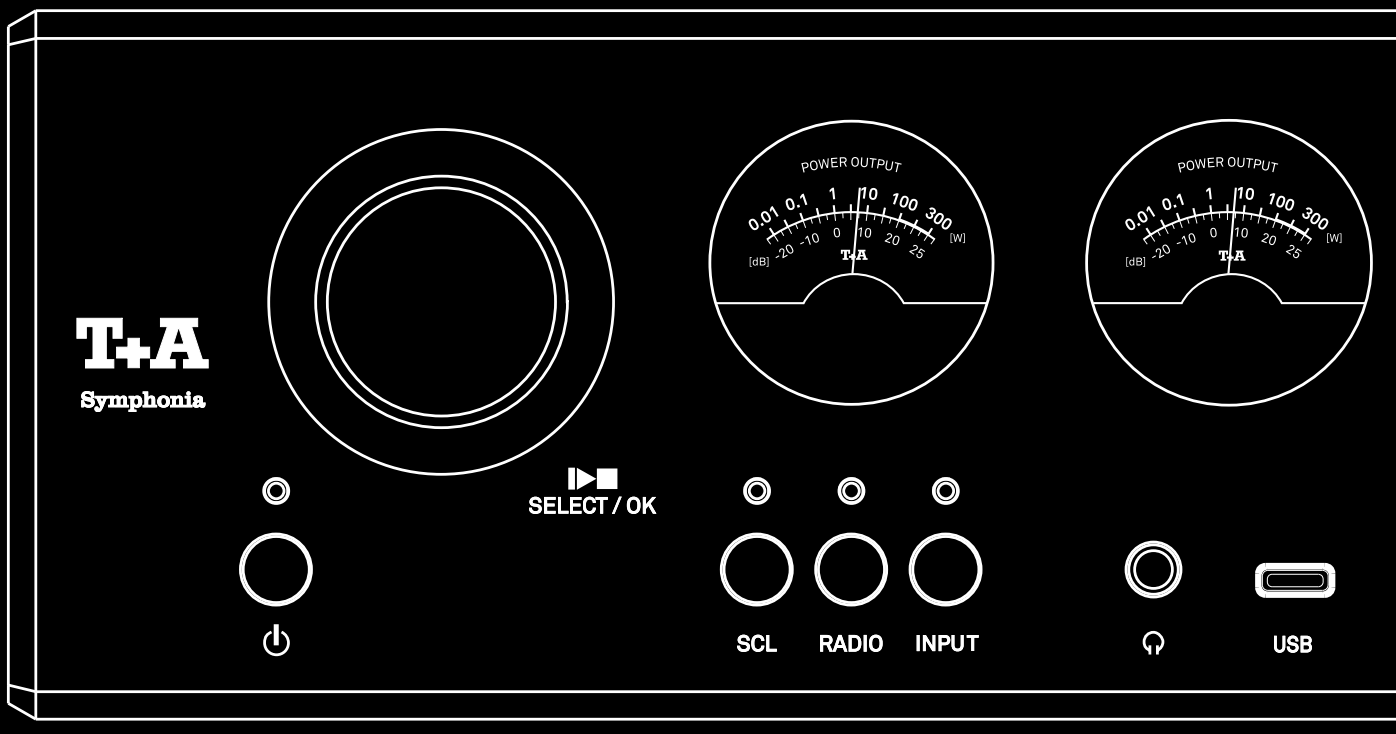
T+A
Engineering Emotion

# SYMPHONIA

## STREAMING INTEGRATED AMPLIFIER




USER MANUAL

For nearly 50 Years, T+A has stood for uncompromising engineering, pioneering audio technology, and timeless elegance.
We do not create products for the mass market- we craft sonic masterpieces for those who seek the extraordinary. The Symphonia represents the next milestone in this philosophy: a tribute to the golden age of hi-fi, infused with the most advanced technologies of our time.
With its Audiophile Streaming Architecture G3, Path Separation Technology, True-1Bit Converter for pure DSD- and Dual Differential Converters for pure PCM- playback, respectively, combined with state-of-the-art amplification, the Symphonia delivers a sound that does not merely impress - it moves.
Hand-assembled VU meters, an iconic design, and a retro-minimalist aluminum chassis are more than just aesthetic choices - they embody a decades-long tradition where quality and durability always come first.
This commitment to excellence begins with the careful selection of premium materials, continues through precision manufacturing by highly skilled professionals, and culminates in a fully automated, computer-controlled final inspection.

Yet our dedication extends beyond delivering exceptional sound. In our production process, we consciously avoid using environmentally and health-hazardous substances such as chlorine-based solvents and CFCs. Wherever possible, we replace plastics - particularly PVC - with metals or other non-toxic materials. These materials are not only recyclable but also provide outstanding electromagnetic shielding.
Massive all-metal housings eliminate external interferences, ensuring that your music remains untouched. Electromagnetic emissions are reduced to an absolute minimum, guaranteeing flawless playback.
This user manual is your key to an extraordinary listening experience. It will guide you step by step through the setup and operation of your Symphonia, allowing you to experience every detail exactly as the artists originally intended.

Welcome to the world of T+A Symphonia –
The Future of Retro.

T+A elektroakustik GmbH & Co KG

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# NOTES

The information in these operating instructions are marked as follows:

**⚠Caution**
Risk of injury

**Notice**
Risk of damage of objects

This symbol marks text passages that provide you with additional notes and background information and are intended to facilitate understanding

## SYMBOLS AND NOTES ON THE BACK OF THE SYMPHONIA

| | |
|---|---|
|  | This symbol marks alternating voltages (AC).<br>The AC voltage required for the device can be found on the printing at the mains input socket. Do not connect the device to other power supplies. |
|  | This symbol marks the protective earth connector (ground connection).<br>The unit is designed for operation at a protective earth conductor socket. |
|   | The device is designed to operate in altitudes up to 2000 m above sea level. |
|  | The device is designed to operate in a temperate climate.<br>The range of permissible operating temperatures is +10 ... +35°C (50 - 95 °F). |
|  | The only permissible method of disposing of this product is to take it to your local collection centre for electrical waste. |
|  | All the components we use meet the German and European safety norms and standards which are currently valid. This product complies with the EU directives.<br>The declaration of conformity can be downloaded from www.ta-hifi.com/DoC. |
|  | T+A declares conformity with the directives of the United Kingdom and the national laws derived from them by means of the symbol located on the device.<br>The declaration of conformity can be viewed at www.ta-hifi.com/DoC if required. |
|  | Attention! Please refer to the important safety information in this manual. |

# LICENCE NOTICES

The Spotify Software is subject to third party licenses found here: www.spotify.com/connect/third-party-licenses.

Use of the Works with Apple AirPlay badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.
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This product contains software in form of object code that is partially based on free software under different licenses, especially the GNU General Public License. You can find details on this in the License Information which you should have received with this product.
If you have not received a copy of the GNU General Public License, please see http://www.gnu.org/licenses/.
For a period of three years after last distribution of this product or its firmware, T+A offer the right to any third party to obtain a complete machine-readable copy of the corresponding source code on physical storage medium (DVD-ROM or USB stick) for a charge of 20€. To obtain such copy of the source code, please write to the following address including information about product model and firmware version: T+A elektroakustik, Planckstr. 9-11, 32052 Herford, Germany.
The GPL license and further information about Licenses can be found on the internet under this link:

https://www.ta-hifi.de/support/license-information-g3/

# SAFETY NOTES

For your own safety please consider it essential to read these operating instructions right through, and observe in particular the notes regarding setting up, operation and safety.

The operation instructions, the connection guidance and the safety notes are for your own good - please read them carefully and observe them at all times.
The operating instructions are an integral part of this device. If you ever transfer the product to a new owner please be sure to pass them on to the purchaser to guard against incorrect operation and possible hazards.

The device is intended to be connected to mains outlets with protective earth connector. Please connect it only with the mains cable supplied to properly installed mains outlets with protective earth connector.
The power supply required for this unit is printed on the mains supply socket. The unit must never be connected to a power supply which does not meet these specifications.

This device is connected to the power supply as long as the power cord is connected.
Even if the device is switched off and the status indicators are dark, the device still carries mains voltage inside. To disconnect the device completely from mains power supply, the mains plugs must be withdrawn from the wall socket. Please make sure that the mains plugs are easily accessible. Even when the unit is in standby mode, it has a low power consumption. If the unit is not to be used for a long period disconnect it from the mains supply at the wall socket.






The device is designed to operate in a temperate climate and altitudes up to 2000 m above sea level. The range of permissible operating temperatures is +10 ... +35°C (50-95 °F). This device is designed exclusively for reproducing sound and/or pictures in the domestic environment. It is to be used in a dry indoor room which meets all the recommendations stated in these instructions.
Where the equipment is to be used for other purposes, especially in the medical field or any field in which safety is an issue, it is essential to establish the unit's suitability for this purpose with the manufacturer, and to obtain prior written approval for this usage.

If the unit gets very cold (e. g. when being transported), condensation may form inside it. Please do not switch it on until it has had plenty of time to warm up to room temperature, so that any condensation evaporates completely.

Before placing the unit on sensitive lacquer or wood surfaces please check the compatibility of the surface and the unit's feet on a non-visible point and if necessary use an underlay. We recommend a surface of stone, glass, metal or the like.

Please consider the weight of the device. Never place the device on an unstable surface; the machine could fall off, causing serious or even fatal injury. Many injuries, especially to children, can be avoided if the following simple safety precautions are observed:

- Use only such items of furniture which can safely bear the weight of the device.
- Ensure that the device does not project beyond the edges of the supporting furniture.
- Do not place the device on tall furniture (e.g. bookshelves) without securely anchoring both items, i.e. furniture and device.
- Explain to children the hazards involved in climbing on furniture to reach the device or its controls.

The unit should be set up in a well ventilated dry site, out of direct sunlight and away from radiators. The unit must not be located close to heat producing objects or devices, or anything which is heat sensitive or highly flammable.

The ventilation openings must not be covered or closed. If the system components are to be stacked then the device must be the top unit. Do not place any object on the top cover. The device is not designed to be operated on a soft surface (such as bedding, pillows, etc.).

When installing the unit on a shelf or in a cupboard it is essential to provide an adequate flow of cooling air, to ensure that the heat produced by the unit is dissipated effectively. Any heat build up will shorten the life of the unit and could be a source of danger.
Be sure to leave free space of 10 cm (3.94 inch) around the unit for ventilation.

Liquid or particles must never be allowed to get inside the unit through the ventilation slots. Mains voltage is present inside the unit, and any electric shock could cause serious injury or death. Never exert undue force on mains connectors.
Protect the unit from drips and splashes of water; never place flower vases or fluid containers on the unit. Do not place naked flame sources, such as candle lights on the device.

Disconnect the mains plug at the wall socket before cleaning the case.
The surfaces of the case should be wiped clean with a soft, dry cloth only.
Never use solvent-based or abrasive cleaners!
Before switching the unit on again, check that there are no short-circuits at the connections, and that all cables are plugged in correctly.

If the device has been in storage, or has not been used for a protracted period (> two years), it is essential to have it checked by a specialist technician before re-use.



The terminals (marked with the ⚠-symbol) can carry high voltages.

Always avoid touching terminals and sockets and the conductors of cables connected to them. Unless ready-made cables are used, all cables connected to these terminals and sockets must always be deployed by a trained person.

CE

In its original condition the unit meets all currently valid European regulations. It is approved for use as stipulated within the EC.
By attaching the CE symbol to the unit T+A declares its conformity the EC directives and the national laws based on those directives. The declaration of conformity can be downloaded from www.ta-hifi.com/DoC.
The original, unaltered factory serial number must be present on the outside of the unit and must be clearly legible! The serial number is a constituent part of our conformity declaration and therefore of the approval for operation of the device. The serial numbers on the unit and in the original T+A documentation supplied with it (in particular the inspection and guarantee certificates), must not be removed or modified, and must correspond.
Infringing any of these conditions invalidates T+A conformity and approval, and the unit may not be operated within the EC. Improper use of the equipment makes the user liable to penalty under current EC and national laws.
Any modifications or repairs to the unit, or any other intervention by a workshop or other third party not authorised by T+A, invalidates the approval and operational permit for the equipment.
Only genuine T+A accessories may be connected to the unit, or such auxiliary devices which are themselves approved and fulfil all currently valid legal requirements.



The only permissible method of disposing of this product is to take it to your local collection centre for electrical waste.

*Registration according to the EU directive "Waste Electrical and Electronic Equipment" WEEE-Reg.-No.: DE* ***72473830W***

The case should only be opened by a qualified specialist technician. Repairs and fuse replacements should be entrusted to an authorised T+A specialist workshop. With the exception of the connections and measures described in these instructions, no work of any kind may be carried out on the device by unqualified persons.
If the unit is damaged, or if you suspect that it is not functioning correctly, immediately disconnect the mains plug at the wall socket, and ask an authorised T+A specialist workshop to check it.

The unit may be damaged by excess voltage in the power supply, the mains circuit or in aerial systems, as may occur during thunderstorms (lightning strikes) or due to static discharges.
Special power supply units and excess voltage protectors such as the T+A ‚Power Bar' mains distribution panel offer some degree of protection from damage to equipment due to the hazards described above. However, if you require absolute security from damage due to excess voltage, the only solution is to disconnect the unit from the mains power supply and any aerial systems.
To avoid the risk of damage by overvoltages we recommend to disconnect all cables from this device and your HiFi system during thunderstorms.
All mains power supply and aerial systems to which the unit is connected must meet all applicable safety regulations and must be installed by an approved electrical installer.

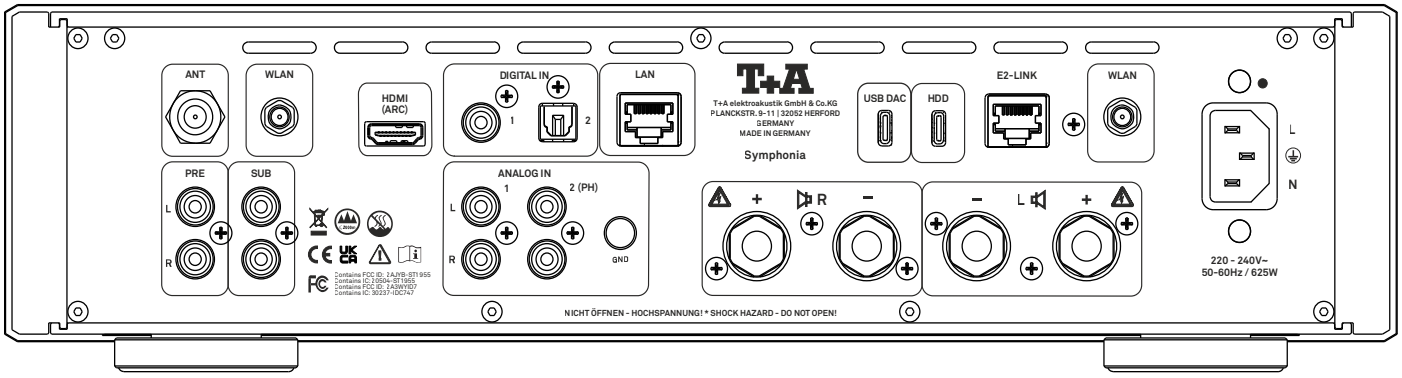
The device is not designed for use by children. The device must not be operated unsupervised. Make sure that it is out of reach of children.

Batteries should not be exposed to excessive heat like sunshine, fire or the like.

Very loud continuous listening to programme material via earphones, headphones and loudspeakers can lead to permanent loss of hearing. Prevent health risks and avoid permanent hearing at high volume.

If the device has to be stored, place it in its original packaging and store it in a dry, frost-free location.
Storage temperature range 0...40 °C (50-104 °F)

# CONNECTIONS




## ANALOG INPUTS / OUTPUT

| ANALOG IN | |
|---|---|
| IN 1<br>IN 2 (PH) | Universal pre-amplifier line inputs for connecting any stereo audio or TV equipment fitted with asymmetrical RCA (Cinch) outputs. |

*The ANALOG IN 2 (PH) input serves as an input for a turntable.*
*The internal phono preamplifier can be activated in the source settings within the system settings.*

| ANALOG OUT | |
|---|---|
| PRE OUT | The pre-output of the Symphonia provides analog stereo output signals with variable level. It is designed for operation with active loudspeakers, power amplifiers or for similar applications. |
| SUB | Socket for connecting a subwoofer |

## CONTROL

| | |
|---|---|
| E2LINK | Control output sockets for the T+A E2Link - System, e. g. for connecting an additional E2 Link device. The sockets are equivalent. |

## USB STORAGE MEDIA

| | |
|---|---|
| HDD<br>(USB HOST) | Socket for a USB memory stick or external hard discs<br>The storage medium can be formatted with the FAT16, FAT32, extFAT, NTFS, ext2, ext3 or ext4 file system. |

*The USB storage medium can be powered directly via the USB port provided that its current drain is in accordance with the USB norm. Normalised 2.5" USB hard discs can be connected directly, i.e. without a separate mains PSU.*

## NETWORK CONNECTION

| | |
|---|---|
| LAN | Socket for connection to a wired LAN (Ethernet) home network (Router) |
| WLAN | Input sockets for the two supplied WLAN antennas. For the best possible reception, both antennas should always be connected. |

*If no wired LAN connection is found, the Symphonia will automatically activate its WLAN module and it will try to get access to your WLAN network. If both a WLAN and a LAN connection are established, the LAN connection is generally preferred.*

## USB AUDIO INPUT

| | |
|---|---|
| USB DAC<br>(USB device) | Socket for connecting a PC or MAC computer.<br>At this input the Symphonia accepts digital PCM stereo signals with sampling rates in the range 44.1 to 768 Hz, and digital DSD stereo signals from DSD64 to DSD512 (DSD 256 and DSD512 only with a Windows PC). |

*If you wish the Symphonia to play audio files from a Windows PC connected to it, you must first install the appropriate drivers on the computer. No drivers are required if you are using a Linux or MAC computer (see chapter „USB DAC Playback from a computer“ on page 42).*

## DIGITAL INPUTS

| | |
|---|---|
| DIGITAL IN 1 | Inputs for digital source devices with co-axial (RCA) output |
| DIGITAL IN 2 | Digital coaxial output for connecting an external recording device via coax cable.<br>*Sampling rates from 32 kHz up to 197 kHz are supported.* |

## HDMI/ARC INPUTS

| | |
|---|---|
| HDMI (ARC) | HDMI input for connecting a Blu-ray player, TV or the like |

*If your TV set features the ARC function, the TV sound can be played back via the Symphonia.*

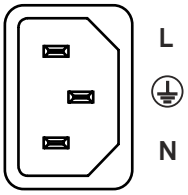
## RADIO ANTENNA

| | |
|---|---|
| RADIO ANT | The Symphonia features a 75 Ohm aerial input FM ANT, which is suitable both for a normal domestic aerial and a cable connection. For first-class reception quality a high-performance, professionally installed aerial system is indispensable. |

## LOUDSPEAKER

| | |
|---|---|
| R L | Speaker terminals for connecting stereo speakers |

## POWER SUPPLY




This socket is for mains connection.
For correct connection refer to the sections „Installation and connection“ on page 13 and „Safety notes“ on page 9.

# INSTALLATION AND CONNECTION

## INSTALLATION

Carefully unpack the device and store the original packaging carefully. The carton and packing material are specially designed for this device and will be a safe container during any later transports. Set up the device at a proper place. Please observe all notes on connection and set-up in the chapter „Safety notes“ on page 9.

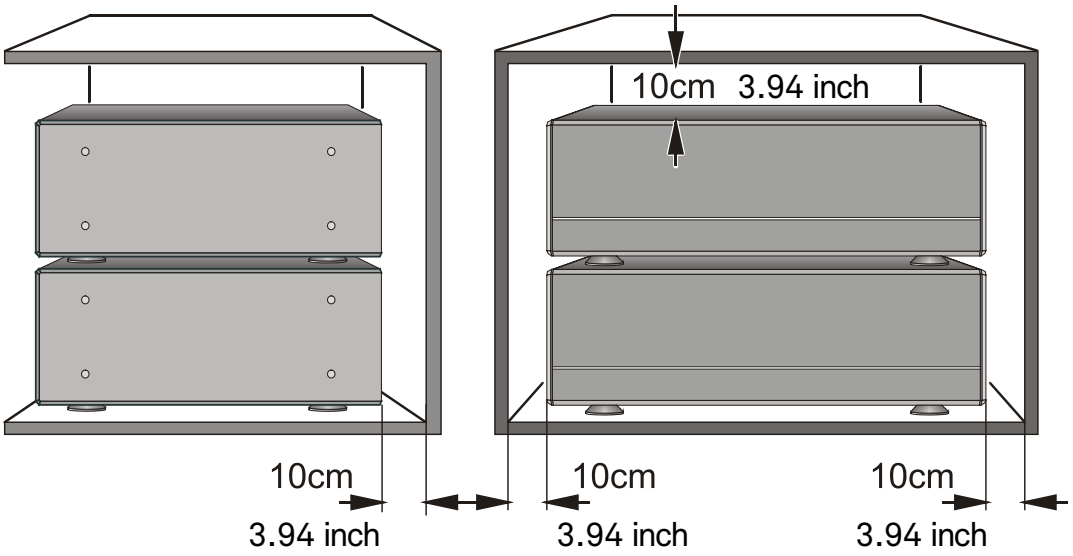
**⚠Caution** *Risk of injury from falling device*

*To avoid injuries,*

- *never place the device on an unstable surface*
- *only use furniture that can securely support the device*
- *ensure the device does not extend beyond the edges of the supporting furniture*
- *do not place the device on high furniture (e.g. bookshelves) unless both the furniture and the device are securely anchored*
- *educate children about the dangers of climbing on furniture to reach the device or its controls*

**Notice** *To avoid damage and colour changes,*

- *ensure adequate air circulation when installing the device in shelves or cabinets*
- *make sure that the device‘s heat can be dissipated. There must be a clearance of at least 10 cm (3.94 inch) around the device to allow for heat dissipation*
- *select an installation site that is protected from direct sunlight*




If the system components are to be stacked then the amplifier should be the top unit. Do not place any object on the top cover. The unit must be set up in such a way that none of the connections can be touched directly (especially by children). Be sure to observe the notes and information mentioned above.

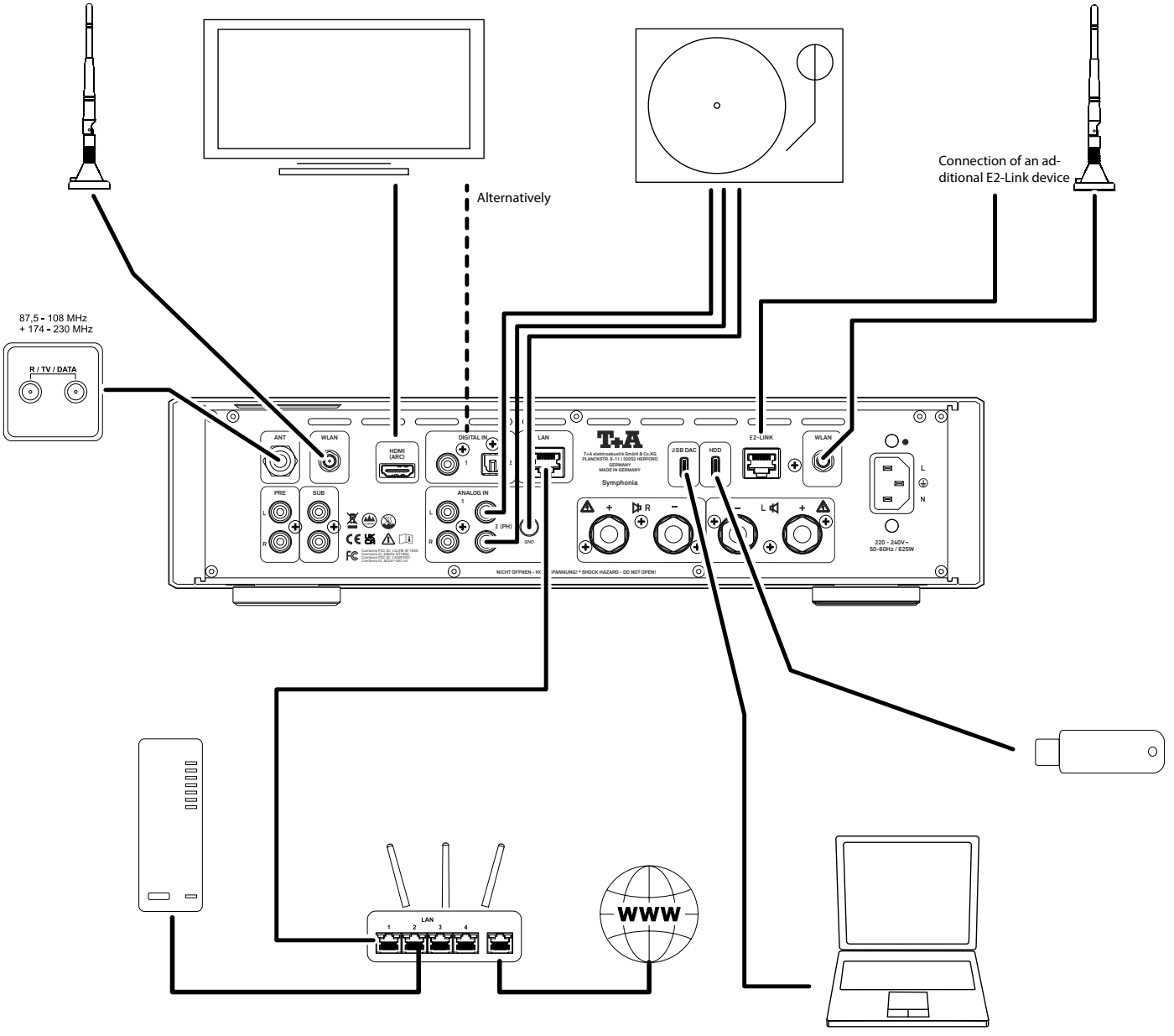
# CONNECTION

To use the Symphonia with all its functions and sources, first you have to make some important connections and/or connect antennas.
The necessary connections are described below:

⚠ ***Do not connect the Symphonia and the other components to the power supply until all the necessary connections have been established.***

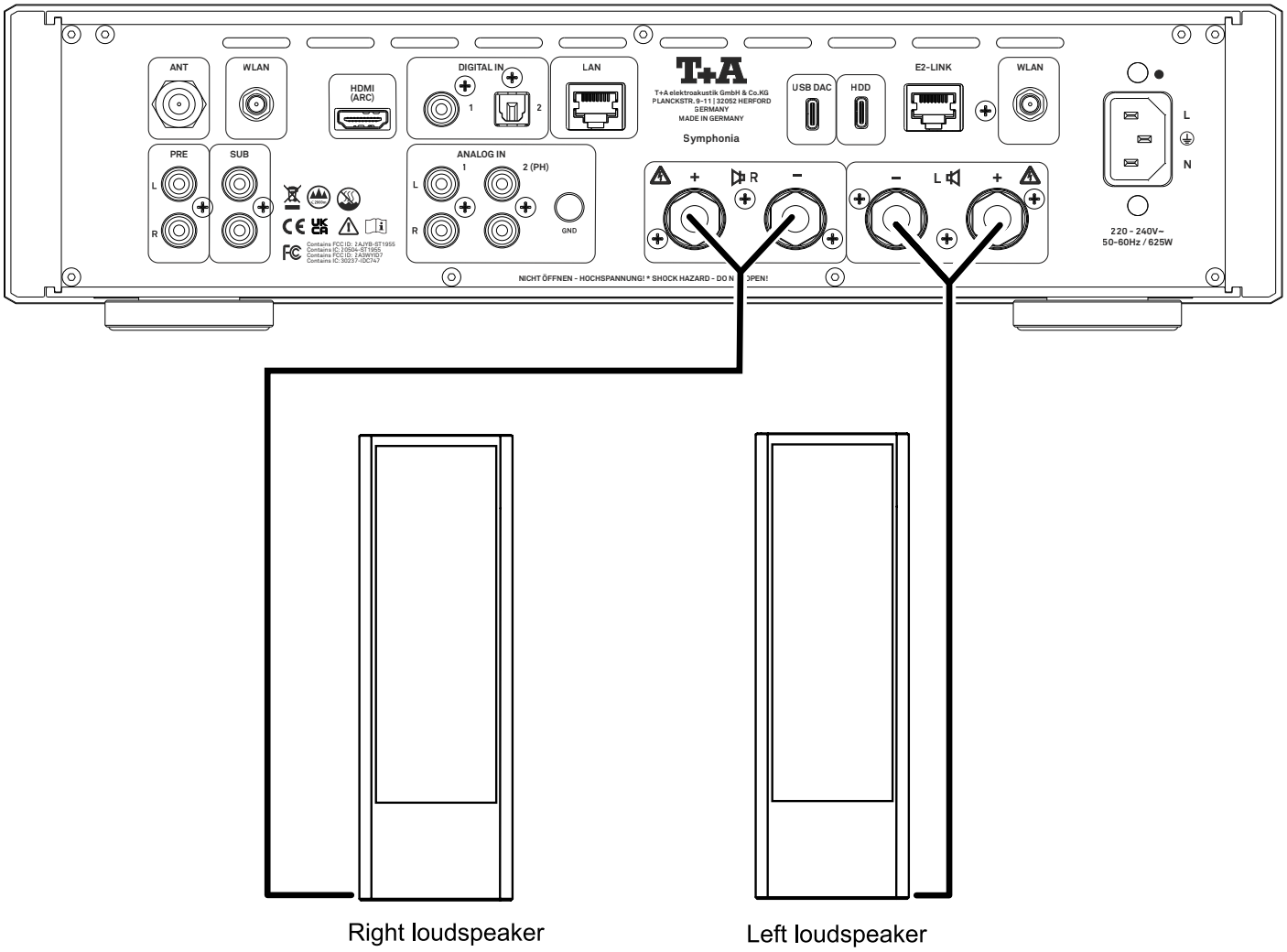
The terminals (marked with the ⚠-symbol) can carry high voltages.
Always avoid touching terminals and sockets and the conductors of cables connected to them.
Unless ready-made cables are used, all cables connected to these terminals and sockets must always be deployed by a trained person.

# CONNECTION OF SOURCE DEVICES

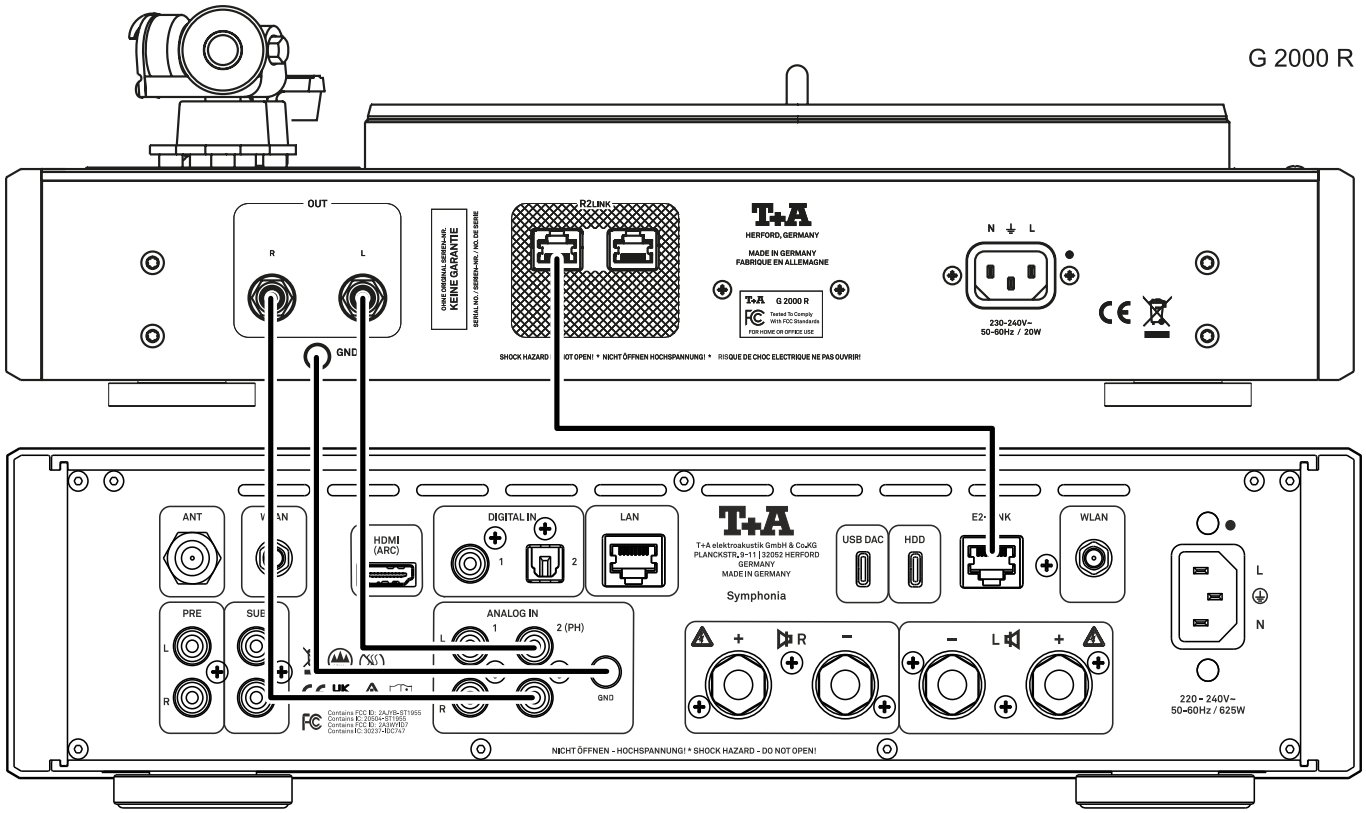


# CONNECTION OF LOUDSPEAKERS

Symphonia



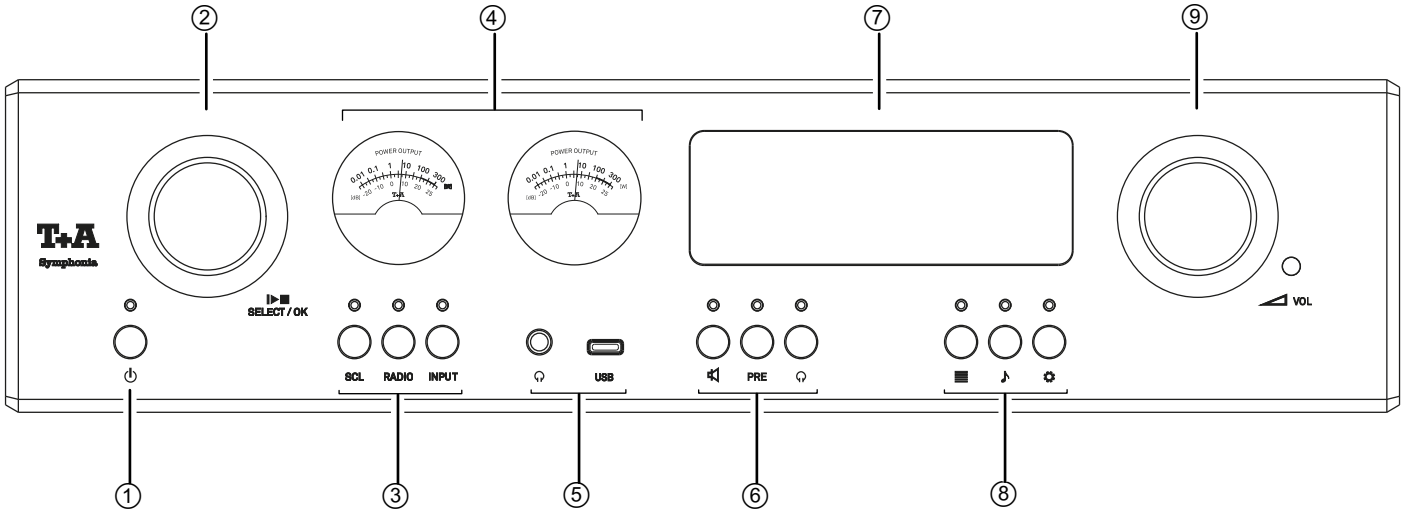
# CONNECTION OF TURNTABLE G 2000 R




Smphonia

ⓘ The G2000 R must have an MM (moving magnet) cartridge system or a built-in MC (moving coil) phono module.

# CONTROLS AND FUNCTIONS




## ① ON- / OFF SWITCH

| | |
|---|---|
| ⏻ | Pressing this button briefly switches the device on and off. When the unit is switched on, the indicator LED above the button lights up.<br>Please note the hints in the chapter „Automatic power down function“ on page 48 |

ⓘ *The indicator LED above the ⏻ button remains dimly lit even in comfort stand-by mode, to indicate that the Symphonia is ready for use.*

## ② NAVIGATION AND CONTROL / SELECT / OK

| | |
|---|---|
| Control | Rotating this control selects a track for playback; the selected track then appears on the screen. As soon as the desired track number lights up, the track can be started by pressing the incremental control. |
| Navigation | The rotary knob (hereinafter referred to as the SELECT knob) is also used for functions such as navigating within lists and controlling menus. |

## ③ SOURCE SELECTION

| | |
|---|---|
| SCL | Selects the SCL category (**S**treaming **CL**ient) which offers access to music servers, streaming services or similar. Select the desired source from the displayed list by turning the SELECT knob. The selected source will be activated by briefly pressing the SELECT knob. |
| RADIO | Displays the list of radio sources: FM RADIO, DAB RADIO and Internetradio. Select the desired source from the displayed list by turning the SELECT knob. The selected source will be activated by briefly pressing the SELECT knob. |
| INPUT | A brief press on this button opens the list for all external sources, e.g. digital and analog inputs as well as devices connected via Bluetooth. Select the desired source from the displayed list by turning the SELECT knob. The selected source will be activated by briefly pressing the SELECT knob. |

ⓘ *The control LEDs above the buttons indicate the currently active source.*
*The same applies to the outputs listed under ⑥ and the tone and system settings listed under ⑧.*

## ④ OUTPUT METER

The purpose of the VU meter is to display and monitor the output of left and right channel. This display shows an average output level.

## ⑤ HEADPHONES AND USB FRONT SOCKETS

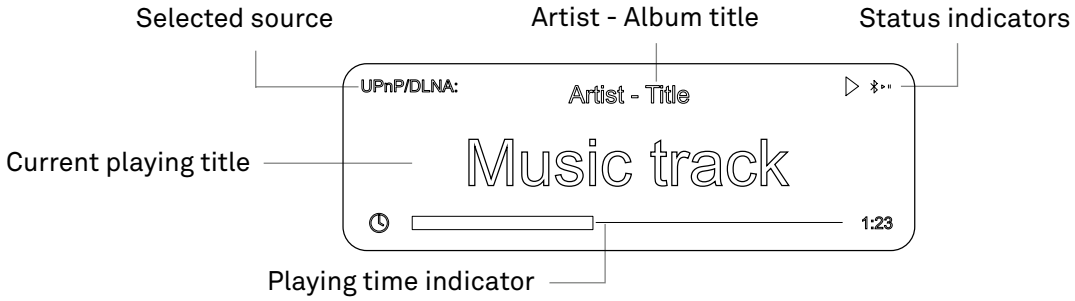
| | |
|---|---|
| Phones | Balanced Pentaconn jack socket 4.4 mm for stereo headphones with an impedance of at least 16 Ohms.<br>An adapter is available in the T+A accessories range for connecting headphones with a standard 6.3 mm jack socket. |
| USB | Socket for a USB-C memory stick or an external hard disc.<br>The storage medium can be formatted with the FAT16, FAT32, NTFS, ext2, ext3 or ext4 file system.<br>The USB storage medium can be powered via the USB socket provided that its current drain meets the USB norm (< 1.5 A). Normalised 2.5" USB hard discs can be connected directly to this socket, i.e. they require no mains PSU. |

## ⑥ OUTPUTS

| | |
|---|---|
| | The speaker outputs are turned on and off by pressing this button. |
| PRE | This button switches the preamplifier output of the Symphonia on and off.<br>If the output is switched on, the control LED lights up. |
| | By pressing this button, the headphone output is switched on and off. |

## ⑦ DISPLAY

The graphic screen of the Symphonia displays all information regarding the status of the machine, the music track currently being played and the radio station currently tuned. The display is context-sensitive and varies according to the capabilities and facilities of the service or medium to which you are currently listening.




## ⑧ TONE AND SYSTEM SETTINGS

| | |
|---|---|
| | Displays the Favourites list created on the Symphonia |
| ♪ TONE | Pressing this button opens and closes the tone control menu<br>(see chapter „Tone configuration and converter settings“ on page 26) |
| ☼ MENU | Opens the menu for system configuration (see chapter „System configuration“ on page 24) |

## ⑨ VOLUME CONTROL

| | |
|---|---|
| VOL | This rotary knob is used to set your preferred volume in accurate 1.5 dB increments.<br>The value currently set is displayed on the screen. |

# REMOTE CONTROL

## ON / OFF SWITCH

| | |
|---|---|
| ⏻ | A brief press switches the Symphonia on and off |

## SOURCE SELECTION

To select the desired source, first press the button for selecting the source category, e.g. Radio, and then choose the desired source from the list with the up-down cursor buttons and confirm with the **OK** button

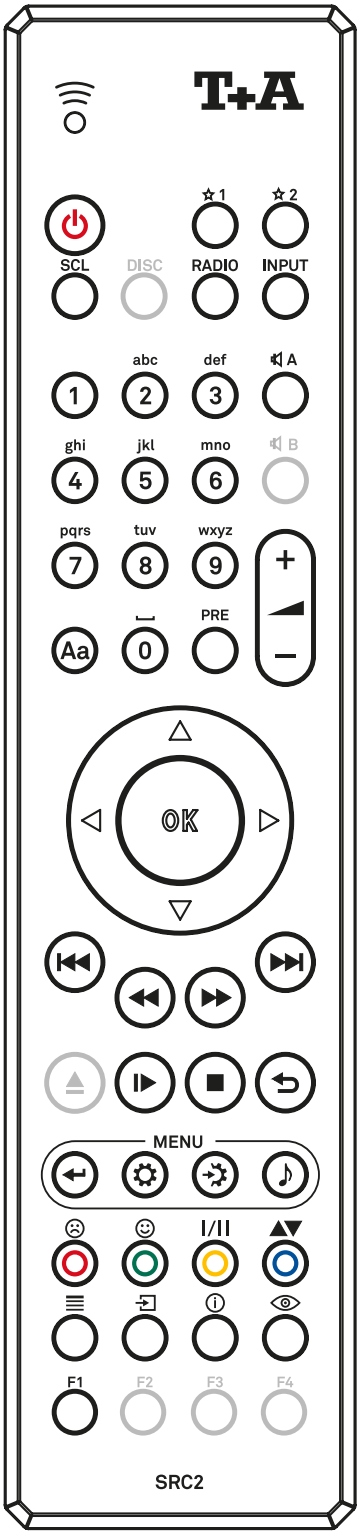
| | |
|---|---|
| SCL | Selects the SCL (**S**treaming **CL**ient) category (e.g. access to music servers, streaming services or similar) |
| RADIO | Selects the radio sources category |
| INPUT | A brief press on this button opens the category list for all external sources, e.g. as digital and analog inputs |
| ☆ 1<br>☆ 2 | On these two buttons you can save your two most preferred sources as hotkeys for a faster selection |

ⓘ NOTE
*Not required sources can be deactivated in the system settings for an even more comfortable source selection*

## MUTING

| | |
|---|---|
| PRE | Switches the preamplifier output of the Symphonia on and off |
| 🔇 A | Switches the speaker outputs on and off |

ⓘ *Keys which are greyed out are not necessary or available for operating the Symphonia*

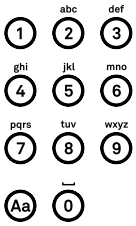



## VOLUME CONTROL



Increase / decrease volume
The volume can be increased / decreased in steps by tipping one of the volume buttons. The current volume level is displayed on the display screen. If one of the buttons is kept pressed for approx. 1 second the volume increases / decreases continuously until the button is released.

## ALPHA-NUMERIC ENTRY




To enter a source name, user data or network parameters, first activate the relevant input field with the **OK** button.

If necessary, existing entries can be deleted by pressing the **cursor left** button repeatedly.
Enter the desired character string using the alphanumeric keypad on the remote control.

Press the **OK** button to confirm the entry.
Use the **Aa** button for toggling between numbers, capitals and lower-case letters. The bottom line of the screen shows which input mode is currently selected.

**123**

1234567890

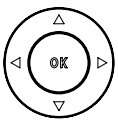
**abc**

abcdefghijklmnopqrstuvwxyz -*/^={}()[]<>.,?!:;\"´_@$%&#~ 0123456789

**ABC**

ABCDEFGHIJKLMNOPQRSTUVWXYZ -*/^={}()[]<>.,?!:;\"´_@$%&#~ 0123456789

## NAVIGATION




| |
|---|
| Cursor up selects the previous point within a list |
| Cursor down selects the next point within a list |
| Cursor left returns to the previous point / previous level or is used to change settings |
| Cursor right confirms the input / selects the entry from the list for playback |
| The **OK** button is used for confirmation during input procedures / starts playback (see „Play queues“ on page 38) |

## PLAYBACK FUNCTIONS

| | |
|---|---|
| ⏮ ⏭ | Selects the previous or next track during playback |
| ◀◀ ▶▶ | Rewind and fast forward to search for a particular passage<br>FM Radio: Manual station search |
| ⏯ | Starts playback (Play function), (see „Play queues“ on page 38)<br>During playback: halts (Pause) or resumes playback |
| ■ | Stops playback |
| ⮌ | Repeat functions (not possible with all media)<br>Brief press: Repeat Track, Repeat ALL, NORMAL<br>Long press: Mix-Mode (Shuffle) ON / OFF<br>Brief button presses in MIX mode: Mix, Repeat Track, Repeat Mix |

## SYSTEM AND TONE CONFIGURATION

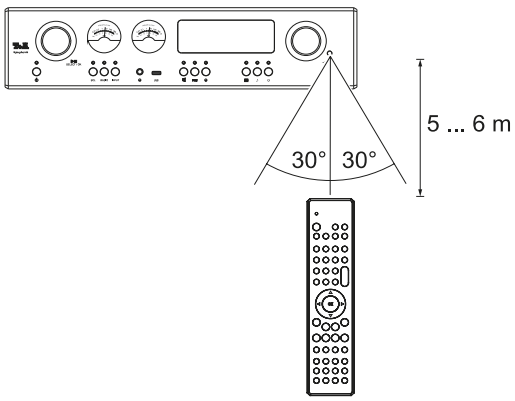
| | |
|---|---|
| ↵ | Use this button to return to the previous level in lists during menu navigation. |
| ⚙ | A brief press opens the menu for system configuration. (Refer to chapter entitled „System configuration“ on page 24) |
| ⚙→ | A brief press opens the menu for station search (Refer to chapter entitled „Radio operation“ on page 34) |
| ♪ | A brief press opens the tone configuration menu, a long press toggles the tone control on and off. (Refer to chapter entitled „Tone configuration and converter settings“ on page 26). |

## FUNCTION BUTTONS

| | |
|---|---|
| ☺ | Adds a favourite to the Presets list<br>In the system configuration menu: Activates a source. |
| ☹ | Removes a favourite from the Presets list.<br>In the system configuration menu: Deactivates a source. |
| I/II | FM Radio: Button for switching between Stereo and Mono reception.<br>The Stereo setting is constantly displayed in the screen window by a ∞ symbol.<br>The Mono setting is constantly displayed in the screen window by a ● symbol. |
| ▲▼ | Calls up the search function for SCL, USB-Media, Internetradio, Podcasts and Music services.<br>Activates the sort function within a Favourites list. |
| ≡ | Displays the Favourites list created on the Symphonia |
| ⓘ | Cycles through the various screen displays.<br>Detailed display with / Radiotext (if present) and large display with / Radiotext (if present). |
| **F1** | Displays the filter settings as part of the tone configuration menu, see „Tone configuration and converter settings“ on page 26. |

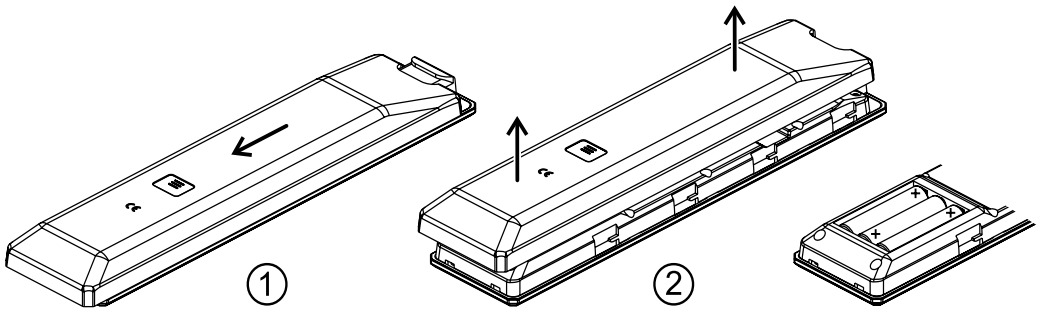
## RANGE

When operating by remote control, please hold the SRC2 in the direction of the remote control receiver (located next to the volume knob).
The range of the remote control is approx. 5-6 m (16–20 ft).
The line of sight between SRC2 and the remote control receiver must not be interrupted by obstacles.
The direct incidence of interfering light (e.g. from fluorescent and energy-saving lamps) into the receiver should be avoided at all times, as otherwise the range of the remote control can be considerably reduced.




## REPLACING THE BATTERY

To replace drained batteries, remove the entire back of the SRC2 by sliding it downwards (1) and remove it completely as shown below (2). Insert three new cells of the LR 03 (MICRO) type, taking care to maintain correct polarity as shown. Please note that you must always replace all the cells.



## IMPORTANT INFORMATION

- **If the battery is replaced improperly, there is danger of explosion. Always replace batteries by batteries of the same or an equivalent type.**
- **Keep new and used batteries well away from children.**
- **If you cannot close the battery compartment securely, cease using the product, and keep it away from children.**
- **Batteries should not be exposed to excessive heat like sunshine, fire or the like.**
- **Very low air pressure may result in explosion of the battery, or leakage of flammable liquids or gases.**
- **Protect the remote control from humidity, coldness, heat and dust.**
- *Drained batteries must never be thrown into the household waste! They should be returned to the battery vendor (specialist dealer) or your local toxic waste collection point, so that they can be recycled or disposed in a proper way. Most local authorities provide collection centres for such waste, and some provide pick-up vehicles for old batteries.*

# T+A MUSIC NAVIGATOR APP

## DOWNLOAD

Two Apps are available for controlling the sound system using the Apple iOS and Android operating systems. Please download the appropriate version from the Appstore and install it on your tablet PC or smartphone.
You will find the App under the name "TA MusicNavigator G3" in the Appstore.
Alternatively you can scan the QR code printed below.

Android Version

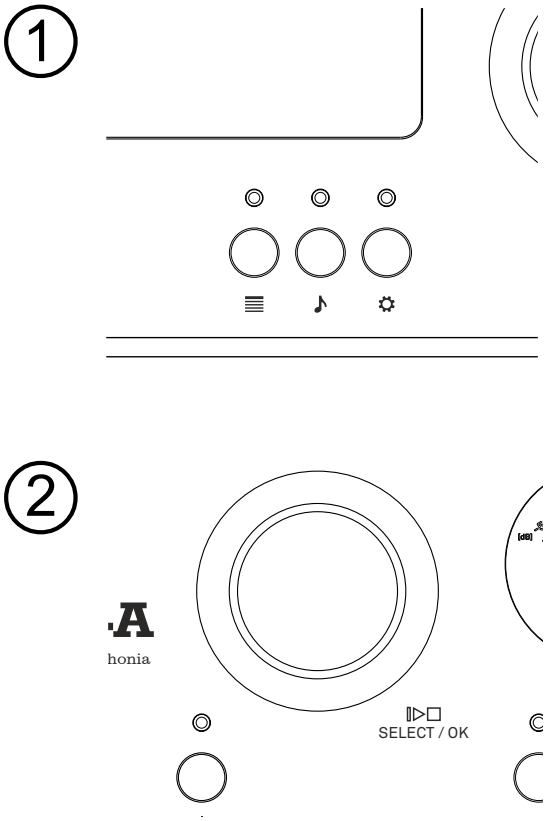
Apple iOS Version

# CONFIGURATION

## MENU OPERATION

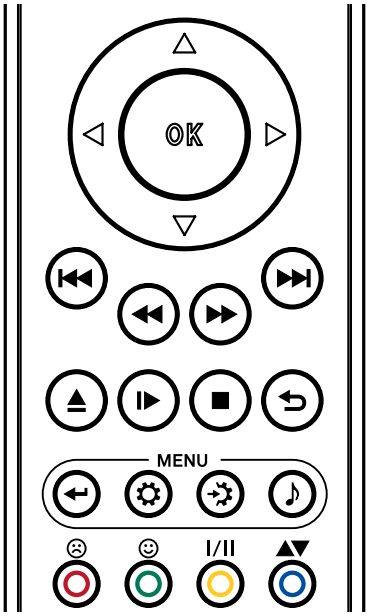
**Operation on the device**

- To call up the system configuration / tone configuration menu, press the ☼ / ♪ button ① on the front of the Symphonia.
- Select an item in the SYSTEM / TONE configuration with the SELECT knob on the left ②.
- To change a selected item, confirm by pressing the SELECT knob and then change it by turning the knob.
- To confirm the setting, press the knob again after the change.
- A long press on the SELECT knob aborts the entry.
- By pressing the SELECT knob for a long time, you can also return to the previous menu level.
- To exit the SYSTEM / TONE configuration, press the button ☼ / ♪.




**Operation using the remote control**

- A brief press on the SYSTEM ☼ / TONE ♪ button on the remote control opens the **configuration**.
- Use the **cursor up / down** buttons to select an item in the menu.
- To change a selected menu item, first press the **OK** button and then use the **cursor left / right** buttons to alter the setting.
- To confirm the setting, press the **OK** button again after changing it.
- To cancel a change, you can always abort by a brief press on the ↵ button.
- Press the ↵ button to return to the previous menu level.
- To exit the SYSTEM / TONE configuration, press the button.



**Source configuration**

Under this menu item you can disable not used sources, and assign an individual name to each external source which is in use; this name then appears in the screen displays.

You can also assign a plain text name for the display to the external sources (digital inputs and Bluetooth). When this menu item is called up with the **OK** button, a list of all sources of the Symphonia appears.

Each source is followed by the displayed plain text name or the note Enabled for an active source or Disabled if the source is deactivated.

**Disable not required sources**

Pressing the ☹ button on the SRC2 deactivates the selected source.
To activate a disabled source, press the ☺ button.

**Change the source name**

To change the plain text name, first select the corresponding source and press the **OK** button.
Delete the previous name by repeatedly pressing the **cursor left** button.
Now use the alpha-numeric keypad of the SRC2 to change the name as required, then confirm your choice with **OK**; this saves the settings for that source. Alternatively the App (T+A MusicNavigator G3) can be used to change the name.

To switch between numeric and alphanumeric input as well as upper/lower case, press the **Aa** button.

If you should wish to restore the factory default source name, erase the whole name before saving the empty field with the **cursor left** button: this action resets the display to the standard source names.

**Passthrough**

If you wish to connect a device with its own volume control (e.g. TV set or surround decoder), this menu point can be used to disable the volume control of the Symphonia for the analog inputs (Analog IN 1-2 /pass-through mode).

ⓘ *You should only select this setting if a device with its own volume control is connected to the Symphonia. Ensure that the volume of the source device is turned down to zero before connecting it to the Symphonia, otherwise the speakers connected to it may be damaged through overloading.*

**Trigger (via E2-Link)**

The Symphonia offers the option to be switched on and off remotely using a trigger signal (switching voltage, +5 ... +20V). Many external surround decoders are designed to deliver the required trigger output signal. The Symphonia can be switched on and off in parallel with the decoder, and at the same time to select the appropriate source and the correct volume level. The active Trigger function is displayed on-screen next to the selected source by means of the TRG symbol.
If you wish to use this function, activate the Trigger function and select the appropriate source.

**Volume after power on**
(Headphones volume after power on)

Here you can select whether the Symphonia switches on with the volume selected before the device was switched off, a maximum permissible volume or always the same volume.

Unchanged

If you select this setting, the device switches on with the volume set before it was switched off.

Limited

This setting allows you to define a maximum permissible volume level after power-on. The value can be set under the menu item Value.

Fixed value

If this option is activated, the Symphonia always switches on with the volume value set in the menu item Value.

| | |
|---|---|
| **Maximum volume**<br>Headphones maximum volume | With this setting, you can set a maximum permissible volume level for loudspeakers and headphones during operation. |
| **Display Brightness (Screen Brightness)** | At this point you can adjust the brightness of the integral screen to suit your personal preferences and the ambient conditions. |
| **Display mode** | This menu item offers the choice between three different display operation modes:<br>• Always on<br>• Temporary<br>• Always off (you can make adjustments in the menu after pressing ☼)<br>Selecting Temporary will switch the display is on for a short while each time the Symphonia is being operated. Shortly after operation the display will be switched off again automatically. |
| **Colour Profile** | Here you can adjust the backlighting of the VU meters and the colour of the status LEDs according to your individual preferences.<br>In the Standard profile, the values for red, blue and green are each set to 15.<br>If the User defined profile is used, the colour values can be adjusted in the range of 0-30.<br>The Standard Colours setting resets the colour settings to the factory-set value of 15.<br>To reset the colour and brightness to the default settings, select and confirm the menu item Default colours using the **OK** button or by briefly pressing the SELECT knob. |
| **Language** | In this menu item you define the language to be used for the displays on the screen of the front panel of the Symphonia.<br>The language used for data transferred to the machine, e.g. from an Internet radio station, is determined by the supplying device or the radio station; you cannot define this language on the Symphonia. |
| **Device name** | This menu point can be used to assign an individual name to the Symphonia.<br>The device then appears under this name in a home network and via Bluetooth. |
| **Energy Saver** | The Symphonia features two stand-by modes: ECO Standby with reduced stand-by current drain, and Comfort Standby with additional functions, but slightly higher current drain. You can select your preferred stand-by mode in this menu point:<br>On (ECO standby):<br>Active functions in ECO standby mode:<br>• Power-on at the device itself, automatic power-down after ninety minutes without signal or operation (only possible with certain sources)<br>Off (Comfort standby):<br>The following expanded functions are available:<br>• Unit can be switched on using the App<br>• The automatic power-down function is disabled in Comfort standby mode |
| **Network** | All network settings can be carried out at this menu point. For a detailed description on setting up a LAN or WLAN connection please also refer to the section entitled “Network configuration” on page 27. |
| **Bluetooth configuration** | Here you can make the following settings:<br>• Bluetooth Receivers<br>Displays a list of already paired devices in the vicinity<br>• Scan for Bluetooth receivers<br>Starts searching for devices in the vicinity<br>• Disconnect Bluetooth receiver<br>Disconnects currently connected Bluetooth receiver<br>See also „bluetooth transmission mode“ on page 31. |
| **Device Info** | At this menu point you will find information on the status of the installed software and the factory reset. |

**Balance**

This menu point is used to alter the balance in level between the left and right channels, e.g. to compensate for non-symmetrical loudspeaker positioning. The balance can be adjusted in increments of 1.5 dB (85 steps); the screen always displays the current value.

**Loudness**

The Symphonia is equipped with a volume-dependent tone control (LOUDNESS) circuit, which compensates for the frequency-dependent sensitivity of the human ear at very low volume levels, due to the characteristics of aural physiology.

This menu point is used to switch the loudness circuit on and off.

**Loudness level**

This menu point is used to adjust Loudness to suit the loudspeakers and the listening room.

**Tone control**

This menu point can be used to disable (by-pass) the Symphonia's tone controls.

To switch off the tone controls, select the OFF setting. When the tone controls are switched off, any adjustments you make to the following menu points BASS and TREBLE have no effect.

**Treble**

In this menu item treble can be set in the range of -6...0...+8 dB.

**Bass**

In this menu item bass can be set in the range of -6...0...+8 dB.

**PCM mode**

The Symphonia can exploit four different filter types offering different tonal properties:

- **OVS long FIR**
  is a classic FIR filter with an extremely linear frequency response
- **OVS short FIR**
  is a FIR filter with improved peak handling
- **OVS Bezier / IIR**
  is a Bezier interpolator combined with a IIR filter. This process produces a result very similar to an analogue system
- **OVS Bezier**
  is a pure Bezier interpolator – offering perfect "timing" and dynamics

For special applications, e.g. if the source device is doing the upsampling (such as a PC with Signalyst® HQ player), the upsampling in the Symphonia can be deactivated.
The following two NOS modes are available for this purpose

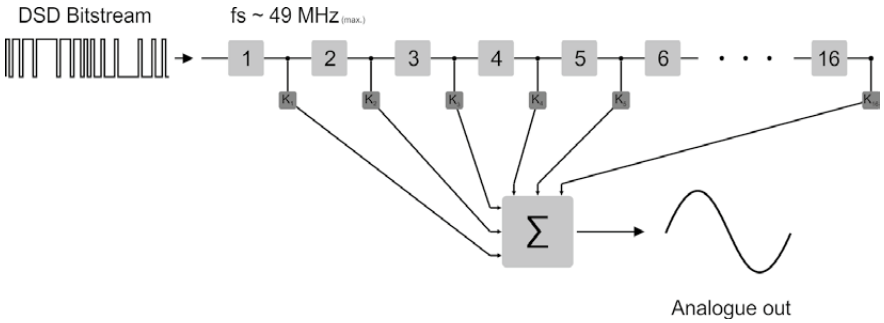
- **NOS 1**
  With this setting the upsampling of the Symphonia is deactivated and the analog output filter is automatically set to 60 kHz for sampling rates of 44.1 and 48 kHz. For higher sampling rates, the setting you selected under the Bandwidth menu item is used.

- **NOS 2**
  If you select this setting, upsampling of the Symphonia is deactivated. The analogue output filter always has the value selected under the menu item Bandwidth.

**DSD mode**

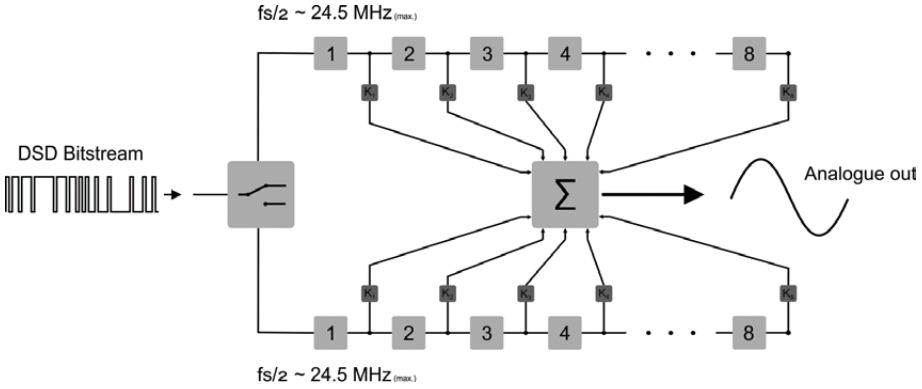
The Symphonia offers two different converter modes for DSD playback.

- **DSD 1**
  This is a long filter with very low noise and very good noise rejection.




The DSD 1 mode uses 16 output stages connected in series to convert the DSD bit stream. These are summed up and then output after weighting (K1 to K16). The output stages work with a maximum frequency of 49.2 MHz.

- **DSD 2**
  In DSD2 mode, two shorter filters operate in parallel. This filter produces even lower distortion than DSD1 mode.




The DSD 2 mode uses eight output stages connected in series twice to convert the DSD bitstream, which in turn are connected in parallel. The two chains only have to process half of the stream information. This means that the output stages only work with half the frequency (24.6 MHz).

Due to the lower clock frequency, the signal can be converted even more precisely. The DSD 2 mode has a lower distortion compared to the DSD 1 mode.

**Phase**

With particular instruments or voices the human ear is certainly capable of detecting whether absolute phase is correct or not. However, absolute phase is not always correctly recorded.

In this menu item the phase of the signal can be changed from normal to inverse phase and back.

**Bandwidth**

When using only the internal power amplifiers for playback, it is recommended to use the setting WIDE, as this enables a more spatial music reproduction. When connecting further audio components to the PRE output, it should be checked whether these devices can process the high signal frequencies up to 300 kHz without distortion.
If this is not the case, the NORMAL bandwidth setting should be selected.

# NETWORK CONFIGURATION

## GENERAL INFORMATION

All network settings are carried out in the system settings under the menu item Network.
If the Symphonia is not connected to a wired network via its LAN port, the WLAN module is automatically activated and the Network menu displays the menu items for setting up the WLAN* connection.

*If you want to connect the Symphonia to the home network via WLAN, the LAN port must remain free.*

*Important: once an internet connection has been established please check if an update is available and perform it before operation the device. Refer to chapter entitled „Firmware update“ on page 45.*

** In this user manual, wireless networks also known as WiFi are referred to as WLAN.*

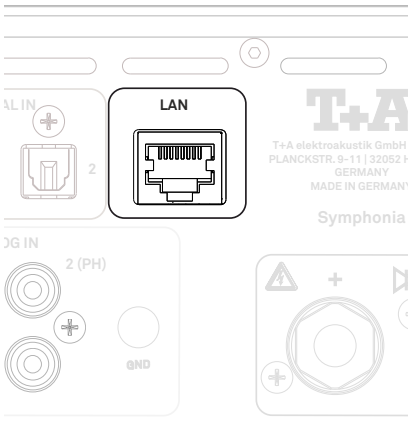
## MENU OPERATION

- Open the system settings menu by pressing the ⚙ button on the remote control.
- Select the Network menu item with the **cursor up / down** buttons and confirm with the **OK** button.
- In the network menu, select the network parameter to be changed with the **cursor up / down** buttons and activate the entry with the **OK** button.
- Now you can change the setting depending on the type with the following buttons:
  **cursor left / right** buttons at simple selection (ON/OFF)
  **cursor up / down** buttons at IP addresses and alphanumeric input of text.
- After the setting has been made or the address has been entered completely, confirm the entry with the **OK** button.

*The network parameters can be set solely using the remote control or via App (T+A MusicNavigator G3).*

## CONNECTION VIA LAN (CABLE CONNECTION)

- Connect the Symphonia to an operational network (router) or power line modem via the rear LAN port.
- Switch on the Symphonia.
- Usually, an IP address is automatically assigned to the Symphonia by your router (via DHCP) and the Symphonia is ready for operation after the start-up process of the streaming module.
- If this is not the case, open the network menu (Network) and set the network parameters listed below according to your network settings.

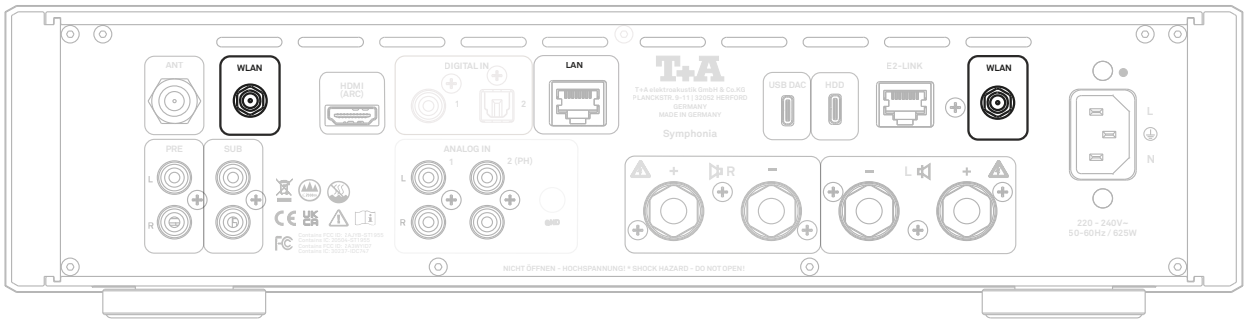



| Menu item | Setting / Explanation |
|---|---|
| **MAC** | The MAC address is a hardware address which uniquely identifies your machine. The address displayed is determined by the manufacturer, and cannot be altered |
| **Connection state** | Shows the connection state: WLAN, LAN or not connected |

| | |
|---|---|
| **DHCP** | **on**<br>If your network includes a DHCP server, please select the ON setting at this point. In this mode an IP address is automatically assigned to the Symphonia by the router. The screen shows only the MAC address and the message DHCP state ON. In this case the address input fields shown in the illustration do not appear in the menu.<br>**off**<br>If your network does not include a DHCP server, please select the OFF setting. In this mode you must configure the following network settings manually. Please ask your network administrator for the addresses to be entered for your network. |
| **IP** | IP Adress of the Symphonia |
| **Subnet mask** | Network mask |
| **Gateway** | IP Adress for the router |
| **DNS** | Name / IP of the name server (optional) |
| **Store and exit?** | Stores the network parameters |
| **Discard and exit?** | Closes the menu: data already entered is discarded |

## CONNECTING TO WLAN (RADIO CONNECTION)

- Connect both of the supplied WLAN antennas to the WLAN sockets on the back of the Symphonia. Depending on your reception and set-up situation, the antenna can be mounted directly on the socket on the back or together with the magnetic base supplied.




- For setting up the WLAN connection, press the ⚙ button to open the menu for system settings and then the menu item Network.

| Menu item | Setting / Explanation |
|---|---|
| **MAC** | The MAC address is a hardware address which uniquely identifies your machine. The address displayed is determined by the manufacturer, and cannot be altered. |
| **Connection state** | Shows the connection state: WLAN, LAN or not connected. |
| **WPS autoconnect** | Activates the WPS function to connect the Symphonia to the WLAN via WPS (see next page). |
| **Scan for WLAN** | Starts the scan for WLAN networks that are within reception range. |

ⓘ *All other menu items are the same as for the connection via LAN. See above for more information.*

## CONFIGURATION USING THE WPS FUNCTION

- First activate the WPS-function of the Router or Repeater to which you wish the Symphonia to be connected. For details please refer to the manual of the device in question
- Start the WPS-Autoconnect function of the Symphonia within 2 minutes
- Use the **cursor up / down** buttons to select the menu point WPS-Autoconnect, then confirm your choice with the **OK** button
- After the connection is established, the line Status shows the connected WLAN network
- Finally select the Store and exit? menu point and press the **OK** button to accept the settings

## MANUAL SETUP OF THE WLAN CONNECTION

- First select the Scan for WLAN menu item and confirm it with the **OK** button
- A list of the available WLAN connections appears
- Use the **cursor up / down** buttons to select the WLAN to which you wish the Symphonia to be connected, and confirm your choice with the **OK** button
- Enter the network password (passphrase) and confirm your entry with **OK**
- Confirm and store the settings by selecting the item Store and exit? and pressing **OK**
- Finally, select the menu item Store and exit? again and confirm the settings with the **OK** button again

## SETTING UP THE WLAN CONNECTION VIA THE APP (T+A MUSICNAVIGATOR G3)

For an easy setup of the network connection, the Symphonia has an access point function. This is automatically activated whenever the device is neither connected to the network via cable nor a WLAN network has been configured. This state can be restored at any time by resetting the Symphonia to the factory default settings (see „Device Info“ on page 25).
Proceed as follows to set up the device:

**Using Android**

- Connect the smartphone or tablet PC on which the T+A MusicNavigator G3 App is installed to the WLAN access point.
- The name of the network (SSID) starts with T+A AP 3Gen_.... a password is not required.
- Start the App, permission for location required.
- The App detects the access point and automatically starts the setup wizard.
- To set up the WLAN, you must go through the individual steps of the App‘s setup wizard.
- Exit the App and then connect the smartphone or tablet to the previously set up WLAN.
- After restarting the App, the Symphonia will be automatically searched for.
- Once the Symphonia has been detected, it can be selected for playback.

**Using iOS** (Apple)

- The Symphonia supports the Wireless Accessory Configuration, (WAC).
- Power on the Symphonia.
- Open the menu for the settings/WLAN on your iOS mobile device.
- As soon as the device is started, you will find under the item Set up new AirPlay speaker an entry that starts with SET UP NEW AirPlay SPEAKER SYMPHONIA-xxxxxx.
- After selecting this entry, you can select the network to which your Symphonia can be connected.
- After confirming the selection, the configuration data of the network is automatically transferred to the device and the Symphonia connects to the selected network.

# BLUETOOTH TRANSMISSION MODE

**⚠Caution** *Risk of hearing damage*

*In order to avoid injuries, only use external playback devices that have their own volume control. The volume control of the Symphonia does not affect the music signal transmitted via Bluetooth.*

Before music can be played from the Symphonia on a Bluetooth-enabled device (e.g. headphones), the external playback device must be registered with the Symphonia once.

To do this, follow these steps:

- Press ⚙ and select the Bluetooth Settings menu item
- Put your Bluetooth headphones into pairing mode
- Select the Scan for Bluetooth Receivers menu item
- Choose your Bluetooth headphones from the list
- After a short time, music playback will also take place via the external playback device.

If you wish to stop music playback on the external playback device, simply switch it off or proceed as follows:

- Press ⚙ and select the Bluetooth Settings menu item
- Select the Disconnect Bluetooth device menu item

If you later wish to use the same external playback device with the Symphonia again, the registration process described above does not need to be repeated. Instead, please follow these steps:

- Press ⚙ and select the Bluetooth Settings menu item
- Select the Bluetooth Receiver menu item
- Choose your Bluetooth headphones from the list

After a short time, music playback will once again take place via the external playback device.

ⓘ *You can also access the Bluetooth settings menu by pressing and holding the 🎧 button.*
*If no external playback device is registered, the menu item* Search for Bluetooth devices *will open and the search will start automatically. If a playback device is already registered, the menu item* Bluetooth devices *will open and you can re-establish the connection by selecting the corresponding playback device.*

*To control the Symphonia, the mobile device must be compatible with the Bluetooth AVRCP protocol.*
*If this is guaranteed, the Prev/Next functions can be triggered via the playback device or the connection to the playback device can be paused/ restarted (indicated by the symbols ᛒ ▹II in the play screen).*

*If, in some cases, your device cannot connect, please delete the Bluetooth pairings in the system settings menu item* Device info *and carry out the registration process again as described above.*

# SCL - STREAMING CLIENT OPERATION

## GENERAL INFORMATION

The Symphonia includes a streaming client (SCL).
It enables music playback from UPnP network servers (NAS), or music streaming services e.g. Tidal Connect, Qobuz and Roon and Podcasts.

ⓘ *To make use of music services you may need to take out a paid subscription with the appropriate provider.*

*The use of music services requires the entry of access data (username and password). For security reasons these access data can only be created by means of the T+A MusicNavigator G3 App with the OAuth (Open Authorisation) Protocol.*
*To do this, select the music service you want subscribe in the App and follow the login instructions. If you want to log out of a music service, you can use the* Logout *menu item in the App or on the device the menu of the selected music service.*

*The exact form of the list format and the preparation of the content depends mainly on the capabilities of the network server (NAS) / music streaming service.*

## SOURCE SELECTION

Choose the desired listening source by pressing the SCL button on the SRC2 and then choose the desired source from the list with the **cursor up / down** buttons and confirm with the **OK** button. To select the source on the front panel of the Symphonia press the SCL button and turn the SELECT knob to the desired source and confirm with a short press on the knob.

## LOCAL MUSICSERVER (UPNP/DLNA COMPATIBLE NAS)

- The Symphonia supports playback from a local NAS with a UPnP/DLNA compatible music server application.
- Compatible music servers connected to the network are recognized and displayed by the Symphonia
- Use the T+A MusicNavigator G3 App, the remote control or the left rotary knob to select a server, navigate through the folders and start to playback of the music.

## STREAMING SERVICES OF THE STREAMING CLIENT

Podcast, Amazon Music HD, Deezer, HIGHRESAUDIO, Qobuz, Tidal, Spotify, Roon Ready (see „Roon Operation“ on page 33)

## SPOTIFY CONNECT

- The Symphonia supports playback via Spotify Connect.
- Use your phone, tablet or computer as a remote control for Spotify.
- Go to https://spotify.com/connect to learn more
- Connect the Symphonia and the Smartphone/Tablet to the same network.
- Start the Spotify App and log in to Spotify.
- Start the playback via the Spotify App
- The Symphonia appears in the App in the list of available devices.
- To start playback on the Symphonia, select it by tapping on the Symphonia.
- Playback now starts via the Symphonia.
- Spotify Connect offers presets and resume playback.

## APPLE AIRPLAY

- The Symphonia supports playback via Apple AirPlay.
- To do this, connect the Symphonia and the smartphone/tablet to the same network.
- Start the desired AirPlay-compatible App (e.g. iTunes or similar).
- Start playback.
- Symphonia appears in the App, in the list of available devices
- To start playback on the Symphonia, select it from the list by tapping it.
- The source on the Symphonia will automatically switch to AirPlay and playback will start on the Symphonia. You can find more information at: https://www.apple.com/AirPlay/

## QOBUZ CONNECT

- The Symphonia supports playback via Qobuz connect.
- Use your smartphone, tablet or computer as a remote control for Qobuz.
- Visit https://www.qobuz.com/connect to learn more.
- To start playback from your mobile device, connect the Symphonia and smartphone/ tablet to the same network.
- Launch the Qobuz App and log in.
- Start playback via the Qobuz App.

- The Symphonia appears in the list of available devices.
- To start playback on the Symphonia, select it by tapping on it.
- The source on the Symphonia automatically switches to Qobuz Connect and playback starts on the Symphonia.

## TIDAL CONNECT

- The Symphonia supports playback via TIDAL connect.
- Use your smartphone, tablet or computer as a remote control for TIDAL.
- Visit https://tidal.com/connect to learn more.
- To start playback from your mobile device, connect the Symphonia and smartphone/ tablet to the same network.
- Launch the Tidal App and log in.
- Start playback via the Tidal App.
- The Symphonia appears in the list of available devices.
- To start playback on the Symphonia, select it by tapping on it.
- The source on the Symphonia automatically switches to TIDAL Connect and playback starts on the Symphonia.

*Apple AirPlay and Tidal Connect do not exist as menu items in the list of streaming services*

## ROON OPERATION

**General information**

The Symphonia supports playback via Roon.
Roon is a fee required software solution that manages and organizes your music stored on a server. Furthermore the streaming service TIDAL and Qobuz can be integrated.

**Playback**

The operation is exclusively done via the Roon-App. The Symphonia is recognized as a playback device (client) and can be selected for playback in the app. As soon as Roon is used for playback, ROON appears on the Symphonia display as source.
Further information about Roon and its operation can be found at: https://roonlabs.com

## PLAYQUEUES

Your device has an internal queue function to enable convenient and continuous playback of an entire album, for example, even with a streaming source.
When you select a title by navigating in the title lists and start playback by pressing the **OK** button or SELECT knob, the current and all following titles are loaded into this queue, from which the titles are played in the further course.

After selecting another title by navigating in the title lists, followed by pressing the **OK** button or SELECT knob again, any playback in progress will be cancelled, playback of the newly selected title will begin, and the queue will be refilled with the subsequent titles of the currently selected one. The current content of the queue can be viewed at any time using the T+A MusicNavigator G3 App.

The button Play/Pause ⏯ and the buttons Prev/Next ⏮ ⏭, on the other hand, only affect the current playback from the queue. In other words, you can use the button ⏯ on the remote control to pause or resume the current playback, and the buttons ⏮ ⏭ to jump to previously played or following titles in the queue – the contents of the queue are not changed by these buttons, so the current position in the title list is irrelevant for this function.

# RADIO OPERATION

## GENERAL INFORMATION

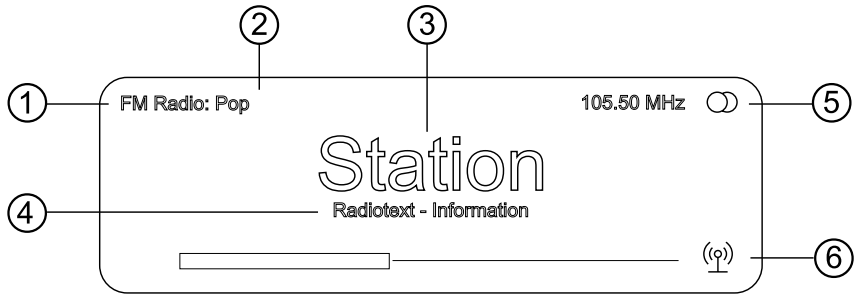
The Symphonia features an FM Tuner (VHF radio) with HD Radio™ technology*, a DAB / DAB+ reception section (digital radio) and also includes the facility to stream Internet radio. The following section describes in detail how to operate the individual radio sources.
HD Radio technology enables radio stations to transmit analogue and digital programmes on the same frequency simultaneously.
The integral DAB+ receiving section is backwards-compatible with DAB, to ensure that you have access to a wide range of stations.

* HD Radio™ technology only available in US-version.

## FM RADIO

Select the source FM Radio with the source selection button RADIO on the SRC2 or by pressing the button RADIO on the front panel of the Symphonia and subsequently turning the SELECT knob. Confirm your selection with a short press on the **OK** button of the SRC2 or on the SELECT knob of the Symphonia.

## PLAYSCREEN




① Displays the selected radio source.

② Here the music type or style is displayed, e.g. Pop Music. This information is only displayed if the transmitting station broadcasts it as part of the RDS system. If you are listening to a station which does not support the RDS system, or only supports it in part, these information fields remain empty.

③ The frequency and / or the station name is displayed in enlarged form. If a station name is displayed, its frequency is shown in area ⑤.

④ These lines display information which is broadcast by the station (e.g. Radiotext).

⑤ Display of Stereo ◌◌ / ● Mono.

⑥ The field strength can be used to assess the expected reception quality of the set station.
FM Radio: when receiving an HD Radio broadcast, here the currently selected programme from the total number of programmes available is displayed too (left side), e.g. programme 2 of total 3 available.

# MANUAL STATION SEARCH

**Operation by remote control**

Press and hold the rewind or fast-forward ◀◀ ▶▶ buttons on the remote control to start the station search in upward or downward direction. The station search stops automatically at the next station found. Pressing the ◀◀ ▶▶ buttons on the remote control repeatedly allows a selection of a specific frequency. Once the desired station has been selected, it can be added to the Presets list by pressing the ☺ button.

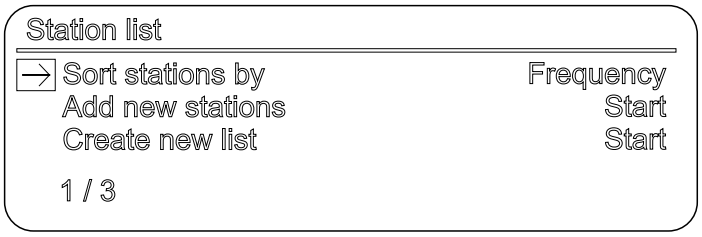
**Operation at the device**

Manual selection of a specific frequency is also possible via the SELECT knob on the device. By pressing the SELECT knob several times, if necessary, you can switch between the functions of the SELECT knob for a short time. The currently selected operating mode is shown at the bottom left of the display (only in the detailed display setting). The following functions can be selected:

| **Display indicator** | **Function** |
|---|---|
| Freq | Manual frequency tuning |
| Pres | Selecting a stored preset |
| No indication | Selecting a station from station list |

# AUTOMATIC STATION SEARCH

A long press on the menu ☼ button on the Symphonia's front panel or on the ☼ button of the remote control opens the station list menu. The following menu items are available:




- If you wish to create a new station list, select the item Create new list and confirm your choice with **OK**. The station search begins, and automatically searches for all radio stations which the machine is able to pick up.
- If you wish to update an existing list, select the item Add new stations.
- The menu item Sort stations by ... allows you to sort the stored list by any of several criteria (Frequency, Station name, Program ID).

# MONO / STEREO SELECTION

By a long press on the I/II button of the remote control, the FM tuner of the Symphonia can be switched between stereo and mono reception. The reception mode is shown in the display:

Stereo ◯◯ / ● Mono

For very weak or distant transmitters that can only be received with a lot of noise, it is recommended to switch to MONO. This will noticeably reduce the noise.

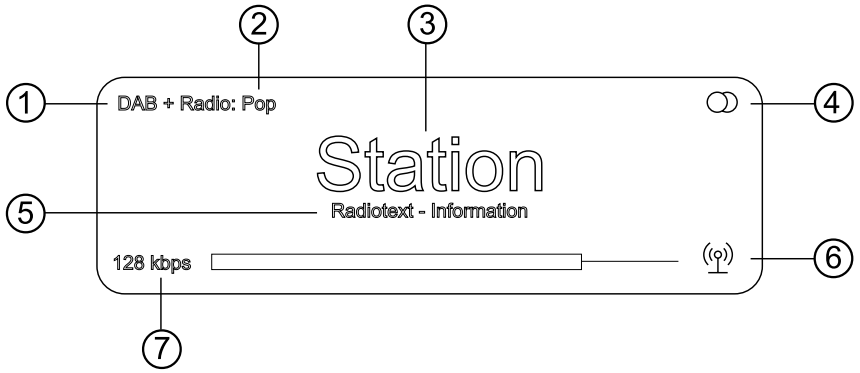
# SWITCHING RADIOTEXT ON AND OFF

The Radiotext function can be switched on and off by long presses on the ⓘ button on the remote control handset, repeatedly if necessary.

# DAB RADIO

Select the source DAB Radio with the source selection button RADIO on the SRC2 or by pressing the button RADIO on the front panel of the Symphonia and subsequently turning the SELECT knob. Confirm your selection with a short press on the **OK** button of the SRC2 or on the SELECT knob of the Symphonia.

# PLAYSCREEN




① Displays the selected radio source.

② Here the music type or style is displayed, e.g. Pop Music.

This information is only displayed if the transmitting station broadcasts it as part of the RDS system. If you are listening to a station which does not support the RDS system, or only supports it in part, these information fields remain empty.

③ Display of the station name

④ Display of Stereo ◌ / ● Mono

⑤ These lines display information which is broadcast by the station (e.g. Radiotext).

⑥ The field strength and therefore the reception quality to be expected from the set transmitting station can be assessed from the field strength.

⑦ Bit-rate of the broadcasting station when listening to DAB radio.

The higher the bit-rate, the better the station's sound quality.

# AUTOMATIC STATION SEARCH

A long press on the menu ✿ button on the Symphonia's front panel or on the ✿ button of the remote control opens the station list menu. The following menu items are available:

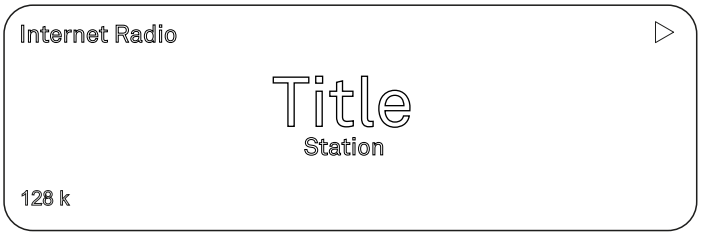



- If you wish to create a new station list, select the item Create new list and confirm your choice with **OK** . The station search begins, and automatically searches for all radio stations which the machine is able to pick up.
- If you wish to update an existing list, select the item Add new stations.
- The menu item Sort stations by ... allows you to sort the stored list by any of several criteria (Block, Station name, Program-ID).

# INTERNET RADIO

Select the source INTERNET Radio with the source selection button RADIO on the SRC2 or by pressing the button RADIO and subsequently turning the SELECT knob on the front panel of the Symphonia. Confirm your selection with a short press on the **OK** button of the SRC2 or on the SELECT knob of the Symphonia.

# PLAYSCREEN




# SEARCH FUNCTION

The search function is only available on the remote control.

- Activate the search function by pressing on the remote control
- A pop-up window with the message Search appears in the display. While the pop-up window is displayed, enter a letter using the alpha-numeric keys on the remote control.
- To delete a letter, press the **cursor left** button.
- Press the **OK** button to start the search.
- After a short delay, a list with the search results appears.

# FAVOURITES

In addition to the presets list provided by the device (see also chapter „Presets list“ on page 38), the Internet radio source also has a Favourites folder in the root folder of the Internet radio source. This Favourites folder is provided by the Internet radio provider and is independent of the Favourites list in the device.

If you like to save a favourite within the T+A MusicNavigator G3 App in this folder, follow these steps:

- Start playback of an internet radio source, the play screen will open.
- Tap on the additional menu ⋮
- Tap on Add to Radio Favourites

To delete the favourite from the folder, tap again on ⋮

- Choose Remove from Radio Favourites

Please note that favourites can only be saved or deleted via the T+A MusicNavigator G3 App and cannot be done through the remote control or the device itself.

# PRESETS LIST

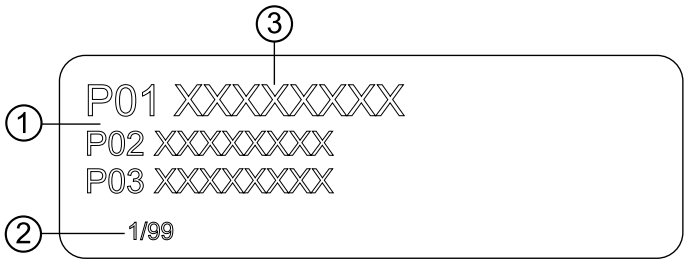
## GENERAL INFORMATION

The Symphonia includes the facility to create Presets lists. The purpose of these lists is to store radio stations and podcasts, so that they can be accessed swiftly.
Each of the sources FM radio, DAB radio, Internetradio and Spotify feature their own Presets list.
Once stored, the Presets can either be selected from the Presets list, or called up directly by entering the programme location number. The option of selecting using the location number is particularly useful when you wish to call up Presets when the screen is not in view (e.g. from an adjacent room) or using a house control system.

ⓘ *Presets lists for the various music services (TIDAL etc.) are not supported.*
*Instead it is usually possible to add Presets and Playlists online via the provider's account. These can then be called up and played via the Symphonia.*

## CALLING UP THE PRESETS LIST

- The first step is to switch to one of the sources listed above.
- Call up the preset list by a brief press on the ≣ button on the remote control.




① Here the programme location number is displayed within the list. Since it is possible to erase individual list items, the numbering may not be continuous.

② Position display in the Presets list.

③ The selected list entry is displayed in enlarged form.

## ADDING A PRESET

If you especially enjoy the piece of music or radio station to which you are currently listening, simply press the ☺ button on the remote control; this action stores the station in the corresponding Presets list.

## ERASING AN ITEM FROM THE PRESETS LIST

Open the Presets list by pressing the ≣ button. Use the **cursor up / down** buttons or the **SELECT knob** to select the station in the list which you wish to erase, then hold the ☺ button pressed in; this action removes the item from the Presets list.

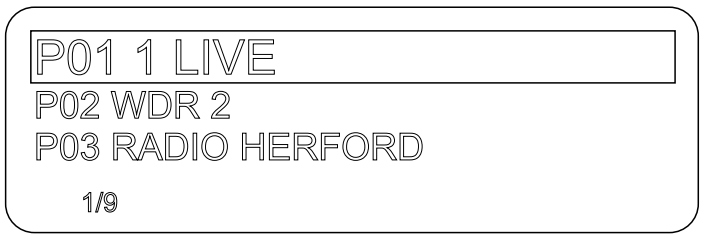
## PLAY PRESETS

- Call up the presets list by a long press on the ≣ button on the remote control or on the Symphonia
- Select a stored Preset from the Presets list using the **cursor up / down** buttons or by turning the SELECT knob on the Symphonia. The selected Preset is displayed enlarged.
- A brief press on the **OK**-button or by pressing the SELECT knob, the Preset is selected for playback.

## SORT PRESETS

The sequence of items in the Presets list you have created can be altered in any way you wish.
This is the procedure for changing the order of the list:

- First, call up the presets list by a press on the ≣ button on the remote control or on the Symphonia
- Select the Preset that you wish to change the position of with the **cursor up / down** buttons on the remote control or by turning the SELECT knob on the Symphonia. The selected Preset is displayed enlarged.
- Pressing the ▲▼ button on the remote control activates the sort function for the selected Preset. The Preset is highlighted.




- Now move the activated Preset to the desired position in the Presets list using the **cursor up / down** buttons on the remote control or by turning the SELECT knob on the Symphonia.
- Pressing the ▲▼ button or the **OK** button / SELECT knob again deactivates the sorting function. The Preset is now stored at the new position.
- A brief press on the ≣ button closes the presets list.

ⓘ *If you have previously erased a number of Presets, you may well find that some programme locations in the Presets list are missing (empty). Nevertheless, the Presets can still be moved to any location in the list.*

# INPUT - OPERATION OF EXTERNAL SOURCES

## GENERAL INFORMATION

The Symphonia can be used as a high-quality D/A converter for other devices such as computers, streamer, digital radios etc. which are fitted with poor-quality converters or no converter at all.
The Symphonia features an electrical S/P-DIF digital input, an input for digital source devices with coaxial (RCA) digital outputs, and an HDMI input.
The USB DAC input on the rear allows the Symphonia to be used as a D/A converter for computers.

## D/A CONVERTER OPERATION

Choose the digital input to which you have already connected the source device which is to be played.

As soon as the source device delivers digital music data, the Symphonia automatically adjusts itself to the format and sampling rate of the signal, and you will hear the music.

ⓘ *During D/A converter operations the Symphonia integral screen displays the characteristics of the digital input signal.*

## SOURCE SELECTION

Press the Input button on the SRC2 and then choose the desired source from the list with the **cursor up / down** buttons and confirm with the **OK** button.
To select the source on the front panel of the Symphonia press the Input button and turn the SELECT knob to the desired source and confirm with a short press on the knob.

## USB MEDIA

The Symphonia features two USB-C inputs for memory sticks or hard disks, one in the front panel and one in the backpanel. Select USB Media for the source you want to listen to.
The memory medium can be formatted with any of the following file systems: FAT16, FAT32, NTFS, ext2, ext3 or ext4.

## BLUETOOTH

The Symphonia integral Bluetooth interface provides a means of transferring music wirelessly from devices such as smartphones, tablet PCs, etc. to the Symphonia.
Furthermore, the Symphonia can transmit music signals to your Bluetooth headphones in Bluetooth transmission mode.

ⓘ *Please note that transmission and reception operations are mutually exclusive. If you are listening to music via Bluetooth headphones, the* Bluetooth *source cannot be selected.*

**Source selection**

The Bluetooth source can be selected using the remote control by pressing the INPUT button and then using the **cursor up / down** buttons.

Alternatively, after pressing the INPUT button on the device, the selection can be made by turning the SELECT knob and then pressing to confirm.

See „Bluetooth configuration“ on page 25.

**Setting up audio data transmission**

Before music from a Bluetooth-capable device can be played through the Symphonia, the external device must first be registered to the Symphonia. As long as the Symphonia is switched on and no device is connected, it is always ready to receive. In this state the screen displays the message not connected.




To establish a connection, carry out the following steps:

- Start the search for Bluetooth devices on your mobile device
- When the Symphonia is found, select it for pairing

If the connection is successfully established, the device name of the connected device is shown at the bottom right of the display.

**Playback**

Information on the piece of music currently being played is displayed on the screen of the Symphonia if this function is supported by the device connected to the unit.
The behaviour and method of operating the connected mobile device are determined by the device itself. Usually, playback can be controlled via the buttons on the remote control (start/stop, pause, skip).

*To control the Symphonia the mobile device must be conform to the Bluetooth AVRCP protocol.*

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## HDMI ARC

If a TV is connected to the HDMI (ARC) output, the TV sound can be transmitted to the Symphonia via ARC (Audio Return Channel) if supported by the TV, see „HDMI connection“ on page 43.

## DIGITAL IN 1 AND IN 2 (S/P-DIF)

You can connect devices with electrical co-axial or optical output to the digital inputs of the Symphonia.

The DIGITAL IN 1 input of the Symphonia accepts digital source devices with co-axial (RCA) output.

At the DIGITAL IN 2 input, digital signals according to the S/P-DIF norm, with sampling rates of 32 to 192 kHz and DSD 64 (DOP) can be received.

## USB DAC PLAYBACK FROM A COMPUTER

At the USB DAC inputs the Symphonia accepts digital PCM-encoded stereo signals with sampling rates of 44.1 to 768 kHz (32-bit) and DSD data with sampling rates of DSD64, DSD128, DSD256 and DSD512.

**Minimum system requirements**

Intel Core i5 or higher or a comparable AMD Processor, 4 GB RAM, USB 2.0 Interface, Microsoft Windows 10, 8.1, 8 or 7, Linux with 4.4 Kernel or higher or MAC OS X 10.13.6 or later version

**Driver installation for Windows**

For playback via USB, from a connected Windows PC, specific driver software is required on the computer.

The required drivers and a detailed installation manual are available for download on our homepage at http://www.ta-hifi.com/support.

No drivers are required when using a computer with Linux or Mac OS.

**System settings**

A number of system settings have to be altered if you wish to operate Symphonia with your computer. These changes must be made regardless of the operating system. The installation instructions provide detailed information on how and where the settings are to be changed.

**Playback**

- If necessary, first reduce the set volume.
- Switch on the computer.
- Select the USB input using the source selection buttons on the device or the remote control.
- If necessary, select the Symphonia as the output device in the system settings of the operating system.
- Open the playback software on the computer.

ⓘ *Do not disconnect the USB connection during operation. Do not turn off the Symphonia during playback. This can lead to malfunctions and crashes. If there is a malfunction during playback, restart the computer.*

*The playback of files stored on the computer cannot be controlled by the Symphonia or SRC2.*

*The playback of DSD files on Apple MAC computers is restricted to a maximum of DSD 256, as Apple only supports playback in DOP format and does not support native streaming.*

## ANALOG IN 1 AND IN 2 (PH)

Universal preamplifier line inputs for connecting any stereo audio devices with unbalanced RCA (cinch) output.
The analog inputs can be switched to a separate volume control in the system configuration menu for operation with surround decoders (Pass-through mode).

A turntable can be connected to the ANALOG IN 2 (PH) input. Please activate the phono mode within the source settings for this.

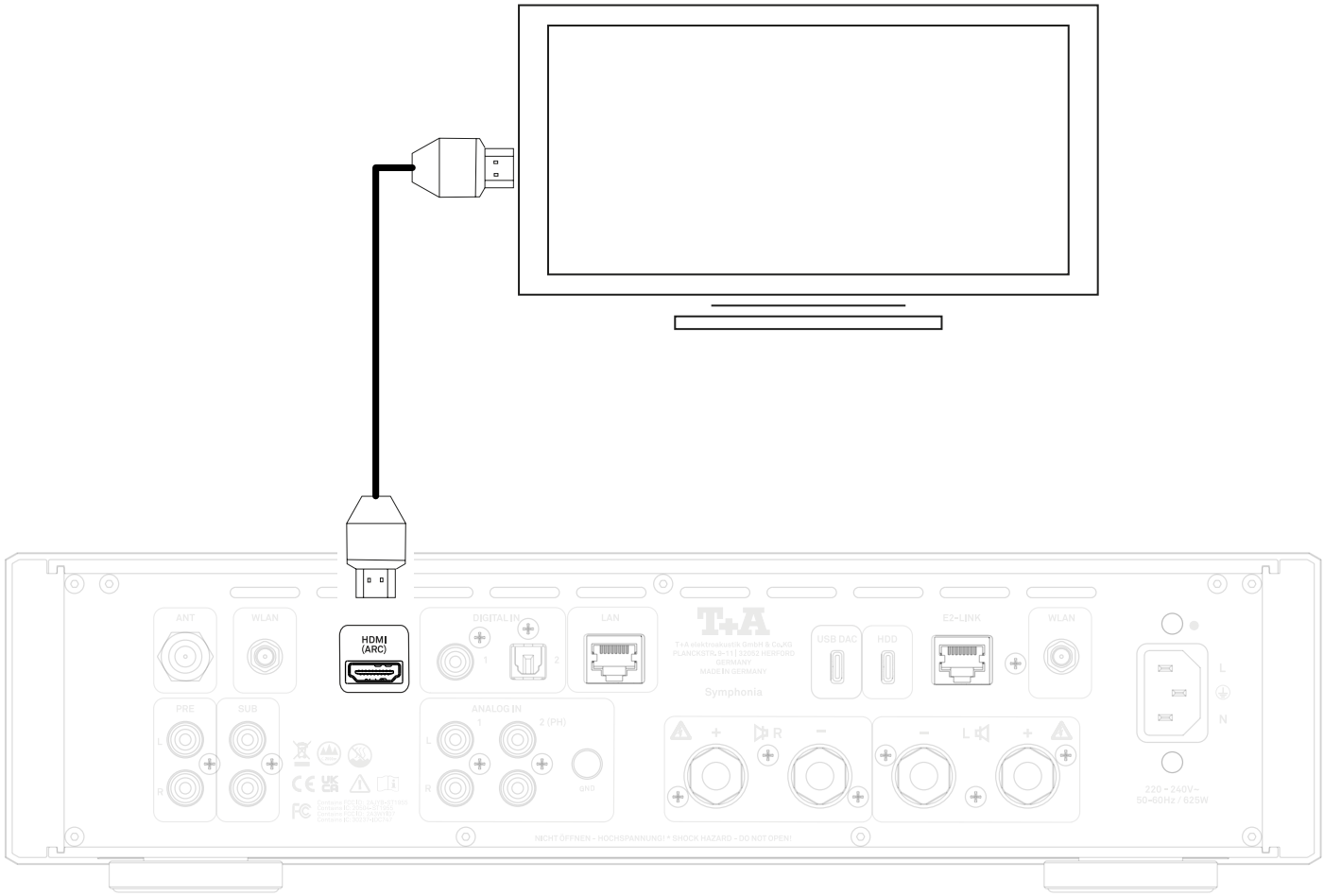
# HOTKEYS

☆1 The SRC2 features two hotkeys allowing to store two favourite sources.
☆2 To store a playing source on one of the keys a long press on the key is required.
A short press on one of the keys opens the stored source.

ⓘ *The hotkey function is not available for Apple AirPlay and Tidal Connect.*

# HDMI connection

A TV can be connected to the Symphonia using the HDMI (ARC) input. See also „HDMI ARC“ on page 41.




## COMPATIBILITY INFORMATION

Due to the large number of different versions of the HDMI standard, a general compatibility between the devices cannot be guaranteed. Not all manufacturers implement all functions in the same way.
Please refer to the user manual of the respective device to find out whether the desired function is available.

*To use the ARC (Audio Return Channel) function, the TV must support it and the Symphonia must be connected to an ARC compatible input of the TV.*

## DISPLAY OF FORMAT AND SAMPLING RATE

| Format | Playback via Symphonia | For example |
|---|---|---|
| PCM (32...192 kHz) | ✓ | 2 channel Stereo PCM from TV |
| DSD | × | |
| Bitstream | × | |
| Multi Ch. | × | |

# HDMI-CEC

CEC (Consumer Electronics Control) enables the control of devices connected via HDMI.
For example, it allows the Symphonia to be controlled using a television remote control.
Within the source settings under the HDMI ARC menu option, three modes for CEC control can be selected:

- Off
  The Symphonia does not respond to CEC control commands from the television.
- Volume only
  The Symphonia responds to the television‘s volume commands and automatically selects the HDMI/ARC source when the television is switched on.
- On/Off and Volume
  The Symphonia responds to volume commands from the television and automatically selects the HDMI/ARC source when the television is switched on. Additionally, it automatically powers on as soon as the television is switched on. As long as the Symphonia is set to the HDMI/ARC source, it will also automatically switch off when the television is turned off.

ⓘ *The CEC-comfort functions can only be activated when using the comfort standby mode.*

*Depending on the TV manufacturer, CEC is supported in different ways – the way the Symphonia control functions described above work therefore depends on how the CEC commands are implemented by the TV you have connected.*

# PROTECTION

The Protection circuit protects the Symphonia from damage caused by short-circuit, overheating and overloading. If a problem occurs, the protection circuit switches the output signal off and the screen displays one of the following messages:

Overheat

Indicates that the amplifier has become too hot. If this occurs, leave the unit off for a generous period of time to allow it to cool down. Ensure that there is sufficient cooling airflow to and from the unit. The unit cannot be switched on again until it has cooled down to a lower temperature.

Protection

This indicates that the output current is too high. This may be due to short circuits at the speaker output or speakers with specifications outside the permissible range. In this case, check the cabling and, if necessary, the technical data of your speakers.

Overload

Indicates that the Symphonia power supply is overloaded. First, reduce the volume and check the cabling and your speakers if necessary.

ⓘ *If you find it impossible to solve a problem with the help of these notes please disconnect the unit from the mains and ask your authorised T+A specialist dealer for advice.*

# FIRMWARE UPDATE

## GENERAL INFORMATION

For updating the firmware of the Symphonia there is a convenient method which requires an existing Internet connection. The following section describes the exact method of updating the firmware in detail.

*To avoid malfunctions after updating the Symphonia, all devices in the system should always be checked for any available updates and installed if they are available.*

## UPDATE PROCEDURE

- The basic requirement is a functioning network with router and access to a broadband Internet connection; the system must be operating
- Switch the machine on
- Call up the System menu by pressing the ☼ button on the front panel
- Rotate the SELECT knob on the front panel to select the Device info menu point, and confirm your selection by pressing the SELECT knob
- Select the Update menu point by pressing the SELECT knob
- The select option WEB should now be active (highlighted)
- The firmware update can now be started by repeatedly pressing the SELECT knob
- The screen displays the current state of progress of the update
- The update process may take several minutes, depending on your internet connection
- Once the update has been completed the device automatically switches itself off and restarts
- When the machine has restarted, the update is complete
- To ensure that the update was successful, access the Device Info menu point mentioned above, and check the new firmware status

*Instead of starting the update process directly on the device, it is also possible to operate the update process via the SRC2 remote control and with the T+A MusicNavigator G3 App.*

# TROUBLESHOOTING

Many problems have a simple cause and a correspondingly simple solution. The following section describes a few difficulties you may encounter, and the measures you need to take to cure them. If you find it impossible to solve a problem with the help of these notes please disconnect the unit from the mains and ask your authorised T+A specialist dealer for advice.

## Machine does not switch on

Cause:
Mains leads not plugged in correctly.
Remedy:
Check connection, push connector in firmly.

## Device responds correctly to operation via the buttons directly on the device, but cannot be operated by remote control

Cause:
The battery of the SRC2 remote control is completely discharged.
Remedy:
Insert a new battery as described in „Remote control“ on page 19.

## The RDS station name and/or the Radiotext does not appear in the display

Cause 1:
Reception is poor, interference is severe, or the field strength (signal strength) is low.
Remedy:
Select only those stations which can be received with a strong signal: hiss-free and without interference.

Cause 2:
The display view is in the large format setting.
Remedy:
Switch to the detailed display view using the ⓘ key on the SRC2. If necessary, tap several times to switch on the radiotext.

## One or more sources cannot be selected via the source selection buttons on the device and the remote control

Cause :
The source in question has been disabled.
Remedy:
Enter the system settings menu (see „System configuration“ on page 24) and enable the disabled source.

## Transmission interruptions occur when listening to internet radio stations

Cause:
The capacity of the internet radio station‘s server is at its limit.
Remedy:
Choose a different station.

## The streaming client cannot connect to a network

Cause 1 (cable LAN):
Network cable not properly connected
Remedy:
Connect network cable, check connection to router

Cause 2 (wireless LAN):
WLAN antenna not connected or placed in a location with bad reception quality
Remedy:
Connect WLAN antenna properly and find a location with good reception quality.
Set the transmission power output of your WLAN router to maximum.
Try to establish a network connection first in a location close to the WLAN router. If this succeeded try to connect to WLAN from a more remote location. Experiment with antenna position and try to find a location with better reception quality.

Cause 3 (wireless LAN):
WLAN reception quality bad (low field strength). Possibly too much attenuated by walls/ceilings on the transmission path.
Remedy:
Optimize location of receiver and transmitter antennas.
Alternative:
If transmission problems persist a so called ‚Power Line‘ network might be good alternative to establish a good and stable network connection.
The best, safest and most secure network however will always be a cable LAN network.

Cause 4:
Network parameters not properly configured.
Remedy:
Configure the network parameters correctly (see chapter „Network configuration“ on page 28).

## USB Storage device is not recognised

Cause 1:
The storage device (especially a USB hard drive without its own power supply) requires more power than the USB port provides.
Remedy:
Only use USB memory that conforms to the Symphonia‘s USB port specification (max. 1.5 A) for power consumption or that has its own power supply.

Cause 2:
The storage device is not formatted with an appropriate file system.
Remedy:
The Symphonia accepts storage devices with FAT16 or FAT32, NTFS, Ext2, Ext3, Ext4 file systems.

## Bluetooth connection cannot be established

Cause:
Pairing incomplete
Remedy:
Delete the Bluetooth pairings in the system settings menu item Device info and carry out the registration process again, see „Bluetooth Transmission mode“ on page 31.

# NOTES ON ENERGY SAVING

## GENERAL INFORMATION

The Symphonia satisfies the requirements of the latest directives concerning energy-saving measures (EuP directive). The modern design of the mains power supply makes an important contribution to this. The internal micro-processor constantly ensures that sub-assemblies which are not currently required are automatically switched off. The micro-processor itself operates in stand-by mode at a relatively low clock speed, and only responds to the remote control and the buttons on the device; operation via the T+A MusicNavigator G3 App is not possible however.
In stand-by mode the current drain of the Symphonia is less than 0.5 Watt.
If you intend not to use the device for a long period, it should be disconnected from the mains socket, i.e. the mains plug should be withdrawn from the wall socket.

## AUTOMATIC POWER DOWN FUNCTION

The device features an automatic power-down function. If the Symphonia detects no operation or no music signal for a period longer than 90 minutes, it automatically switches to stand-by mode

*In countries outside the EU, in which the EuP directive has no validity, the automatic power-down feature can be disabled if necessary. See chapter „System configuration“ on page 24.*

# LEGAL INFORMATION

## GENERAL INFORMATION

This product contains software in form of object code that is partially based on free software under different licences. Details of the licences used can be viewed on the device website using an Internet browser.

## SHOW LICENCES

For details regarding the used licences, please visit our website by entering the following link:
https://www.ta-hifi.de/support/license-information-g3/

Furthermore, the address can be called up at any time as follows:

- Call up the system configuration menu by pressing the ⚙ button on the Symphonia
- Then navigate to the menu item Device Info. Open it by pressing the SELECT knob and navigate to the menu item Legal information and open it with by pressing the SELECT knob again.
- The internet address shown above is displayed in the pop-up window that opens now

# SPECIFICATIONS

| | |
|---|---|
| **Pre-amplifier** | |
| Frequency response +0 /-3dB | 0.5 Hz - 300 kHz |
| Signal / noise ratio | 105 / 109 dB |
| THD \| Intermodulation \| Channel separation | < 0.002 % \| < 0.002 % \| > 90 dB |
| Nominal input sensitivity | |
| High level input unbalanced (RCA) | 250 $mV_{eff}$ ... 4 $V_{eff}$ / 24 kOhm |
| High level input unbalanced (RCA) \| Phono | 250 $mV_{eff}$ ... 4 $V_{eff}$ / 47 kOhm / Phono 5 mV |
| Analogue pre-amplifier output (RCA) | nom 1 $V_{eff}$, max 9.5 $V_{eff}$ / 47 Ohm |
| Analogue pre-amplifier output (Subwoofer) | 1.6 $V_{eff}$, max. 9.5 $V_{eff}$ / 47 Ohm / TP 240 Hz |
| **Power amplifier** | |
| Output power (RMS) per channel | 250 watts @ 4 ohms |
| | 125 watts @ 8 ohms (FTC Power Output Rating) |
| Frequency response +0 /-3dB | 1 Hz - 60 kHz |
| Damping factor | > 800 |
| **Headphone output** | 4.4 mm Pentaconn (6 ohms) |
| **Connections** | |
| Digital inputs | 2 x S/P-DIF: 1 x Standard Coax, 1 x optical TOS-Link (32...192 kHz / 16-24 Bit), DSD64 (DOP) |
| | 1 x USB DAC: Device-Mode up to 768 Hz (PCM), DOP256 and DSD 512*, supports asynchronous data transfer. *DSD 512 only with Windows PC with appropriate driver or a Linux PC with kernel version 4.4 or higher. |
| | 1 x HDMI ARC |
| Analog inputs | 1 x Cinch |
| | 1 x Cinch with connectable Phono preamp (MM or High Output MC) |
| **D/A-Converter** | |
| | PCM: Double-Differential-Converter with two 32-Bit Sigma-Delta D/A Converters per channel. 705.6 / 768 Hz conversion rate<br>DSD: T+A-True-1Bit DSD D/A-Converter, up to DSD 512 (22.4 / 24.5 MHz), native bitstream |
| Upsampling | T+A-Signalprocessor – synchronous upsampling with 4 selectable oversampling algorithms FIR short, FIR long, Bezier/IIR, Bezier and optional NOS 1 and 2 (non-oversampling) |
| Analogue output filter | Phase-linear Bessel filter 3rd order, switchable with 60 or 120 kHz cut off frequency |

| | | | |
|---|---|---|---|
| Frequency response | PCM 44.1 kSps | 2 Hz - 20 kHz | |
| | PCM 48 kSps | 2 Hz - 22 kHz | DSD 64: 2 Hz - 44 kHz |
| | PCM 96 kSps | 2 Hz - 40 kHz | DSD 128: 2 Hz - 60 kHz |
| | PCM 192 kSps | 2 Hz - 80 kHz | DSD 256: 2 Hz - 80 kHz |
| | PCM 384 kSps | 2 Hz - 100 kHz | DSD 512: 2 Hz - 100 kHz |
| | PCM 768 kSps | 2 Hz - 120 kHz | |

| **Streaming Client** | |
|---|---|
| Formats | MP3, AAC, OGG-Vorbis, FLAC, WAV, AIFF, ALAC, DFF, DSF |
| | PCM 32 ... 768 kHz, 16...32 Bit; MP3 up to 320 kBit<br>DSD64; DSD128; DSD256 |
| Supported media servers | UPnP 1.1, UPnP AV and DLNA kompatible Server, Microsoft Windows Media Connect Server (WMDRM10, DLNA compatible servers) |
| Supported streaming services | airable radio and podcasts, Tidal, Deezer, Amazon Music HD, Qobuz, HIGHRESAUDIO, Tidal connect, Spotify connect, Apple AirPlay, Plays with Audirvana, Roon |
| Features | Auto Network Config., Internet Radio Station database (automatic updates) |
| Interfaces | LAN:<br>Fast Ethernet 10/100 Base-T |
| | WLAN:<br>IEEE 802.11a/b/g/n/ac/ax 2x2 MIMO<br>2.412 – 2.472 GHz (2.4GHz ISM Band, 13 Channels)<br>Channel 1 – Channel 13<br>North America FCC, Japan MIC, Europe ETSI<br>20MHz bandwidth<br>5.180-5.825 GHz (5GHz UNII-1/2/3 Band, 24 Channels)<br>North America (IC and FCC):<br>5.180-5.600 GHz, 5.650-5.825 GHz<br>Europe, Japan (ETSI and MIC):<br>5.180-5.700 GHz<br><br>• max gain in 2.4GHz band: 3.2 dBi<br>• max gain in 5 GHz band: 4.25 dBi<br>up to 17 dBm (at antenna terminal) |
| | 2x USB 2.0 Mastermode 5 V, 1.5 A |

| **Tuner (FM)** | |
|---|---|
| Frequency range | FM Radio 87.5 – 108 MHz (Europa / US); 76 – 90 MHz (Japanese version) |
| Sensitivity | Mono (26dB S/N) 0.9 µV, Stereo (46 dB S/N) 40 µV |
| Overload margin | 103 dB µV |
| Stereo channel separation | 50 dB |
| RDS Functions | Stationname, Radiotext |

| **Tuner (DAB)** | |
|---|---|
| Reception standard | DAB, DAB+ |
| Freqency band | 168 – 240 MHz (Band III) |

| | |
|---|---|
| Overload margin | 103 dB µV |
| Sensitivity (BER = 10 – 4) | 2.5 µV |

| **Bluetooth** | |
|---|---|
| Supported audio formats | A2DP (Audio), AVRCP 1.4 (Control) / aptX® HD, SBC, AAC |
| Freqency band | 2.4 GHz: 2042Mhz ... 2480Mhz<br>Max. transmission power <10 dBm (EIRP) |
| RC protocol | AVRCP |

| **Mains** | |
|---|---|
| Mains voltage | 220-240 V, 50-60 Hz / 100-130 V, 50-60 Hz (see back panel of the Symphonia) |
| Normal operation (max.) | 800 Watts |
| Standby (ECO) | < 0.5 W |
| Dimensions (H x W x D) | 10 x 38 x 34 cm / 3.9 x 14.9 x 13.4 inch |
| Weight | 6.2 kg / 13.7 lbs |
| Accessories | Power cord, remote control SRC 2, 2x WLAN antenna, FM antenna |
| Finishes | Silver anodised aluminium (43), black anodised aluminium (42) |

We reserve the right to alter specifications.

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