citronic

CUBA

Active Wooden Speaker Cabinets with Bluetooth®

Item ref:	CUBA-6A	178.706UK
	CUBA-6AW	178.746UK
	CUBA-8A	178.708UK
	CUBA-8AW	178.737UK
	CUBA-10A	178.710UK
	CUBA-10AW	178.740UK
	CUBA-12A	178.712UK
	CUBA-15A	178.715UK

User Manual



Version 1.3

⚠	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 speaker cabinet as part of your sound system.
This product is designed to provide flexible, powerful and efficient output for a wide range of sound reinforcement applications. Please read this manual to achieve optimum performance from your speaker cabinet and avoid damage through misuse.

Package Contents

- CUBA-series active speaker cabinet
- Mains lead(s)

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**

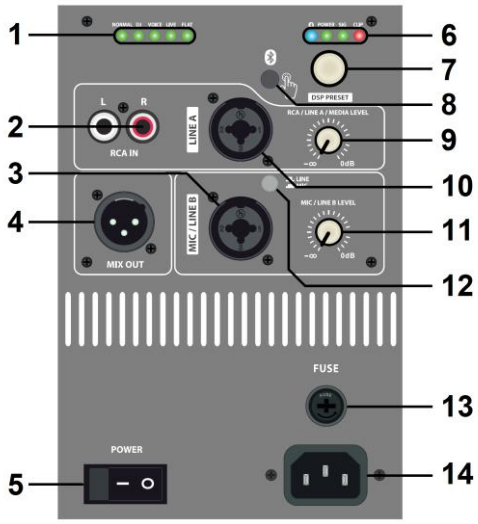
Placement

- Keep the electronic parts out of direct sunlight and away from heat sources.
- Position the cabinet on a stable surface or stand 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

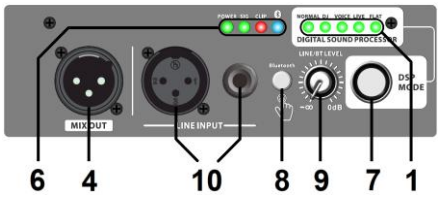
- Use a soft dry or slightly damp cloth to clean surfaces of the cabinet
- A soft brush can be used to clear debris from controls and connections without damaging them
- To avoid damage, do not use solvents to clean any parts of the cabinet.

Rear panel layout



1. DSP tone profile setting indicators
2. LINE A input L+R RCA sockets
3. MIC/LINE B input XLR/jack socket
4. MIX OUT line output XLR
5. POWER on/off switch
6. Bluetooth & amp status indicators
7. DSP tone profile rotary selector
8. Bluetooth on/off button
9. LINE A input & Bluetooth level control
10. LINE A input XLR/jack socket
11. MIC/LINE B input level control
12. Input 2 MIC or LINE level switch
13. Fuse holder (on IEC for CUBA 8A/10A)
14. Mains inlet IEC

(CUBA-6A controls)



Setting up

Position your CUBA active speaker cabinet(s) on a stable surface capable of supporting the load and vibrations from the cabinet or ideally on a strong 35mmØ pole mount or speaker stand with an adequate safe working load to support the cabinet. Also, each CUBA cabinet has M8 flying points for suspending from a ceiling or truss if required. It is recommended to use 3 or more fixing points for suspension.

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 to avoid feedback (howling or squealing caused by the mic "hearing" itself)

Each CUBA active speaker has an inbuilt Bluetooth receiver, which is on at power-up and can be switched off by the Bluetooth on/off button (8).The blue status LED (6) will flash to indicate pairing mode. Search for CUBA-6A, CUBA-8A, CUBA-10A, CUBA-12A, or CUBA-15A in the Bluetooth menu of the smart phone and select to pair. Once paired, the LED will be lit constantly and the audio output from the smart phone will be streamed wirelessly to the CUBA speaker. This input is governed by the LINE A input & Bluetooth level control (9). Pressing the Bluetooth on/off pairing button briefly will switch the Bluetooth receiver on or off. If a previously paired device is within range, the Bluetooth receiver will auto connect. Holding this button will cause the LED to flash quickly – removing any pairing.

If a mixing console is being used to control input sources, connect the output of the mixer to the CUBA cabinet LINE input (10) or alternatively MIC/LINE (3) with "LINE" selected on the MIC/LINE switch (12) using XLR or 6.3mm jack connectors. If the system is in stereo, then usually one CUBA cabinet will serve the right-side output and another for the left-side output. Normally, the volume of the CUBA cabinet LINE input is turned up high and the output will be controlled at the mixer.

A microphone may also be connected directly to input A if the MIC/LINE switch (12) is in the "MIC" position.

If a playback device (e.g. mp3 or CD player) is to be connected directly to the CUBA cabinet, this is usually connected to the LINE A input L+R RCA connectors (2). For CUBA-6A, this would be 6.3mm jack or XLR.

If the inputs to the CUBA speaker cabinet are to be linked onto a further active cabinet or amplifier, the mix of all MIC/LINE/Bluetooth inputs can be fed from the MIX OUT line output XLR to further equipment (4)

When all necessary connections are made, finally connect the supplied IEC power cable (or equivalent) from the mains power supply to the IEC power inlet on the CUBA speaker cabinet, ensuring that the supply voltage is as indicated on the CUBA speaker unit (14)

Operation

With both volume controls turned fully down, switch on the power (5) to the CUBA speaker cabinet.
The red power LED (6) will light to confirm powering up.

If a smart phone is paired with the CUBA cabinet, make sure that the Bluetooth receiver is switched on (8) and play a track from the smart phone to test the speaker, turning up the level control (9) gradually.

If a mixer is connected to the CUBA speaker unit, ensure a signal is present, turn up the mixer output part way and gradually increase the volume of the input that the mixer is connected to for checking the output from the CUBA speaker. If the sound is present and OK, turn down the mixer and turn up the CUBA speaker to the maximum required output and control the volume from the mixer.

The status LEDs (6) include "SIG" and "CLIP" indicators. The "SIG" LED will light to show when a signal is present, and the "CLIP" LED should only light briefly on the loudest beats or transients.
If this LED lights more continuously, it will be necessary to turn the volume control(s) down to avoid overload.

If a microphone is connected directly to MIC/LINE A input (3), speak into the microphone whilst gradually increasing the volume of the MIC/LINE A input (11) until the required sound level is reached.

For playback devices connected to the LINE B input (2), play an audio track with the playback device volume turned up part way and gradually increase the volume of the LINE B input (9) so that the output can be checked and increase to the required output level.

The CUBA active cabinets have an inbuilt DSP which has 5 optimal settings for different types of input or audio program material: Normal / DJ / Voice / Live / Flat. Although quite self-explanatory, it is worth experimenting with each profile to find the ideal EQ and tone response for each application. Simply turn the DSP rotary selector (7) and the DSP setting indicator LEDs (1) show which setting is active.

Before powering down the CUBA speaker unit, turn down all volume controls to avoid loud noises.
If not being used for long periods, disconnect from the mains power supply.

Specifications

Model	CUBA-6A (+W)	CUBA-8A (+W)	CUBA-10A (+W)	CUBA-12A	CUBA-15A
Power supply	230Vac, 50Hz (IEC)				
Main driver	165mmØ (6.5")	200mmØ (8")	250mmØ (10")	300mmØ (12")	380mmØ (15")
Voice coil	30mmØ (1.2")	50mmØ (2")	50mmØ (2")	64mmØ (2.5")	64mmØ (2.5")
HF driver	25mm (1.00")	35mm (1.35")	35mm (1.35")	35mm (1.35")	44mm (1.75")
Power: rms	100W	250W	270W	400W	450W
Power: max.	200W	500W	540W	800W	900W
Power: peak	300W	800W	880W	1120W	1400W
Sensitivity	92dB	94dB	95dB	98dB	99dB
Max. SPL	115dB	121.0dB	122.5dB	123.0dB	124.0dB
Inputs	XLR/jack mic/line, XLR/jack/RCA line (CUBA-6A: XLR/jack line)				
Audio source	Bluetooth receiver				
Line output	XLR				
DSP settings	Normal, DJ. Voice, Live, Flat				
Dimensions (mm)	325 x 235 x 210	435 x 265 x 265	507 x 313 x 307	625 x 385 x 380	708 x 434 x 430
Weight	5.2kg	10.7kg	16.2kg	19.2kg	24.7kg

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.

Hereby, AVSL Group Ltd. declares that the radio equipment type 178.706UK, 178.708UK, 178.710UK, 178.712UK, 178.715UK, 178.737UK, 178.740UK, 178.746UK is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity for 178.706UK is available at the following internet address:http://www.avsl.com/assets/exportdoc/1/7/178706UK%20CE.pdf

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The full text of the EU declaration of conformity for 178.715UK is available at the following internet address:http://www.avsl.com/assets/exportdoc/1/7/178715UK%20CE.pdf

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