

DEVINE



SUB series (SUB 115A, SUB 118A)

Powered subwoofer

Introduction

Thank you for purchasing this passive Devine Artis subwoofer. To make sure you use this loudspeaker as intended and for optimal performance and protection of this speaker, Devine recommends you read this user manual.

Box contents:

1x SUB subwoofer (SUB 115A, SUB 118A)

1x power cable

Warning!

- This subwoofer is not suitable for use outside. Keep this speaker away from moisture and rain.
- This subwoofer is capable of producing sound levels that may cause severe and permanent hearing damage.
- Make sure the speaker cabinet is installed on a proper surface when used.
Devine is not responsible for any damage caused by improper installation of this device.
- To clean this speaker from any dirt or dust and keep it in optimal shape, use a sponge or cloth with a non-aggressive solution mixed with water. Do not detach the grill to clean the speaker with any wet cloth, as this may cause permanent damage!
- Always check the voltage settings on the unit and the power supply you want to connect the device to. If the voltage requirements do not meet, do not connect the device as this may cause serious damage.
- This unit must be connected to a grounded power supply that meets the voltage requirements of the device.
- Do not cover the heatsink on the rear of the amplifier module and do not place the speaker directly against any walls or objects to prevent overheating.

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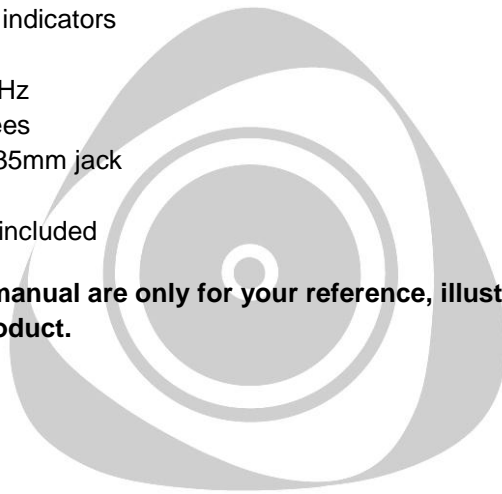
Features and technical data:

- powered subwoofer
- robust, lightweight construction
- bass-reflex cabinet
- protective grill
- 15 inch woofer with 3 inch voice coil (SUB 115A), 18 inch woofer with 4 inch voice coil (SUB 118A)
- handles on the sides
- 35mm stand adapter for distance poles
- max. SPL @1m: 123dB (SUB 115A), 120dB (SUB 118A)
- cont. SPL @1m: 126dB (SUB 115A), 123dB (SUB 118A)

Amplifier module features:

- power: 500W RMS (SUB 115A), 750W RMS (SUB 118A)
- peak power: 850W (SUB 115A), 1250W (SUB 118A)
- amplifier impedance: 8 Ohm
- built-in Clip and Power LED indicators
- master volume control
- built-in crossover: 20 – 200 Hz
- phase switch: 0 – 180 degrees
- L+R stereo input: XLR or 6.35mm jack
- L+R stereo output: XLR
- IEC to Shucko power cable included

NOTE: Illustrations in this manual are only for your reference, illustrations might be slightly different from the actual product.



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Use of the speaker

Both the SUB 115A and the 118A subwoofers are perfect for producing low frequencies, also known as bass. The SUB 115A produces a sound that accentuates kicks and gives a bass-punch, while the SUB 118A has a larger woofer and is more capable of reproducing the lowest bass sounds, providing a deep, warm bass. The SUB-series subwoofers are equipped with their own amplifier module, which eliminates the need of an external amplifier. This amplifier module matches perfectly with the characteristics of the other components.

The subwoofers are equipped with an internal crossover, which can enhance your sound performance and audio quality, when using active speakers for your high and mid frequencies. The internal crossover takes the incoming signal (coming from your PA- or DJ-mixer) and takes out the low frequencies. These low frequencies will be reproduced by the subwoofer itself. The high and mid frequencies will be sent to your connected active speakers.

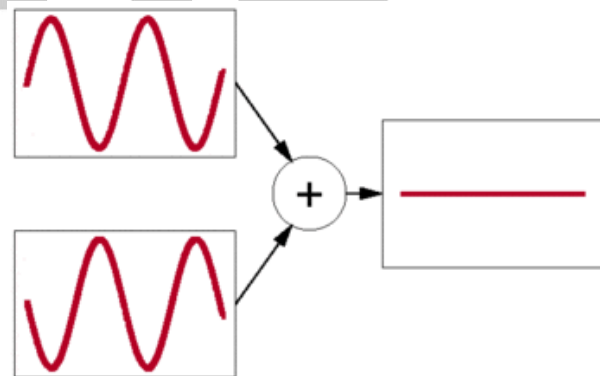
This system provides optimal performance, because your normal speakers do not have to reproduce low frequencies anymore, leaving more room for your high and mid performance. The subwoofer also receives the right frequencies, as your subwoofer can not reproduce high and mid frequencies.

The internal crossover is variable, so you can adjust the crossover point as you wish. This way you can use any active speaker above this subwoofer, while changing the crossover frequency for optimal performance and sound.

Make sure to connect the right audio sources to the right inputs and connect other active speakers using the correct outputs. The subwoofer is capable of handling stereo signals, with XLR or 6.35mm jack inputs. This way you can use one subwoofer with 2 active speakers, or one subwoofer on each side if you prefer. The XLR outputs can be connected to most active speakers with a standard XLR-XLR cable.

The internal 35mm distance pole adapter makes it possible to increase the distance between your subwoofer and speakers. The subwoofer stays on the ground due to its weight and acoustical benefits, while your speakers can be placed on a sufficient height. This way the high and mid frequencies can be spread more evenly over your audience and the soundwaves will project further.

The built-in phase switch is provided for certain acoustic problems. When placing the speakers at a slightly deviating parallel line, your frequencies will be extinguishing each other, thus causing certain frequency to be absent. This is also possible when using active speakers and subwoofers that have certain frequencies in common (as the crossover point is not a straight wall, but a slightly deviating X-point.) The phase switch will shift the frequencies slightly, thus placing the soundwaves of your frequencies in perfect parallel shape. In use however, use your ears to determine which sounds better. Do not use the switch when not needed (try to place the subwoofers on a parallel line first), but when you hear that certain frequencies are missing, you might want to experiment with the phase switch.



Warranty is void when damage to this speaker is caused by improper use. When any damage to this speaker occurs, please contact your local dealer for help.

Power amplifier module section

The built-in amplifier module, plus the several connections and controls, are situated at the rear of the subwoofer. The controls and connections are defined below:



1. Volume control	9. Output R XLR
2. Frequency control (crossover 20-200Hz)	10. Clip limiter LED indicator
3. Phase switch (0/180 degrees)	11. Power LED indicator
4. Input L XLR	12. 115/230V switch (pre-defined, do not switch!)
5. Input R XLR	13. IEC power inlet with fuse holder
6. Input L 6.35mm jack	14. On/off switch
7. Input R 6.35mm jack	15. Amplifier module heatsink
8. Output L XLR	

Practical information and tips for optimal use of your speaker system

For optimal performance and a long lifespan of your speaker, please pay attention to the following when using your Devine subwoofer:

- This speaker is equipped with a CLIP limiter, which prevents damage to the speaker. This CLIP limiter will activate at excessive volume levels and a red LED shows when the CLIP limiter is active. Prevent the activation of the CLIP limiter system and the indicating LED. The CLIP limiter protects the system from permanent damage, but is only effective at peak signals. Long term exposure causes distortion and power overload, with possible permanent damage to your speaker system.
- When using an external mixer (such as a PA-mixer or DJ-mixer, make sure your master channel sends out signals at 0dB maximum. This will provide optimal signal quality and with the volume control on the speaker you are able to turn up the volume, just before the CLIP limiter LED will slightly flash. This way you are using the speaker to its full potential with optimal sound quality.
- When using the crossover system and adjusting the volume and/or frequency balance between your speakers and subwoofer(s), keep the master volume on a medium, neutral level which is comfortable to your ears.
- Do not remove the protective cover in front of the voltage-switch. The correct voltage is pre-defined at 230V AC. When selecting the wrong voltage you may cause permanent damage to the speaker and its internal components. Only select the 115V AC option when your local power source is capable of delivering this voltage.
- Do not switch the power on and off frequently as this reduces the lifespan of the speaker and its internal components. The speaker can be used for a whole day without any cooling-down time, if sufficient cooling is provided.
- The speaker is equipped with an internal fuse, located directly above the IEC power input section. If this fuse blows for any reason, only replace it with a fuse that has the same values as the original fuse. Do not bridge the gap with any electrical wiring or whatsoever as this voids your warranty.
- Severe shocks and impact must be prevented as much as possible. Secure this speaker properly in place during transport to prevent damage to the housing and the internal components of the speaker.