Nubert nuPower A-2

User Manual
Connection Instructions
Technical Specifications
Warranty Information



Ambient Line

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

nubert®

Thank you very much for choosing a Nubert product!

Before setting up your system, we recommend that you read this user manual first.

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

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

The Nubert team wishes you lots of enjoyment!

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Unpacking

⚠ Attention!
When unpacking your Nubert nuPower A-2, please avoid using any sharp or pointed objects wherever possible to prevent any damage to the casing. Please keep the packaging in a safe place in case you need to transport the unit at a later date.

Contents of the package

The delivery includes the following items:
- Nubert nuPower A-2
- Mains lead, 1.5 m
- Mini-XLR to Mini-XLR trigger cable, 50 cm

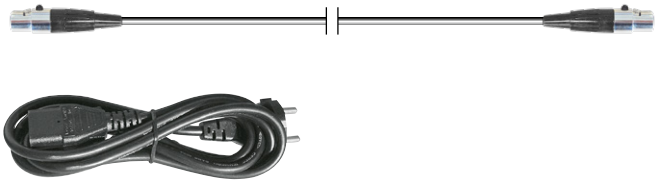


Care and cleaning tips

⚠ Attention!
Improper use of the device may result in damage.
- Always unplug the amplifier from the mains before cleaning it!
- Before putting the appliance back into operation, ensure that all connections are correct, that there are no short circuits and that the appliance is completely dry.
- Under no circumstances should you use harsh cleaning agents or solvents such as petrol, methylated spirits or similar substances!

Casing / Base elements

Dirt can be easily removed using a small amount of glass cleaner on a lint-free cotton cloth.
We advise against using microfibre cloths, as these can cause minor scratches to the surface.



Line-up

Place the nuPower A-2 on a level, stable surface. Ensure there is sufficient space around it and that there is adequate air circulation.

Risk of overload

⚠ **Attention!**

- The Nubert nuPower A-2 is capable of delivering very high currents and voltages. In extreme cases, this may therefore lead to the connected speakers being overloaded. Always watch out for signs of overload, such as distorted sound or a burning smell from the electronics!
- In any case, be sure to increase the playback volume slowly and carefully to avoid sudden, unintended power surges!

Commissioning

First, set up your nuPower at the desired location and connect it correctly to the other devices and the speakers.

⚠ **Attention!**
All connections must always be made before switching on the equipment.

1. Signal connections

First, connect the pre-amplifier using suitable cables.
Then connect the nuPower to your speakers.

2. Network connection

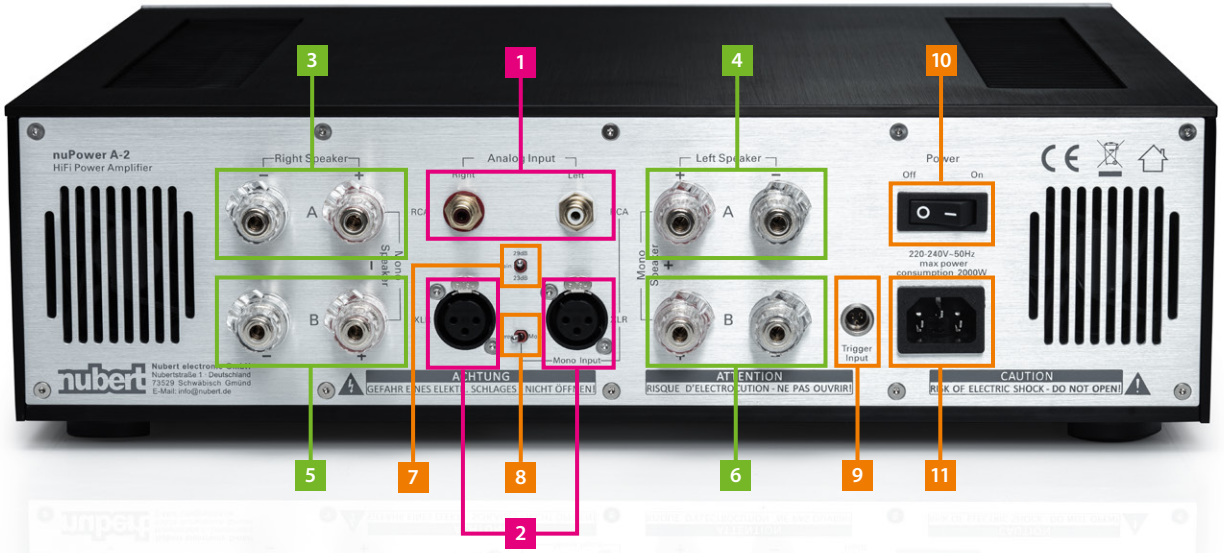
Now connect the device to the mains and switch it on using the power switch on the back.

3. Standby

Pressing the **ON button** on the front of the unit puts the nuPower into energy-saving standby mode or wakes it from this mode. Alternatively, this switching operation can also be controlled via a trigger connection from a preamplifier (see page 11).

Rear of the device, connections

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



Inputs

1. **RCA inputs**
2. **XLR inputs**

Outputs

3. **Speaker output** A, right channel
4. **Speaker output** A, left channel
5. **Speaker output** B, right channel
6. **Speaker output** B, left channel

Further

7. **Gain switch**
8. **Mono-stereo switch**
9. **Trigger connector** Mini-XLR
10. **Power switch**
11. **Power socket**

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

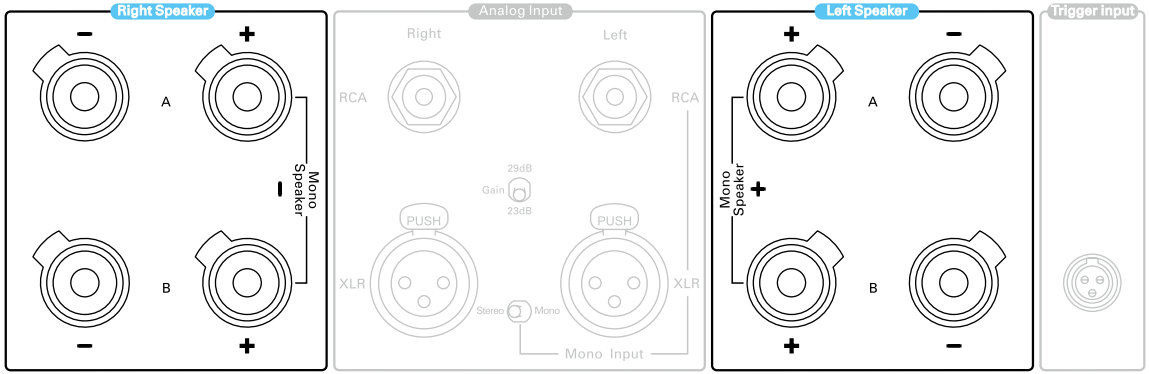
Speaker outputs

You can connect your speakers to these terminals.
There are two pairs of terminals, A and B.
The **SELECT rotary control** on the front of the unit is used to select the pair of speakers that is currently active.

⚠ Attention!
Make sure that the bare wires of the connection cables do not touch each other or any other metal parts of the housing!

When connecting the cables, it is essential that you ensure the polarity is correct. If you accidentally reverse the positive and negative terminals on one of the channels, this will not cause any technical damage, but you will end up with a completely diffuse sound with weak bass, making it impossible to localise mid-range sounds.

Please therefore ensure that your speakers are connected correctly and connect the end of the cable that you have connected to the terminal marked '+' on the speaker to the positive screw terminal on the amplifier. The same applies to the connection of the terminal marked 'Minus'. With speaker cables, a groove, a ridge or colour coding is usually used on one of the two cable wires to indicate the positive terminal.
Please refer to the user manual for your speakers for instructions on how to connect the cables.



If you are using cables without connectors fitted, the cable ends must be stripped back by approx. 10 mm and twisted together.
Ensure that no individual wires are sticking out (risk of short circuit!).
The bare end of the cable can now be inserted into the screw-on cable terminal from diagonally above. Then tighten the screw terminals sufficiently once again!



"nuBanana Rhodium"

banana plug

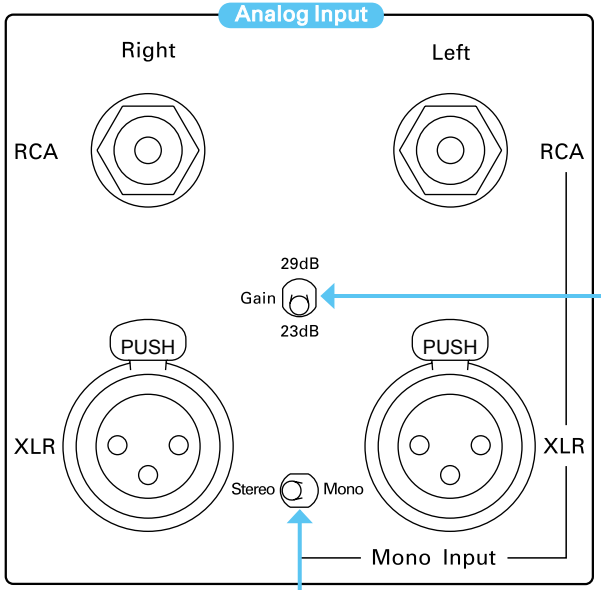
Alternatively, you can also use banana plugs from the Nubert range of accessories.
Holes have been provided in the screw terminals to make it easy to connect these plugs. These allow them to be inserted directly into the sockets. Even when using banana plugs, it is important to tighten the terminals sufficiently.

Speaker outputs – mono mode

The nuPower A-2 can be used as a mono power amplifier to maximise output power. In mono mode, two nuPower A-2 units are used to drive a pair of loudspeakers.

The toggle switch on the back of the nuPower A-2 should be set to 'Mono'. In mono mode, the analogue inputs of the left channel are used for the signal feed. To connect the loudspeaker, the positive output of the left channel must be connected to the positive input of the loudspeaker.
The negative input of the loudspeaker must be connected to the positive output of the right channel of the nuPower.

⚠ Attention!
Always ensure that the minimum connection impedance is observed!
(see page 19)



Analogue inputs

Pre-amplifiers with analogue outputs can be connected here. Balanced signals are fed in via high-quality XLR sockets. The RCA sockets are used to supply unbalanced signals.

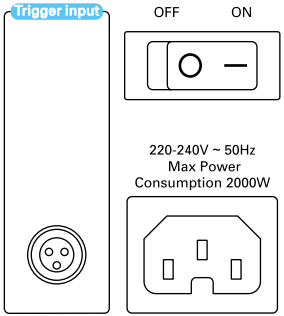
⚠ Attention!
Please ensure that the connected source device has a volume-controlled signal!
If a device without volume control is connected, this may result in excessively loud sound. The device and the speakers may be damaged.

The gain switch can be used to adjust the gain. The '23 dB' setting is usually suitable. It is particularly recommended in mono mode, as the gain is already increased by 6 dB in this mode. In rare cases (e.g. with particularly quiet sources), it may be helpful to increase the gain by setting the switch to the '29 dB' position.

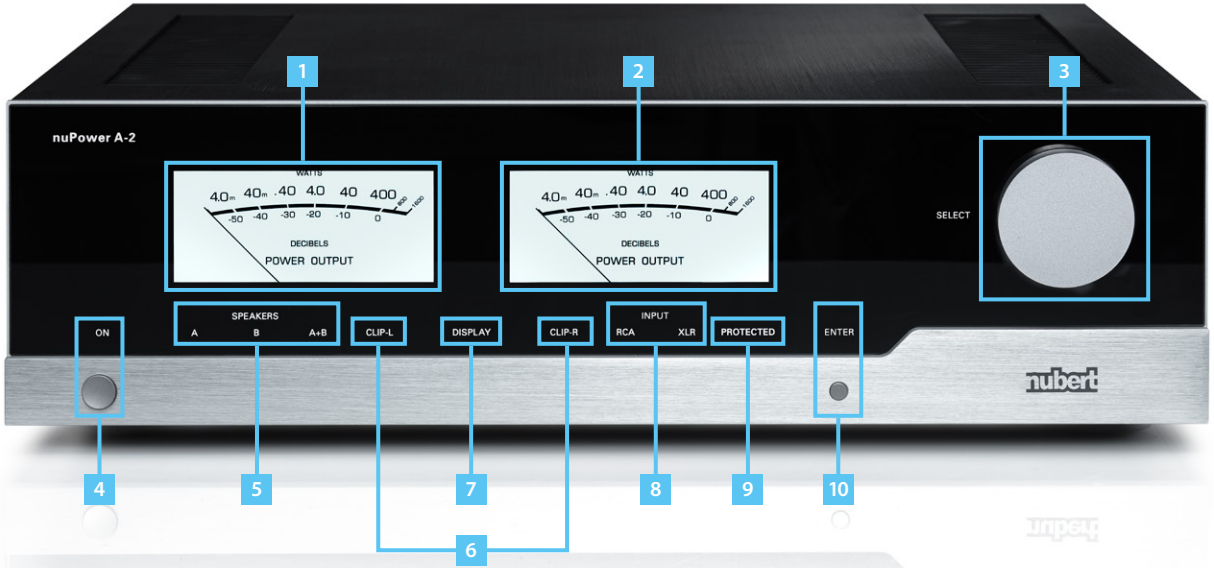
There are two toggle switches between the sockets.
If the nuPower A-2 is to be used as a mono amplifier (see also page 9), the lower toggle switch must be set to 'Mono'. In mono mode, the analogue inputs of the left channel are used for the signal feed.

Trigger input and power supply

The three-pin mini-XLR socket is used to control the nuPower's switch input. If a 12 V voltage is applied to this socket, the nuPower is activated. This allows the nuPower to be switched on and off automatically in conjunction with a suitable preamplifier (trigger function). Next to this are the mains connection, in the form of an IEC hot-plug connector, and the nuPower's mains switch.



Front panel, controls



1. **VU-meter links**
2. **VU-meter on the right**
3. **SELECT rotary control**
4. **ON button with status LED** Blue = On, Red = Standby
5. **Info LEDs: Speaker selection**
6. **Info LEDs: Clipping** for left and right channels – light up when the level is too high
7. **Info LED: Display Dimmer**
8. **Info LEDs: Input selection:** RCA (unbalanced) or XLR (balanced)
9. **Info LED: Protection circuit**
10. **ENTER key**

Operation

The most important functions of the power amplifier can be controlled directly via the front panel. To this end, LEDs below the VU metres display key information across three sections.

SPEAKERS

In the 'Speakers' section, you can select which speaker outputs should be active.
The following options are available:
A – activates output A only
B – activates output B only
A+B – activates both outputs simultaneously
The selected setting takes effect immediately and the corresponding option lights up red as soon as it is active.

DISPLAY

In the Display section, you can adjust the brightness of the VU meters. Here, you can dim the display as required, for example in dark environments.

INPUT

The 'Input' section is used to select the desired input signal.
The power amplifier offers two types of input:
RCA (unbalanced)
XLR (balanced)
The input selector is used to specify which signal is to be processed.

All settings for the three sections are controlled using the SELECT dial and the ENTER button.

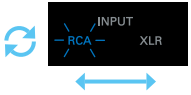
1. Select an area
Press the ENTER key to enter settings mode.
The selected section (**SPEAKERS**, **DISPLAY** or **INPUTS**) lights up more brightly
and can be changed using the SELECT rotary control.



Press Enter again to select the highlighted area.
The selected area flashes to confirm the selection. You can now adjust



2. Change your settings
Turn the SELECT knob to adjust the values to change within the selected range.



3. Confirm your entry
Press Enter to apply the setting you have chosen.

If you wish to make further adjustments, start again at step 1.

Note: The active speaker pairs and the selected input remain lit at all times.

PROTECTED

The PROTECTED status LED indicates that the power amplifier has automatically switched to ‘
’ (Protection Mode) to protect itself from potential damage.

This situation may arise in any of the following circumstances:
- Overloading of the connected speakers or the output
- Overheating of the power amplifier
- Short circuit at the speaker terminals

What should you do if the PROTECTED indicator lights up?

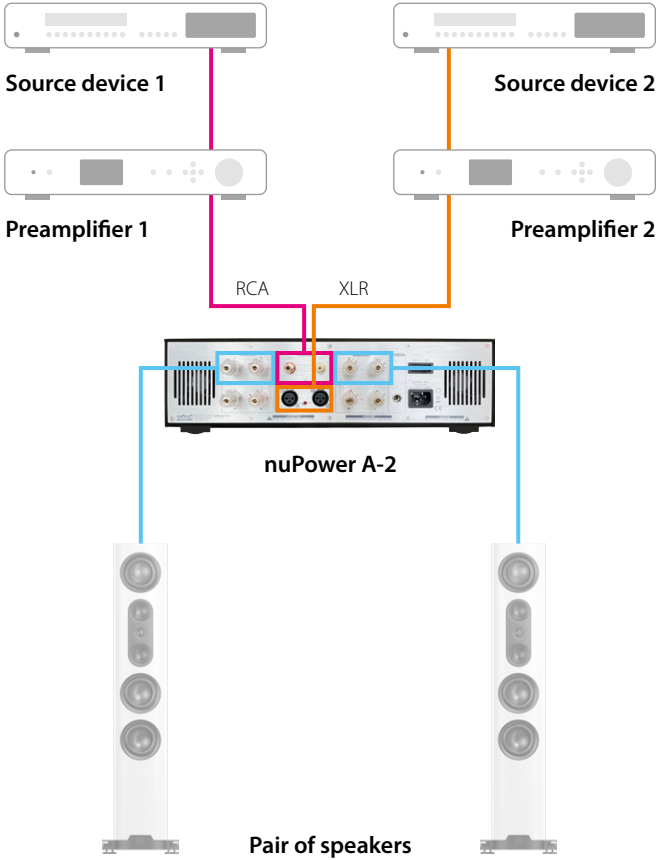
Switch off the device using the power switch at the rear, then unplug the power lead and disconnect all other cables , and check them for damage or short circuits.
Then leave the appliance to rest for 20 minutes.

If the PROTECTED light is still on when you switch it on again.
Note: even if no connections other than the mains cable have been made, please contact our customer service team.

Using two preamplifiers

Two different preamplifiers can be connected to the nuPower A-2 at the same time. To do this, connect one preamplifier to the RCA inputs and the second to the XLR inputs.
You can switch between inputs using the SELECT rotary control and the Enter button.

This scenario can be useful, for example, when different source devices and
decoders are to be used for stereo and surround sound, whilst retaining the same main speakers.

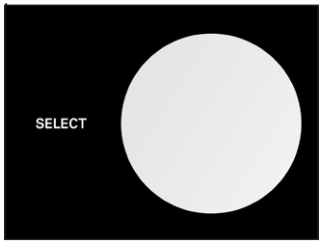


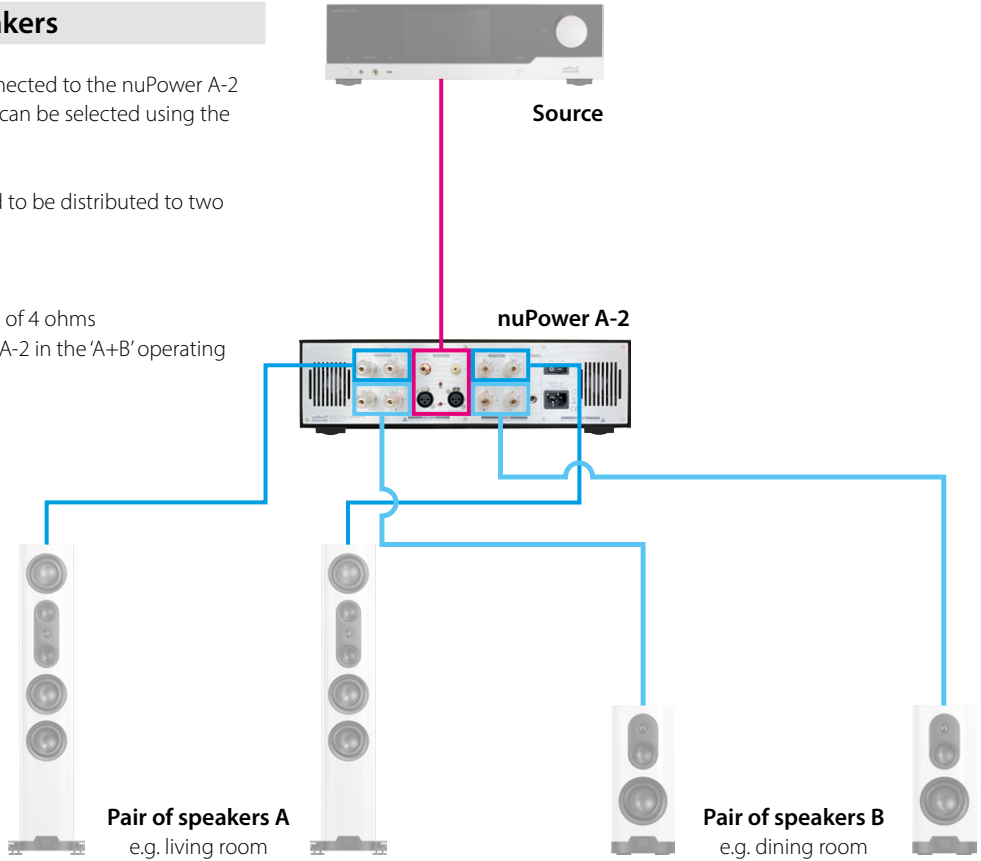
Use of two pairs of loudspeakers

Two different pairs of speakers can be connected to the nuPower A-2 at the same time. The pair you wish to use can be selected using the rotary switch on the front of the unit.

This feature also allows, for example, sound to be distributed to two different listening areas.

⚠ Attention!
Please note the minimum load impedance of 4 ohms per loudspeaker when using the nuPower A-2 in the 'A+B' operating mode





nuPower A-2		Technical Specifications
Analogue inputs		1 × XLR pair (balanced) 2 × stereo RCA (unbalanced)
Analogue outputs		4 × pair of stereo speaker terminals (banana sockets, screw terminals for cables up to 6 mm²)
Trigger		1 × 12 volts, 100 mA (Mini-XLR)
Speaker selector switch		A, B, A+B
Mains connection		220 – 240 V AC / 50 Hz Connection type: IEC connector
Mains fuse		Internal
Power consumption		< 0.5 W (standby), 2000 W (maximum), 75 W (idle)
Protection circuits		Protection against short circuits, overheating and DC voltage at the output
Dimensions	Width Height (without / with feet) Depth (without / with connectors)	43 cm 11.5 / 12.5 cm 36.5 / 39.5 cm
Weight		14.3 kg

Measurements		**Stereo mode**	**Mono mode**
DurationOutputPower (0.5% THD+N)	4 ohms 8 ohms	2 × 400 watts 2 × 220 watts	1 × 1200 watts 1 × 800 watts
Music power output (0.5% THD+N)	4 ohms 8 ohms	2 × 500 watts 2 × 275 watts	1 × 1500 watts 1 × 1000 watts
Minimum connection impedance per speaker	Speaker selector switch A or B Speaker selector switch A+B	2 ohms 4 ohms	4 ohms 8 ohms
Signal-to-noise ratio	based on 400 watts / 4 ohms based on 4 watts / 4 ohms	114 dBA 94 dBA	113 dBA 88 dBA
THD+N	at 5 watts / 4 ohms at 50 watts / 4 ohms	0.003% 0.004%	0.004% 0.006%
Residual current	(A-weighted)	80 µV rms	160 µV rms
Frequency response Input impedance Gain	(+0 / -0.5 dB) (balanced / unbalanced)	10 – 80.000 Hz 10 kOhm / 22 kOhm 23 dB / 29 dB	10 – 80.000 Hz 10 kOhm / 22 kOhm 29 dB / 35 dB
Offset		< 5 mV	< 10 mV

Warranty Terms and Conditions

Your supplier and contractual partner:
Nubert electronic GmbH · Nubertstr. 1 · 73529 Schwäbisch Gmünd · Germany
Court of registration: Ulm Local Court, HRB 700296
Telephone: +49 (0)7171 8712-0 · Email: info@nubert.de
VAT No.: DE 16758584 · WEEE Reg. No. DE 48888173

If you have any queries or would like personalised advice, please call our expert helpline: +49 (0)7171 8712-0
The helpline team is available from:
Monday to Friday from 10 – 14.00 and 15 – 18.00.

1.1. Nubert (Nubert electronic GmbH, Nubertstr. 1, 73529 Schwäbisch Gmünd) grants the purchaser a special manufacturer's warranty in accordance with the terms and conditions set out below for certain Nubert-branded products, where we specify this in the quotations or in the relevant product documentation, or where these warranty terms are enclosed with the delivery.
Products from other manufacturers and brands that you purchase from Nubert are covered by statutory warranty rights. Where other manufacturers offer their own guarantees, claims arising from these guarantees may only be made against those manufacturers, and not against Nubert.

1.2. The buyer's statutory rights, in particular the statutory right of withdrawal and the statutory right to claim for defects, remain in full force alongside the guarantee and are available to the buyer in their entirety. The buyer may, of course, exercise their statutory rights free of charge; these rights are not restricted by the guarantee.

1.3. The warranty period for Nubert passive speakers (without a built-in amplifier) is 5 years from the date of delivery to the original purchaser. This applies without restriction for the first two years.
After the second year has elapsed, the warranty is limited to the functionality of the chassis, together with the electrical connections and electronic components (crossover). In particular, visual changes to surfaces (e.g. on foiled, painted, veneered, anodised or plastic surfaces) are no longer covered by the warranty once the second year has elapsed.

1.4. The warranty period for Nubert active speakers (with a built-in amplifier, e.e.g. active speakers and subwoofers), as well as electronic devices bearing the Nubert brand (e.e.g. amplifiers and active tuning modules), is 2 years from the date of delivery to the original purchaser.

1.5. The warranty period for Nubert accessories (e.g. cables, cable accessories, Speaker Stands, brackets, speaker castors, speaker covers) is 5 years from the date of delivery to the original purchaser. For the first two years, this applies without restriction.
After the second year has elapsed, the warranty is limited to the functionality of the accessories. In particular, visual changes to surfaces (e.g. painted, veneered, anodised or metal, fabric or plastic surfaces) are no longer covered by the warranty once the second year has elapsed.

1.6. The original purchaser's proof of purchase serves as the warranty certificate.

1.7. The warranty covers, and is limited to, the free repair or replacement of the defective part in the event of a material defect in the goods (e. e.g. material or manufacturing faults) or a replacement delivery (on a like-for-like basis against return of the defective product), at our discretion. Nubert shall also bear the costs of sending the affected product to and from us, in each case from and to the kerbside, in the event of valid warranty claims, provided that the goods are located within the European Union and the dispatch has been agreed with Nubert in advance.
Any services beyond this may be provided as a gesture of goodwill at Nubert's sole discretion. It is presumed that any material defect which becomes apparent within the warranty period was already present at the time of the transfer of risk. Replaced parts or products returned as part of a replacement delivery become the property of Nubert. Warranty services neither extend the warranty period nor trigger the start of a new warranty period. The warranty period for fitted replacement parts ends at the same time as the warranty period for the entire appliance. The undertaking to provide or the performance of warranty services is made without acknowledging any obligation to provide services under statutory warranty law.

2. A warranty claim shall be void in the event of

- any attempts at repair of any kind that have not been agreed with Nubert in advance
- inappropriate operating conditions or storage conditions (e.. damage caused by moisture or particularly high or low temperatures)
- inappropriate transport packaging (the original transport packaging, used in its entirety, provides sufficient protection)
- improper mechanical impact on the goods (e.g. damage caused by dropping, scratches and damage to housings, displays and remote controls, switches, sockets or antennas occurring after delivery), in particular to speaker drivers (e.g. dented diaphragms/dome tweeters)
- improper operation or handling, incorrect installation (e.g. of switches, aerials, covers, feet or brackets) or incorrect connection (e.g. operation with faulty or unsuitable amplifiers or other source devices with DC voltage or an unusually high level of hum at the source device output), as well as the application of amplifier power to loudspeakers outside their specifications (e.g. the amplifier's sinusoidal power output is far in excess of the loudspeaker's rated power handling capacity)
- custom-made cables.

3. Do not remove any speaker drivers or other components from our equipment and speakers, and do not send in any such parts before you have contacted Nubert Service and agreed on this course of action.

4. In the event of a warranty claim, the faulty product must be packed – preferably in its original box – together with a copy of the proof of purchase and a detailed description of the fault, and sent to us (see below for our address). We recommend that you arrange the return with us in order to receive a free return label. Returning the goods within the warranty period is sufficient to meet the deadline.

5. Please address all correspondence, any returns and suggestions to:
Nubert electronic GmbH
Nubertstr. 1
73529 Schwäbisch Gmünd
Telephone: +49 (0)7171 8712-0

As at 12 June 2026

Subject to technical changes, errors and misprints
You can find our General Terms and Conditions (GTC) on our website: www.nubert.de/agb