

C6 SE

Self-powered
PA Subwoofer Extension

USER MANUAL **EN**



s))e[®]
AUDIOTECHNIK

C-Line



Check our website for the latest digital version of this manual. If you encounter any errors in this document, feel free to let us know.

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The content of this document is subject to change without prior notice to improve reliability, function, design or otherwise.



Please read this user manual carefully, so you can make optimum and troublefree use of your product. Keep this document in a safe place and follow its instructions diligently.



When in use, this product is capable of producing high Sound Pressure Levels (SPL) that can lead to irreversible hearing damage to anyone.

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.

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How to use this manual

Symbol description

Throughout this document you will come across several symbols, which indicate various types of information. You can find each symbol and its meaning in the list below.



Important information

Pay special attention.



Advice

Helpful tips and recommendations.



Hearing damage

Possible hearing damage or even loss.



Prohibition

An interdiction, which you must follow.



Confirmation

This is okay.

Especially on the product itself you may see different types of labels. Here you can look up their meanings.



Risk of electric shock.



Important operating or maintenance instructions.



Earth/ground connection.



The equipment is for indoor use only.



Compliance with the low voltage and electromagnetic compatibility.



You should not place the item in the general waste. Waste Electrical and Electronic Equipment Directive (WEEE Directive).

Safety instructions



This unit has been engineered and manufactured to ensure your personal safety.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD.

Read the following precautions carefully and stick to them in order to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, fire or other hazards.

These precautions include, but are not limited to, the following items:

Electricity

- 01.** The power cord of the device is equipped with an earthing contact, it must be connected to an outlet with a protective ground. Never disconnect the protective ground of the power cord.
- 02.** Always unwind cable reels completely to prevent overheating or even fire hazards.
- 03.** Do not expose this equipment to rain or moisture, dripping or splashing liquids.
- 04.** Objects filled with liquids, such as vases, should not be placed on this apparatus.
- 05.** To reduce the risk of electric shock, do not attempt to open or modify any part of the unit. No user-serviceable parts inside. Leave servicing to qualified personnel only.
- 06.** Always disconnect the equipment from the power outlet, if there is risk of a lightning strike, or it's not being used for longer periods of time.
- 07.** To completely disconnect this equipment from the AC mains, pull the power cord plug from the AC outlet.
- 08.** If your equipment has been damaged and is no longer functioning properly, switch it off immediately and unplug it from the mains outlet.
- 09.** Do not step on the power cord. Make sure that the power cable does not become kinked.
- 10.** Never touch the power cord and power adapter with wet hands.



Read these safety instructions carefully.

General

- 01.** Please notice all the safety warnings. Never remove safety warnings or other information from the equipment.
- 02.** Use the equipment only in the intended manner and for the intended purpose.
- 03.** Use this equipment only with the accessories recommended and intended by the manufacturer.
- 04.** C6 and C6 SE are equipped with a powerCON® mains connector, which is locked by rotating it inside of the socket. This also means that a person can trip over the fixed power cord, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
- 05.** Clean the equipment using a dry cloth.
- 06.** Beware the comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
- 07.** Plastic bags must be kept out of children's reach.
- 08.** Never place inflammable items, e.g. burning candles on the equipment.
- 09.** Do not expose this equipment to flammable materials, fluids or gases.
- 10.** During operation or transport, make sure that the equipment cannot fall down and possibly cause property damage or personal injuries.

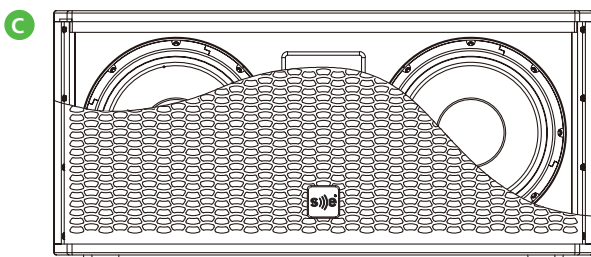
Setup & operation

- 01.** If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment.
- 02.** This product is NOT intended to be suspended on chains or ropes.
- 03.** Do NOT use handles or other methods to suspend the system, serious injuries can be the result! Make sure that the equipment is installed securely and cannot fall down.
- 04.** During installation, observe the applicable safety regulations for your country.
- 05.** Never install or operate the equipment near radiators, heat registers, ovens or other sources of heat. Make sure that the equipment is always installed so that it is cooled sufficiently and cannot overheat.
- 06.** Do not cover the metal panel at the rear side of the subwoofer, as it serves as a heat sink for the system amplifier. Keep a minimum distance of 50 cm to any other object for proper airflow.

Product overview

Package contents

- A**  **A** 1x Manual
- B**  **B** 1x Power cable
- C** 1x Subwoofer extension



Unboxing



Please inspect your C6 SE packaging for any damage that may have occurred during transport. If damage is found, notify the transportation company immediately.

If you decide to keep the product though it's packaging got damaged upon transit, please check for any visual damage before using it. Keep the shipping carton as evidence for inspection. Contact your SE Audiotechnik dealer or support centre for help.



Save all packaging materials and full package contents if you ever need to transport or resell the system.

Intended use

Professional plug and play PA subwoofer extension for indoor use with modular structure. Designed to enhance the **C6** column system, but can be used with other 3rd party equipment as well. Ideal for medium sized venues with a few hundreds of listeners.

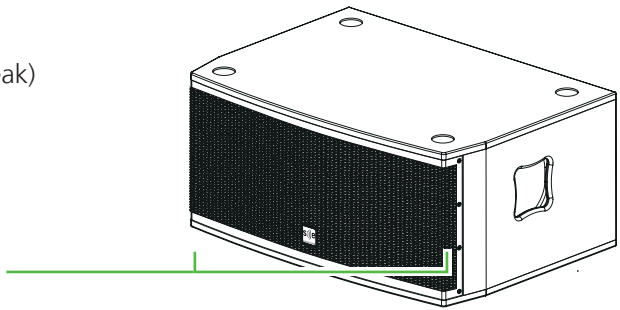
Main features

Class-D amplification

LF 800/1200 W (RMS/peak)

2x 10" Subwoofers

Symmetric bass reflex



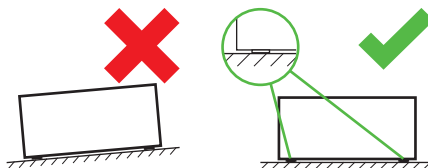
Quick start guide



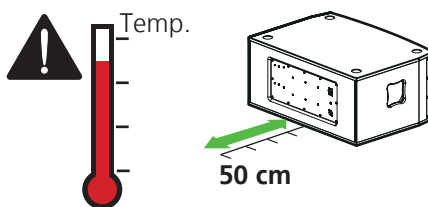
This guide briefly describes the main steps of extending your C6 column system by the C6 SE.

Precautions

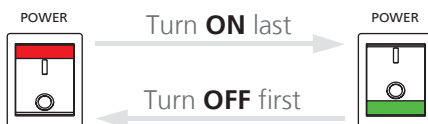
The subwoofer of **C6**, as well as the subwoofer extension **C6 SE** must be placed on level ground, standing on its rubber feet.



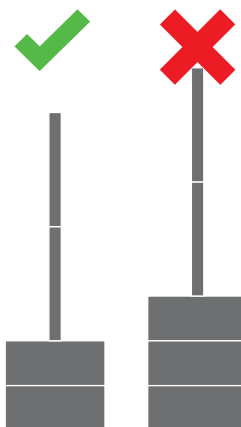
Ensure adequate cooling during operation with a minimum distance of 50 cm between the subwoofer's back panel and other objects such as walls.



Always turn on the **C6** system last and turn it off first to avoid damaging the speakers.

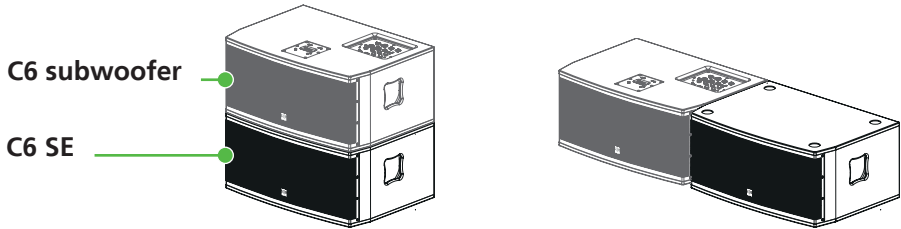


Never assemble a **C6** system with other than the intended single subwoofer extension.



Extension placement

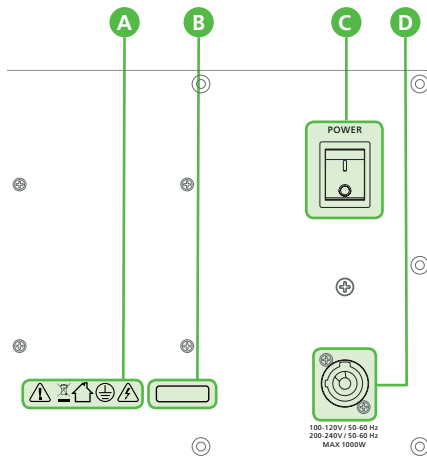
The ideal placement of your **C6 SE** subwoofer extension is right beneath the **C6** column system. This way the column system's rubber feet perfectly fit the recesses on top of the bass extension unit maintaining stability.



Depending on your application, you may also put the subwoofer extension to either side of the **C6** system.

User interface

Rear panel overview



A PRODUCT INFORMATION

☞ (see "Symbol description" on p.5)

B PRODUCT SERIAL NUMBER

Tell this code to the customer support, if you are in need of help.

C POWER SWITCH

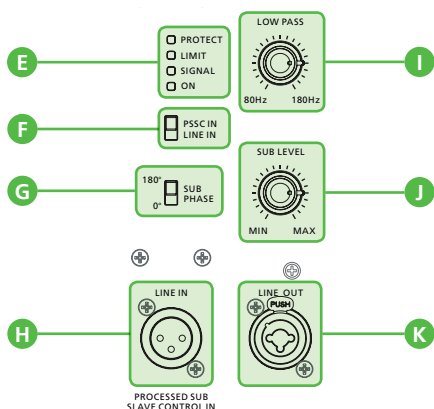
Turn the whole system on/off.

⏻ is ON and ⏻ is OFF position.

D POWER IN SOCKET

Connect the powerCON® cable here and twist it clockwise to lock.

GETTING STARTED



E MAIN INDICATORS

PROTECT LED

Indicates the system has shut down to protect its components from damage. The amplifier output is muted automatically.

LIMIT LED

Red color, indicates that the DSP limiter is triggered.

SIGNAL LED

Green color flashes according to the input signal level.

ON LED

Green color indicates that the system is turned ON.

F DSP MODE TOGGLE

PSSC IN (Processed Slave Sub Control)

Controls of **C6** are used only.

SUB PHASE (**G**), LOW PASS (**I**) & SUB LEVEL (**J**) are disabled.

LINE IN

Normal active subwoofer mode.

G SUB PHASE TOGGLE

Toggle the phase between 0° & 180° to match phase response with eg. other 3rd party equipment. (see "DSP MODE TOGGLE" on p.12)

H LINE IN (XLR)

Connect to either **C6** system's processed output "To C6 SE", or to any line level audio source here.

I LOW PASS ROTARY KNOB

Adjust the Low pass frequency here
Check DSP mode (see "DSP MODE TOGGLE" on p.12)

J SUB LEVEL ROTARY KNOB

Adjust the subwoofer level here.
 (see "DSP MODE TOGGLE" on p.12)

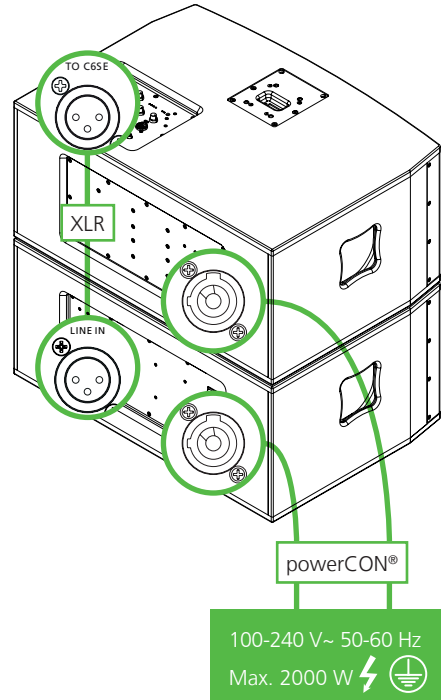
K COMBO LINE OUT (XLR/6,35 mm)

Connect another **C6** SE or any other 3rd party active loudspeaker here, as it transfers the incoming signal from the LINE IN.

Mono setup example

How do I integrate the C6 SE into a single C6 column system?

- ① Place the **C6 SE** at your desired location and put the **C6** subwoofer on top of it.
- ② Set the DSP mode of **C6 SE** to PSSC IN. 🎧 (see “DSP MODE TOGGLE” on p.12)
- ③ Use an XLR cable and connect the TO C6 SE output socket on the **C6**’s mixer to the LINE IN socket at the back panel of **C6 SE**.
- ④ Plug in the powerCON® cable into the POWER IN socket on each units’ rear side panel and connect both cables to the mains outlet.
- ⑤ Set up both column modules to the corresponding connector on top of **C6**.
- ⑥ Connect your audio source/s to the mixer.
- ⑦ Turn the POWER SWITCH of **C6** on first and **C6 SE** second.
The ON LED on each unit should indicate a constant green light.

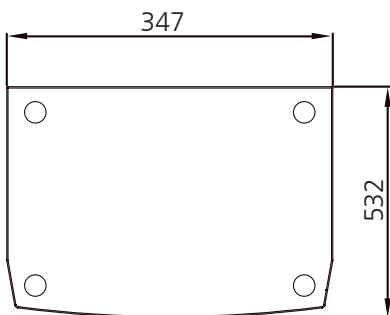
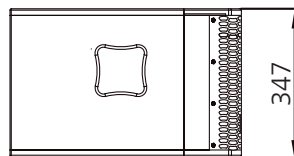
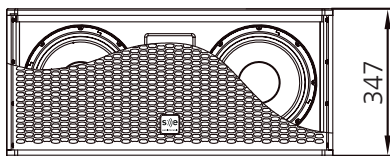


Specifications

Parameter	Value
Type	Bass-reflex
Transducers	2x 10" woofers (2.5" VC)
Frequency range (-6 dB)	43–270 Hz
Dispersion pattern	Omnidirectional
Max. SPL (@1 m)	134 dB peak ¹
Cabinet	Plywood with ¹ black polyurea coating
Audio inputs	1x Line in (XLR female)
Audio outputs	1x Line out (XLR male)
Indicators	Power on, signal, limit, protect
Controls	1x Subwoofer level 1x Low pass filter 1x 0/180° Phase inverse switch 1x Line in selector switch (Line in/Slave mode)
DSP	48 kHz, 24-bit processor with extended dynamics processing, latency: 1.1 ms
Amplification	class-D
	Subwoofer(PMS): 800 W
	Subwoofer(peak): 1200 W
Signal processing	Crossover, limiter, EQ;
Protection	Short curcuit, temperature, current limit;
Mains connection	Neutrik PowerCON®
Mains power	100–240 VAC, SMPS with PFC
Dimensions (WxHxD)	750 x 347 x 532 mm
Weight	~26 kg

¹ Measured with 12 dB crest factor pink noise, whole space.

Mechanical dimensions



All values in milimeters.

