# nuPro XS-7500

**Soundbase**

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

⚠ CAUTION:
the XS-7500 is very heavy due to its size and solid built.

Do not unpack or move the loudspeaker by yourself!

**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.

⚠️ **Caution!**
The drivers built into this loudspeaker generate a strong magnetic field in their immediate vicinity, which can impair or damage other devices. It is therefore essential to keep magnetically sensitive devices away from this loudspeaker! Do not place tube screens, notebooks, hard disks or the like on the speaker!

⚠️ 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 speaker. 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 soundbase
• 1 Cloth grille
• 2 Out-rigger feet
• 1 Mounting kit (4 bolts, 1 hex key)
• 1 Remote control with battery
• 1 Mains cable, 3 m
• 1 HDMI ARC adapter
• Signal cables:
– Stereo jack cinch cable (3.5 mm jack cinch), 1.5 m
– Fibre optic cable with TOS-Link plugs, 1.5 m
– USB cable (Type A/Type B), 1.5 m



nuPro XS-7500 soundbase with cloth grille and out-rigger feet with mounting kit
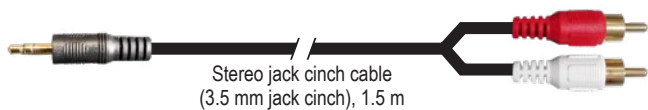


Stereo jack cinch cable
(3.5 mm jack cinch), 1.5 m

Fibre optic cable with TOSLINK plugs, 1.5 m

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

Mains cable 3 m

HDMI ARC adapter

Remote control
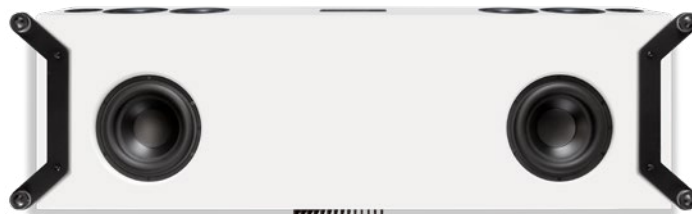
## Mounting the out-rigger feet

**⚠ 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.

**Mounting kit with one pair of out-rigger feet**

1x hex key

mini-spike

4x hex socket screws
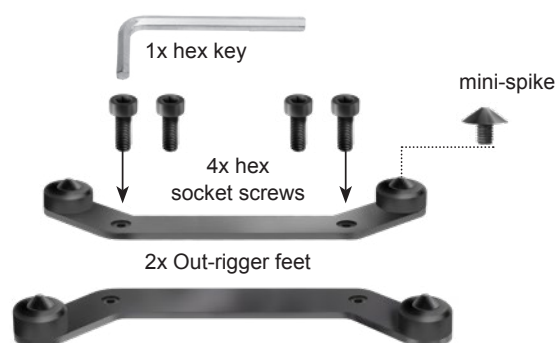
2x Out-rigger feet

**Standard mounting: out-rigger feet pointing outwards**

**Alternative mounting: out-rigger feet pointing inwards.**
This method is recommended if the XS-7500 needs to be placed on a narrow surface or if heavy objects (more than 50 kg's) needs to be placed on the soundbase.
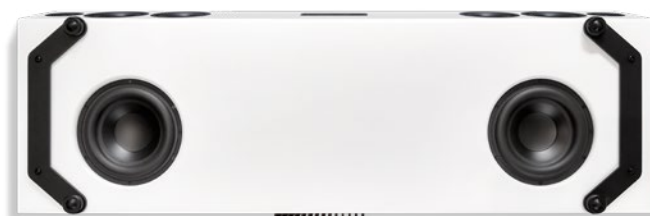
## Low temperatures and Sound

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!

## Setup

The nuPro-soundboard XS-7500 is a high-quality, very neutral active stereo loudspeaker. They impress with an extremely homogeneous, precise, and "direct" sound reproduction with the finest resolution in the entire frequency spectrum.
However, even an "honest loudspeaker" is 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 guidelines:

Due to the rear-facing bass reflex ports, the XS-7500 should be placed at least 5 centimetres from the rear wall in order to ensure trouble-free operation and to avoid air flow noises. Some distance to the back- and side walls also helps prevent an increase in the bass- and fundamental ranges.

When placed on a shelf, the best sound is achieved when the front edge of the speaker is either flush with the shelf or protrudes slightly. This allows the loudspeaker to radiate the sound freely into the room and helps to avoid voices sounding like coming through a funnel.

**Ideal horizontal listening area**
The best listening experience is achieved directly in front of the XS-7500. If you often need to sit off-centre and thus outside the optimum listening area, we recommend that you compensate with the sound controls.

**Placing the speaker at the optimum height**
The most natural sound is achieved when the tweeters are approximately at ear level. But even 30 degrees above or below the tweeter axis, the sound is still homogeneous. If the XS-7500 is placed directly beneath your TV, you will in most cases be within the optimum listening area already. If the speaker needs to be placed lower or higher, it should ideally be angled so that the tweeters are aimed at the listening position. If this is not possible, we recommend compensating with the sound-controls.

## Connections and application examples

**All cables must be connected to the nuPro Soundbase before switching it on,
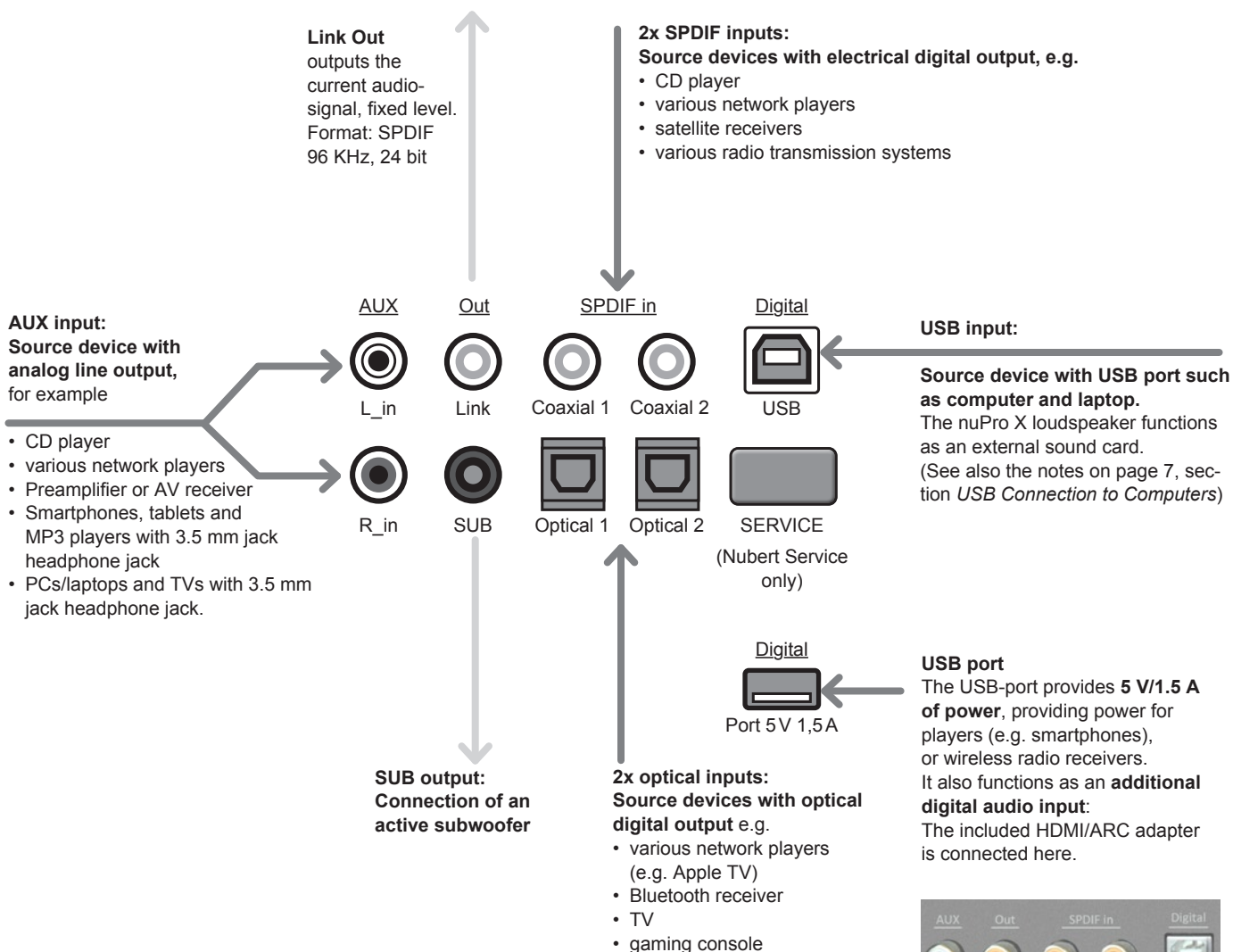see also our separate Quick Start Guide.**
Using the remote control or the Nubert X-Remote App, you can select which of the connected
devices you want to hear from the input sources (see page 8).

**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.

**Wireless input**
Connect another compatible Nubert appliance wirelessly, for instance
nuPro X active speakers
nuConnect ampX amplifier

**Link Out**
outputs the
current audio-
signal, fixed level.
Format: SPDIF
96 KHz, 24 bit

**2x SPDIF inputs:**
**Source devices with electrical digital output, e.g.**
• CD player
• various network players
• satellite receivers
• various radio transmission systems

AUX      Out      SPDIF in      Digital

**USB input:**

**Source device with USB port such
as computer and laptop.**
The nuPro X loudspeaker functions
as an external sound card.
(See also the notes on page 7, sec-
tion *USB Connection to Computers*)

**AUX input:**
**Source device with
analog line output,**
for example

L_in      Link      Coaxial 1      Coaxial 2      USB

• CD player
• various network players
• Preamplifier or AV receiver
• Smartphones, tablets and
  MP3 players with 3.5 mm jack
  headphone jack
• PCs/laptops and TVs with 3.5 mm
  jack headphone jack.

R_in      SUB      Optical 1      Optical 2      SERVICE
(Nubert Service
only)

Digital

**USB port**
The USB-port provides **5 V/1.5 A
of power**, providing power for
players (e.g. smartphones),
or wireless radio receivers.
It also functions as an **additional
digital audio input**:
The included HDMI/ARC adapter
is connected here.

Port 5 V 1,5 A

**SUB output:**
**Connection of an
active subwoofer**

**2x optical inputs:**
**Source devices with optical
digital output** e.g.
• various network players
  (e.g. Apple TV)
• Bluetooth receiver
• TV
• gaming console

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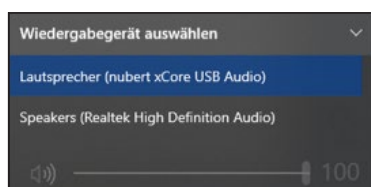
2) in Windows settings under
> system
> sound
You can select a playback device.

**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**
As an alternative to the windows driver, 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 perma-
nently required functions:

### on/off ⏻

After switching *on/off* the mains switch, the nuPro is in stand-by or
auto-on mode. Use the on key 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 ◁x (mute) keys

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

### tone

The remote control also allows easy adjustment of the sound char-
acter. Pressing the **tone**-button activates the corresponding menu
and you can now toggle between bass, mid/high and loudness. With
the arrow-buttons above the **tone level** marking, you can adjust the
parameter currently selected, like raising or lowering bass intensity,
or adjust mid/hi frequencies up to +/- 10 dB. You can also turn the
loudness on and off.
For more information, refer to the sections *tilt control and loudness*
on page 14.

### wide

By pressing the wide-button repeatedly, you can adjust the intensity
of the wide-effect between 0 (off) and 4 (maximum).
For more details regarding this special sound-stage expanding
DSP-algorithm, please refer to the section *virtual sound-stage ex-
pansion* on page 14.

( **wls** ) Wireless     ( **coax** ) Coaxial 1 / Coaxial 2     🅱 Bluetooth

( **analog** ) Aux     ( **opto** ) Optical 1 / Optical 2     ( **usb** ) USB Digital Port

### analog, wls, coax, opto, 🅱 (bluetooth) and usb

The 6 buttons on the remote control below are for source selection.
By pressing the buttons for coax, opto and usb repeatedly, you can
switch between 2 functions (toggle).

### 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).

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**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.

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## 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 loud-
speakers 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 XS-
7500 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 experi-
ence with precise, dynamic bass.
Simply start the measuring procedure in the app from the listening
position. The XS-7500 now plays 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
XS-7500 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 com-
patible only.

**X-Room Calibration**
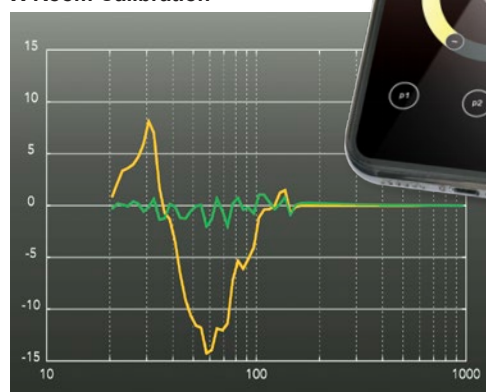


**Password entry:**
The first time you pair the X-remote app with a nuPro X device, you
will be prompted to enter a password. The default password is 0000.
A different password can be assigned in the menu to protect the
device from unauthorized access. If the device is reset to the factory
settings (default),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

## Wireless sound transmission between Nubert Wireless System products

Nubert X-platform based speakers and appliances can wirelessly exchange audio- and control-information. These include **nuPro X loudspeakers, nuSub XW subwoofers** and the **nuConnect amplifier**. The appliance that transmits the signal is the Master, the receiving appliances are the Slaves. In some appliances this is preconfigured, others like the XS-7500 can be flexibly configured. Please refer to the section *Setup* on page 11.

Depending on which appliance is receiving the signal, please observe the following:

**1.**
**Receiver: nuSub XW**
Nubert XW-generation subwoofers are always preconfigured as slaves (**wls slave**).
• The Master appliance always transmits a full-range signal. Accordingly, crossover frequency and relative level must be set on the subwoofer.
• The overall level is adjusted on the Master-appliance.

**2.**
**Receiver: nuPro XS-7500 or nuConnect ampX**
The nuPro XS-7500 and the nuConnect ampX remain independently controllable in **wls slave** mode.
• The received signal is accessed by selecting the wireless (wls) input.
• Level is set on the receiving device, independently of the Master-appliance.

**3.**
**Receiver: nuPro X loudspeaker**
**Transmitter: nuPro XS-7500 or nuConnect ampX**
No changes can be made to the configuration on the nuPro-X speaker once it is set to **wls slave**.
• Selecting the correct channel (left, right or mono) must be done before the **wls slave** mode is selected, as no channel configuration information is transmitted from the master-appliance.
• The relative level of the slave-loudspeaker(s) can be adjusted in the sub-menu **zone ctrl** on the XS-7500 or nuConnect ampX. Please refer to the section **zone ctrl** on page 11.
• The overall level is controlled from the Master-appliance.

**4.**
**Receiver: nuPro X loudspeaker**
**Transmitter: nuPro X loudspeaker**
In this most common configuration (see the owner's manual for your nuPro X speakers), all settings are made on the Master-loudspeaker.
No changes can be made to the configuration on the nuPro X speaker set as **wls slave**, including level and channel selection.

## Further use cases

**Augmentation through a pair of nuPro-X loudspeakers (i.e. X-4000 or X-8000)**
The nuPro Soundbase can be supported by a pair of loudspeakers from the X-series in order to achieve a broader stereo image. The loudspeakers are placed in the classic stereo triangle and connected wirelessly to the soundbase.
Set the corresponding channel, left or right, in the **channel** menu on the loudspeakers you want to add. Now connect the speakers to soundbase by selecting **wls master** in the **setup** menu of the soundbase and **wls slave** on both loudspeakers.

The complete, combined system can now be controlled from the soundbase. We recommend setting the soundbase to **mono** in the **channel** menu in order to achieve a more precise, central vocal reproduction.

The balance between the soundbase and the speakers can be adjusted in the **zone ctrl** menu on the soundbase. You can read more about the menus on page 11.
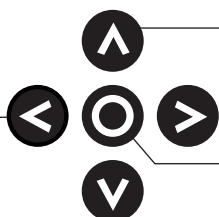
**Use with a subwoofer**
If you want to use your XS-7500 together with a wired subwoofer, you can connect it to the SUB Out output. This output provides the subwoofer with a low-pass filtered, summed mono signal. You can set the crossover frequency for the subwoofer in the menu **advanced / subwoofer.**
The cut-off frequency for XS-7500 is adjusted in the **advanced / system-hp** menu (see page 11). The relative level of the subwoofer must be set on the subwoofer itself.
Alternatively, the subwoofer can be connected wirelessly. Please refer to the *Receiver: nuSub XW* chapter above.

## Menu navigation and settings

By pressing ⏶ or ⏷ you can access the different menus and change their settings.

**Pressing ◀ in the volume menu will access the main menu.**
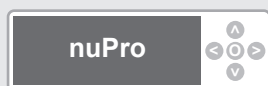Pressing this key will always take you back to a higher menu level.

By pressing ▶ 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**

**nuPro**

When turning on the nuPro X, the display will show the nuPro logo for 8 seconds before changing to the volume menu.

**volume**

**coax 1　　-30dB**

The volume menu shows the current input (here the coax 1 input) and volume.
You can adjust the volume using the ⏶ and ⏷ keys:
Maximum level: 0 dB
Minimum level: -100 dB
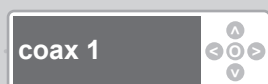
**input**

**coax 1**

Use the ⏶ and ⏷ keys to select the input source:
**aux**: Analog line level input
**bluetooth**: Audio streaming input
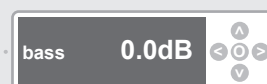**wireless**: wireless input
**coax 1, 2**: electric digital inputs
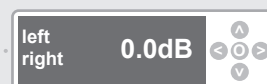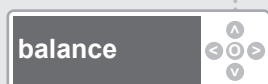**optical 1, 2**: optical digital inputs
**usb**: USB input
**port**: Digital input

**sound**

**mid high**

**mid hi　　0.0dB**

Use the ⏶ and ⏷ keys to raise or lower the mid/high level by up to 10 dBs. See also page 13, section *Tilt control.*

**bass**

**bass　　0.0dB**

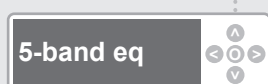Use the ⏶ and ⏷ keys to raise or lower the bass level by up to 10 dBs.

**balance**

**left**
**right　　0.0dB**

With the ⏶ and ⏷ keys, a volume difference of up to 10 dB can be set between the two speakers of a stereo pair.

**loudness**

**loudness　　on**

Use the ⏶ and ⏷ keys to turn the loudness function on/off.

**5-band eq**

**eq**

**1khz**　+6dB— 0— −6dB—

By pressing the ⦿ key in the middle, you enter the eq settings. Press again to exit. Use the ◀ and ▶ keys to select the frequency band you want to adjust and ⏶ and ⏷ keys to change the level.
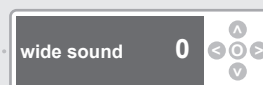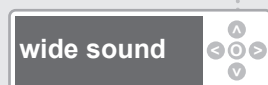
**MAIN MENU**

The **sound** main menu, continued from page 10

**SUB-MENUS**

**wide sound**

**wide sound** 0

In the sub-menu **wide sound**, you can adjust the strength of the wide effect between 0 (off) and 4 (maximum) by pressing the ⌃ and ⌄ buttons. For more details regarding this special DSP-algorithm that expands the soundstage and provides a greater sense of spaciousness, please refer to the section *virtual expansion of the soundstage* on page 14.

**setup**
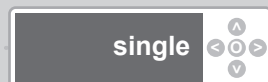
**single**

In this menu, you can set if and how a wireless connection to other appliances in the Nubert X-range (e.g. nuPro-X speakers or the nuConnect ampX) should be established.
If **single** is selected, the wireless connection is off and the stand-by power consumption is < 1 Watt. This is the default setting.
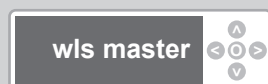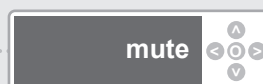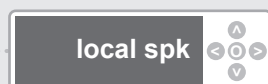
**wls master**

In order to stream music to another appliance from the sound-base, select **wls master** on the soundbase and confirm by pressing ⊙. On the receiving device, select **wls slave** and confirm.
Please note: Selecting the correct channel in the channel sub-menu must be done before the **wls slave** mode is selected.
In *wireless* mode, the standby power consumption is < 2.0 Watts.
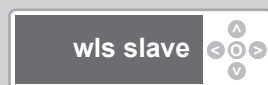
**wls slave**

To enjoy music from another device (e.g.nuPro-X speakers or the nuConnect ampX), select **wls slave** on the XS-7500 and confirm with ⊙. On the transmitting device, select **wls master** and confirm.
Select the wireless input (**wls**) to listen to the streamed signal.
In *wireless* mode, the standby power consumption is < 2.0 Watts.

**zone ctrl**

**local spk**

**mute**

The menu **zone ctrl** shows up when the XS-7500 is selected as the **wls master** (more information above). In the sub-menu **local spk**, you can mute the Soundbase by selecting **mute** and confirming by pressing ⊙. Selecting **unmute** reactivates the audio output.
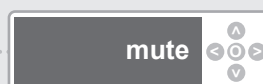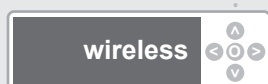
**wireless**

**mute**

In the sub-menu **wireless**, you can mute wirelessly the connec-ted systems by selecting **mute** and confirming by pressing ⊙.

**unmute**

Selecting **unmute** reactivates the audio output.

**zone level**

**level** 0 dB
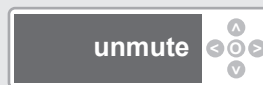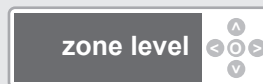
In the sub-menu **zone level**, you can adjust the relative level of the wirelessly connected systems by +/- 10 dB.

Continued on page 12

**MAIN MENU**     **SUB-MENUS**

**bluetooth**

**pair**

**reset**

Use the ⌃ and ⌄ keys to choose between **pair** and **reset**. Pressing the ◉ 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.
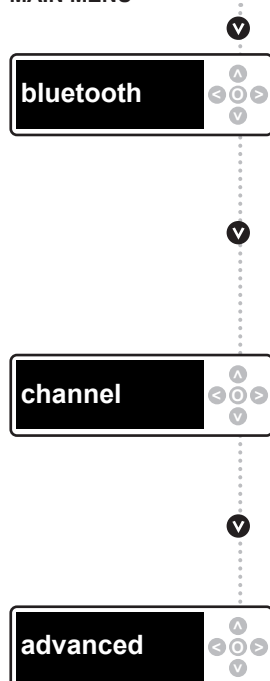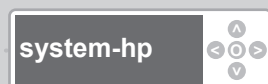
Pressing the ◉ key when **reset** is shown in the display delete all paired devices from the memory of the nuPro loudspeaker. This can be necessary when more than 8 devices are stored.

**channel**

**stereo**

Here you can set whether the Soundbase should play in **mono** or **stereo**.
Wirelessly attached systems are not affected by this setting.

**advanced**

**system-hp**

hpf     **10Hz**

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 ◉. You can now change the 10 Hz default value in 1 Hz steps by pressing the the ⌃ and ⌄ keys.

**subwoofer**

lpf     **140Hz**
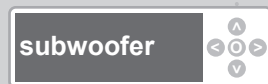
The subwoofer output only outputs low frequency sounds. The desired cut-off frequency can be set under this menu item. To do this, use the ⌃ and ⌄ keys.
**Note:** The SUB out signal is a summed mono signal.

**analog gain**

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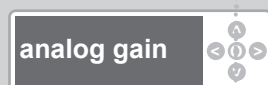
The input sensitivity for the analogue AUX and XLR inputs can be set to either 0 dB or +6 dB using the ⌄ and ⌃ keys.

**preset**

**preset 1**

Here you can recall a previously saved preset by selecting **preset 1, 2 or 3** and confirm with the ◉ key.

**save as**     ◉     save as     **p1**
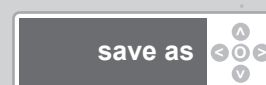
To save a preset, select **save as**. Choose in which of the three memories you wish to save your settings, using the ⌃ or ⌄ keys and confirm with the ◉ key. All settings in the menu **sound**, **system hp, subwoofer, analog gain** and the (de-) activation of the **X-Room Calibration** (Nubert X-Remote App) are saved.

**MAIN MENU**

The **advanced** main menu, continued from page 12

**SUB-MENUS**

display set

content

volume

Display **content** sets whether the display shows…

the **volume menu** ⏶ or the **nuPro logo** ⏷.

light

normal

Display **light** adjusts the brightness of the display:

**normal**
permanent full brightness
**autodim** ⏷
the displays dims automatically after 10 seconds
**auto off** ⏷
the display turns off automatically after 10 seconds.

auto power

auto power    on

The nuPro's electronics have an automatic standby function that automatically switches the loudspeaker into power-saving mode when it is not needed – and also switches it back on again automatically when a signal is detected. If the menu item **off** is selected here, this is automatically deactivated.
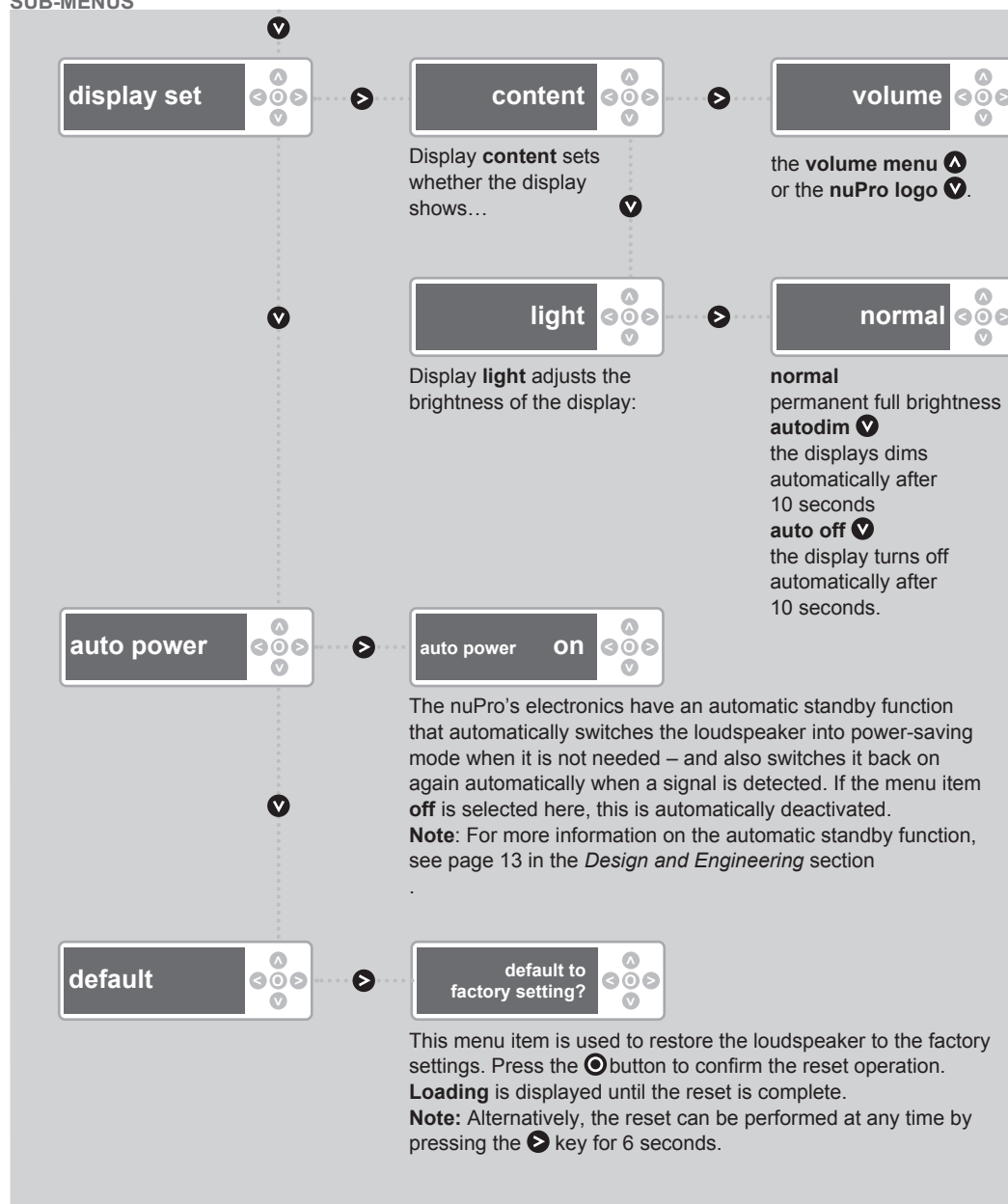**Note**: For more information on the automatic standby function, see page 13 in the *Design and Engineering* section
.

default

default to
factory setting?

This menu item is used to restore the loudspeaker to the factory settings. Press the ⊙ button to confirm the reset operation.
**Loading** is displayed until the reset is complete.
**Note:** Alternatively, the reset can be performed at any time by pressing the ❯ key for 6 seconds.

**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.

### 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.

### Turning off multiple nuPro X loudspeakers

If the XS-7500 is switched into stand by either the remote or the auto-off function, all wirelessly connected loudspeakers are automatically set to stand by as well.

### Latency

The nuPro X Soundbase has a very low latency of 7.6 ms when set up as *single* or *wls slave*.
If the XS-7500 is used in the *wls master* configuration, the latency increases to 27.5 ms in order to assure correct time-alignment between the master- and slave loudspeaker.

### Virtual sound-stage expansion

A complex DSP-algorithm calculates and extracts additional spatial information that can be added to the original signal. When added, the soundstage is virtually broadened and expanded.
This effect can set to 4 different levels:
• Set to "0", the effect is deactivated
• Set to "1", the effect is soft
• Set to "4", the effect is the most pronounced. This setting is recommended when a very expansive soundstage is wanted and precise location is less important.

### 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 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.
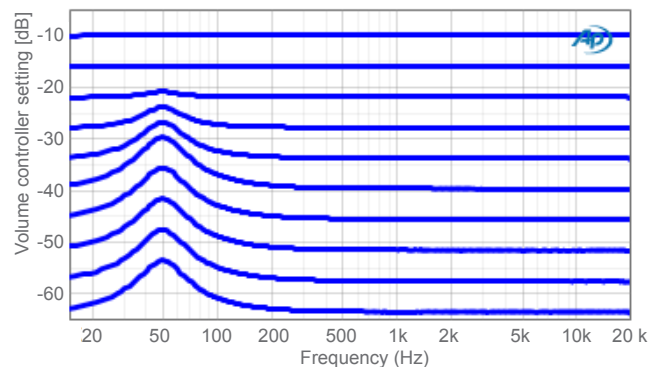


Frequency response correction relative to volume settings

## Technical Data nuPro XS-7500

| | |
|---|---|
| Principle | Active Soundboard with DSP technology for Hi-Fi and multimedia applications |
| Bestückung | 2x tweeters with 25 mm fabric dome 4x 119 mm midrange drivers with polypropylene cone, 2x 204 mm bass drivers with polypropylene composite cone |
| Power of built-in amplifiers | 4 x 90 Watt + 2 x 110 Watt (rated power) 4 x 130 Watt + 2 x 150 Watt (music power) |
| Frequency response | 25 – 22 000 Hz  +/- 3 dB |
| Input sensitivity | 0.3 $V_{eff}$ for analog gain +6 dB |
| Max. Input | 4.5 $V_{rms}$ |
| Standby power consumption | 0.7 Watt (single) 1.8 Watt (wls master / wls slave) Changing the mode of operation, 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 |
| Supported Bluetooth Codecs | SBC, AAC, aptX™ HD, aptX™ Low Latency |
| Hight | 14.3 / 16.8 cm (housing only/with out-rigger feet) |
| Width | 120 / 128.7 cm (Out-rigger feet outwards/inwards) |
| Depth | 37 / 39 cm (housing only/with amplifier) |
| Weight | 32.5 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:** +49 7171 8712-0
**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
Phone: +49 7171 8712-0 · Fax: +49 7171 8712-345 · E-Mail: info@nubert.de

For questions and individual advice, please dial our special number:
+49 7171 8712-0

Managing Directors: Günther Nubert, Bernd Jung · Register court AG Ulm, HRB 700296
Tax ID No.: DE 16758584 · WEEE Reg. No. DE 48888173

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: +49 7171 8712-0 • Fax: +49 7171 8712-345 • 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 wheelie 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 8712-0. 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

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