

nuPro **A-600**

Active Speaker

**Safety Instructions
Operating Manual
Technical data**



nubert®

Thank you for purchasing a
nuPro active loudspeaker!

If you read this manual carefully, setting up
your new speaker is quick and easy.

We will explain the setup, the connections,
and the daily operation so you can achieve
the best possible sound quality and get
the most out of your new nuPro loudspeaker.

The Nubert team wishes you
many hours of musical enjoyment!

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.

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.



nuPro A-600 active loudspeaker
with cloth grille

Remote control
with battery



1 Mains cable, 3 m



SPDIF coaxial cable, 5 m



Stereo jack-phono cable
(3.5 mm jack), 1.5 m



Fibre optic cable with
TOSLINK connectors, 1.5 m



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



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 A-600 active loudspeaker
- 1 Cloth grille
- 1 Remote control with battery
- 1 Mains cable, 3 m
- 4 Signal cables:
 - SPDIF coaxial cable, 5 m
 - Stereo jack-phono cable (3.5 mm jack), 1.5 m
 - Fibre optic cable with TOSLINK connectors, 1.5 m
 - USB cable (Type A/Type B), 1.5 m

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 A-600 are high-quality, very neutral fully active Hi-Fi/studio/multimedia loudspeakers (3-way bass reflex system). 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 speaker should be placed at least 50 centimeters away from back- and side walls. Placed like that, the speaker will provide optimum imaging. Some distance to the back- and side walls also helps prevent a level- 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 listening angles up to 20 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 or – if this is not possible – use the treble control to brighten the sound a little.
- The most natural sound is achieved when the tweeter is at about ear level. But even 20 degrees above the tweeter axis, the sound is still homogeneous.

Connections and application examples

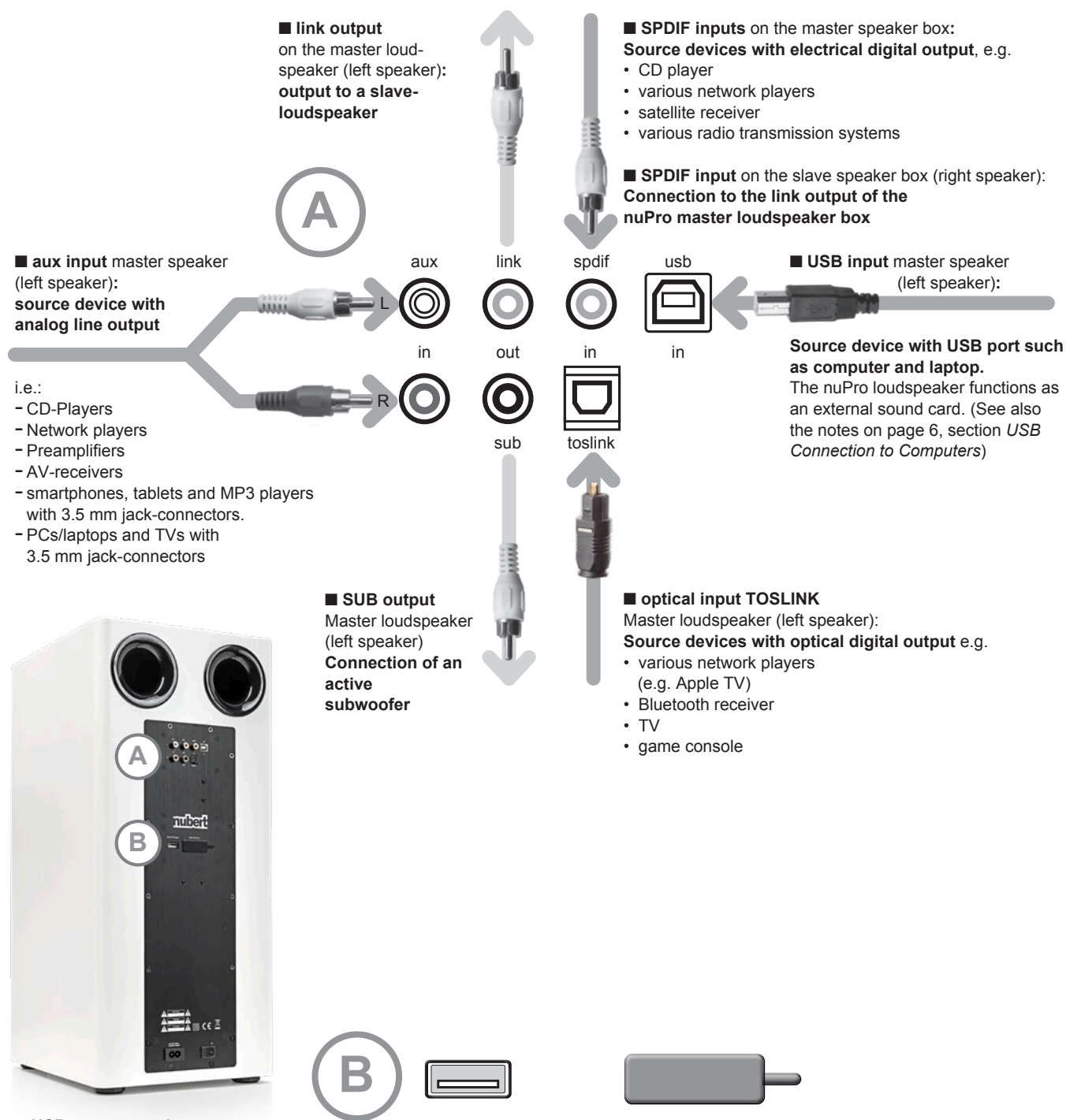
The nuPro boxes must be completely wired before switching them on, see also our separate commissioning instructions..

The default setting of the nuPro software defines the left loudspeaker of a stereo pair as master, the right one as slave. All settings of the loudspeakers are based on this assignment.

The digital connection of the speakers enables their joint control. All settings are made on the left master speaker, and all source devices are also connected to this speaker.

An active subwoofer can also be connected. Use the remote control to select from the input sources which of the connected devices you wish to listen to.

Alternatively, you can configure and control both speakers individually. For more information, see page 8 in the "SETUP" section.



■ USB power supply port

The USB-port provides 5 V/1.0 A of power, allowing you to conveniently power various devices (e.g. smartphones) or wireless radio receivers directly from the A-600.

This USB connector is power only, no audio!

■ Service port

You will find a service connector under the rubber cover. The cover may be removed by authorized Nubert-technicians only. There are no user-serviceable parts below the cover!

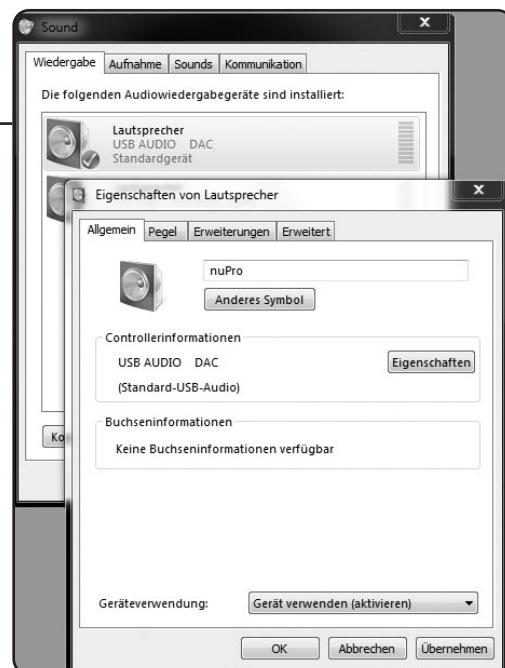
USB-connection to a computer

Your nuPro aktive speaker can be used as a high quality, plug-and-play compatible USB interface.

■ Windows

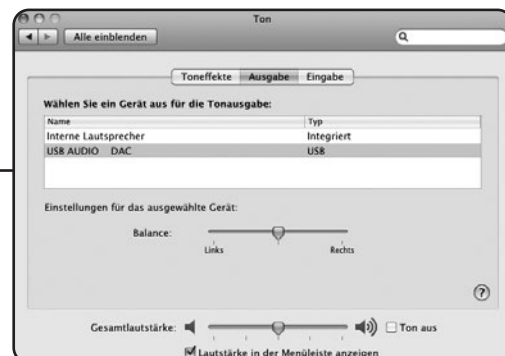
Under current windows versions, you need to set the nuPro speaker as the default playback device manually when connecting it to your computer for the first time.

1. Connect your nuPro to your computer with the supplied USB cable
2. On the desktop, click on the status bar (at the bottom of the screen, margin right) with a right click on the loudspeaker symbol and then to the „Playback devices“ entry. Alternatively, in the „Control Panel“ go to the entry „Sound.“
3. A window with available playback devices opens.
 - a) The nuPro speaker appears as „Lautsprecher USB Audio DAC“ on the list
 - b) Click on it and set it as default.
 - c) Click apply to save your settings
4. You can change the name and the icon of your nuPro speaker if you wish. To do so, simply click on the “USB Audio DAC” device, then “properties”. In the window that opens you can change the name and the icon.



■ MAC OS X

1. Connect your nuPro to your computer with the supplied USB cable
2. In the system settings, navigate to >Hardware >Sound >output device
3. Select „USB Audio DAC“



Remote Control

The remote control of the nuPro allows direct access to all commonly used functions:

■ on

With this key, you toggle the speaker between active and stand-by mode.

■ volume and mute

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

■ bass and mid/high

The remote control allows easy adjustment of the sound character of the nuPro loudspeakers. The mid/high keys are used to raise and lower the bass intensity, while the mid/high keys can be used to adjust the mid/high range by up to ± 12 dB. See the section "Tilt Control" below for more information.

■ usb · aux · spdif

With these keys, you select the source you wish to listen to. USB selects the USB input, aux the analog input. Pressing spdif toggles between the electrical and the optical digital inputs.

When handling the remote control:

Make sure the battery is inserted correctly, observing the polarity of the battery. If you need to replace the battery, always use a high quality CR2025 battery.



Remote control signals, AS-250 and the nuPro A-series.

The remote-control signals of the AS-250 and the nuPro A-series loudspeakers do not cause interference with each other, making it possible to use combinations of these systems without accidentally operating the wrong speaker.

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 12 dB at 20 kHz.

Autogain

After being powered on, the nuPro speaker sets the input sensitivity automatically. For this reason, it is important that you connect your sources and let them play for few seconds before switching the nuPro on. If the voltage of the signal increases too much during playback, the input sensitivity is automatically lowered. You can deactivate this function in the menu (see page 8, section "AGAIN").

Digital Signal Processing

For maximum fidelity, the signal path of a nuPro loudspeaker is kept entirely digital: Digital input signals go straight to the digital signal processor (DSP), which then performs crossover functions 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 for best possible precision and signal to noise ratio.

Latency compensation

Due to the digital signal processing, a slight delay is introduced, so-called latency. If you connect additional nuPro loudspeakers to the link-output, this delay is automatically compensated for in order to ensure the best possible time-alignment. The result is an optimal stereo image with precise voice location (see page 9, section "further applications").

Sound format

The digital inputs of your nuPro loudspeakers accept PCM-format signals only. 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 refer to the manual of your source device.

Switching off a pair of nuPros

If the master speaker switches to stand-by mode (due to automatic switch-off or manually with the remote control), the other speakers operated in PAIR mode follow automatically. However, since these speakers now receive no control signal for a short time, they briefly switch to SINGLE mode before switching off and show this in the display. This is normal and does not affect the function of the nuPros in any way.

If, however, the remote control's stand-by button is pressed again during the power down process, the speaker may in some cases remain in SINGLE mode. In this case, it may be necessary to turn on the box one at a time. To do this, press the ◀ button while the master box is switched on.

Auto-on/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 switches 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 and Optical digital inputs, the presence of the digital data stream is monitored, while at the USB input the presence of USB supply voltage is detected.

The auto-on 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

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.



Configuring your nuPro loudspeakers

When the nuPro are powered on, they automatically configure themselves as Master- or Slave-loudspeaker, depending on the cabling. They are now ready for use. For more on the basic configuration of your nuPro speakers, please see the separate quickstart guide.

All settings can be adjusted and read using the keypad and display on the front of the speaker. After 8 seconds of inactivity, the display changes back to its default readout (default: level). Pressing a key will take you to the last used menu or let you adjust the volume.

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 MENU key in the middle will confirm a selection you have made or confirm the choice of a sub-menu.

Note: Your settings are saved when the display changes back to its default state. If power to the nuPro speaker is lost before this happens, the speaker will load the last saved state when power is restored.

■ VOLUME

Use the ▲ and ▼ keys to adjust the volume.

Note: The displayed level can be set to show either a positive or negative value. Press and hold the central MENU-key to set the display to your preference.

	Mode A	Mode B
Maximum Level	Vol 80	V 0 dB
Minimum Level	Vol 0	V-80 dB

■ INPUT

Use the ▲ and ▼ keys to select a source.

AUX IN	Analog Line-In
USB IN	USB Input
SPDIF	Electrical Digital Input
OPTICL	Electrical Optical Input

■ CHANNL (Channel)

Here you can specify whether the respective nuPro should play the left (LEFT) or right (RIGHT) channel. If you want the loudspeaker to reproduce a mono signal, this can also be set here. Note: This menu item is only available in the SINGLE configuration, see section SETUP.

■ MID HI (Mid/High)

Use the ▲ and ▼ keys to raise or lower the mid/high level by up to 12 dB. See also page 7, section "Tilt control".

■ BASS

Use the ▲ and ▼ keys to raise or lower the bass level by up to 12 dB.

■ BAL (Balance)

Use the ▲ and ▼ keys to change the relative level between the left and right channel by up to 9 dB.

■ SUBOUT

The subwoofer output outputs a low-passed mono sum signal. In this menu you can set the desired crossover frequency for the subwoofer. Use the ▲ and ▼ keys to change the crossover frequency. **Note:** The output sub out always outputs a mono signal formed from the signal of the current source device.

■ SYS HP (High-pass and crossover frequency)

In this menu, you can set the high-pass (lo-cut) filter frequency. This is particularly useful if you connect a subwoofer to your nuPro speaker.

Use the ▲ and ▼ keys to activate (ON) or deactivate (OFF) the filter. If the Filter is set to ON, press ► or the MENU key to get to the next menu where you can set the proper frequency, using the ▲ and ▼ keys

Note: Setting the high-pass filter to a higher frequency increases the maximum possible sound pressure level from your nuPro loudspeaker.

■ SETUP

This menu item is used to select the operating mode.

If you operate your nuPro active loudspeakers as a stereo pair, select **pair** for both speakers. This is also the factory setting. The speakers thus configure themselves automatically as slave and master. Both speakers can be operated from the master speaker box.

If you want to freely configure your boxes individually, you can select the menu item SINGLE here. You now have access to the complete configuration of the speaker box.

Note: In the SINGLE configuration, the box outputs the selected input signal completely in SPDIF format at the link output. In PAIR mode, only one channel is output.

■ DISPLY (Display)

After 8 seconds of inactivity, the display reverts to its default readout. The DISPLY menu allows you to change this readout. You can set the display to display the level (VOLUME), the nuPro logo (LOGO) or turn the display off (OFF).

■ LIM DS (displaying limiter/overload protection status)

Each nuPro loudspeaker has a built-in, always active protection circuit, which reliably protects the drivers from overload. If the built-in overload protection is active, this is indicated in the display by the word LIMIT. In this menu, you can choose to have this warning-message displayed (ON) or not (OFF).

Note: The display starts already with very small reactions of the limiter – long before a limiting effect is audible.

■ PRESET

In this menu, you can save all settings of the nuPro speaker in three presets. To do this, select the preset slot you want to save in, using the ▲ and ▼ keys, then press the MENU button until the word SAVING appears in the display. To recall a preset, select it in the menu and confirm with a short press of the central MENU button. LODING is then briefly shown in the display to confirm the selection.

■ AUTO

The electronics of the nuPro speakers has an automatic stand-by function, which automatically switches the loudspeaker to stand-by and back on as required. Selecting OFF disables this function.

Further information on the automatic stand-by function can be found on page 7 in the "Construction and technology" section.

■ AGAIN (Autogain)

By default, the input sensitivity of your nuPro speaker is set automatically to avoid overload and distortion. If you don't want to use this feature, select OFF in this menu. The input sensitivity is then fixed at 1,5V. See also Page 7, "construction and technology".

■ DEFAULT (default)

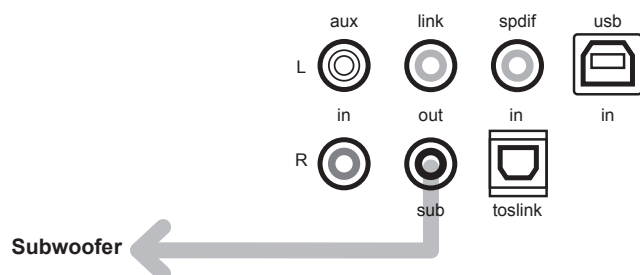
In this menu you can reset the speaker to factory settings. To reset your speaker, select OK and confirm by pressing the MENU key. LODING is then briefly shown in the display to confirm the reset.

Note: You can also reset the speaker by pressing and holding the ► key for 8 seconds.

Further use-cases

■ Adding a subwoofer

If you want to add a subwoofer to your nuPro speaker, 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 the nuPro speaker is adjusted in the SYS HP menu (see page 8). The relative level of the subwoofer must be set on the subwoofer itself.



■ 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 each individual nuPro active loudspeaker. 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: Use the left input (aux L) of each nuPro speaker. Do not connect the loudspeakers to each other with the SPDIF coaxial cable.

Technical Data nuPro A-600

Principle	Fully Active HiFi/Studio/Multimedia Loudspeaker 3-Way Bass Reflex System
Drivers	1x Tweeter with 25 mm fabric dome 1x 120 mm midrange-driver with polypropylene composite cone 1x 220 mm bass-driver with polypropylene composite cone
Power of built-in amplifiers:	2x 70 Watt + 1x 200 Watt (rated power) 2x 90 Watt + 1x 250 Watt (music power)
Frequency response	30 – 22 000 Hz +/- 3 dB
Input sensitivity	300 mV (automatic sensitivity selection)
Max. Input	3.5 V
Standby power consumption	<0.5 Watt
Maximum sampling rates	– USB 16 bit / 48 kHz – S/PDIF (optisch) 24 bit / 96 kHz – S/PDIF (elektrisch) 24 bit / 96 kHz
Dimensions (H x W x D)	60 x 26.4 x 32 cm
Weight	16.5 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:

0800 68 23 780 (toll-free, within Germany)
0049 7171 92690-118 (international)

E-mail:

info@nubert.de

Please have your customer number ready!

Menu Sitemap

Note: to start navigating, press ◀

▲ / ▼	Keys	▲ / ▼	Keys	Notes
VOLUME	► or MENU	Vol 80 or V -00 dB Vol 79 or V -01 dB ... Vol 1 or V -79 dB Vol 0 or V -80 dB		Press-and-hold the menu button to toggle the display mode
INPUT	► or MENU	AUX IN USB IN SPDIF OPTICL		Input selection
CHANNL	► or MENU	MONO LEFT RIGHT		Selecting the channel to be played back (Disabled when PAIR is selected in the SETUP section)
MID HI	► or MENU	+12 dB +11 dB ... 0 dB ... -11 dB -12 dB		Raise or lower the mid- and high frequencies
BASS	► or MENU	+12 dB +11 dB ... 0 dB ... -11 dB -12 dB		Raise or lower the bass level
BAL	► or MENU	L -9 dB ... L -1 dB LR 0 dB R -1 dB ... R -9 dB		Adjusting a volume difference between left and right nuPro speaker
SUBOUT	► or MENU	160_Hz 150 Hz ... 50 Hz 40 Hz		Adjusts the upper crossover frequency of the subwoofer output
SYS HP	► or MENU	ON OFF	► or MENU	160 Hz 150 Hz ... 40 Hz 30 Hz Sets the frequency of the high-pass filter of the speaker when used with a subwoofer, this is the crossover frequency of the speaker.

Note: to start navigating, press ◀

▲ / ▼	Keys	▲ / ▼	Keys	Notes
SETUP	► or MENU	PAIR SINGLE		Automatic master / slave configuration, link out outputs only one channel No master / slave configuration, link out outputs a stereo signal
DISPLY	► or MENU	VOLUME LOGO OFF		Displays the set volume after 8 seconds of inactivity Displays the nuPro logo after 8 seconds of inactivity Display turns off after 8 seconds of inactivity
LIM_DS	► or MENU	ON OFF		Displays LIMIT when the protective limiter is active Does not display the function of the limiter (the protective limiter is still active)
PRESET	► or MENU	PRSET1 PRSET2 PRSET3	MENU, long MENU, short	Press-and-hold: saves all settings as a preset (SAVING is shown for 3 seconds) Short Press: loads a preset (LODING is shown for 3 seconds)
AUTO	► or MENU	ON OFF		Activates the auto on/off function Deactivates the auto on/off function
AGAIN	► or MENU	ON OFF		Activates the automatic input sensitivity sensing Deactivates the automatic input sensitivity sensing
DEFAULT	► or MENU	OK	MENU	Resets the speaker to factory default settings (LODING is shown for 3 seconds.)

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 wheellie 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