

Nubert

nuControl X-2

User Manual

Connection Instructions

Quick Start
General
Settings
see page 13



If you have any questions or encounter any problems whilst setting up your Nubert system, please feel free to contact our service team. Please have your customer number to hand.
Telephone: +49 (0)7171 87120 · Email: info@nubert.de



Ambient Line

nubert[®]

Thank you very much for choosing a Nubert product!

To set up your system, we recommend that you start by reading this commissioning guide.

Here we explain the full range of functions, how to use the device and its connections in detail, so that you can achieve the best possible sound quality and functionality and enjoy your device to the full.

Please be sure to also follow the additional safety instructions enclosed with the!

The Nubert team wishes you lots of enjoyment!

Unboxing and contents of the box

Unpacking

When unpacking your nuControl X-2, do not use any sharp or pointed objects to avoid causing any damage to the casing. Please keep the packaging in a safe place in case you need to transport the device at a later date.

Contents of the package

If the delivery is complete, it shall consist of the following items:

- 1 nuControl X-2
- 1 remote control with battery
- 1 mains lead, 1.8 m
- 3 radio aerials

For information on practical examples of use, please turn the page.

Cooling, sound and operational reliability

If electronic devices are moved from a cold environment into a warm room, condensation may form inside the device – there is a risk of malfunction or electric shock!

Wait at least 6 hours before switching it on, until the appliance has reached room temperature and is dry!

Line-up

Place the nuControl X-2 on a level, stable surface. Ensure that there is sufficient space around it and that air can circulate freely.

Fit the antennas (supplied) to the threaded sockets on the back of the unit. Point the antennas upwards.

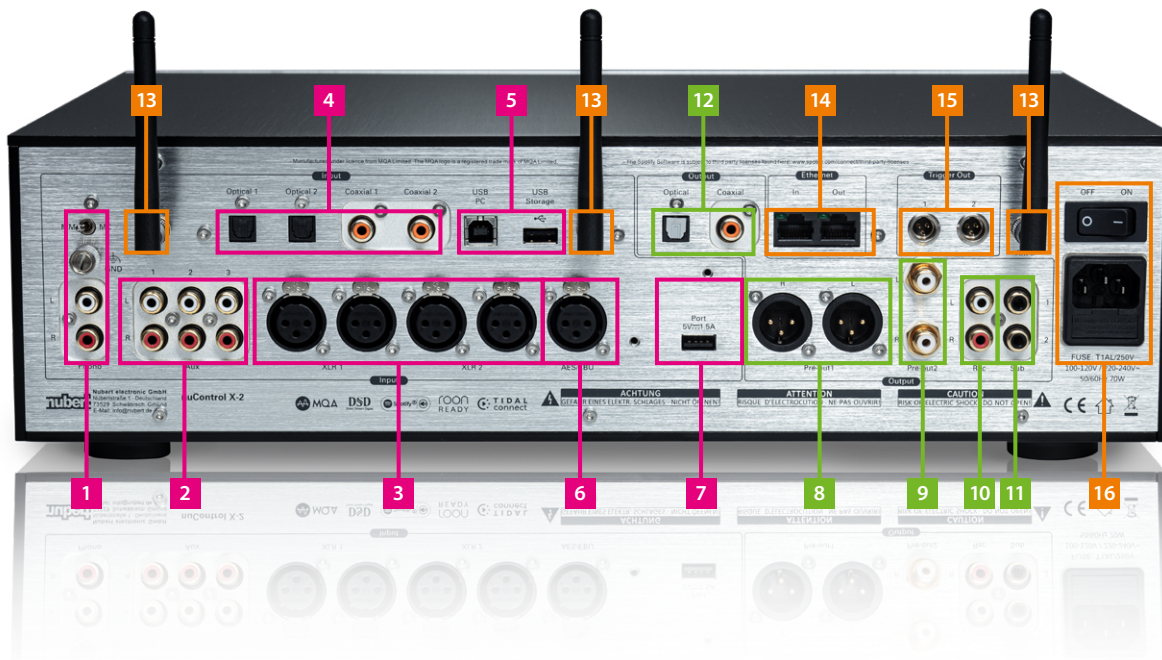


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Rear of the device, connections

The nuControl X-2 must be fully wired before it is switched on.
Please follow the remaining steps set out in this manual.



Inputs

1. **Phono input** including a screw terminal for ground connection and selection of the MM/MC cartridge system via a toggle switch.
- ⚠ **Warning!** Do not connect any line-level devices here! Doing so may damage the unit!
2. **AUX inputs** : Aux 3 can be configured for fixed-level operation; see page 41
3. **XLR inputs**
4. **SPDIF inputs** 2 × optical, 2 × coaxial (max. 192 kHz, 24 bit)
5. **USB ports** USB-A port for storage media, USB-B for PC or Mac
6. **AES/EBU** (max. 192kHz, 24-bit)
7. **USB port** for Nubert accessories

Outputs

8. **Analogue Out XLR** Analogue XLR outputs, including tone and volume controls
9. **Analogue Out Pre** analogue line outputs, including tone and volume controls
10. **Analogue recording outputs** RCA
11. **Subwoofer outputs**
12. **Digital recording outputs** optical / coaxial


Further

13. **Screw terminal for radio antenna** 3-way
14. **Network ports (in/out)**
15. **Trigger connectors** Mini-XLR
16. **Mains socket and switch**

⚠ **Warning!** Always connect all equipment before switching on the mains power!

Front panel, controls



- 
- 1. On/Off** with operating LED
Note: It may take around 45 seconds for the device to start up.
To switch off, press the button for 4 seconds
 - 2. Headphone jack**
 - 3. USB-C** for storage devices up to 2 TB
 - 4. Touchscreen display**
 - 5. Return/Enter key** – to return to the previous menu or to confirm entries
 - 6. Rotary knob for adjusting the volume**

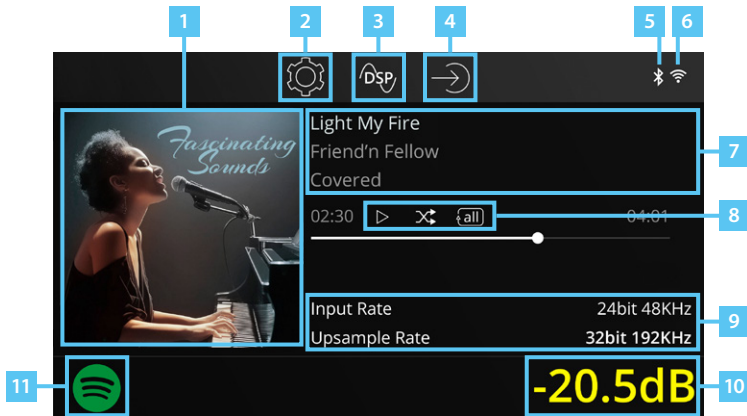
Display

The display provides information on the current operating status.
As a touchscreen, it allows for simple, direct and intuitive operation.

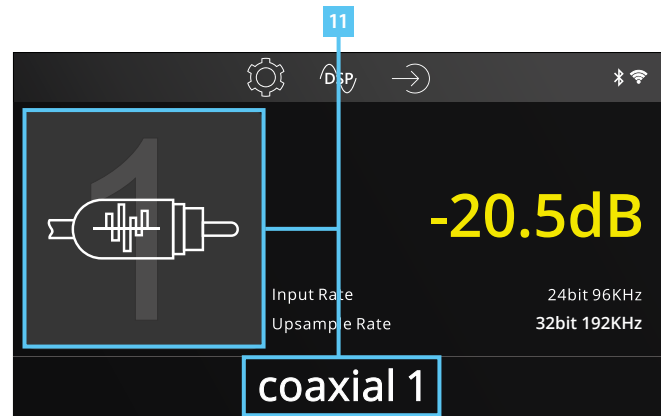
Standard view / Main screen

Displayed depending on the selected input.

Streaming view



Digital input



Display area

5. **Bluetooth** blue – active, grey – inactive
6. **Network** white – active, grey – inactive
7. **Artist / Album / Track**
9. **Current audio/sound format**
11. **Active source**

Control panel

1. **Cover art**
2. **For general settings**, see page 13
3. **For sound settings**, see page 12
4. **For input selection**, see page 16
8. **⏮ Skip Back**
jumps to the previous track
- ▶ Play / Pause**
starts or pauses playback
- ⏭ Skip Forward**
skips to the next track
10. **Volume** can be adjusted via the touchscreen

Note:

The **Return button**, located to the right of the display, takes you back one level in the menu. Pressing it several times takes you to the home screen. All controls can also be accessed via the supplied remote control and the Nubert app (see the relevant sections in this manual).

Remote control

The remote control provides access to all the functions of the nuControl X-2. Just as you can on the front of the device via the touchscreen display, you can also use the remote control to navigate through the menu and adjust settings.


For example, you can select the device's various inputs directly or switch the loudness function on or off.

A CR-2032 battery (button cell) is required to operate the remote control (included).

Inserting the battery

Open the compartment on the back using a Phillips-head screwdriver. Slide the battery into the slot at a slight angle, from bottom to top, and insert it carefully. Ensure the polarity is correct! Then close the battery compartment again and tighten the screws.

Please note: Used batteries must be recycled via a collection point and must not be disposed of with household waste.

 **Warning!** Do not immerse the remote control in water or expose it to any liquids! The remote control must not be used to pry open objects or as a tool in any other way!

Sound presets and shortcut keys

The nuControl X-2 allows you to create and use **sound presets** so that you can quickly access different listening situations. The sound presets are configured in **the Sound menu**.

There, various sound parameters – in particular

EQ settings – can be individually adjusted and saved.

This allows presets to be configured specifically for different application scenarios, such as music, film or speech.

The saved presets can be accessed and cycled through directly using the **remote control**. This allows you to switch quickly between different sound settings without having to open the menu again.

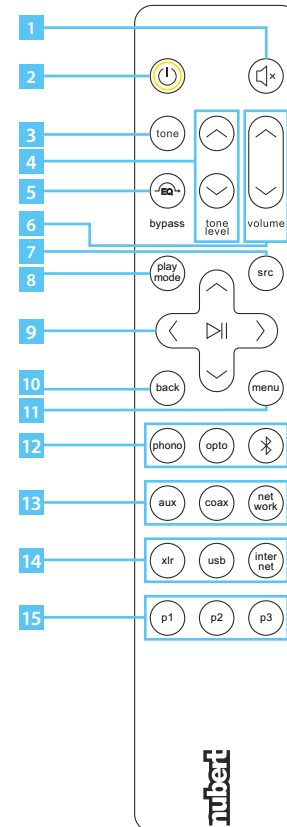
Sound presets are particularly useful for quickly adapting to changing listening situations in everyday use.

Further information

If the nuControl X-2 is put into standby mode manually using the remote control, the app or the On/Off button on the device, the automatic switch-on function is deactivated.

Key legend

No.	Key	Function
1	Mute	Mute sound
2	Standby	Switching on/off, standby mode
3	tone	allows for further sound settings
4	tone level	opens the menu for adjusting treble and bass
5	EQ bypass	allows you to switch the equaliser on and off
6	volume	adjusts the volume
7	src	Setting the sampling rate
8	play mode	to select playback options such as 'repeat'
9	The arrow pad	is used for navigation
10	back	equivalent to the return key on the device
11	menu	opens the main menu
12	phono, opto, bluetooth	activates the Phono, Optical and Bluetooth inputs
13	aux, coax, network	activates the Aux, Coaxial and DLNA inputs
14	xlr, usb, internet	enables the XLR and AES/EBU inputs, the USB ports, or offers a choice between different internet services.
15	p1, p2, p3	Speed-dial keys – can be customised



Control

Once the device has been switched on, the system boots up in around 45 seconds and the display shows the start screen shown earlier.

The **settings** can be adjusted using either the touchscreen display on the front of the device or the buttons on the remote control.

The **directional pad** on the remote control is used to navigate the menu.

Pressing the arrow key for **Play /or Pause** in the centre of the directional pad confirms an entry.

You can return to the previous menu level by pressing the **Back button**.

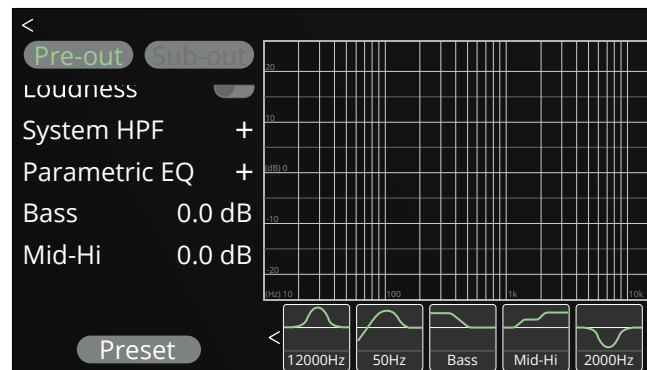
DSP Sound settings

Provides settings for sound and various equaliser options.

Pre-out / Sub-out

Firstly, you can choose between the analogue pre-out and subwoofer outputs.

Each of these two sections has its own filters, such as an equaliser, high-pass/low-pass filter and a delay.

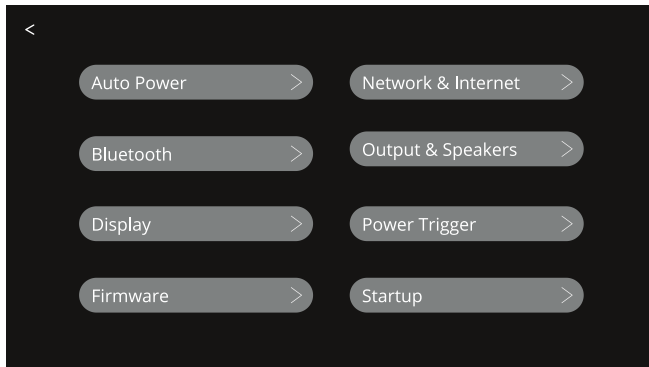


Settings in the **Sound Settings** menu



Settings (General)

Opens the device's configuration options, such as display settings, automatic switch-off, Bluetooth and network settings, connecting speakers and information about the installed firmware.



The device's settings options

Auto Power

Allows you to select three options for automatic switch-off and standby mode:

- **Always On** Automatic switch-off is disabled.
- **Auto Standby** The nuControl switches to standby mode after 20 minutes at the latest if no audio signal is being fed in. On the digital inputs, it also responds to the absence of the digital data stream. Network operation, X-connect and Bluetooth are deactivated, and the operating system is shut down. Standby power consumption is less than 0.5 watts; the operating LED lights up red.
- **Auto Network Standby** As in Auto Standby mode, the device switches to standby after a maximum of 20 minutes without an audio signal. Wi-Fi, X-connect and Bluetooth remain active; the operating system remains in power-saving mode and can be restarted very quickly. Standby power consumption is less than 7 watts; the operating LED glows a faint blue.

Bluetooth

A Bluetooth audio device can be paired here. (Pairing)

Display

In this sub-menu, you can adjust the display brightness and set automatic dimming. You can also select the menu language and set up a device lock.

Firmware

Displays information about the installed firmware.

If the 'Automatic Updates' option is enabled, the nuControl X-2 will automatically check for updates and install them provided there is an internet connection.

If there is no internet connection, the firmware can be updated via a USB stick. The nuControl X-2 will automatically extract and install the file from this stick after a restart. You may need to confirm a security prompt before the update is carried out.

Network & Internet

The nuControl X-2 can be connected directly to an internet router via a LAN cable. After tapping '**Edit**', you can also enable the Wi-Fi function in this sub-menu and then connect to the desired network.

Please have your network key to hand for this.

The nuControl X-2 is fully DLNA- and UPnP-compatible and will therefore be automatically detected on the network.

Output & Speakers

The 'Output & Speakers' menu option allows you to manage, enable and configure the device's audio outputs and speaker connections.

- **Pre-Output**

Enables or disables the preamp outputs for the main speakers and subwoofer.

- **Headphone Output**

Enables or disables the headphone output.

- **: Mute the pre-out by default once headphones are plugged in**

If this function is enabled, the preamp outputs are automatically muted as soon as headphones are connected.

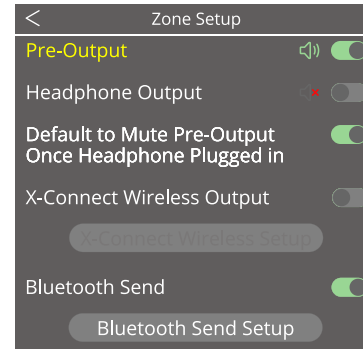
- **X-connect Wireless Output**

Enables or disables X-connect wireless transmission. If the function is enabled, wireless X-connect speakers can be set up and assigned to the desired audio channels.

The channel configuration can be adjusted at any time.

- **Bluetooth Transmit**

Enables connection to Bluetooth playback devices, such as headphones or speakers, to transmit audio signals wirelessly.



Trigger Output

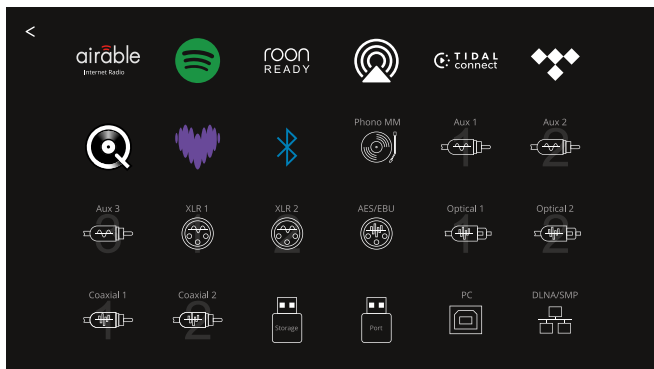
Here, the two trigger outputs can be activated individually.

Start-up

The input selected here will automatically be used as the source when the device is switched on from standby.

Input selection, Setting up streaming services










Tapping the 'Input Selection' icon on the display or pressing the 'Internet' button on the remote control opens the relevant menu.



You can now select and configure the relevant audio sources by double-tapping the screen or using the arrow keys on the remote control.

If a smart TV or computer is connected, you can also access additional sources such as YouTube Music or Amazon Music via these devices.

The nuControl X-2 pre-amplifier supports the following streaming services:

-  **Apple AirPlay**
-  **Airable (digital radio)**
-  **Airable (Podcasts)**
-  **Deezer**
-  **Qobuz**
-  **Spotify Connect**
-  **Tidal Connect**
-  **Roon Ready**
-  **Tidal**

Airable

When the airable service is launched, you can choose between radio and podcasts. In both cases, various sorting and filtering options are available on the left-hand side of the screen, whilst the actual stations or podcasts can be selected on the right.

Here is a selection of the sorting and filtering options:

Favourites	lists your saved favourites.
History	shows the most recently played channels.
Popular Stations	lists the most popular stations.
Recommendations	lists recommendations.
Trending	shows the most listened-to stations in the coverage area.
High Quality	lists channels with particularly high transmission quality.
Filter	option allows you to filter the channel list according to specific options.
Search	starts a manual channel scan. This may be helpful if the location of the device has changed.

Sign up for Qobuz, Deezer and Tidal

To use the integrated streaming services, you must sign in with an existing user account.

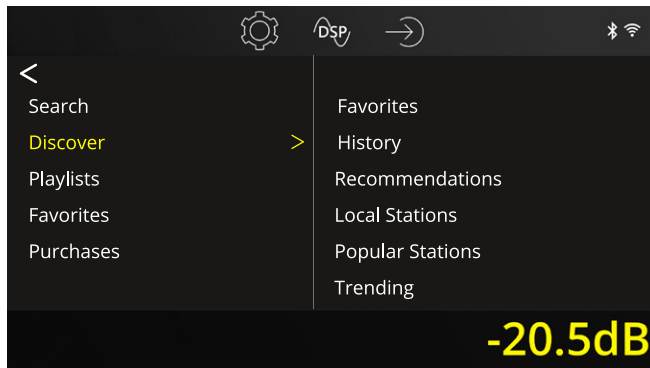
Select the streaming service you want from the input selection or the main page.

If no account has been registered yet, a message prompting you to log in will appear. Please confirm this to start the login process.

In the next step, enter your email address and password, then confirm by clicking 'Log in'. Once you have logged in successfully, your status will be displayed, including your username and the available streaming quality.

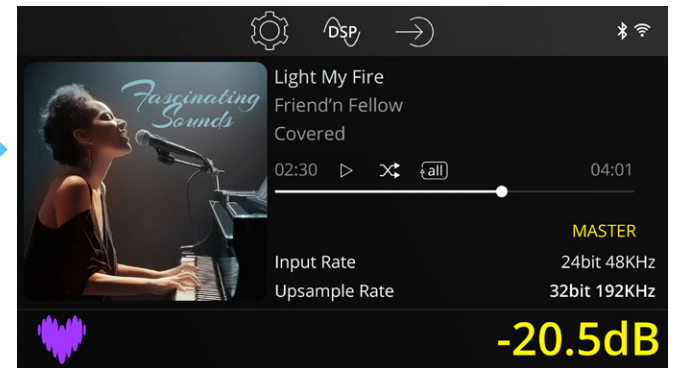


Once you have completed the registration process, you will be automatically redirected to the user interface of the relevant streaming service. There, you will find features such as search, favourites, playlists, history and recommendations, depending on the service you have chosen.



Playback is controlled directly via the nuControl X-2. The track currently playing, the artist, the album and the volume are displayed on the main screen.

You can unsubscribe from the streaming service at any time via your account page.



Control via the Nubert Control X app

The nuControl X-2 can also be operated using the Nubert Control X app. This is available free of charge from the Apple App Store or the Google Play Store.

App installation

Download the **Nubert Control X app** from the Apple App Store or the Google Play Store and install it on your smartphone or tablet. Grant the app all the necessary permissions.

Connecting the Control X app to the device

First, make sure that the nuControl X-2 is connected to your local network via Wi-Fi or LAN. You can set up the network connection in the **Settings > Network & Internet** menu on the device. (see page 14)

Establish a connection

Connect your smartphone to the same network as the nuControl X-2. Then launch the app. The nuControl X-2 will be automatically detected on the network and displayed in the app.

Further information:

- **Do not use** the option in the smartphone's Settings menu.
- **To ensure that** the device can be switched on again via the app after it has been switched off, the **'Auto Network Standby'** option must be selected in the standby settings. See also page 23.

Connecting the nuControl X-2 to the Control X app

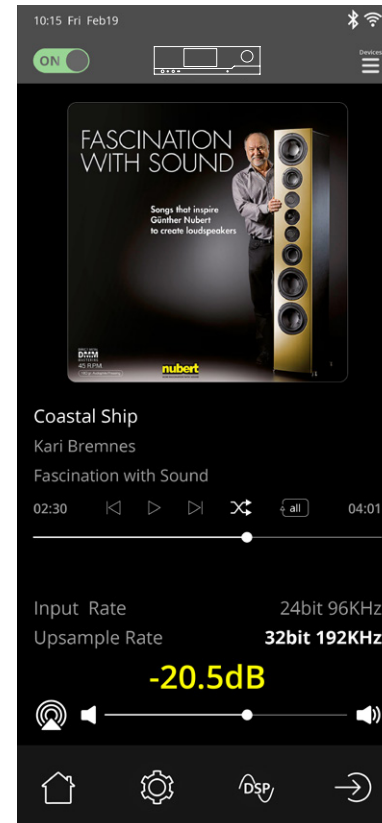
To use the Control X app, the nuControl X-2 must be connected to the network directly via the device's touchscreen display. It is not possible to set up the network for the first time via the app.

Please note: The Control X app only requires permissions for network access, as well as system-related permissions such as access to your location, in order to find and connect to devices on the local network. No other permissions are used.

If the nuControl X-2 and the mobile device are on the same network, the Control X app can be launched. The device will automatically appear in the device list, where it can be selected.

Once the connection has been successfully established, the app's home screen offers the same functions as the device's home screen, in particular access to the three main menus:

- General settings
- Sound settings
- Input selection



Network settings

You can choose whether to set up a wired or wireless network connection.

To set up a wired connection, it is usually sufficient to connect the nuControl X-2 to your router using a network cable. Make sure you use the **'In'** socket on the back of the nuControl.

To set up a wireless connection, go to

> **General Settings > Network & Internet**. Select and then tap **'EDIT'**.

You can now enable **Wi-Fi**, select the correct network and then enter the password.

Note: The nuControl X-2 contains a 3-port switch controller, SSRAM and three 10-/100 Ethernet transceivers. Supported specifications: IEEE802.3, IEEE802.3u, IEEE802.3x, WiFi

Automatic switch-off

The nuControl X-2 features an automatic switch-off function. If one of the inputs – Bluetooth, AUX or Phono – is selected, the speaker will switch to standby mode after a maximum of 20 minutes without a signal. For digital inputs, it also reacts immediately to the absence of a digital data stream, thereby enabling the speaker to switch off more quickly. The source device must deactivate the data stream accordingly.

The automatic switch-off function can be enabled or disabled in the submenu > **Auto Power**.

Automatic switch-on

The nuControl X-2 features an automatic switch-on function that automatically wakes it from standby mode as soon as an audio signal or a digital data stream is detected. The signal must be present at the input that was selected during the automatic switch-off process.

- This feature is not available for Bluetooth devices
- On the other inputs, the automatic switch-on function is only active if the nuControl X-2 has been put into standby mode by the automatic switch-off function. If standby mode has been activated manually by pressing the **On / Off** button on the remote control, the front panel of the device or in the app, the automatic switch-on function is deactivated.
- To enable the app to switch on automatically via network devices or, Auto Network Standby must be enabled.
See the **'Standby Mode'** section on the following page.

Standby mode

You can select standby mode in the > **Auto Power** submenu.

> **Auto Standby**

The nuControl switches to standby mode after 20 minutes at the latest if no audio signal is being fed in. On the digital inputs, it also responds to the absence of a digital data stream. Network operation, X-connect and Bluetooth are deactivated, and the operating system is shut down. Power consumption in standby mode is less than 0.5 watts, and the operating LED lights up red.

> **Auto Network Standby**

As in Auto Standby mode, the device switches to standby mode after 20 minutes at the latest without an audible signal. Wi-Fi, X-connect and Bluetooth remain active; the operating system stays in power-saving mode and can be restarted very quickly. Standby power consumption is less than 7 watts, and the power LED glows a faint blue.

Care and cleaning tips

Attention!

Improper use of the device may result in damage.

- Always unplug the appliance before cleaning it!
- Clean the appliance regularly with a soft cloth that is only slightly damp! Mild soapy water can also be used to remove stubborn stains.
- Under no circumstances should you use harsh cleaning agents or solvents such as petrol, methylated spirits or similar substances!
- Before putting the appliance back into operation, ensure that all connections are correct, that there are no short circuits and that the appliance is completely dry.

Troubleshooting

Symptom	Cause	Solution	see page
The unit does not switch on	The mains lead is not connected correctly	Connect the mains lead securely the unit's mains input socket and plug it into a wall socket.	4
	The power switch is set to '0'.	Set the power switch to '1'.	4
	The device has been subjected to a strong external electric shock (such as a lightning strike or strong static electricity).	Check the fuse and replace it if necessary with a working model.	4
The remote control is not working properly.	Battery low.	Replace the battery in the Remote control off.	10
	Incorrect distance or angle.	The remote control must be pointed directly at the front of the device. It only works within a range of up to 6 m and at an angle of no more than 30 degrees from the front of the device.	–
	Direct sunlight or other location where no distracting light falls on the sensor.	Place the device in a other part of the	–
	The infrared receiver on the device is obscured.	Position the device so that the receiver is clearly visible.	–

Symptom	Cause	Solution	see page
No sound output	Source devices are connected incorrectly.	Check the connection cables for the source devices.	4, 5
	Incorrect input selected.	Switch to the correct input.	16
	The volume is set too low.	Increase the volume (Volume), if necessary, on the source device as well.	6, 11 Instructions for the source device
	The source device (e.g. TV, Blu-ray player, games console) is transmitting in the wrong audio format.	Check whether your source is outputting PCM.	Instructions at source device
	Mute is activated.	To deactivate mute, press the 'Mute' button or adjust the volume.	11
Sound is only coming from one channel	There is a faulty connection between your devices or the amplifier and the speakers.	Check the connection cables. Read the instructions for the additional devices. Refer to the usage examples.	4
	Different volume levels on both speakers.	Adjust the balance setting.	12
Missing room data	Speaker distance set incorrectly.	Correct the values.	12
	Different volume levels on both speakers.	Adjust the volume on both speakers.	12
Not enough brilliance	Mid-Hi set too low.	Check the settings in the Sound menu.	12
	Incorrect equaliser settings.	Check the equaliser settings at	12

Symptom	Cause	Solution	see page
A shrill sound	Mid-Hi set too high.	Check the settings in the Sound menu.	12
	Inappropriate equaliser settings.	Check the EQs at for excessive boosts.	12
Bass reproduction Overemphasised	Bass set too loud.	Check the settings in the Sound menu.	12
	Loudness is enabled or set too high.	Check the loudness function.	12
	Equaliser set incorrectly.	Check the settings for the bass EQ and the other EQs.	12
	The speakers are positioned very close to a wall or if the room is very small.	Use the high-pass filter with the setting 6 dB to compensate for the rising sound pressure in the lower frequencies, which would otherwise be too low.	12
		If you are able to identify individual drone frequencies (for example, using sine waves), the equaliser allows you to attenuate these specifically.	12

Symptom	Cause	Solution	see page
Bass reproduction too low	Speakers connected with the polarity reversed.	Check the speaker wiring.	–
	High-pass filter enabled or set too high.	Disable the high-pass filter or Set a lower value.	12
	Speaker distance set incorrectly.	Adjust the delay settings in the Sound menu.	12
	Equaliser set incorrectly.	Check the settings for the bass EQ and the other EQs.	12
The nuControl X-2 does not connect to the internet.	The device is not connected to the internet.	Enable the Wi-Fi connection on the nuControl X-2 or connect the device to the router via a LAN cable.	4, 5, 14
	Unable to establish a Wi-Fi connection.	Check that you have entered the network key for your Wi-Fi correctly.	14
	There is no internet connection available.	Check your router, if it is connected to the internet. If necessary, contact your internet service provider.	–
Connection to the Streaming service is working not.	No connection to the internet.	Check whether the nuControl X-2 has an active connection to the internet.	4, 14, 22
	The login details are incorrect.	Please check the login details for the streaming service.	–
	The streaming service is temporarily unavailable.	Please check using another device to see if the service provider is accessible online. If necessary, please contact the streaming service's support team at.	–

Symptom	Cause	Solution	see page
No sound is coming through via Bluetooth.	The source volume is set too low.	Turn the volume on the source device (for example on your smartphone) up to the maximum level.	–
	The sound may be set to 'Mute' at the source.	Check whether the sound is enabled at the source (for example, the volume control in the browser).	–
	Mute may be enabled on the nuControl X-2.	Disable this function.	11
	Bluetooth devices are not working properly.	Check whether the devices are connected via Bluetooth. Are they paired correctly?	13

If you have any further questions about your device, please contact our team of advisers at info@nubert.de, or by telephone on +49 (0) 7171 8712-0.

Technical specifications for the nuControl X-2**High-end preamplifier, network player / streamer**

Services: Deezer, Qobuz, Airable, AirPlay 2, Spotify, Tidal, Roon-ready

Analogue inputs: 2 × balanced (XLR)
3 × unbalanced (RCA)
1 × Phono MM/MC, (RCA)

Digital inputs: 2 × S/PDIF optical, max. 192 kHz, 24-bit (TOSLINK)
2 × S/PDIF electrical, max. 192 kHz, 24-bit (RCA)
1 × S/PDIF electrical, max. 192 kHz, 24-bit (USB-A port)
1 × AES/EBU electrical, max. 192 kHz, 24-bit (XLR)
1 × USB Client, max. 768 kHz, 32-bit, DSD 512 (USB-B)
2 × USB Host, max. 768 kHz, 32-bit, DSD 512 (USB-A / USB-C)
1 × Bluetooth (SBC, AAC, aptX™HD, aptX™Low Latency)
1 × Nubert X-connect – Hi-Res wireless standard
1 × Ethernet (RJ45 / Wi-Fi)

Analogue outputs: 1 × balanced, regulated (XLR)
1 × unbalanced, regulated (RCA)
2 × mono subwoofer, regulated (RCA)
1 × unbalanced, unregulated (RCA)

Digital outputs: 1 × S/PDIF optical, unregulated, 192kHz, 24-bit (TOSLINK)
1 × S/PDIF electrical, unregulated, 192kHz, 24-bit (RCA)

Tone controls:	Bass control / Mid-treble control, designed as a balance control
Loudness control:	Integrated
Equaliser:	XRC Advanced automatic room calibration 7-band, fully parametric
Crossovers:	1 × High-pass filter for main speakers, fully parametric 1 × low-pass filter per subwoofer, fully parametric
Delays:	2 × for main speakers, max. 10 metres 2 × for subwoofers, max. 10 metres
Signal-to-noise ratio:	122 dBA (SPDIF input) 117 dB (AUX input) 80 / 76 dBA (Phono MM input / MC)
Residual noise:	3.6 µVrms (A-weighted)
THD+N:	0.0006% (A-weighted)
Frequency response:	10 – 80.000 Hz (+0 / –0.5 dB)
Power consumption:	Operation 42 watts / Standby mode < 0.5 watts / Network standby mode < 7 watts

Bluetooth module: Radio frequency bands and transmission power		2402–2480 MHz: 9.5 dBm / 8.9 mW
Wireless network module (X-connect Surround): Radio frequency bands and transmission power		5180 – 5240 MHz; 5736 – 5818 MHz 10.4 dBm / 11 mW; 10.4 dBm / 11 mW
Wi-Fi module: Radio frequency bands and transmission power		2380 – 2584 MHz; 5150 – 5350 MHz; 5470 – 5725 MHz; 5725 – 5875 MHz 17.8 dBm / 60.3 mW; 16.8 dBm / 47.9 mW; 16.9 dBm / 49.0 mW; 13.9 dBm / 24.5 mW
Dimensions:	Width	43 cm
	Height (without / with feet)	11.5 / 12.5 cm
	Depth (without / with aerial)	36.5 / 39.5 cm
Weight:		8.8 kg
Colour:		Black
Permissible operating temperature:		0 °C – 40 °C

◀ **User Manual**

Subject to technical changes and printing errors.
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/agb.htm



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