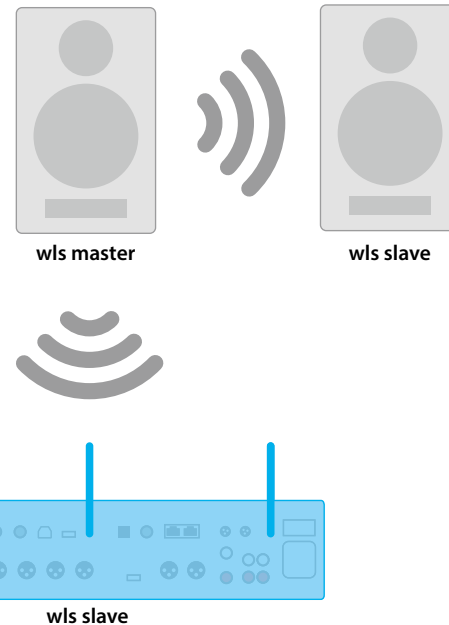
Wireless connections via X-Connect

Open the **sound** menu for the Zone Setup to set up Wireless X-Connect and headphone connection options.

X-Connect

To connect a speaker wirelessly via X-Connect to the nuControl X, first put the speaker into pairing mode (see the speaker's manual). Then activate the **X-Connect** option in the **zone** menu on the nuControl X. Go to **X-Connect wireless setup** and press **pair** in the following menu – the nuControl X will now search for compatible speakers. When the connection is successful, the paired speaker will appear on the display.

Active speaker
z.B. nuPro XS-4000 RC



◀ Application examples

Technical changes and printing errors reserved.

Further information about this product is available at
<https://www.nubert.de/downloads>

The general terms and conditions can be viewed at
www.nubert.de/gtc



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