

nuPro

X-6000 RC

**Wireless
Active Speakers**

**Safety instructions
Operating manual
Technical data
Warranty terms**



nubert®

Device approval and conformity with EC directives

Nubert electronic GmbH hereby declares that this product complies with the 2014/53/EU directives, provided that it is installed and used in accordance with the manufacturer's instructions. The full text of the EU Declaration of Conformity is available at the following Internet address:

<https://www.nubert.de/konformitaetserklaerungen/716/>

- Do not change the serial number on the speaker. It is part of the operating approval.
- If the loudspeaker is repaired or modified by workshops or other third parties not authorized by Nubert, it loses its operating license.
- Only accessories and devices may be connected which in turn comply with all legal requirements and are approved.
- The loudspeaker may only be used for the applications specified in the „Intended Use“ section

Intended use

This speaker is designed exclusively for sound reproduction in dry rooms. Use the speaker only as described in this manual. Any other use (particularly safety-relevant or medical use, installation in open environment like IP-certified products) is considered improper and may result in property damage or even personal injury. Nubert electronic GmbH does not assume any liability for damages caused by improper use.

Safety instructions

The entire operating manual, in particular the safety instructions, must be read in full before connecting and commissioning the device. For your own safety, be sure to follow all warnings and safety instructions in this manual and on the speaker. The user is not permitted to carry out any work on the loudspeaker other than the described work. Keep this document so that you have access to it at all times. Furthermore, it must also be handed over to possible re-owners.

Key to the symbols



The triangle symbol with exclamation mark (without additional comment) indicates important instructions for commissioning, operation and maintenance of the device.

The term **Caution!** next to the triangle symbol indicates a medium risk. Failure to observe this warning may result in property damage.

The term **Danger!** next to the triangle symbol indicates a high risk. Failure to observe this warning may result in death or personal injury



This symbol indicates that you must read and observe the operating instructions and the safety and warning notices in order to operate the device.



This symbol (triangle with lightning) warns of dangerous voltages inside the enclosure and of hazards due to electric shock.



This symbol indicates that the device complies with electrical protection class 2 and therefore does not require earthing.



Devices with this symbol may only be used in a dry indoor environment.



Equipment marked with this symbol must not be disposed of with household waste. Refer to the Disposal and Battery Return section at the end of this manual.

General information



Never operate the loudspeaker unattended!



Danger of electric shock!

To avoid the risk of electric shock, the speaker may not be opened by the user. There are no user-serviceable parts inside the speaker.

Service work and repairs are reserved for qualified specialists authorized by Nubert. If you need service, please contact Nubert electronic GmbH directly (info@nubert.de)!



Danger of suffocation!

Never let children use or play with neither speaker, remote control or packaging unattended. There is a risk that children will get caught in the packaging film and suffocate. Make sure that children cannot remove any small parts from the devices! These parts, like the remote control battery, could be swallowed and cause suffocation. In case of swallowing any parts, contact a doctor immediately!



Danger of injury or damage!

When moving the speaker, take care to avoid injury and damage!



Caution!

Since the speaker can only be completely disconnected from the mains at the mains input on the rear of the unit or by pulling the mains plug from the socket, it must be positioned so that you have free access to the mains input or mains plug. If any of the following situations occurs, the loudspeaker must be switched off immediately and disconnected from the mains. Contact Nubert electronic GmbH (info@nubert.de) immediately!

- The speaker has been damaged or has fallen down.
- Power cord or plug is damaged
- Objects or liquid have got into the loudspeaker
- The speaker has been exposed to excessive moisture or rain.
- The speaker does not work properly or exhibits a significant reduction in performance.
- The loudspeaker smells burnt, develops smoke or makes unusual noises.



Only use accessories recommended by Nubert!

Installation instructions



Caution!

An unstable location can damage the speaker.

- Only place the loudspeaker on a flat, stable surface and make sure that it cannot be knocked over!
- Also make sure that no unintentional pulling can occur on the cables to avoid knocking over the speaker or damaging the connection sockets!
- Keep strong mechanical shocks away from the loudspeaker!



Caution!

Excessive heat build-up inside the unit can shorten its service life or lead to fire.

- Never cover the back of the speaker! Make sure that there is a clearance of at least 10 cm and sufficient air circulation in the back area!
- Do not operate the speaker and remote control near heat sources such as radiators or stoves!
- Do not set the speaker and remote control to direct sunlight.
- Do not expose to direct sunlight!
- Never place burning candles or similar open fire sources on the loudspeaker!



Danger of explosion!

Installation in unsuitable locations can cause explosions. Do not use the speaker or remote control

- in environments where there is a risk of fire or explosion!
- at extremely low or extremely high temperatures!
- near flammable gases or vapours!
- near strong dust!
- near flammable materials!

Danger of electric shock!

The loudspeaker carries mains voltage and voltages higher than 35 V AC or DC inside. It has no special protection against the intrusion of liquids or objects into the system. There is therefore a risk of lethal electric shock.

- Never touch the speaker with wet hands!
- Only use the speaker in a dry place!
- Do not operate it outdoors or in damp rooms!
- The loudspeaker must be protected from liquids of all kinds, including dripping and splashing water.
- Do not place any containers containing liquids (e.g. flower vases) on the speaker or in the immediate vicinity!
- If the loudspeaker is moved from a cold environment to a warm room, condensation may form inside the unit. Wait at least six hours until the loudspeaker has reached room temperature and is dry before switching it on!
- No objects or foreign bodies may get into the device.
- Should the loudspeaker come into contact with liquids or should objects have got inside, please unplug the mains plug immediately and contact Nubert electronic GmbH (info@nubert.de)!

Danger of injury or damage!

For speakers with threaded bushings on the underside:

The threaded bushings may be used for upright mounting of the loudspeaker on suitable base plates only. The threaded bushings on the underside of the loudspeaker enclosures are not designed for tensile loads and must therefore not be used as holders for hooks or similar devices in order to suspend the loudspeaker cabinet. A falling speaker may cause serious injury and damage.

Connection instructions

General connection instructions

- Disconnect the mains plug before changing any wiring on the system!
- Make sure that all connections have been made correctly and that all plugs are firmly seated in the sockets before connecting the speaker to the mains.
- Use only the intended cables or plug connections for the connections! Failure to do so may result in damage or malfunction.
- If you want to disconnect connections on the loudspeaker, always pull the plug, never the cable!
- Ensure that all plugs are firmly seated in the sockets!
- Only use cables and accessories recommended by Nubert!

Danger of electric shock!

Faulty mains supply systems or excessive mains voltage can lead to electric shocks.

- All power supply or antenna systems connected to the loudspeaker must comply with all applicable laws and regulations and be professionally installed by an approved installation company.
- Use only the appropriate power cord to connect the speaker. Do not modify the power cord or its plug.
- Make sure that the mains voltage at your location matches the requirements of the loudspeaker! The correct power supply can be found on the label on the back of the speaker. It must not be connected to other power supplies.
- Devices of Class 1 construction must be connected to the mains power socket outlet with a protective earth connection. Make sure that the installation of the protective earth is carried out correctly!
- When laying the power cables, make sure that they cannot be damaged (e.g. by heating or mechanical stress)! Pay particular attention to the areas of the connectors and distributors!

Caution!

Overvoltage in the power supply system (e.g. due to lightning) can damage or destroy the device and power supply unit.

- An overvoltage protection element can provide a certain degree of protection against excessively high voltages in the power grid.
- However, the greatest possible protection against damage can only be achieved with the complete separation from the mains supply. In case of thunderstorms or danger of lightning strikes, disconnect the mains cable from the socket and any antenna plugs from your hi-fi system!
- If the speaker is not used for a long period of time or is unattended, the power supply should be disconnected. Disconnect the mains plug from the socket!

Remote control and battery

This product comes with a remote control and a battery. The following must be observed when handling remote controls and batteries:



If the batteries are discharged, the range of the remote control will decrease significantly. If this happens, replace the batteries immediately. Always use high-quality CR2025 lithium button cells as replacement batteries. Make sure that the polarity is correct when inserting the battery into the battery compartment!



Caution!

Improper handling can lead to material damage.

- Do not drop the remote control!
- Do not expose the remote control and battery to water or other liquids!
- Do not operate or store the remote control and battery in locations with high humidity or high or low temperature!



Danger!

Leaking or exploding batteries can pose a health hazard and cause damage to goods.

- If you do not use the device for a long time or if the batteries are depleted, remove the batteries from the remote control to prevent discharge, leakage of acid or explosions.
- Leaking batteries must be replaced immediately.
- If you find a leaking battery, do not touch the leaking material and dispose of the batteries immediately!
- Do not touch leaking batteries!
- Should your skin, eyes or mouth come into contact with the leaking material, clean the affected area immediately with water and contact a doctor!



Danger! Do not ingest battery, chemical burn hazard!

Ingestion of batteries can cause severe internal burns and death within a short time span.

- Ensure that batteries do not get into your body by any means, in particular that they cannot be swallowed!
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think that batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention!



Equipment marked with this symbol must not be disposed of with household waste. Refer to the Disposal and Battery Return section at the end of this manual.

Unpacking and Scope of Delivery

Unpacking

Avoid using sharp or pointed objects when unpacking your speakers. Please keep the packaging in a safe place in case you need to transport the speaker at a later date.

Scope of delivery

If the delivery is complete, it contains the following parts:

- 1 nuPro active loudspeaker
- 1 Cloth grille
- 2 Out-rigger feet
- 1 Mounting kit (4 bolts, 1 hex key)
- 1 Remote control with battery
- 1 Mains cable, 5 m
- 1 HDMI ARC adapter
- 4 Signal cables:
 - SPDIF coaxial cable, 5 m
 - Stereo jack cinch cable (3.5 mm jack cinch), 1.5 m
 - Fibre optic cable with TOSLINK plugs, 1.5 m
 - USB cable (Type A/Type B), 1.5 m



Remote control



Mains cable 5 m



HDMI ARC adapter



SPDIF coaxial cable, 5 m



Stereo jack cinch cable
(3.5 mm jack cinch), 1.5 m



Fibre optic cable with TOSLINK plugs, 1.5 m



USB cable (Type A/Type B), 1.5 m



nuPro X-6000 RC loudspeaker with cloth grille and out-rigger feet with mounting kit

Low temperatures and Sound

When speakers are shipped and delivered during the cold months of the year, it is imperative that they adapt to the temperature of the living area. Low temperatures have a considerable influence on the moving parts of a loudspeaker such as diaphragm, voice coil, bead and spider. The ability of these components to follow rapid oscillations or to perform large excursions is thus significantly restricted. This is not dangerous, but "frozen" speakers are far from their acoustic peak.

Hence our tip: When your new speakers arrive on a cold winter's day, just give them a few hours to acclimatise. Your Nubert speakers will thank you with the superior sound quality you have come to expect from us.

Cloth grille

The cloth grille protects the loudspeaker drivers (for example from curious children who like to press in tweeter domes) and provides a visual contrast for those who do not like the technical appearance of loudspeaker drivers. It is carefully placed against the front of the speaker and held in place magnetically. Please make sure that the surface of the baffle is not damaged.

With the cloth grill removed, the loudspeaker sounds somewhat brighter and clearer - the choice is yours!

Out-rigger feet

nuPro floorstanding loudspeakers are delivered with removable out-rigger feet, these also ensures that the down-firing bass reflex ports have the required distance to the floor.

Important: The loudspeaker cannot be used without the out-rigger feet being mounted, please read the included quick-start guide for mounting instructions.



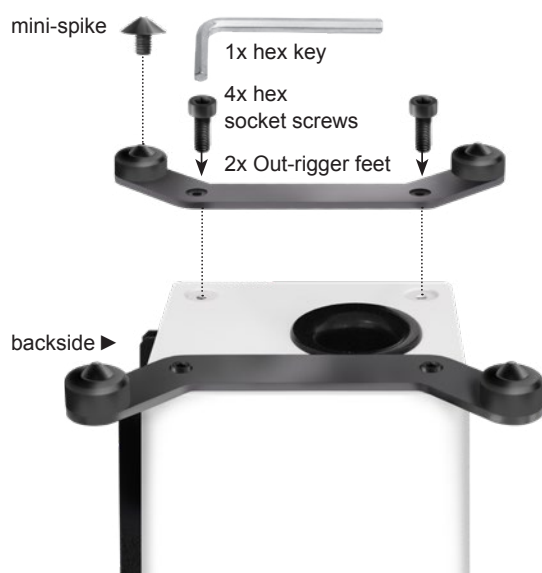
Caution! Be careful not to scratch the loudspeaker! Don't let any items fall into the bass reflex ports!

Place the speaker upside down on a soft, non-scratching surface! Place the out-rigger feet over the threaded bushings as shown in the picture and mount the feet securely with the supplied bolts and hex key. You can now turn the loudspeaker around, place it on its feet and adjust the mini-spikes for a level, stable stand.

Setup

The nuPro X are high-quality, very neutral active stereo loudspeakers. They impress with an extremely homogeneous, precise, and "direct" sound reproduction with the finest resolution in the entire frequency spectrum. However, even "honest loudspeakers" are exposed to the manifold influences of room acoustics. In order to achieve the most natural and true-to-life reproduction possible, please observe the following general installation instructions:

- The distance to rear- and sidewalls should ideally be as big as possible, we recommend at least half a meter. Some distance to the back- and side walls also helps prevent an increase in the bass- and fundamental ranges.
- If the bass reproduction is perceived as being too strong when the speakers are placed close to a wall, you can raise the lower cut-off frequency of the speakers, as described on page 8 under *system hp*, and/or adjust the bass volume with the bass control as a "countermeasure".
- Within horizontal listening angles up to 30 degrees off the horizontal axis, you will experience no significant change or loss in sound quality. Only at wider listening angles does the sound lose its brightness slightly. It is then advisable to point the speakers towards the listening position.
- The most natural sound is achieved when the tweeters are approximately at ear level. But even 20 degrees above or below the tweeter axis, the sound is still homogeneous. If your active speakers need to be placed lower or higher, they should ideally be angled so that the tweeters are aimed at the listening position.





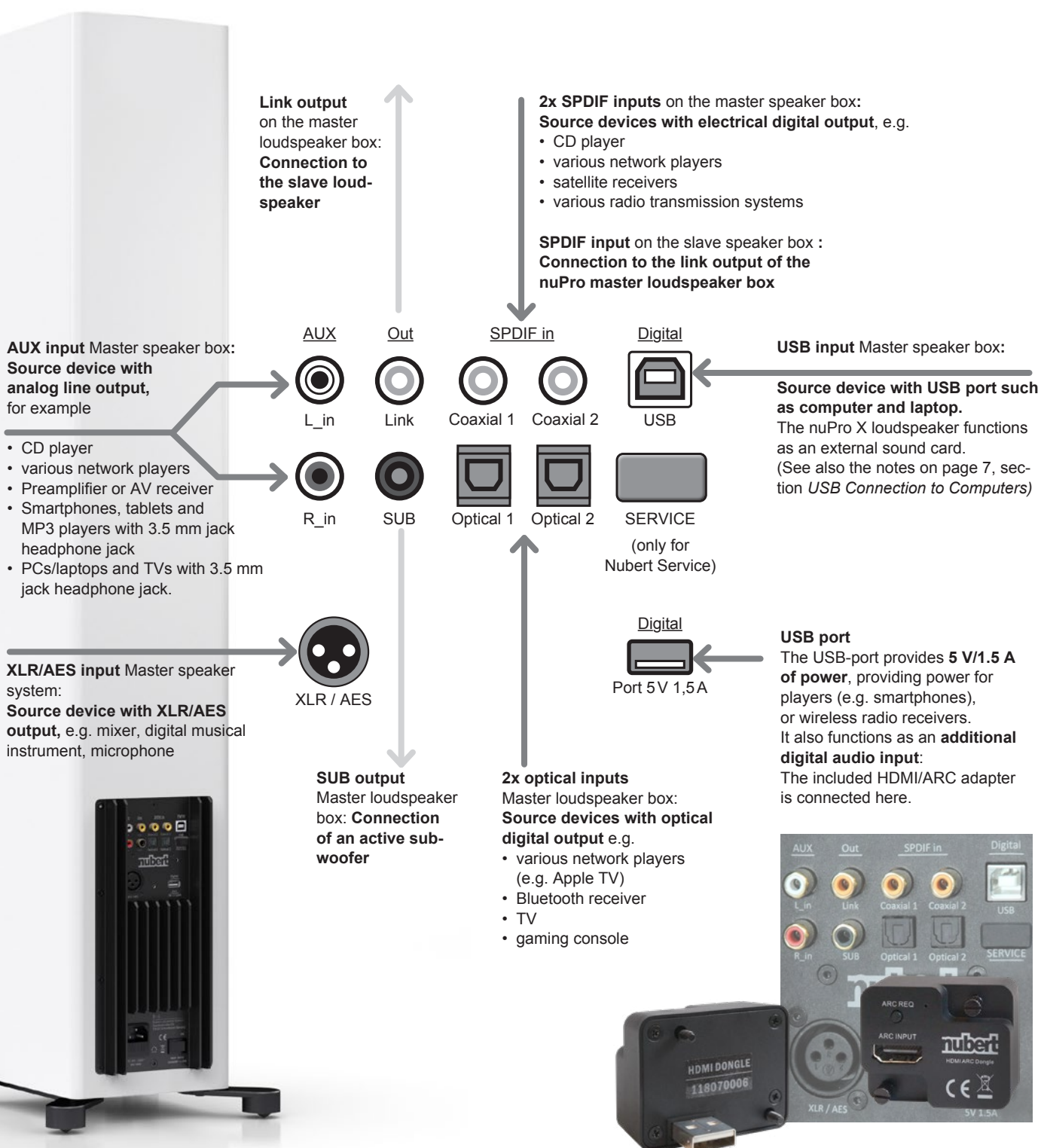
Connections and application examples

Make sure that all connections to the nuPro loudspeakers are made before switching them on, see also our separate Quick Start Guide.

Using the remote control or the Nubert X-Remote App, you can select which of the connected devices you want to hear from the input sources (see page 8).

Bluetooth

The connection options of a nuPro X loudspeaker also include a Bluetooth input for wireless music transmission from a smartphone, tablet, or similar device.



USB-connection to a computer

Select the USB input on the nuPro master-loudspeaker.

Windows 10

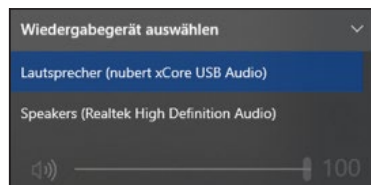
Automatic setup

Connect the nuPro to your computer with a suitable USB cable (included) and switch on the loudspeaker. Normally, Windows will automatically install the correct driver and set the speaker as the default playback device.

Selecting the playback device manually

If the loudspeakers are not automatically set as the standard playback device or you want to select a different playback device, either:

1) click on the loudspeaker symbol in the taskbar.
You can see the current playback device above the level adjustment slider. Click on the device and select the xCore USB Audio device.



2) in Windows settings under
> system
> sound
You can select a playback device.



Manually selecting the output format in shared mode

Windows allows you to set which sound output format should be sent to the USB-DAC when operating in shared mode.

Open windows setting and navigate to

>System
>Sound
>properties
>advanced.

You can now select the output format from the drop-down menu.

Note: Playback from applications that uses the exclusive mode is not affected by this setting. Here, the output settings are determined by the application.



Manual driver installation

When using Windows 10, we recommend using the default Windows driver for best possible compatibility. However, should this driver cause problems, you can download and install a suitable driver from <https://www.nubert.de/downloads/61/>

macOS

Automatic installation

Connect the nuPro X and the computer using the supplied USB cable and turn on the loudspeaker.

Normally, the macOS will automatically install the correct driver and set the speaker as the default playback device.

Manually selecting the output device

If the loudspeakers are not automatically set as the standard playback device or you want to select a different playback device, please:

In the system settings, navigate to

>Hardware
>Sound
>output device

Select the *xCore USB Audio* device.



Remote control


The remote control of the nuPro allows direct access to the permanently required functions:

on/off

After switching on the loudspeaker, using the mains-switch on the back of the speaker, the nuPro is in stand-by or auto-on mode. Use the power key on the remote control to activate or deactivate the speaker.

Switching the speaker into standby using the app or the remote control deactivates the automatic power-on feature.

volume and (mute) keys

The volume can be adjusted with the *volume* keys. The mute  key allows you to mute and unmute the speakers.

bass and mid/high keys

The remote control also allows an uncomplicated adjustment of the sound character of the nuPro speakers. The *bass* keys allow the bass intensity to be raised and lowered, while the *mid/high* keys can be used to adjust the mid/high range by up to +/- 10 dB. For more information, refer to section *Tilt control* on page 13.

xlr, aux, coax, opto, (bluetooth) and usb

These 6 buttons on the remote control below are for source selection. Pressing a key repeatedly toggles between sources as shown below:



p1 · p2 · p3

With these buttons you can directly recall 3 presets, which you can make and save in the setup. Alternatively, a preset can be stored by pressing and holding the respective button (see page 12).

nuPro X loudspeakers and nuPro soundboards Remote control signals

The remote control signals from the nuPro Active speakers and soundbars do not interfere with each other, making it possible to use combinations of speakers and soundbars simultaneously without accidentally operating the wrong speaker.

Nubert X-Remote App



As an alternative to the remote control, you can also control the nuPro X-Series speakers with the Nubert X-Remote App, downloadable to your mobile device free of charge via the App Store or Play Store.

It offers the possibility to easily adjust all settings of the active loudspeakers comfortably from the listening position.

The app is intuitive and easy to use thanks to easy-to-understand graphics.

With the X-Remote App, you can adjust all settings of the nuPro X-series from the comfort of your listening position. This is particularly useful when using the **X-Room Calibration** function.

Room influences often cause problems such as boominess or dips in the low-frequency range. The X-Room Calibration algorithm utilizes the powerful DSP of the nuPro X-series to optimize the frequency response in the low frequency range for an optimal listening experience with precise, dynamic bass.

Simply start the measuring procedure in the app from the listening position. The speakers now play a test tone which is picked up by the microphone of your smartphone. Based on the measured data, the app analyzes and adjusts the low frequency response of the loudspeakers so that you can enjoy optimal sound quality at the listening position. You can switch the room correction on or off.

Attention: At present, the X-Room Calibration feature is iOS compatible only.

X-Room Calibration



Password entry:

The first time you pair the X-remote app with a nuPro X device, you will be prompted to enter a password. The default password is 0000. A different password can be assigned in the menu to protect the device from unauthorized access. If the device is reset to the factory settings (default), the password is also reset to 0000.

Configuring a stereo pair

All nuPro X loudspeakers have the same functions and the connections. Depending on placement and usage, configure your loudspeakers in one of the following ways.

Note: Always connect your sources to the master loudspeaker when using master/slave configurations! All settings are performed on the master loudspeaker using the control pad.

Default setting: Cabled connection, left speaker as Master


Connect the two loudspeakers with the supplied SPDIF cable by plugging one end of the cable in to the *Link Out* connector on the left loudspeaker and the other end into the *Coaxial 1* connector on the right loudspeaker. The left loudspeaker automatically configures itself as the Master and the right as the Slave. The loudspeaker pair is now configured and ready to use.

Variation: Cabled connection, right speaker as Master


Connect the two loudspeakers with the supplied SPDIF cable by plugging one end of the cable in to the *Link Out* connector on the right loudspeaker and the other end into the *Coaxial 1* connector on the left loudspeaker. The right loudspeaker automatically configures itself as the Master and the left as the Slave.

Go to the *channel menu* on the Master loudspeaker and set the channel to *right ch*, the master loudspeaker will now play back the right channel. The Slave loudspeaker is configured automatically and will now play back the left channel.

Variation: Wireless connection, left speaker as Master

In the setup menu of the left speaker, select *w/s master* and confirm with . On the right speaker you then select *w/s slave* and confirm. The loudspeakers will then connect to each other and the left loudspeaker will now be the Master loudspeaker.

Variation: Wireless connection, right speaker as Master

In the setup menu of the right speaker, select *w/s master* and confirm with . On the left speaker you then select *w/s slave* and confirm. The right loudspeaker automatically configures itself as the Master and the left as the Slave. Go to the *channel menu* on the Master loudspeaker and set the channel to *right ch*, the master loudspeaker will now play back the right channel. The Slave loudspeaker is configured automatically and will now play back the left channel.

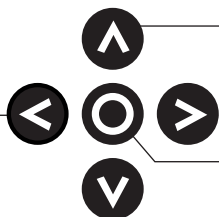
Variation: individual configuration, wired connection

This option is recommended when the loudspeakers are used with an external preamplifier. In the *setup menu* of each loudspeaker, select *single* and confirm. This way, each loudspeaker can be configured independently and receive separate audio signals.

Menu navigation and settings

Pressing **<** in the volume menu will access the main menu.

Pressing this key will always take you back to a higher menu level.



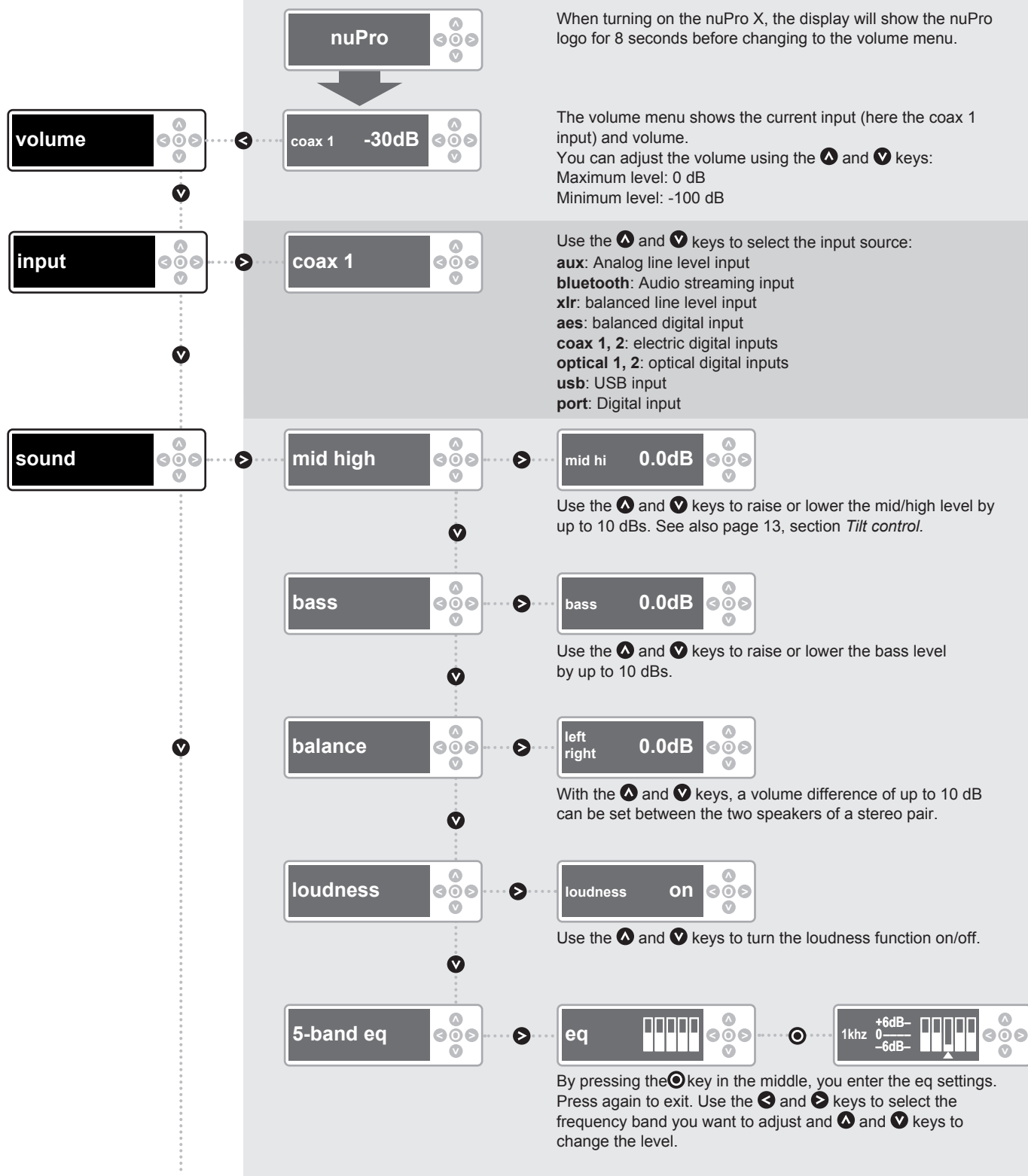
By pressing **▲** or **▼** you can access the different menus and change their settings.

By pressing **▶** you will enter a sub-menu.

Pressing the **⊙** key in the middle will confirm a selection you have made or confirm the choice of a sub-menu. If the loudspeaker is standby mode, you can activate it by keeping the button pressed for 4 seconds.

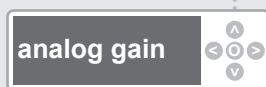
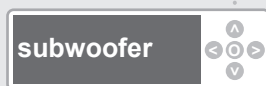
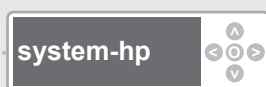
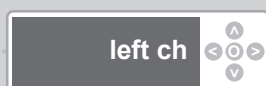
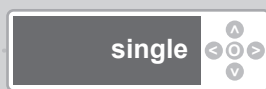
MAIN MENU

SUB-MENUS



MAIN MENU

SUB-MENUS



These settings allow to select the mode of operation. If you want to configure each loudspeaker individually, select **single**. You now have complete access to all configuration options. The standby power consumption in *single* mode is < 1 watt.

If you want use your nuPros as a stereo pair using a wired a connection, select **pair** on both loudspeakers. This is the default setting. The standby power consumption in *pair* mode is < 1 watt.

The loudspeakers then configure themselves automatically as slave and master. Both speakers can be operated from the master speaker box.

For wireless operation, select **wls slave** on the slave speaker box and **wls master** on the master speaker box and confirm your selection with the **OK** key.

The loudspeakers now connect (display: connecting) and confirm the connection (display: connected). Standby power consumption is < 2 watts in *wireless* mode.

Note: In the single mode the link output will output the input signal in the SPDIF format. This signal is not affected by the volume control. This enables multiple nuPros to be daisy-chained.

Use the **▲** and **▼** keys to choose between **pair** and **reset**. Pressing the **OK** key when **pair** is shown in the display starts the pairing procedure and the loudspeaker can now be paired with a compatible smartphone, tablet or computer. Pairing mode is active for 60 seconds.

Pressing the **OK** key when **reset** is shown in the display delete all paired devices from the memory of the nuPro loudspeaker. This can be necessary if more than 8 devices are stored.

Here you can specify whether the loudspeaker should play back the left (**left ch**) or right (**right ch**) channel.

If you want the loudspeaker to play back a summed mono signal, select **mono** in the menu.

When using the loudspeaker in master/slave mode, the slave speaker will be configured automatically.

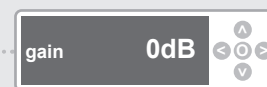


Here you can set the low-cut frequency of the nuPro. This is particularly useful when used in conjunction with a subwoofer. To set the cut-off frequency, select **system hp** by pressing **OK**. You can now change the 10 Hz default value in 1 Hz steps by pressing the **▲** and **▼** keys.



The subwoofer output only outputs low frequency sound. The desired upper cut-off frequency can be set under this menu item. To do this, use the **▲** and **▼** keys.

Note: The SUB out signal is a summed mono signal.



The input sensitivity for the analogue AUX and XLR inputs can be set to either 0 dB or +6 dB using the **▲** and **▼** keys.

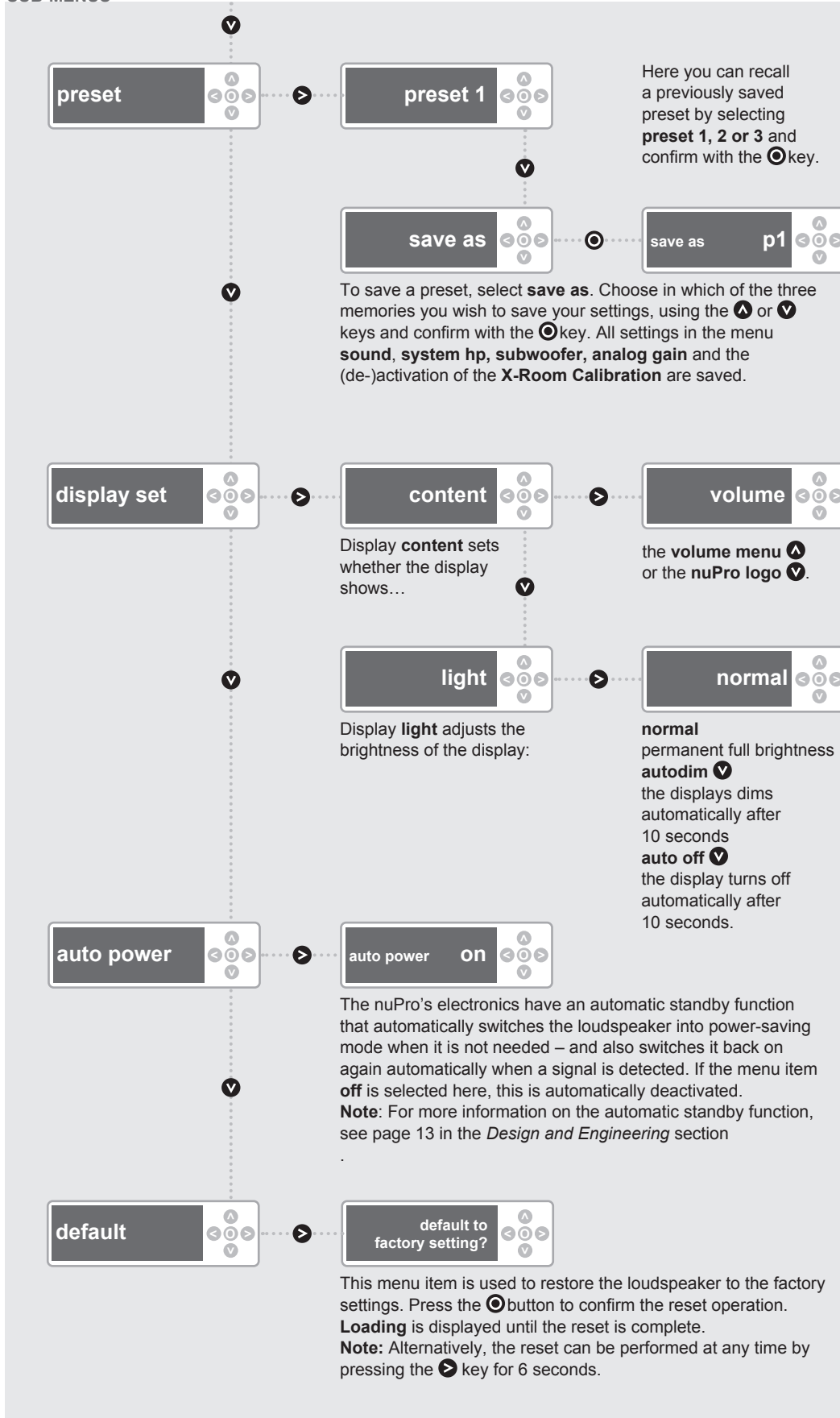
Continued on page 12

MAIN MENU

The **advanced** main menu, continued from page 11



SUB-MENUS



Note: If no settings are made, the display automatically changes back to displaying the volume or the nuPro logo after 8 seconds. As the display changes, all settings made are automatically saved. However, if power is disconnected before the automatic saving takes place, the last saved settings will be loaded on restart.

Construction and technology

Tilt Control

The midrange/treble adjustment of the nuPro loudspeakers has the characteristics of a so-called "Tilt control". While standard treble controls "bend" the frequency response and thus produce colourations, this control continuously affects the frequency response in a linear fashion. This perfectly preserves the basic tonal character of the loudspeaker and the harmony of the sound image. The Mid/Hi tone control allows an increase or decrease of the frequency response with a maximum of 10 dB at 20 kHz.

Analog gain

The input sensitivity for the analog inputs XLR and AUX can be adjusted in 2 steps (0 dB / +6 dB).

Digital Signal Processing

For maximum fidelity, the signal path of a nuPro X loudspeaker is kept virtually entirely digital: Digital input signals go straight to the digital signal processor (DSP), which then handles frequency distribution and optimization of the frequency response. Analogue sources are first converted to a digital signal by high-quality A/D converters. The signal remains digital all the way into the power amplifiers in order to achieve the best possible precision and signal to noise ratio.

Time correction

Due to the digital signal processing, every nuPro X loudspeaker has a small delay of the sound signal. If the nuPro speakers are operated as a stereo pair in the PAIR configuration, any time differences between the speakers are automatically compensated so that the left and right signals are reproduced at exactly the same time. The result is the best possible spatial reproduction with precise voice positioning.

Sound format

The nuPro X loudspeakers process signals at the digital inputs in "PCM" format. It may therefore be necessary to adjust the settings of players such as TV sets or game consoles accordingly. To do this, select "PCM" as the output format in the playback menu. Please also refer to the manual of your source device.

Switching off a nuPro X pair

If the master box is set to standby mode by either with the remote control or by the auto-off function, the other loudspeakers operate in PAIR mode follow automatically.

HDMI ARC Adapter

At the **USB-Port input** you can connect, among other things, an HDMI ARC adapter. This adapter makes it possible to send audio- and control information (e.g. level) from a compatible TV to your nuPro Speakers. The HDMI REQ key initializes the HDMI CEC functions on older TVs. On newer TVs, this is normally not necessary.

Note: The HDMI output of the source (TV) must support The HDMI ARC protocol!

Auto-off function

The auto on/off function reacts differently, depending on the selected input: If no signal is present at the analog input, the loudspeaker is set to stand by after 20 minutes. As soon as an analog input signal is detected, the speaker switches back on. At the other inputs, the activity of the connected source is monitored, allowing the loudspeaker to switch off or on instantly. At the SPDIF, Optical, Port and AES/EBU inputs, the presence of the digital data stream is monitored, while at the USB input the presence of USB supply voltage is detected. The standby power consumption depends on the operating mode. See page 11, section *setup*.

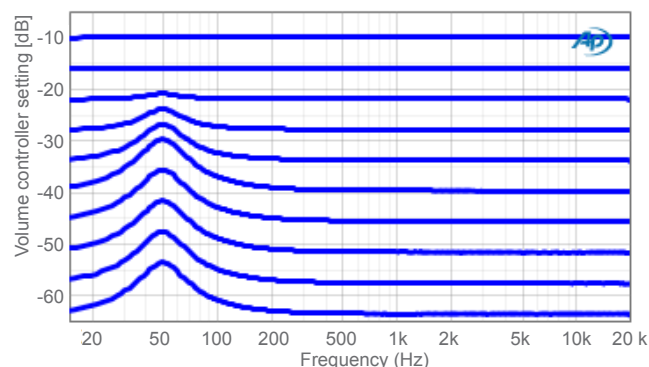
Note: Modern computers often have USB sockets that deliver constant voltage (e.g. for charging a mobile phone) even when the computer is switched off. If you want to use the auto-on function of your nuPro active loudspeakers in conjunction with the USB input, you must use a USB connector that powers off with the computer.

Auto-on function

The nuPro speakers have an auto-on function that automatically wakes up the loudspeaker from standby mode. This function is only active if the loudspeaker was set to standby by the auto-off function. To wake up the loudspeaker, a signal must be present at the input that was selected when the loudspeaker went into standby (this function is not available at the Bluetooth and HDMI-ARC dongle inputs. If the speaker was set to standby using the remote control or the app, the auto-on function is disabled).

Loudness

This function can be used to make a volume-dependent frequency response correction that compensates for limitations in the human hearing. At low levels, human hearing is less sensitive in the bass-range. In order to compensate for this, the loudness function increases the bass-level with up to 10 dB when activated.



Frequency response correction relative to volume settings

Further Applications

Connecting a subwoofer

If you wish to connect a subwoofer to your nuPros, you have two options:

You can connect your subwoofer at the SUB-output of the Master loudspeaker. This output outputs a lowpassed, summed mono signal. You can set the crossover-frequency in the **advanced / subwoofer menu**.

Alternatively, you can connect a subwoofer, e.g. from our nuSub series, wirelessly by connecting it as a **wls slave**. Because the Master-speaker outputs a fullrange wireless signal, the frequency of the lowpass-filter must be set on the subwoofer itself. Please see the operating manual of your subwoofer.

In both cases, the highpass crossover frequency of the nuPro speakers is set in the **system hp menu** of the Master speaker (see page 11). The relative level of the subwoofer is set on the sub.

Connecting a nuPro pair to a preamplifier

In addition to connecting a preamplifier to a nuPro pair in master-slave mode, an external preamplifier can also be connected directly to the individual nuPro active loudspeakers. As with conventional active loudspeakers without master-slave functionality, the boxes can then be configured independently of each other. Connect the output of the left channel of your preamplifier to the nuPro on the left and the output of the right channel to the nuPro on the right.

Note: Connect the output from your preamplifier to the AUX L input on each nuPro X speaker. Do not connect the speakers to each other with the SPDIF coaxial cable.

Use of a single nuPro

Each nuPro X loudspeaker can play either the left or right channel, or a summed mono signal. This can be selected in the **channel menu**. (See page 11).

Using multiple nuPros

If you need to supply multiple nuPros with the same signal, connecting the speakers wirelessly is the obvious solution. A Master loudspeaker can feed the signal to an almost unlimited number of slave-speakers. It is also possible to mix different types of loudspeakers.

Especially in this kind of party-mode we recommend to set the master loudspeaker to **mono** in the **channel menu**. This way, all nuPros will get the same summed mono signal.

You can also configure all loudspeakers as **single** if you need to configure each loudspeaker individually. The loudspeakers must be connected to each other with a coaxial cable in order to pass the SPDIF signal on to the next loudspeaker.

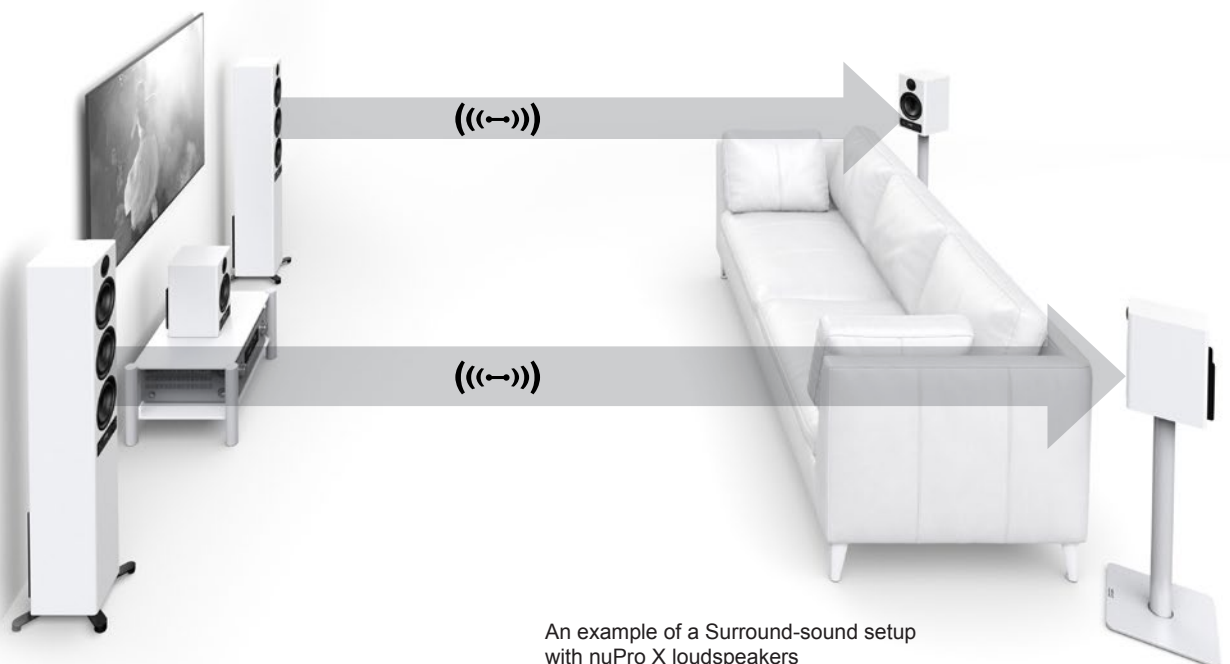
Surround-sound setups

You can create complex surround sound setups with the nuPro X-series loudspeakers.

Just like in a conventional system with passive loudspeakers, an AV-receiver or AV-preamplifier is the heart of the system; the main difference being that the nuPros are not connected to the loudspeaker terminals but to the preamplifier line-outputs.

An example: Thanks to the wireless capabilities of the nuPro X series you only need signal-cables for the front loudspeakers, the surround loudspeakers can be connected wirelessly! This way you save laying loudspeaker cables in your living room.

To best way to ensure that you have chosen the perfect setup for your needs, simply call our phone hotline at 0800 6823780 (or +49 7171 92690118 outside of Germany), where our expert advisors will help you create a tailor-made active surround-sound system with the nuPro X loudspeakers.



An example of a Surround-sound setup with nuPro X loudspeakers

Technical Data nuPro X-6000 RC

Principle	Fully Active HiFi/Studio/Multimedia Loudspeaker 3-Way Bass Reflex System
Drivers	1x Tweeter with 25 mm fabric dome 1x 148 mm midrange driver and 2x 148 mm bass drivers with polypropylene composite cone
Power of built-in amplifiers	4x 120 Watt (rated power) 4x 200 Watt (music power)
Frequency response	28 – 22 000 Hz +/- 3 dB 30 – 22 000 Hz +/- 2 dB
Input sensitivity	1 V for analog gain +6 dB 2 V for analog gain +0 dB
Max. Input	4.5 V _{rms}
Standby power consumption	0.7 Watt (single / pair) 1.8 Watt (wls master / wls slave)
To change the mode of operation, please see page 11	
Maximum sampling rates at all digital connections	24 bit / 192 kHz
Radio frequency bands and Bluetooth module:	radio transmitting power
2402 – 2480 MHz	9,75 dBm / 9,5 mW
Network module (wireless mode):	
5180 – 5240 MHz	15,75 dBm / 37,6 mW
5736 – 5818 MHz	15,75 dBm / 37,6 mW
Hight	110.5 cm total incl. out-rigger feet
Width of housing	18.5 cm
Depth of housing	23 cm incl. amplifier
Weight	19 kg



Care and cleaning tips

Caution!

Improper handling of the speaker may result in damage.

- Always unplug the speaker before cleaning it!
- Before recommissioning, make sure that all connections are correct, that there are no short circuits and that the speaker is completely dry.
- Never use strong cleaning agents or solvents such as petrol, spirit or similar!

Enclosure

We recommend commercial window cleaner sprayed onto a cotton cloth. This allows almost all fingerprints and dust to be easily removed. Alternatively, you can also use window active foam.

We advise against the use of microfibre cloths! These can cause mini scratches in the surface.

Diaphragms and Speaker Chassis

To remove dust from a loudspeaker chassis, a lint-free cotton cloth is sufficient to wipe the membrane lightly with very little pressure.

The tweeters of all Nubert loudspeakers are equipped with a protective grille so that they can also be wiped off with low pressure. If the dust cannot be completely removed, a make-up brush from the drugstore is suitable.

Service

If you have any questions or problems during the commissioning of your Nubert system, please do not hesitate to contact our service team:

Phone:

0800 68 23 780 (toll-free, within Germany)

0049 7171 92690-118 (international)

E-mail:

info@nubert.de

Please have your customer number ready!

Warranty terms

Your provider and contractual partner:

Nubert electronic GmbH, Goethestr. 69, 73525 Schwäbisch Gmünd,
Germany (German)
Phone: +49 7171 92690-0 · Fax: +49 7171 92690-145 · E-Mail: info@nubert.de
Managing Director: Günther Nubert · Register court AG Ulm, HRB 700296
Tax ID No.: DE 16758584 · WEEE Reg. No. DE 48888173

For questions and individual advice, please dial our special numbers:

- Calls from Germany - Toll Free 0800-6823780
- Calls from abroad +49 7171 92690-118

Our hotline is available from

Monday to Friday from 10:00-18:00 and Saturdays from 9:00-13:00.

Nubert warrants the Nubert product described in this manual to the purchaser under the following terms and conditions.

The purchaser's statutory warranty claims, in particular for subsequent performance and, if applicable, damages in the event of defects, shall remain unrestrictedly with the purchaser and shall be fully available to our customers.

1. The warranty period for the Nubert product and its electronic components described in this manual is 2 years from the date of delivery.

Your proof of purchase is the proof of guarantee.

2. Contents of the warranty claim

The guarantee applies to all parts and labour costs from delivery. It includes and is limited to the free repair or replacement of the defective part in the event of a material defect in the goods (e.g. Material defect or manufacturing defect). In addition, Nubert shall bear the costs of the return shipment of the affected product from or to the curb in the case of justified warranty claims, provided that the goods are within the countries of the European Union and the shipment was previously agreed with Nubert. Additional services are possible as a gesture of goodwill in accordance with Nubert's free discretion. For the duration of the guarantee, it is assumed that the material defect was already present at the time of transfer of risk. Replaced parts become the property of Nubert. Warranty services do not extend the warranty period, nor do they set a new warranty period in motion. The warranty period for installed spare parts ends with the warranty period for the entire device. The promise or the execution of warranty services is made without recognition of a performance obligation according to statutory warranty law.

3. The warranty claim does not apply in the case of

- repair attempts of any kind not previously agreed upon with Nubert
- improper operating environment or improper storage (e.g. damage due to moisture or particularly high or low temperatures)
- improper transport packaging (the original transport packaging, correctly used, provides sufficient protection)
- improper transport, if the transport was not previously agreed upon with Nubert (Nubert organizes the transport for you with Nubert selected Transport company. You will receive return tickets with the corresponding postage paid returns).
- improper mechanical effects on the goods (e.g. on housing, switches, connection sockets or antennas)
- improper operation, improper mounting (e.g. switches, antennas) or improper connection (e.g. operation on defective or unsuitable amplifiers or other source devices with DC voltage or unusually high hum voltage at the source device output).

4. Disassembled components

Do not disassemble any components from our equipment and do not send in any such individual parts until you have contacted Nubert Service and agreed on this measure.

5. What to do in the event of a warranty claim

If possible, pack the defective device in its original carton with a copy of the purchase receipt and a meaningful description of the defect. Please note our shipping instructions. Please contact the Nubert team for a return or refund:

• Telephone within Germany 0800-68 23 780 (toll free) • Phone international: +49 7171 92690-118 • Fax: +49 7171 92690-145 • E-mail: info@nubert.de

Of course, you can also return your defective product to the Nubert Service in Schwäbisch Gmünd or Aalen:

• Nubert electronic GmbH, Goethestr. 69, D-73525 Schwäbisch Gmünd, Germany • Nubert electronic GmbH, Bahnhofstr. 111, D-73430 Aalen, Germany.

Shipping information: We recommend that you always keep the original carton, along with the protective foam inserts. Tip: Folding saves space! This is the only way to ensure a safe return shipment in the worst-case scenario. If, in exceptional cases, you use a different packaging, it should protect professionally against the typical dangers of shipping and have special protective cushions or equivalent protective devices. We would like to draw your attention to the fact that we accept no liability for damage caused by improper packaging for which you are responsible!

Disposal and battery return

Environmental protection: Ingredients, e.g. chemical pollutants in old appliances, can damage the environment and health if stored improperly, in particular if they are not shatterproof or disposed of properly by persons not authorised to do so. Especially in the case of illegal exports, there is no guarantee that the environment and human health will be protected from damage. Old appliances can also contain recyclable raw materials, old appliances can be repaired or parts can be reused and thus considerably protect the environment. Old appliances must therefore not be disposed of with normal household waste or exported illegally. As an end user, you are legally obliged to return or properly dispose of electrical equipment.

Batteries:

Ingredients, e.g. chemical type of batteries, can damage the environment and health if not stored and disposed of properly. At the same time, recyclable raw materials may also be included. Batteries must therefore not be disposed of with normal household waste. As an end user, you are legally obliged to return used batteries. You can return batteries after use to the seller or in the designated collection points (e.g. in public collection points in your municipality or in the trade) free of charge or send them back free of charge. You can also send the batteries back to the seller free of charge by post, whereby any requirements of the dangerous goods law must be observed. The sale at points of sale is limited to the quantities customary for end users for disposal as well as used batteries which the distributor carries or has carried in its product range.

• Battery return

The symbol with the crossed-out dustbin reminds you not to put batteries in the household waste.

Under this symbol you can also find the following symbols with the following meaning about ingredients:

Pb = battery contains more than 0.004 mass percent lead, Cd = battery contains more than 0.002 mass percent cadmium,

Hg = battery contains more than 0.0005 mass percent mercury.

• Old appliances

Electrical and electronic equipment is also marked with the crossed-out wheeled bin symbol. The symbol indicates that you, as the owner of this appliance, may not dispose of it with your household waste (grey bin, yellow bin, organic waste bin, paper or glass).

You can send the device to the municipal collection points to be collected separately from unsorted municipal waste for reuse. Used batteries and accumulators which are not enclosed by the waste equipment shall be separated from it at a collection point prior to delivery.

Old appliances can also be returned to us directly in our shops or shipped back to us for disposal. Please send an Email to info@nubert.de for a free return shipping label.

You can also request this by calling +49 7171-92690118. Please then send the old device to the following address:

Nubert electronic GmbH, Goethestr. 69, D-73525 Schwäbisch Gmünd, Germany.

Please ensure that the old appliance is properly packaged for shipment so that breakage is avoided as far as possible and mechanical compaction or breakage can be ruled out. The acceptance of waste equipment may be refused if there is a risk to human health and safety due to contamination.

Please note: You are responsible for the deletion of personal data on the waste equipment to be disposed of.



As of: 26.7.2019

Technical changes, errors and misprints excepted - You will find our General Terms and Conditions (AGB) on our website: www.nubert.de/agb.htm



Nubert electronic GmbH
Goethestr. 69
73525 Schwäbisch Gmünd
Germany

E-mail: info@nubert.de
Hotline service:
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