

CASA-28BA

Compact Active Subwoofer Cabinet

Item ref: CASA-10BA 178.228UK

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 CASA-28BA active subwoofer as part of your sound system. This product is designed to enhance a full-range sound system with powerful sub-frequencies and transients. Please read this manual to achieve optimum performance from your sub cabinet and avoid damage through misuse.

Package Contents

- CASA-28BA compact active subwoofer
- Mains lead(s)
- User manual

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**

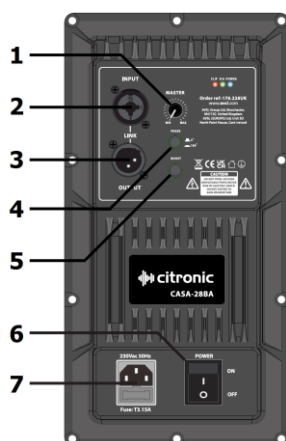
Placement

- 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.

Rear panel layout



1. Output level control
2. Line input - combo XLR / jack
3. Line output - XLR
4. Phase switch 0°/180°
5. Boost switch
6. Power on/off switch
7. IEC mains inlet & fuse holder

Setting up

Position your CASA-28BA active subwoofer 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. The cabinet may be stood upright for a minimal footprint or on its side with the 35mm pole socket facing upward. A standard 35mmØ speaker pole can be inserted into this socket to support a full-range or mid-top cabinet to form a full PA stack.

Aim the CASA-28BA sub 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.

Connect a standard line level (0.775Vrms @ 0dB) output from a mixer or other audio source to the line input of the CASA-28BA via either balanced XLR connection or 6.3mm (jack) plug. If the signal is to be daisy-chained onto another active cabinet (full-range or sub), connect the XLR line output from the CASA-28BA to a line input on the active cabinet. The output of the CASA-28BA is filtered to produce only low frequencies with controlled dynamics using an internal DSP for optimal performance but the line output is unaffected by this.

Ensure that the output level control is turned fully down and connect the IEC mains inlet to a suitable mains power outlet using the IEC mains lead provided (or equivalent).

Operation

Switch power on to the CASA-28BA cabinet and whilst playing a line signal into the input, gradually increase the output level control to the required output level.

A boost switch on the rear panel will add a pre-set increase to the the CASA-28BA output. To avoid damage, do not switch this in when playing at high volume. It is recommended to turn down the output level control, press in the boost switch and then increase the output level again to the required volume.

There are 3 LED indicators at the top of the CASA-28BA rear panel, which are labelled CLIP, SIG and POWER. When the unit is powered up, the POWER LED will be lit. When the subwoofer is playing at normal levels, the SIG LED will light periodically in sync with the audio signal. If this audio level exceeds the normal levels, the amplifier will "clip" the signal, producing an aggressive and distorted output and the CLIP LED will light. If this LED lights any more than momentarily, the output level control should be turned down to a lower setting to avoid overdriving the internal amplifier or damaging the subwoofer drivers.

Due to the long wavelength of lower frequencies, it is easier for different speakers to be out of phase with each other, which can have a detrimental effect on the output level. If phase cancellation is suspected between 2 sub cabinets, try switching the phase switch between 0° and 180° to see which is the loudest or least affected setting. This switch can also help to avoid feedback with certain microphone placements or types of musical instrument.

Turn down the output level control before powering down the CASA-28BA to avoid loud noises and disconnect from the mains supply if not being used for long periods.

Specifications

Power supply	230Vac, 50Hz (IEC)
Construction	15mm MDF with durable texture paint finish
Hardware	Integral carry handle & 35mm pole mount socket
Amplifier: construction	Class-D
Line input	Balanced XLR / 6.3mm jack
Line output	Balanced XLR
Controls	Master level, Phase switch, Boost switch
Drivers	2 x 200mmØ (8") woofers
Frequency response	55 - 150Hz
Output power rms	400W
Output power max.	700W
Peak output	1400W
SPL max.	122dB
Dimensions	475 x 450 x 250mm
Weight	15.7kg



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.

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