

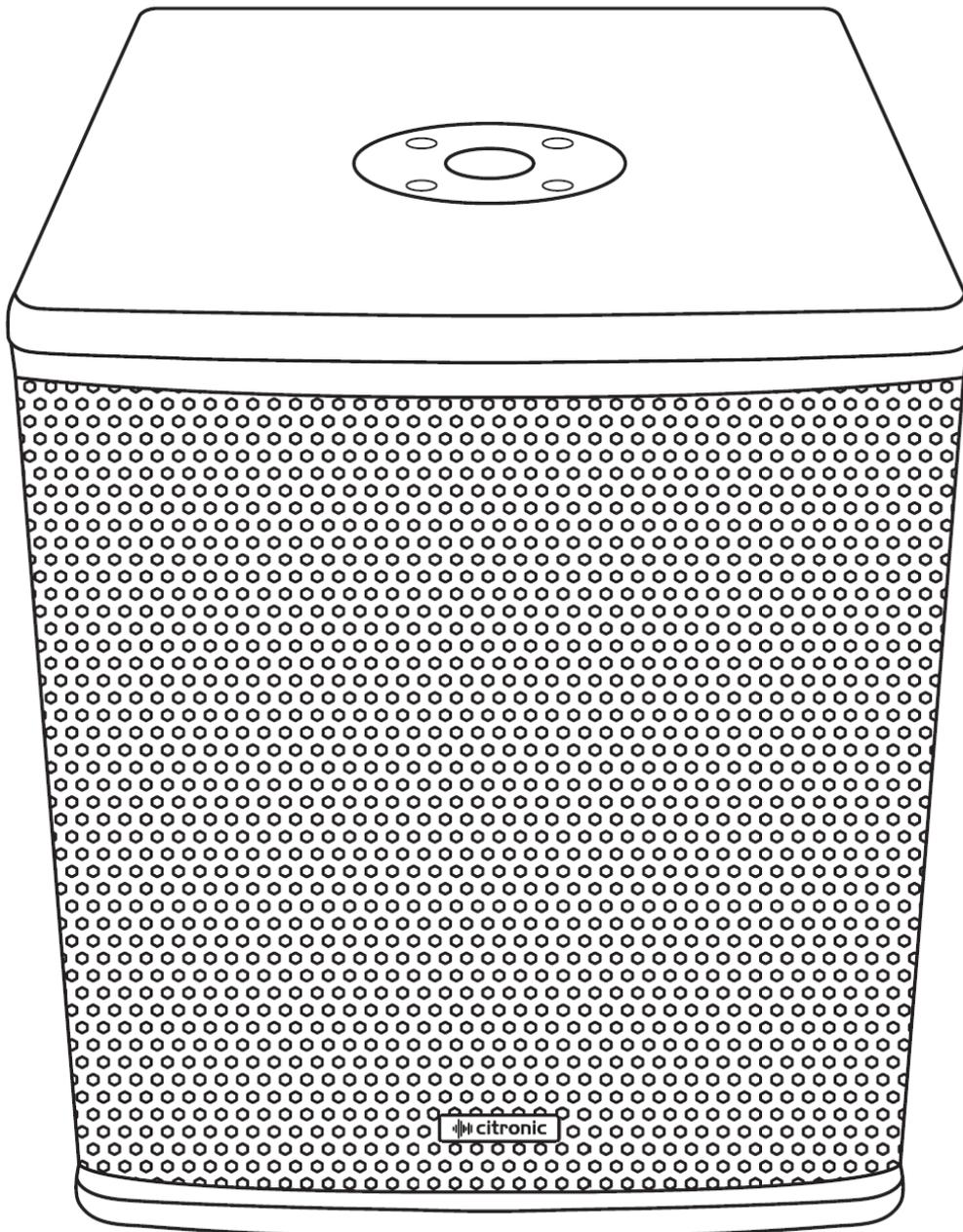
CUBA

Active Subwoofer Cabinets

Item ref: CUBA-15SA 178.725UK

CUBA-18SA 178.728UK

User Manual



Version 1.0



Caution: Please read this manual carefully before operating
Damage caused by misuse is not covered by the warranty

Introduction

Thank you for choosing a CUBA active subwoofer as part of your sound system. This product is designed to provide high energy sub frequency content to complement a full range PA system. Please read this manual to achieve optimum performance from your sub cabinet and avoid damage through misuse.

Package Contents

- CUBA-series active subwoofer
- Mains lead(s)

If you find any part is missing or the product has arrived with any problems, please contact your retailer at once. This product contains no user-serviceable parts, so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original package and proof of purchase for any possible replacement or return issues.

Warning

To prevent the risk of fire or electric shock, do not expose any of the components to rain or moisture. Avoid impact to any of the components. No user serviceable parts inside - refer servicing to qualified service personnel.

Safety

- Please observe the following warning conventions



**CAUTION: RISK OF ELECTRIC SHOCK
DO NOT OPEN**



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

- Ensure that the correct mains lead is used with adequate current rating and mains voltage is as stated on the unit
- Avoid ingress of water or particles into any part of the housing. If liquids are spilled on the cabinet, stop using immediately, allow the unit to dry out and have checked by qualified personnel before further use

 **Warning: this unit must be earthed**

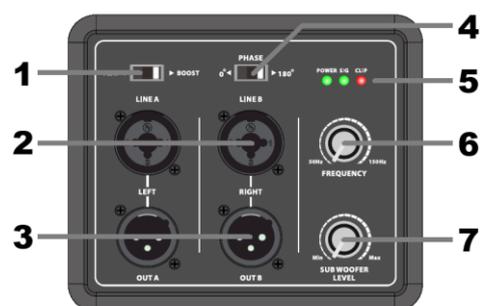
Placement

- Keep the electronic parts out of direct sunlight and away from heat sources.
- Position the cabinet on a stable surface that is adequate to support the weight of the product.
- Allow adequate space for cooling and access to controls and connections at the rear of the cabinet.
- Keep the cabinet away from damp or dusty environments.

Cleaning

- Use a soft dry or slightly damp cloth to clean surfaces of the cabinet
- A soft brush can be used to clear debris from controls and connections without damaging them
- To avoid damage, do not use solvents to clean any parts of the cabinet.

Input panel layout



1. FLAT-BOOST switch
2. XLR/6.3mm line inputs L+R
3. XLR Line outputs L+R
4. PHASE switch 0°/180°
5. POWER/SIGNAL/CLIP indicators
6. Low pass filter FREQUENCY control
7. SUBWOOFER LEVEL control

Setting up

Position your CUBA active subwoofer(s) on a stable surface capable of supporting the load and vibrations from the cabinet. For maximum sound delivery, position with the back close to a solid wall or in a corner of the room.

Aim the cabinet towards the audience or listeners and not in direct line of sight with any microphones that are connected to the sound system. This is to avoid feedback (howling or booming caused by the microphone "hearing" itself amplified). Also, keep microphone stands away from the subwoofer to avoid vibrations being transferred to the microphones.

If a single CUBA active subwoofer is to be used with a stereo pair of active full-range speakers, connect both Left and Right outputs from the mixer into the Left + Right inputs of the CUBA active subwoofer (2). Connect the Left + Right OUTPUT XLRs (3) to the relative full-range active speaker(s).

The internal filter removes mid and high frequencies from the audio to the subwoofer to provide a clean crossover between the CUBA sub and the full-range cabinets that are used with it. The cutoff frequency of this filter can be adjusted between 50Hz and 150Hz (6) to avoid crossing the lowest frequencies produced by the full-range cabs.

To compensate for removing mid and high audio content, there is a BOOST switch (1) to increase the input gain, ensuring that the subwoofer has adequate input signal to drive the amplifier section. The overall subwoofer output is governed by the SUBWOOFER LEVEL control (7)

When all signal connections are made, connect the power lead provided (or equivalent) from the mains power supply to the IEC inlet on the CUBA subwoofer. Ensure that the mains voltage is as indicated on the rear panel.

Operation

With the SUBWOOFER LEVEL control turned fully down, switch on power to the CUBA subwoofer. Ensure that a signal is playing to the input(s) and gradually increase the SUBWOOFER LEVEL to the required level.

Adjust the FREQUENCY control to compliment the full-range cabs and apply the BOOST if needed.

Depending on the orientation of the CUBA sub in relation to other cabinets, there can be a phase cancellation effect that reduces the sound level between them at certain frequencies. For this purpose, there is a PHASE switch (4) to correct the direction of the sub driver. It is advisable to check which setting (0° or 180°) is most effective if subs are facing each other or there seem to be dead spots in the sub frequencies. Either of these settings should also be checked if there is sub feedback through stage microphones to see if it is beneficial.

During operation, there are 3 status LEDs to observe (5)

- POWER stays lit to show that the unit is powered up.
- SIG lights to indicate an audio signal is present.
- CLIP should only light briefly on the loudest parts of audio (usually beats of a kick drum or other loud transients). If this LED lights for longer periods, it is advised to reduce the SUBWOOFER LEVEL to avoid overload.

Turn down the SUBWOOFER LEVEL before powering down the CUBA active subwoofer to avoid loud noises and disconnect from the mains supply if not being used for long periods.

Specifications

Model	CUBA-15SA	CUBA-18SA
Power supply	100-240Vac, 50/60Hz (IEC)	
Construction	Polyurea-coated MDF + steel grille	
Impedance	8 Ohms	
Amplifier: construction	Class-D (DSP controlled)	
Output power: rms	800W	1200W
Output power: max.	1600W	2400W
Driver	380mmØ (15")	450mmØ (18")
Voice coil	100mmØ	100mmØ
Magnet	3.54kg (125oz)	4.25kg (150oz)
Sensitivity @ 1W/1m	98dB	99dB
Frequency response	37 - 113Hz	30 - 103Hz
Dimensions	570 x 550 x 445mm	725 x 640 x 520mm
Weight	30.5kg	45.0kg



Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

The full text of the EU declaration of conformity for 178.725UK is available at the following internet address:

<http://www.avsl.com/assets/exportdoc/1/7/178725UK%20CE.pdf>

The full text of the EU declaration of conformity for 178.728UK is available at the following internet address:

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