

HFA118s/HFA118sHP
ACTIVE Hybrid-Horn Subwoofer
USER MANUAL

V201609

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INTRODUCTION

Thank you for purchasing a NEXT HFA118s(HP) **ACTIVE** Hybrid-Horn Subwoofer. This manual will provide you with useful and important information about your HFA118s element. Please devote some time reading this manual, and keep it at hand for future reference. NEXT-proaudio is concerned with your safety and well-being, so please follow all instructions and heed all warnings. Also, a better understanding of some specific features of the HFA Series systems will help you to operate them to their full potential. With a continuous evolution of techniques and standards, NEXT-proaudio, reserves the right to change the specifications of its products without early warning. For the most current data, please visit our website: www.next-proaudio.com

UNPACKING

NEXT HFA Series systems are built in Europe (Portugal) by NEXT-proaudio, according to the highest standards and thoroughly inspected before they leave the factory. When unpacking your HFA118s, examine it carefully for any signs of possible transit damage and inform your dealer immediately if any such damage has occurred.

It is suggested that you retain the original packaging so that the HFA118s can be repacked in the future if necessary. Please note that NEXT-proaudio and its authorized distributors cannot accept any responsibility for damage to any returned product through the use of non-approved packaging.

HFA SUBWOOFER SERIES OVERVIEW

The HFA speaker series are fully powered PA systems, designed to deliver high output and dynamics, extreme linearity and fidelity for unrivalled performance at a very competitive price.

Entirely manufactured in Portugal, the HFA speaker series uses superb quality custom made components, loading birch plywood enclosures coated by a scratch resistant textured paint to assure an outstanding performance and durability.

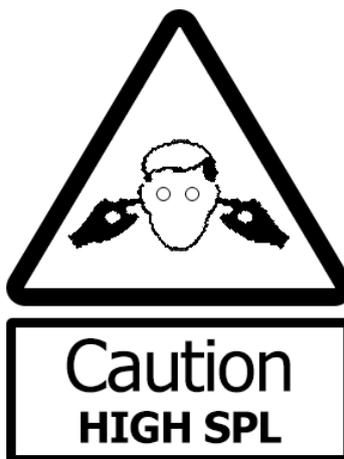
The integration with the new DPAmplifier modules with up to 2200 Wrms, and the advanced digital signal processing, set a new standard for distortion, noise and thermal efficiency. A surprisingly simple handling concept lets you plug in and play straight away. Configure the system by selecting the right preset and let the system do the rest.

The HFA112s and HFA118s have the ability to power an external passive satellite up to 550Wrms keeping 1100Wrms for its own power. The HFA118sHP does **not** have the ability to power an external passive satellite but is able to handle up to 2200 Wrms of power.

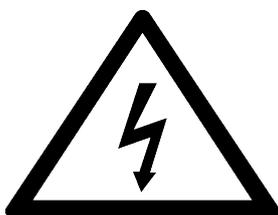
SAFETY FIRST

Please pay close attention to this chapter. Failure to comply with these instructions may result on injury or death.

DANGER – HEARING DAMAGE



NEXT HFA Series systems are capable of producing extremely high sound pressure levels and should be used with care. Hearing loss is cumulative and can result from levels above 90dB if people are exposed for a long period. Never stand close to loudspeakers driven at high levels.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICE TO QUALIFIED PERSONNEL**

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- Do not use your HFA118s near any sources of water, like swimming pools, lakes, water streams, exposed to rain, high humidity environments or any other source of water or moisture.
- Use only a soft dry cloth to clean your HFA118s.
- Never place your HFA118s in a way that prevents air flow near the amplifier. A minimum clearance distance of 6cm should be kept between the amplifier and any near surface.
- Never use your HFA118s too close to any heat source, such as radiators, or any other device that produces heat.
- When mounted on a pole, always ensure that the floor or structure where the stack will take place is even and can withstand the weight.
- Place cables in a way that they do not present a trip hazard.
- Do not place any objects on top of the stack, they can fall accidentally and cause injuries.
- Do not attempt to move the enclosures while connected.
- Do not attempt to service the HFA118s beyond what is described in this manual. All other service or repair of this product should be carried only by qualified personnel.
- To prevent electric shock, do not use any extension cord, receptacle or other outlets where the blades of the connectors cannot be fully inserted.
- Precautions should be taken to prevent grounding failure or polarity switch.
- It is advised to unplug the HFA118s during storms or when not in use for a long period of time.

RIGGING AND SUSPENSION SAFETY CONSIDERATIONS

- Before rigging or suspending NEXT HFA Series systems, inspect all components and all hardware for any signs of damage or missing parts. If you find any damaged, corroded or deformed parts, **do not use them**, replace them immediately.
- Do not use hardware that isn't load rated or that its' rating is not enough to handle the system's weight with a good safety factor (minimum 4:1).
- Suspended systems installation should only be carried out by qualified personnel.

HFA118s(HP) POWER AMPLIFIER AND DSP



The HFA118s as all HFA series models, was designed to achieve a simple to use and deploy versatile system. The amplifier is designed to power not only the HFA118s itself, but also any passive satellite or group of satellites, as long as the minimum total impedance doesn't reach below 4Ω. The HFA118s, like all HFA series models, is prepared to be completely plug' n play, having already six pre-determined configurations that cover almost all situations. But if you're not happy with any of those, there are also two available user defined configurations, which can be used to adapt the system to your needs using the NEXT-proaudio SOUNDWARE¹ software and the supplied RS485 to USB converter.

Here is a brief description of the amplifier panel:

- | | |
|-----------------------------------|---|
| 1- Signal Input/Output | 6- Satellite Output (ONLY on HFA118s) |
| 2- Level Adjustment Potentiometer | 7- AC Mains Power Input/Output |
| 3- Preset Selector | 8- Protection Circuit Breaker |
| 4- RS485 Communication Interface | 9- Power On/Off Switch |
| 5- List of Available Presets | |

Never operate the HFA series Speakers in a way that maintains the Limiter Led consistently on.

HFA118s Preset List:

- 0- Deep (LP80Hz): Low-pass filter at 80Hz 24dB/Oct Linkwitz-Riley
- 1- Punch (LP100Hz): Low-pass filter at 100Hz 24dB/Oct Linkwitz-Riley
- 2- Extended (LP120Hz): Low-pass filter at 120Hz 24dB/Oct Linkwitz-Riley
- 3- No LP: No Low-pass filter used (can be defined by user)
- 4- Sub+Satellite (Flat): Flat frequency response with the satellite designated on "Programmed Satellite" label
- 5- Sub+Satellite (Music): Frequency response adapted for music reproduction with the satellite designated on "Programmed Satellite" label (Ear compensation, due to high SPL levels, at the mid-high frequency range)
- 6 / 7- User Defined: Free memory for user storage (OUTPUT is muted by default)

¹ Download NEXT-proaudio SOUNDWARE at www.next-proaudio.com/downloads

HFA118sHP Preset List:

- 0- LP-80Hz: Low-pass filter at 80Hz 24dB/Oct Linkwitz-Riley
- 1- LP-100Hz: Low-pass filter at 100Hz 24dB/Oct Linkwitz-Riley (It can also be used on a cardioid configuration on the **front-facing** HFA118sHP subwoofer)
- 2- LP-100Hz Cardioid: It must be used on a cardioid arrangement on the **rear-facing** HFA118sHP subwoofer (no other adjustments needed)
- 3- LP-120Hz: Low-pass filter at 120Hz 24dB/Oct Linkwitz-Riley
- 4- System: Is a "Tailor Made" Preset only applicable to the system designated on the "Programmed System" label
- 5- System Cardioid: Is the twin brother of Preset number 4. Must be used on the **rear-facing** subwoofer on a cardioid arrangement (no other adjustments needed)
- 6 / 7- User Defined: Free memory for user storage

WARRANTY

NEXT-proaudio's products are warranted, by NEXT-proaudio, against manufacturing defects in materials or craftsmanship over a period of 5 years for the passive loudspeakers, and 2 years for all other products counting from the date of original purchase. The original receipt of purchase is mandatory for warranty validation purposes, and the product must have been bought from a NEXT-proaudio authorized dealer.

The warranty can be transferred to a subsequent owner during the warranty period; however, this cannot extend the warranty period beyond the original warranty period of five years from the original date of purchase stated on the NEXT-proaudio's invoice.

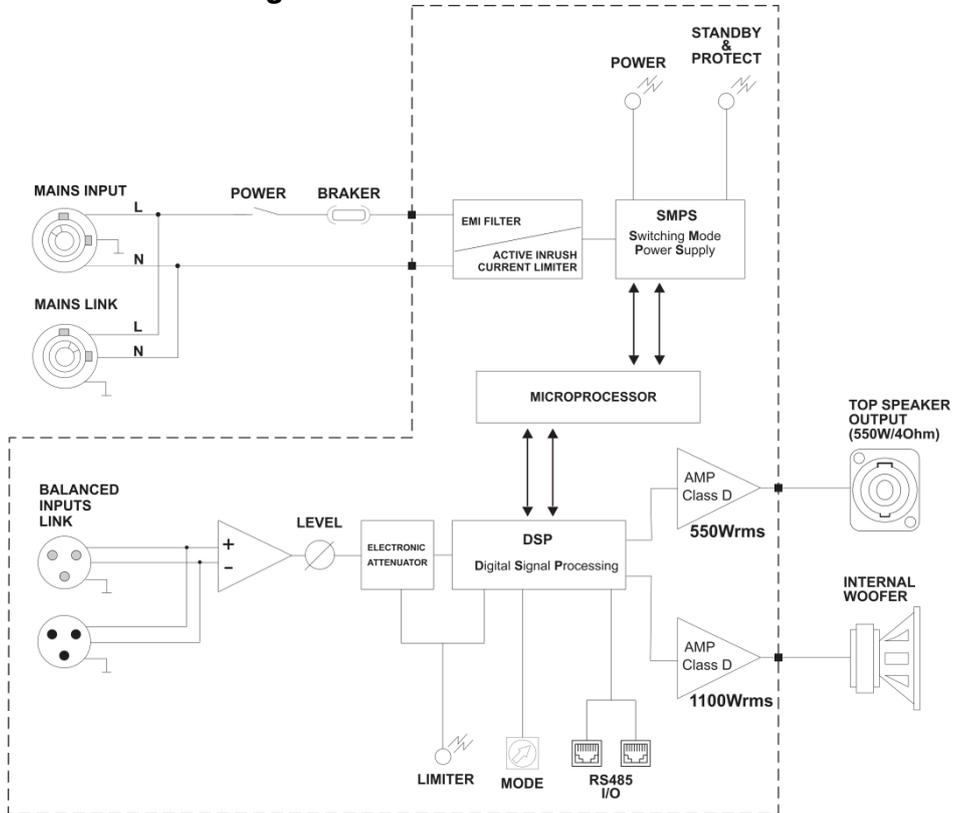
During the warranty period NEXT-proaudio will, at its own discretion, either repair or replace a product which prove to be defective provided that the product is returned in its original packaging, shipping prepaid, to an authorized NEXT-proaudio service agent or distributor.

NEXT-proaudio cannot be held responsible for defects caused by unauthorized modifications, improper use, negligence, exposure to inclement weather conditions, act of God or accident, or any use of this product that is not in accordance with the instructions provided by this manual and/or NEXT-proaudio. NEXT-proaudio is not liable for consequential damages.

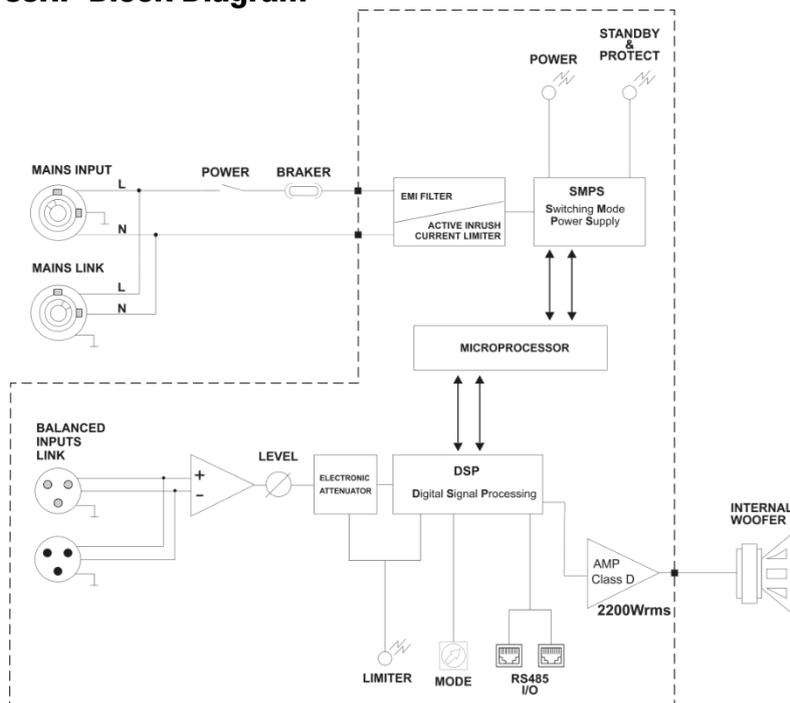
This warranty is exclusive and no other warranty is expressed or implied. This warranty does not affect your statutory rights.

TECHNICAL SPECIFICATIONS

HFA118s Block Diagram



HFA118sHP Block Diagram



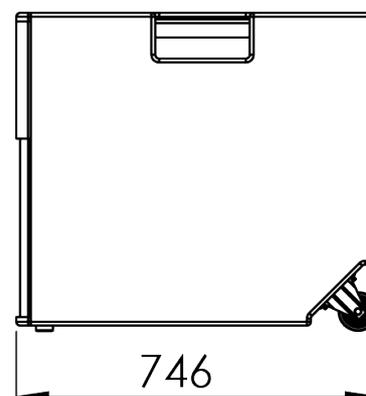
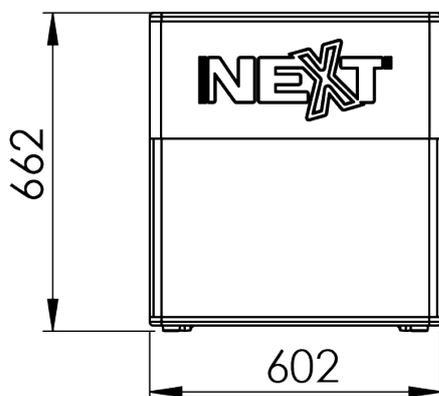
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NEXT HFA118s TECHNICAL SPECIFICATIONS	
Speaker Type	2-Channels ACTIVE Hybrid-Horn Subwoofer
Frequency Response (-6dB)	38Hz – X-Over
Low Frequency Extension (-10dB)	30Hz
Calculated Max. SPL (Cont/Peak)	132dB / 138dB (Half-Space)
Components	1 x 18" High Excursion / 4" Voice Coil Custom B&C Speaker
Amplifier Technology	2 Channel Switched Mode Class D with DSP (1650W)
Power to Int. Speaker (Sub) (RMS)	1100W
Power to Ext. Speaker (4Ω Sat) (RMS)	550W
Construction	18mm Multi-laminate Birch Plywood, Screwed and Glued
Finish	Black Textured Scratch Resistant Paint
Grille	Steel, Black Finish (also available in other colours)
Dimensions (W x H x D)	602 x 662 x 746 mm
Net Weight	57.4 kg
Shipping Weight	60.3 kg

NEXT HFA118sHP TECHNICAL SPECIFICATIONS	
Speaker Type	ACTIVE Hybrid-Horn Subwoofer
Frequency Response (-6dB)	38Hz – X-Over
Low Frequency Extension (-10dB)	30Hz
Calculated Max. SPL (Cont/Peak)	135dB / 141dB (Half-Space)
Components	1 x 18" High Excursion / 4" Voice Coil Custom B&C Speaker
Amplifier Technology	Switched Mode Class D with DSP (2200W)
Construction	18mm Multi-laminate Birch Plywood, Screwed and Glued
Finish	Black Textured Scratch Resistant Paint
Grille	Steel, Black Finish (also available in other colours)
Dimensions (W x H x D)	602 x 662 x 746 mm
Net Weight	57.4 kg
Shipping Weight	60.3 kg

DIMENSIONS



CONTACTS

In case of any doubts or any information just:

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