

Nubert

nuControl X

User manual

Connection instructions



Quickstart
Menu functions
See page 10

If you have any questions or problems with the setup of your Nubert system, please contact our service team. Have your customer number ready.
Phone: +49 (0)7171 87120 · Email: info@nubert.de



nubert®

Thank you for choosing a device from Nubert!

To set up your system, we recommend first reading this startup guide. Here we explain the full range of functions, operations, and connections in detail, so you can achieve the best sound quality and functionality and fully enjoy your device.

Be sure to also read the included safety instructions!

Best regards from the Nubert Team!

For information on practical application examples, please turn the booklet over.

Cold, sound, and operational safety

When electronic devices are brought from a cold environment into a warm room, condensation can form inside the device, posing the risk of damage or electric shock! Wait at least 6 hours before turning on the device, until it has reached room temperature and is dry.

Setup

Place the nuControl X on a flat, stable surface. Ensure there is sufficient space and air circulation around it. Attach the antennas (included) to the threaded sockets on the back of the device and point them upwards.

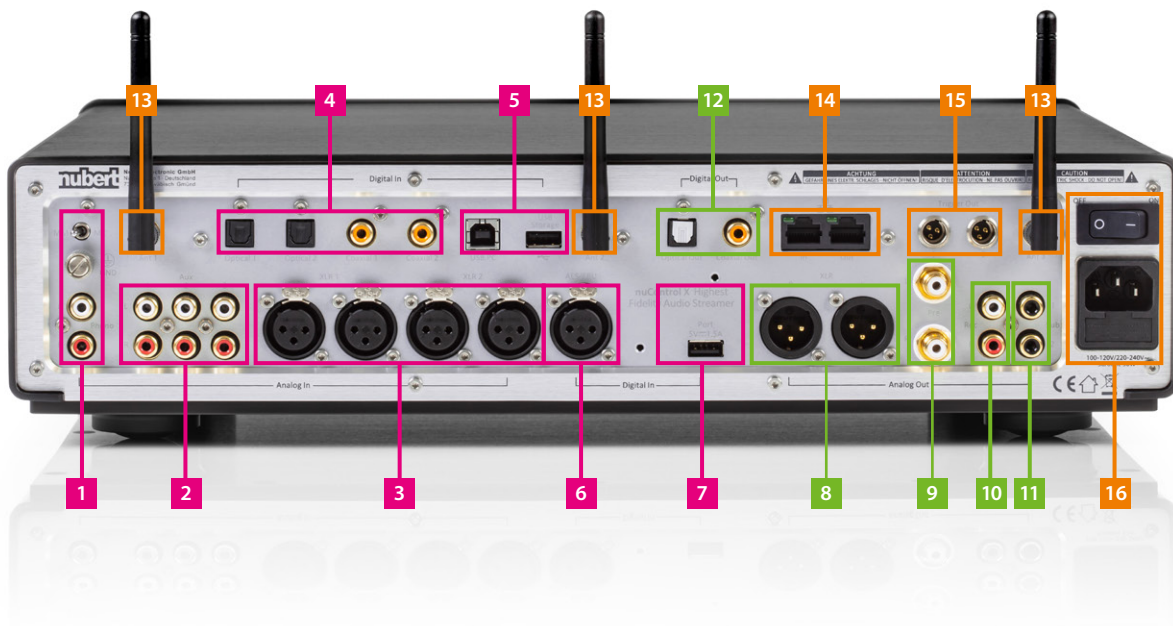


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Back of the Device, connections

The nuControl X should be fully wired before switching it on.
Follow the steps outlined in this manual.



Input

1. **Phono input** including grounding screw connection and selection of the cartridge system (MM/MC) via a toggle switch.
 **Note!** Do not connect devices with line level here! This can damage the device!
2. **AUX inputs**
3. **XLR inputs**
4. **SPDIF inputs** 2 × Optical, 2 × Coaxial (max. 192 kHz, 24 bit)
5. **USB connections** USB-A for storage media, USB-B for PC or MAC
6. **AES / EBU** (max. 192 kHz, 24 bit)
7. **USB port** for Nubert accessories

Output

8. **Analog Out XLR** Analog XLR outputs, including sound and volume control
9. **Analog Out Pre** Analog line outputs, including sound and volume control
10. **Recording outputs analog** RCA
11. **Subwoofer outputs**
12. **Recording outputs digital** Optical / Coaxial


Other

13. **Screw terminal for antenna** 3-fold
14. **Network connections In / Out**
15. **Trigger connections** Mini-XLR
16. **Power socket and switch**

 **Note!** Always make all device connections before switching on the power!

Front of the device, controls





1. **On/Off** with operating LED

Note: The device takes about 45 seconds to boot up.
To turn off, press the button for 4 seconds.

2. **USB-C** for storage media up to 2 TB

3. **Touchscreen display**

4. **Headphone jack**

5. **Rotary knob for volume control**

6. **Return/Enter button** – go back to the previous menu or confirm entries

7. **Infrared receiver for the remote control**

This area must not be covered to ensure reception of control commands from the remote control.

Display

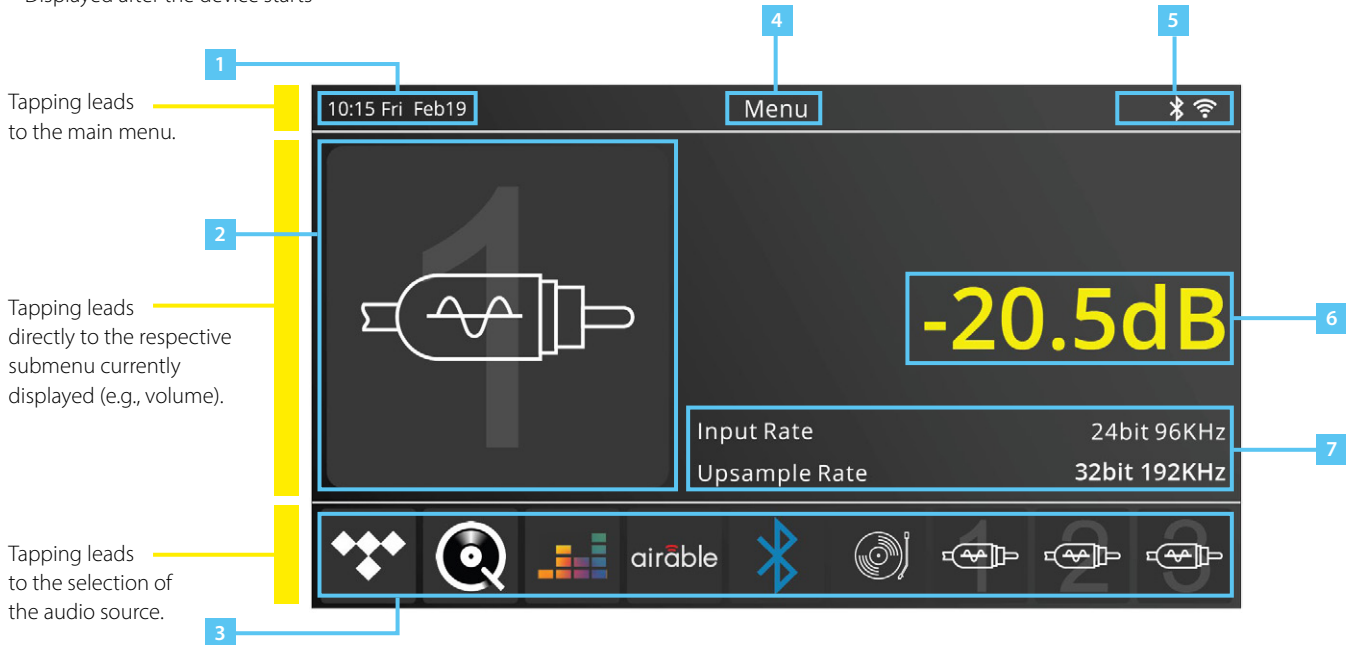
The display provides information about the current operating status and allows easy, direct, and intuitive operation as a touchscreen.


The display is divided into two areas:

- Display areas (blue)
- Control areas (yellow)

Standard view / Main screen

– Displayed after the device starts



- 
1. **Date and time** (automatically synchronized via the internet)
 2. **Currently playing source**
 3. **Inputs**
 4. **Current menu:** Menu
 5. **Connectivity**
 6. **Volume** tapping this area switches directly to the respective submenu
 7. **Sampling rate**

Notes:

The **return** button next to the display switches back one menu level. Repeated pressing returns to the start screen. All controls are also accessible via the supplied remote control and the Nubert app (see the respective chapters in this manual).

Menu

After turning on the device, the system boots up in about 45 seconds, and the display shows the previously shown start screen.

The menu can be controlled via the touchscreen display on the front of the device or via the equivalent buttons on the remote control (see page 19). Pressing the **Menu** button on the remote control enters or exits the menu.

The **navigation cross** on the remote control is used for menu navigation. Use the up and down buttons to select the desired menu item and the left and right buttons to make adjustments to that entry.

Pressing the **Play/Pause** button in the center of the navigation cross confirms an entry.

Return to the previous menu level with the **Back** button.

Setting Date and Time

The top left shows the time and date (1), which is automatically synchronized via the internet. Alternatively, the time can be manually set in the menu **Settings > Set time**.

Menu

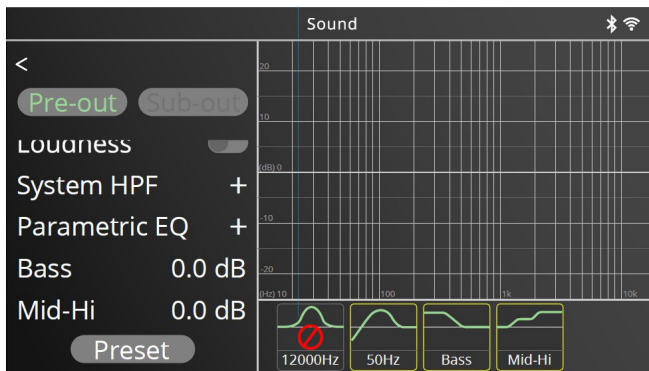
After tapping the top status bar on the display, select **Menu** (remote control: **Menu** button) to set the audio signal source. This menu also contains other adjustment options for sound (**Sound**), individual outputs (**Zone**), and device settings (**Settings**).

Sound

Allows adjustment options for sound and various equalizers.

Pre-out / Sub HP / Sub LP / Bass EQ

Select between the rear outputs and the subwoofer. Options include equalizer, high/low pass, delay, balance left/right, parametric equalizer, as well as bass and treble.



Settings in the **Sound** menu

Zone

Opens the Zone setup for adjusting Wireless X-Connect and headphone connection options.

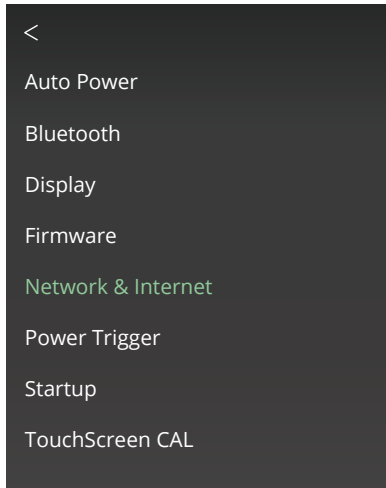
X-Connect

To wirelessly connect a speaker via X-Connect to the nuControl X, first set the speaker to 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. Upon successful connection, the paired speaker will appear on the display.

Setting

Opens configuration options for the device such as display brightness, auto shut-off in standby mode, Bluetooth and network settings, touch-screen calibration, and firmware information.



Settings in the
Setting menu

Auto Power

Allows three possible standby modes:

- **Auto Power Off** Automatic switch to power-saving mode after 20 minutes, all functions are turned off.
- **Deep Standby** Network operation, X-Connect, and Bluetooth are deactivated in standby mode. Standby consumption is less than 0.5 watts.
- **Network Standby** WLAN, X-Connect, and Bluetooth remain active in standby mode. Standby consumption is less than 8 watts.

Note: If no audio signal is played for at least 5 minutes, the nuControl X automatically switches to the set Auto Power mode to save energy. The operating LED lights up red. The device can be restarted using the "On/Off" button if necessary.

Bluetooth

Starts pairing mode with a Bluetooth device. Bluetooth must be enabled in the Zone menu (see previous section).

Display

Allows adjustment of brightness and contrast of the display.

Firmware

Displays information about the installed firmware.

If the "Automatic Updates" option is enabled, the nuControl X will automatically check for updates and install them when an internet connection is available.

Without an internet connection, the firmware can be updated via a USB stick. To do this, download the ZIP file for the update from www.nubert.de onto a USB stick and connect the stick to the USB storage port (7 – see page 4). The nuControl X will automatically unpack and install the file from this stick after a restart. A security prompt may need to be confirmed before the update is carried out.

Setting up an internet connection

In the "Setting" menu, navigate to "Network & Internet," and select "Edit" at the bottom. In the following menu, you can turn on WLAN; a selection of possible connections will then be displayed. Select the desired connection and activate it by entering your network key. The WLAN network key can be found on the back of the router; contact your provider if necessary.

The nuControl X is fully DLNA and UPnP compatible and will be automatically found on the network.

Note: The nuControl X can also be connected to an internet router via a LAN cable.

Power Trigger

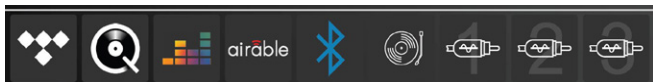
Activates or deactivates triggers 1 and 2.

Startup

Here you can set which audio source the nuControl X should access first after a restart.

Setting up streaming services, selecting the audio source

By tapping the lower area of the display with the representation of the individual streaming service providers or by pressing the **Internet** button on the remote control, the corresponding menu is opened.



Swiping left and right on the display or using the arrow keys on the remote control allows you to select and configure the respective audio sources.

The nuControl X preamplifier supports the following streaming service providers:



Apple AirPlay



Airable (Digital radio)



Deezer



Qobuz



Spotify Connect



Tidal



Roon Ready

If a Smart TV or computer is connected, additional sources such as YouTube Music or Amazon Music are also available via these devices.

Airable (Digital radio)

With the **Airable** function, you can switch to radio operation. A station search is carried out automatically.

To select a radio station, tap **> airable > Radio > Local stations**. A list of all receivable stations will appear on the right side of the display; select the desired station.

Further options in the Airable menu:

Favorites	Lists saved favorites.
History	Shows the last played stations.
Popular Stations	Lists the most common stations.
Recommendations	Lists recommendations.
Trending	Shows the most listened-to stations in the reception area.
High Quality	Lists stations with particularly high transmission quality.
Filter	Allows filtering the station list by certain options.
Search	Starts a manual station search, which may be helpful if the device's location has changed.

Renaming inputs

Signal inputs can be renamed individually. To do this, first tap the desired source area (e.g., Phono or XLR-1) on the start screen of the display. Then tap the name of the input in the same area. An input field will open. Enter the desired name and confirm it with the Enter button (green checkmark) in the input field. The renaming is done. This makes it easier to directly select CD players or other devices.

Operation via Nubert nuControl X App

The nuControl X can also be operated with the Nubert nuControl X app. It is available for free in the Apple App Store or Google Play Store. The app offers more detailed settings and a graphical display, making it recommended for anyone who wants to make more detailed adjustments than is possible on the device itself.

Connecting the nuControl X App to the Preamp

First, download and install the app from the Google Play Store or the Apple App Store. Allow access to the location during installation.

Note: For the app to function properly, the smartphone and nuControl X must be on the same network. The nuControl X app also communicates with the nuControl X via Bluetooth LE. Therefore, Bluetooth must be enabled on both devices.

Then connect the smartphone/tablet to the preamp **within the app**.

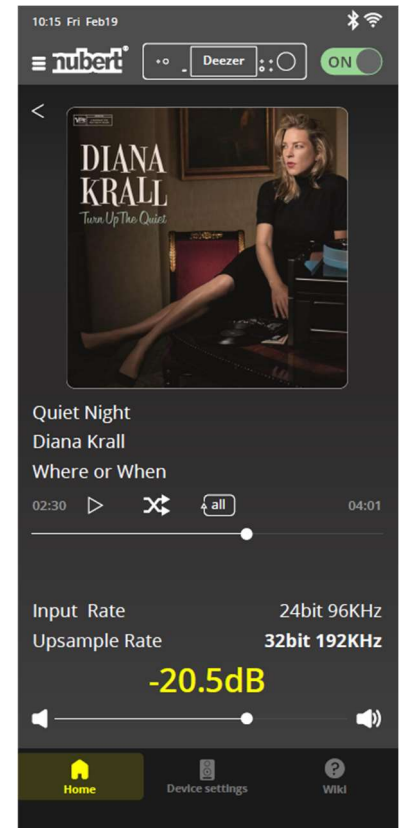
 **Note:** Do not use the settings menu of the smartphone!



If no device has been connected with the nuControl X app so far, the available devices will be displayed directly after starting X-Remote. Alternatively, the device selection can also be done by tapping the Devices icon (bottom center of the home screen). Tap the nuControl X to be connected. The connection is confirmed in the app by displaying the device background in yellow. If necessary, a prompt for entering a password appears. The factory password is 0000.

By tapping the Home icon at the bottom left, you can reach the start screen. Here you have direct access to basic functions such as input selection. By tapping the Menu icon at the top left next to the Nubert logo, you can access the menu for more advanced settings of the nuControl X.

The further operation via the app corresponds to that via the touch-screen display on the device. The individual control areas and menus are built identically.



Remote control

The remote control allows access to all functions of the nuControl X. Just like on the front of the device via the touchscreen display, you can navigate through the menu and make settings using the remote control. Additionally, there are some practical quick access buttons (p1 to p3) that can be individually assigned a function. For example, you can directly select different inputs or turn the loudness function on or off. The remote control requires a CR-2032 battery (included).

Inserting the battery

Open the compartment on the back with a Phillips screwdriver. Insert the battery slightly tilted from bottom to top into the insertion slot and carefully insert it. Pay attention to the correct polarity! Then close the battery compartment and tighten the screws.

Note: Used batteries should be recycled at a collection point and not disposed of with household waste.

Programming the quick access buttons (15)


The p1 to p3 buttons can be individually programmed for quick access to any sound control function, such as bass adjustment.

To program these buttons, proceed as follows:

- Use the remote control or the display to call up the desired function.
- Press and hold the desired quick access button for at least 3 seconds.
- The function is saved; the message "Saved to preset (number)" appears on the display.

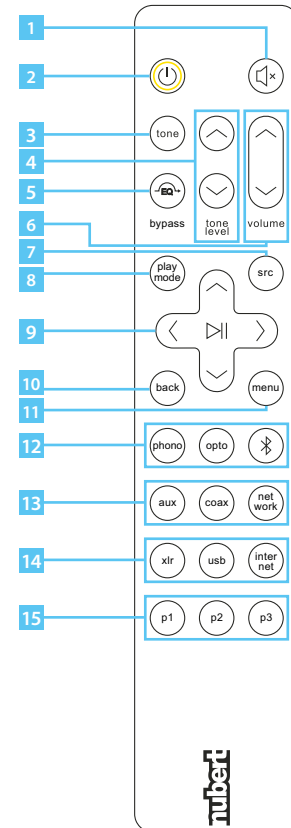
Further notes:

- The On/Off button (2) turns the nuControl X on or puts it into standby mode. If the device is put into standby mode using the remote control or app, automatic activation is disabled.
- With the function buttons (group 12 to 14), you can directly call up the respective submenu or activate the respective input.

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

Button explanation

No.	Button	Function
1	mute	Mute the sound
2	standby	Turn on/off, standby mode
3	tone	Allows further sound settings
4	tone level	Starts menu for setting treble and bass
5	EQ bypass	Enables/disables the equalizer
6	volume	Adjusts the volume
7	src	Sets the sampling rate
8	play mode	Starts sound settings menu
9	navigation	Used for menu navigation
10	back	Back – corresponds to the return button on the device
11	menu	Calls up the main menu
12	phono, opto, bluetooth	(De)activates phono, optical input, and Bluetooth
13	aux, coax, network	(De)activates AUX, COAX outputs, starts X-Connect menu
14	xlr, usb, internet	(De)activates XLR, USB ports, calls up network settings
15	p1, p2, p3	Quick access buttons – can be individually assigned



Troubleshooting

Symptom	Cause	Remedy	See page
The device does not turn on.	The power cable is not properly connected.	Connect the power cable securely to the device's power input socket and the wall outlet.	4
	Power switch set to "0".	Set the power switch to "1".	4
	The device was exposed to a strong external power surge (such as a lightning strike or strong static electricity).	Check the fuse and replace it with an intact model if necessary.	4
The remote control is not working properly.	Batteries are weak.	Replace the batteries in the remote control.	18
	Incorrect distance or angle.	The remote control must be directed at the front of the device. It works only within a range of upto 6 meters and with no more than a 30-degree angle deviation from the front.	–
	Direct sunlight or other interfering light falls on the device's sensor.	Place the device in a different location.	6
	The infrared receiver on the device is covered.	Position the device so that the receiver is freely accessible.	6

Symptom	Cause	Remedy	See page
No sound output.	Source devices incorrectly connected.	Check the connection cables of the source devices.	4, 5
	Incorrect input selected.	Switch to the correct input.	18, 19
	The volume is set too low.	Increase the volume, if necessary, also on the source device.	6, 19 Source device manual
	The source device (e.g., TV, Blu-ray player, game console) is sending in the wrong audio format.	Set the digital outputs of the source devices to the PCM output format.	Source device manual
	Mute is activated.	Deactivate mute by pressing the "Mute" button or change the volume.	19
Sound is only audible on one channel.	There is a faulty connection between your devices or between the amplifier and the speakers.	Check the connection cables. Read the manual of the additional devices. Refer to the application examples.	16, 17 45
	Different volume levels of both speakers.	Adjust the basic volume of both speakers.	11
Missing spatiality.	Speaker distance incorrectly set.	Correct the values.	11
	Different volume levels of both speakers.	Adjust the level of both speakers.	11
Too little brilliance.	Treble set too low.	Check the settings in the sound menu.	11
	Inappropriate equalizer settings.	Check the equalizer for strong reductions.	11

Symptom	Cause	Remedy	See page
Shrill sound	Treble set too high.	Check the settings in the sound menu.	11
	Inappropriate equalizer settings.	Check the equalizer for strong increases.	11
Bass playback overemphasized	Bass set too high.	Check the settings in the sound menu.	11
	Loudness activated or set too high.	Check the loudness function.	11
	Equalizer incorrectly set.	Check the settings of the bass EQs and the EQs.	11
	The speakers are very close to the wall or the room is very small.	Use the high-pass filter with the 6 dB setting to compensate for the otherwise increasing sound pressure of too low tones.	11
		If you can identify individual resonant frequencies (e.g., with sine tones), the equalizer allows you to specifically reduce these with high quality.	11

Symptom	Cause	Remedy	See page
Bass playback too weak	Speakers are out of phase.	Check the speaker wiring.	–
	High-pass filter activated or set too high.	Deactivate the high-pass filter or set a lower value.	11
	Speaker distance incorrectly set.	Correct the delay values in the sound menu.	11
	Equalizer incorrectly set	Check the settings of the bass EQs and the EQs.	11
The nuControl X does not establish an internet connection	The device is not connected to the internet.	Activate the WLAN connection on the nuControl X or connect the device to the router via a LAN cable.	4, 5, 13
	WLAN connection cannot be established.	Check the correct entry of the network key for your WLAN.	13
	No internet connection available.	Check the router to see if there is a connection to the internet. Contact your provider if necessary.	–
The connection to the streaming service does not work	No connection to the internet.	Check if the nuControl X has an active connection to the internet.	4, 5, 13
	Access data is incorrect.	Check the access data for the streaming service.	–
	Streaming service may be temporarily unavailable.	Check using another device (e.g., smartphone or smart TV) if the service provider is online. If necessary, contact the streaming service's support.	–

Symptom	Cause	Remedy	See page
No sound is played via Bluetooth.	Source volume is set too low.	Turn up the volume on the source device (e.g., smartphone) to the highest level.	–
	Sound on the source device may be muted.	Check if the sound on the source device is activated (e.g., volume control in the browser).	–
	Mute function (Mute) activated on the nuControl X.	Deactivate this function.	19
	Bluetooth devices are not properly connected.	Check if the devices are properly paired via Bluetooth.	12
The nuControl X gets very warm.	Cooling at the installation site is not sufficient.	Warming up to around 45°C during operation is normal. Change the installation site if necessary to allow better heat dissipation. If you feel the device is significantly overheating, disconnect it from the power supply and contact our support.	–

If you have further questions about your device, please contact our consulting team at info@nubert.de or call +49 (0) 7171 8712-0.

Technical data nuControl X**High-End preamp, network player / streamer**

Analog inputs:

2 × symmetrical (XLR)
 3 × unsymmetrical (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 (Cinch)
 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)

Analog outputs:

1 × symmetrical, balanced (XLR)
 1 × unsymmetrical, balanced (RCA)
 2 × Subwoofer mono, balanced (RCA)
 1 × unsymmetrical, unbalanced (RCA)

Digital outputs:

1 × S/PDIF optical, unbalanced, 192 kHz,
 24 bit (TOSLINK)
 1 × S/PDIF electrical, unbalanced, 192 kHz, 24 bit (RCA)
 1 × Nubert X-Connect – Hi-Res wireless standard
 1 × USB, power supply (USB-A, 5V, 1,8A)

Headphone outputs:	1 × unsymmetrical (6.3 mm jack) 1 × symmetrical (4.4 mm jack)
Trigger:	2 × 12 Volt, 100 mA (Mini-XLR)
Tone controls:	Bass control / mid-high control, implemented as a tone balance
Loudness control:	Integrated
Equalizer:	Automatic room calibration XRC Advanced 7 bands, fully parametric
Crossovers:	1 × high-pass for main speakers, fully parametric 1 × low-pass per subwoofer, fully parametric
Delays:	2 × for main speakers, max. 15 meters 2 × for subwoofers, max. 15 meters
Signal-to-noise ratio:	126 dBA (SPDIF input) 124 / 121 dB (symmetrical / unsymmetrical input) 100 / 86 dBA (Phono MM / MC input)
Residual noise:	2.5 µVrms (A-weighted)
THD+N:	0.0005 % (A-weighted)

Frequency response:	10 – 80 000 Hz (+0 / –0,5 dB)
Power consumption:	Operation 42 watts / standby mode < 0.5 watts/ Network standby modus < 8 watts
Dimensions:	43 × 11 × 39 cm (W×H×D)
Weight:	11.2 kg
Color:	Black

◀ **User manual**

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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