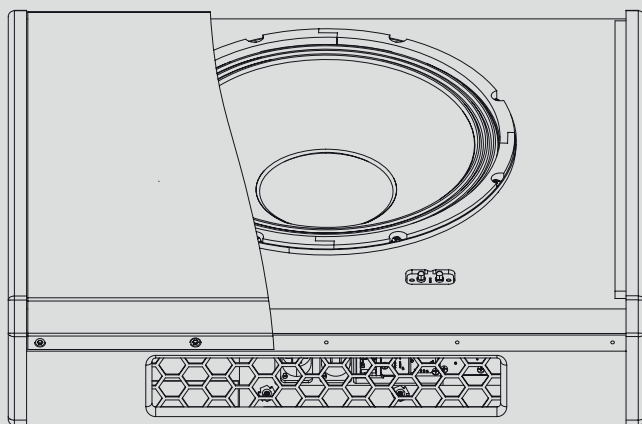


SMX 12A LT

SELF POWERED 12" COAXIAL MONITOR



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THANK YOU FOR CHOOSING **s)))e AUDIOTECHNIK.**

We are happy to be the solution for your sound reinforcement needs with our professional loudspeaker systems. The system you have purchased is based on many years of experience as a speaker manufacturer and speaker developer. **SE AUDIOTECHNIK** products are compact, easy to use, modular and reliable.

Please, take the time to carefully read this manual and follow its instructions. It will allow you to get the most out of your product under safe operating conditions and suggest some care instructions leading to long-term endurance. Keep this manual in a safe place for further reference!

If you find any mistakes or have further questions or suggestions, please contact us at info@se-audiotechnik.de.

For more information about **SE AUDIOTECHNIK** products, visit our website <https://se-audiotechnik.de>. There you can also find the latest updates to manuals, firmware, software and technical documents for additional support.

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IMPORTANT SAFETY INSTRUCTIONS

GRAPHIC SYMBOLS THAT MAY APPEAR ON THE PRODUCT



The lightning bolt triangle is used to alert the user to the risk of electric shock.



Symbol indicating that the equipment is for indoor use only.



The exclamation point triangle is used to alert the user to important operating or maintenance procedures and instructions.



Symbol for conformity with Directive 2002/96/EC and Directive 2003/108/EC of the European Parliament, on waste electrical and electronic equipment (WEEE).



The CE mark indicates the conformity with the relevant EU directives for safety, health and environmental protection. See the Manufacturer's Declaration section.



The RCM mark indicates the conformity with the relevant Australian and New Zealand requirements for electrical safety, EMC, EME and telecommunications compliance.



The CCC mark indicates the conformity with the relevant Chinese directives for safety, health and environmental protection.

GRAPHICAL SYMBOLS IN THIS MANUAL



Symbol for important safety information related with the risk of electric shock.



Symbol for important concepts and information for a better understanding of the functioning of the product.



Symbol to alert the user about important operating or maintenance instructions.



Symbol for practical tips and ideas useful to ensure the correct use of the product and improve its operation.

The products described in this manual have been developed and manufactured to ensure your personal safety. However, **IMPROPER USE CAN LEAD TO SERIOUS INJURY TO THE USER AND THIRD PARTIES AS WELL AS OTHER POSSIBLE HEALTH RISKS. ALWAYS FOLLOW THE BASIC PRECAUTIONS IN THIS MANUAL TO AVOID THE POSSIBILITY OF SERIOUS INJURY OR EVEN DEATH** from mechanical parts, mechanical malfunctions, falling parts, damage, electrical shock, short circuits, fire or other hazards or unintended interaction with devices used in combination. In addition to the safety instructions given here, **LOCAL REGULATIONS AND STATUTORY PROVISIONS MUST ALWAYS BE OBSERVED.**



ELECTRICAL SAFETY PRECAUTIONS



DO NOT EXPOSE ANY OF THIS EQUIPMENT TO RAIN OR MOISTURE, DRIPPING OR SPLASHING LIQUIDS. OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT ATTEMPT TO OPEN ANY PART OF THE UNIT. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



EQUIPMENT INCLUDED IN THIS MANUAL REQUIRE AC POWER SUPPLY. TO COMPLETELY DISCONNECT THEM FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

NOISE EXPOSURE PRECAUTIONS



PRODUCTS DESCRIBED IN THIS MANUAL CAN RADIATE HIGH SOUND PRESSURE LEVELS (SPL) THAT CAN LEAD TO IRREVERSIBLE HEARING DAMAGE. SE AUDIOTECHNIK RECOMMENDS TO RESPECT THE TIMES OF EXPOSURE TO HIGH SPL.

Noise level (dBA)	85	94	97	112	127
Max. recommended exposure time per 24 hours	8 hrs.	1 hr.	30 min.	56 sec.	1 sec.

Noise exposure recommendations according to US National Institute for Occupational Safety and Health (NIOSH).

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IMPORTANT SAFETY INSTRUCTIONS

1. Keep these instructions.

2. Read these instructions.

3. Follow thoroughly all instructions.

4. Heed all warnings.

5. Do not use this apparatus near water.

6. Clean only with a dry cloth. Disconnect the device from the AC outlet before cleaning. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the grounding-type plug. A grounding-type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Unplug this apparatus during lightning storms or when unused for long periods of time.

12. Use the mains plug to disconnect the apparatus from the mains.

13. Keep away from objects which may be impaired by an external magnetic field. To avoid the damage of equipment such as computers, video monitors and magnetic data carriers, they should be located at least 1 meter away.

14. Only use safety pins, attachments, accessories and adapters specified and/or provided by the manufacturer.

15. Refer all servicing to qualified service personnel. This is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

16. Do not insert your fingers, hands or any other foreign objects into any gaps or openings of the device.

17. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

PACKAGE CONTENTS

The packaging of the SMX 12A LT includes:

- 1 SMX 12A LT monitor
- 1 AC power cord with powerCON® connector
- 1 SMX 12A LT user manual
- 1 QC PASS card
- 1 Warranty card

Please inspect your product packaging before unboxing it. If it has been damaged during shipping, unbox the product and check for any visual damage before using it. Notify the shipping company immediately and contact your SE AUDIOTECHNIK dealer or support center for help and assistance.

Finally, save the shipping carton as evidence for the possible claim, which can be requested only by you. We also recommend you to keep all the packing materials and contents for any further transportation.

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INTRODUCTION

The SMX 12A LT is a high-quality active coaxial monitor speaker specifically designed for long-distance, wide-coverage stage monitoring scenarios. It features a dual-channel Class D amplifier and a well-matched impedance, ensuring sufficient power output for both the tweeters and the woofers. The precise preset digital-based crossover DSP provides excellent reproduction of various musical instruments and vocals for the stage.

The cabinet of the SMX 12A LT is made of high-quality plywood and black polyurea paint, offering 35° and 55° monitoring angles. The hidden I/O panel design ensures no visible cables or adjustment hardware when the speaker is placed on the ground, keeping the stage clean and tidy. Additionally, the daisy chain connection capability of up to 6 units allows for quick stage coverage setup.



Figure 1. SMX 12A LT.

FEATURES

- Coaxial two-way design
- Dual-channel active system, plug&play setup
- Precise preset with digital-based crossover DSP
- Low digital signal processing floor noise
- 35° and 55° dual monitoring angles
- Daisy chain connection up to 6 units
- Hidden I/O panel

AMPLIFIER PANEL

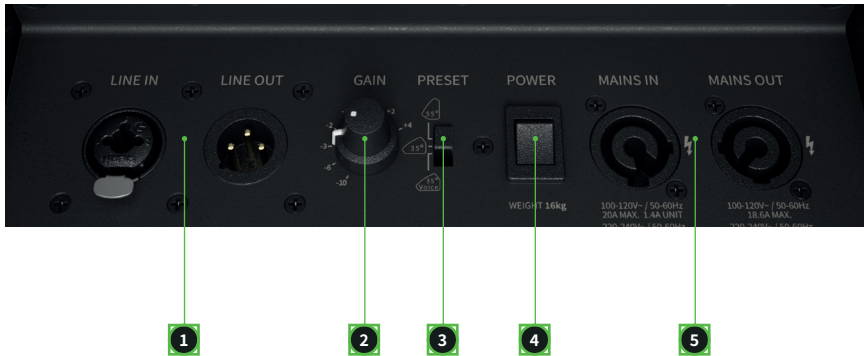


Figure 2. SMX 12A LT panel.

- 1 LINE IN/LINE OUT.** LINE IN: Balanced line-level input with female Neutrik® XLR-3 connector to connect input signal. The input accepts levels up to +20 dBu. . LINE OUT: Balanced and buffered line-level output with male Neutrik® XLR-3 connector. It can be used to link other SMX speakers or other components of the system like subwoofers.
- 2 GAIN.** Level adjustment in eight discrete steps: -10, -6, -3, -2, -1, 0, +2 and +4. The nominal input sensitivity is +4 dBu, set with the knob on the 0 dB position.
- 3 PRESET.** Three presets with different characteristics allow for setting the trend in sound that adapts best to your needs and intended positioning. SMX 12A LT provides aiming angles of 55° and 35°. When monitoring vocals/voices the preset „35° Voice“ offers best clarity and voice focused tuning.
- 5 POWER ON/POWER OFF.** Power switch for the SMX 12A LT. When set to ‘ON’, the monitor is ready for use. When set to ‘OFF’, the monitor is switched off and the built-in amplifier is disabled. If the monitor is not going to be used for an extended period, it is recommended that you set the power switch to ‘OFF’ .
- 5 MAINS IN/MAINSOUT.** MAINS IN: PowerCON® type-A mains power socket. An appropriate power cable is included in the package. The SMX 12A LT is built for two operating voltage ranges: 100-120 and 200-240 VAC. MAINS OUT: PowerCON® type-B mains power output to link power between several units.

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LED INDICATORS

The intended use and application of SMX 12A LT makes it preferable, not to have any blinking, disturbing lights. Hence we refrained from adding signal or limit indicators.

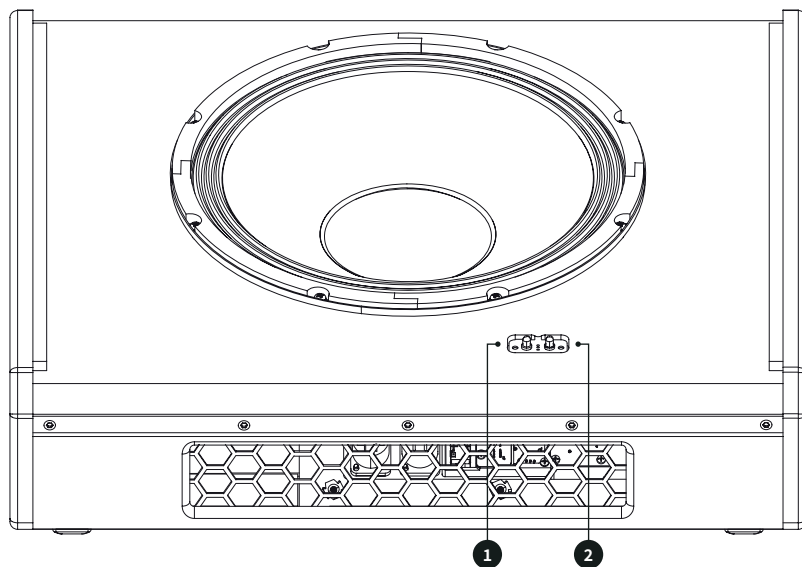


Figure 3. SMX 12A LT LED.

- 1 Protect.** Lights red if the amplifier or SMPS has short-circuited or overheated and the amplifier output is muted automatically. In that case, turn off the mains switch and wait for the unit to cool down. Upon reaching normal operating conditions, turn on the mains switch and the device reverts to normal operating mode. If it does not, SMPS or Amplifier is damaged by other reason than overheating or short circuit.
- 2 Power.** Lights green once the system is properly connected to the mains power and switched on.

WIRING AND INSTALLATION

SMX 12A LT monitors use PowerCON® connectors for the mains power input and link. Figure 4 shows how to plug-in and connect these wires.

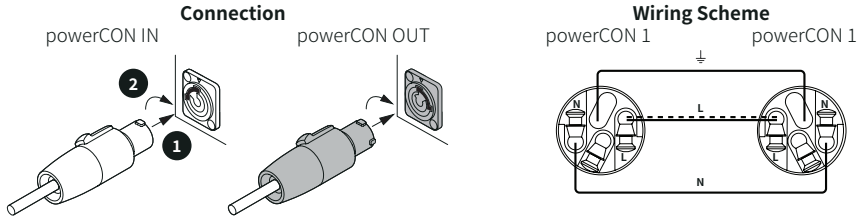


Figure 4. PowerCON® plug-in and link cable connection.

It is recommended to use cables with at least 18 AWG conductor size. For long cable lengths, the maximum conductor size is 14 AWG. Those wires must be assembled by a qualified technician.

For the audio signals, input and link are done through XLR-3 connectors. They follow the next plug-in and configuration scheme:

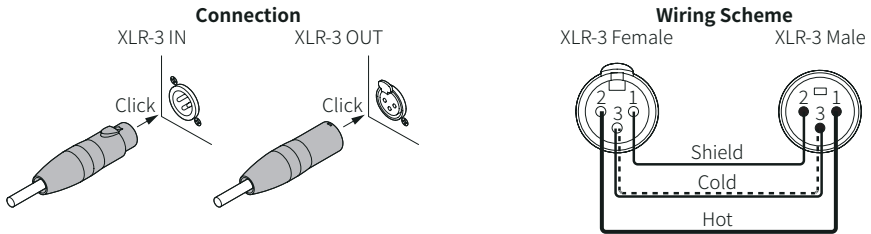


Figure 5. XLR-3 plug-in and link cable connection.

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APPLICATIONS

MONITOR

The SMX 12A LT is a premium active coaxial stage monitor, purpose-built to deliver outstanding audio performance and versatility for professional live applications. Whether for vocals, keyboards, drums, or other instruments, this monitor ensures precise and dynamic sound reproduction, meeting the demands of both performers and sound engineers.

Flexible Positioning for optimal monitoring

The SMX 12A LT offers two distinct monitoring setup angles (35° and 55°) to suit a variety of stage setups and personal preferences.

The 35° angle is the standard placement for most stage monitoring scenarios, providing optimal coverage and clarity for performers positioned close to the monitor. For this setup, users can select between two dedicated DSP presets: the Standard preset for general monitoring needs, and a specialised Voice preset, carefully tuned for vocals and speech applications. These presets ensure that the monitor delivers tailored sound, whether for instruments or clear, intelligible vocals.

The 55° placement angle is ideal when the monitor needs to be placed on a subwoofer or elevated platform, such as for drum-fills or when additional stage coverage is required. This flexibility allows the SMX 12A LT to adapt seamlessly to different performance environments and stage layouts.

Advanced performance and stage-friendly design

Equipped with a dual-channel Class D amplifier and precise digital crossover DSP, the SMX 12A LT delivers balanced power to both tweeter and woofer, resulting in a powerful and undistorted output even at high volumes. The advanced limiter algorithms minimise pumping effects, preserving the integrity and dynamics of the original signal.

The robust plywood cabinet, finished with durable black polyurea paint, is designed for reliability on the road. The hidden I/O panel keeps cables and controls discreetly out of sight when the monitor is placed on the floor, ensuring a tidy and professional stage appearance.

Effortless Integration and Scalability

With its daisy chain capability, up to six SMX 12A LT units can be connected for rapid, scalable stage coverage. The plug & play system and low noise floor make setup straightforward and operation reliable, allowing performers to focus entirely on their performance.

Summary

Whether used as a standard floor monitor at 35°, as a dedicated vocal wedge, or elevated at 55° for drum-fills or special applications, the SMX 12A LT combines exceptional sound quality with practical flexibility. Its advanced DSP presets, robust construction, and intuitive design make it an indispensable tool for any professional stage environment.



A better practice when equalizing is to reduce levels in the undesired frequency ranges, rather than boosting the desired ones. This guarantees also a maximum dynamic range.



For an optimal signal-to-noise ratio, it is recommended to input signals with a level of at least 0 dBu. It is possible to chain up to 10 SMX signal inputs. A built-in output buffer amplifier prevents any load problem for the signal source, like a mixer.



The standard Gain control position should be 0 dB, where the amplifier gain is set to the maximum, even if no signal is present. However, this may not be needed in many applications, especially when a professional mixer with high output capability is being used.



To avoid clicks and pops, turn on SMX last and turn it off first before other connected devices. After turning the unit off, wait for more than five seconds before turning it on again. The internal voltage needs 5 seconds to drop completely, otherwise the power supply will not start up.



The recommended maximum quantity of units to be connected in series is 3 for 100-120 VAC mains, and 6 units for 200-240 VAC. This is calculated for a standard 16 A mains supply.

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SPECIFICATIONS

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
ELECTRO-ACOUSTICAL	
Frequency response (-3 dB) ¹	63 Hz - 18 kHz
Frequency range (-10 dB) ¹	55 Hz - 20 kHz
Coverage angles (-6 dB) [H x V]	75° x 75°
Maximum Peak SPL ²	126 dB
Continuous Maximum SPL ²	114 dB
System type	2-way coaxial system
Crossover frequency	1.4 kHz
Transducers	Coaxial driver with: LF: 1 x 12" driver (2.4" voice coil), HF: 1" compression driver (1.5" voice coil)
Enclosure type	Vented box
AMPLIFICATION	
Type	Class-D with SMPS
Total power ³	360 W
Output power per channel ⁴	LF: 180 W, HF: 180 W
Protection	Short circuit, temperature
Indicators	LEDs: ON (green), PROTECT (red)
Connectors	1 × XLR-Combo Line input, sym. 1 × XLR Line output, sym. powerCON® mains input twist connector powerCON® mains output twist connector
Operating Voltage	220 - 240 VAC / 50 - 60 Hz, 1.6 A 100 - 120 VAC / 50 - 60 Hz, 3.15 A, 360 W max.
Wiring	Pin layout XLR: Pin 2: Signal+, Pin 3: Signal-, Pin 1: Shield Pin layout powerCON®: Pin N: Neutral; Pin L: Conductor; Pin E: Earth, Ground
Input sensitivity	0 dBu
DSP	48 kHz/24 bit with extended dynamics, Processing latency: 1.1 ms
Processing	Crossover, Limiter, EQ, Level, low noise AD-DA
User controls	Power: ON/OFF switch Level: 8-position rotary knob (-10, -6, -3, -2, -1, 0, +2, +4) DSP presets: 3-position switch
MECHANICAL	
Product dimensions [H x W x D] (Including rigging)	342 x 520 x 449 mm
Net weight	15.95 kg
Packaging dimensions [H x W x D]	675 x 462 x 563 mm
Total weight	18 kg
Cabinet	15 mm plywood
Cabinet finishing	Black polyurea coating
Grille	Powder coated perforated steel
Hardware	2 side handles embedded in cabinet, Rubber feet
ACCESSORIES	
Transport cover	SMX 12A LT TC

¹ Whole space, -10dBu/ 1m

² SPL/ 1 m, wholespace, pink noise, 12 dB crest factor, +10 dBu input level

³ Total power value is the sum of all individual channel output power

⁴ According to EIA-426B Standard

All product specifications are subject to change without prior notice.

MECHANICAL DRAWINGS

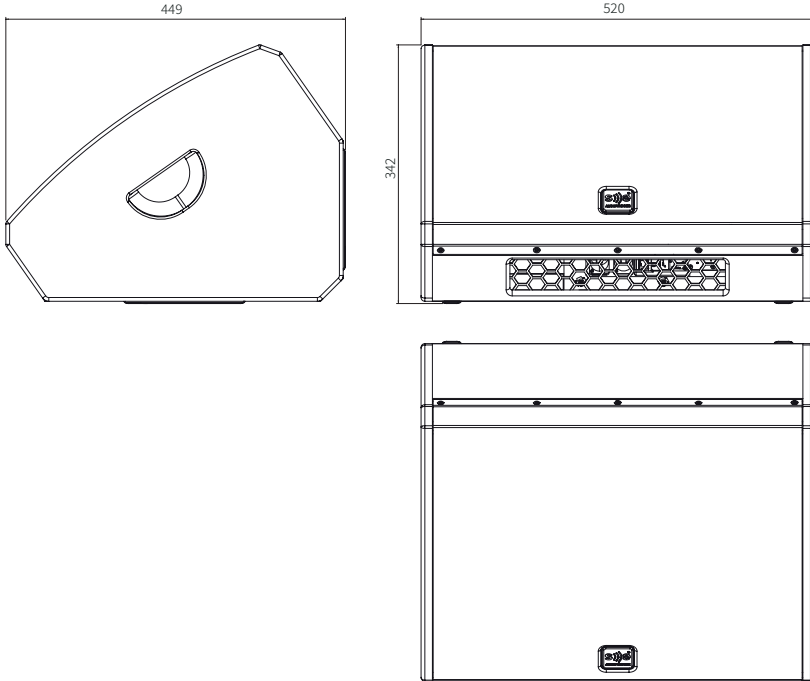


Figure 6. SMX12A LT views and dimensions. Annotations given in millimeters.

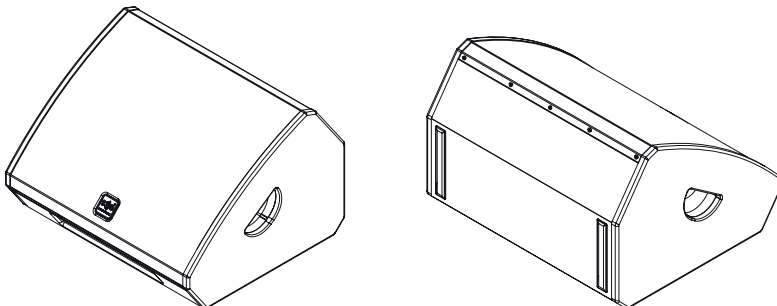


Figure 7. SMX 12A LT isometric views.

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MANUFACTURER'S DECLARATIONS

WARRANTY

SE AUDIOTECHNIK gives a warranty of 4 years on SE AUDIOTECHNIK products. The warranty period begins with the purchasing date. The warranty applies to material or production defects that occur. Defective components or products will be repaired or replaced free of charge by SE AUDIOTECHNIK at its own sole and exclusive discretion during the warranty period.

NOTE

SE AUDIOTECHNIK does not guarantee the uninterrupted and fault-free operation of the products.

The warranty does not apply:

- For wear parts and natural abrasion.
- For damage, defects or malfunctions caused by improper use or use for other than the intended purpose.
- For damage, defects and malfunctions caused by the use of force or environmental conditions.
- For unauthorized repair efforts.

REQUESTING WARRANTY SERVICES

The request for warranty service can be submitted to SE AUDIOTECHNIK or to the dealer from whom the SE AUDIOTECHNIK products were purchased.

In order to claim warranty service, you must provide proof of purchase and allow SE AUDIOTECHNIK to examine the warranty claim (e.g. sending in the products, examination at an authorized partner). Without proof of purchase, the provision of a warranty service can be rejected.

IMPORTANT NOTE

Your statutory warranty rights are not affected by this warranty. Furthermore, this warranty has no influence on any agreements you may have concluded with a dealer.

LIMITATION OF LIABILITIES

SE AUDIOTECHNIK is not liable for personal injury, material damage or claims resulting from inappropriate, dangerous or incorrect use of the products.

DECLARATION OF CONFORMITY

This device complies with the essential requirements and other relevant specifications of the directives of the countries in which the product is sold. The detailed declaration and the list of these directives and harmonized standards are provided on the website <https://se-audiotechnik.de> or <https://se-audiotechnik.com>.

Included are all product variants, as long as they comply with the original technical design and have not been subsequently modified mechanically, electrically or in their original condition.

CORRECT DISPOSAL OF PRODUCTS (ELECTRICAL WASTE)

SE AUDIOTECHNIK products must not be disposed of with other waste at the end of their service life to avoid possible harm to the environment or human health.

Private users can contact either the dealer from whom they purchased the products or the local authority for information on environmentally friendly disposal. Commercial users can contact their supplier, if they have any questions about disposal.

DECLARATION ON WEEE POLICY

SE AUDIOTECHNIK products are designed and manufactured with high quality materials and components that are intended to be recyclable and/or reusable.

SE AUDIOTECHNIK is WEEE registered in accordance with WEEE policy.

LICENSES AND COPYRIGHT

SE AUDIOTECHNIK products may directly or indirectly contain software that is necessary or complementary for their use. These software components may be SE AUDIOTECHNIK own developments or licensed and open-source products and solutions or a combination of the mentioned. In the case of open-source licenses, SE AUDIOTECHNIK will provide a copy of the source code and the full text of the corresponding license upon request in accordance with the license terms. Excluded from this and protected by copyright are own and licensed software solutions and software components.

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Designed in Germany

Version 2026/06

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