

HFA115s/HFA115sHP

ACTIVE Reflex Subwoofer

USER MANUAL

V201609

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INTRODUCTION

Thank you for purchasing a NEXT-proaudio HFA115s(HP) **ACTIVE** Reflex Subwoofer. This manual will provide you with useful and important information about your HFA115s 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-proaudio 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 HFA115s, 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 HFA115s 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.

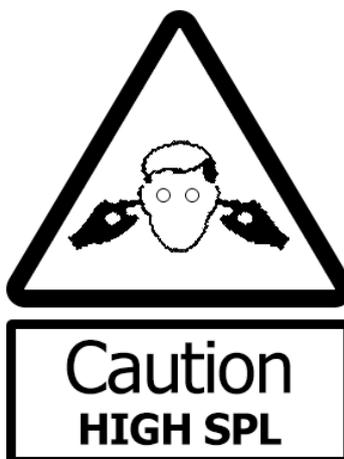
The integration with the new DPAmplifier modules with up to 2200 Wrms, and the advanced digital signal processing, set a new standard for distortion, noise and thermal efficiency. A surprisingly simple handling concept lets you plug in and play straight away. Configure the system by selecting the right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

The HFA112s, HFA115s and HFA118s have the ability to power an external passive satellite up to 550Wrms keeping 1100Wrms for its own power. The HFA118sHP and HFA115sHP do **not** have the ability to power an external passive satellite but are able to handle up to 2200 Wrms of power.

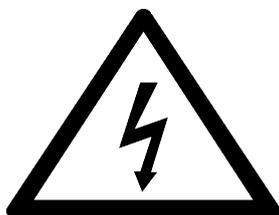
SAFETY FIRST

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**

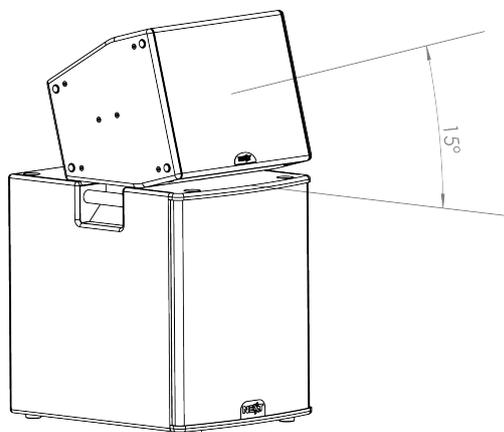


**TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICE TO QUALIFIED PERSONNEL**

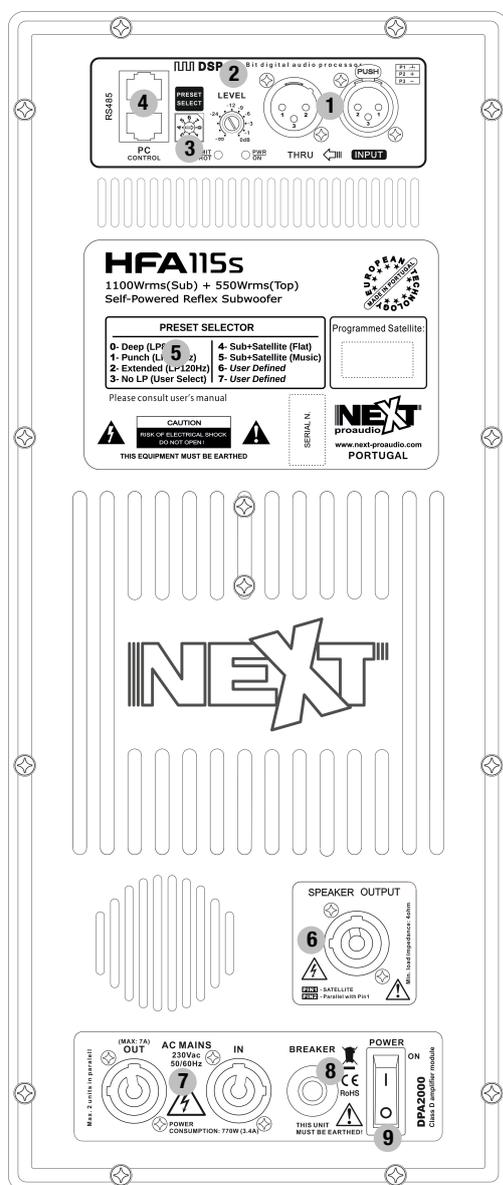
- Do not use your HFA115s near any sources of water, like swimming pools, lakes, water streams, exposed to rain, high humidity environments or any other source of water or moisture.
- Use only a soft dry cloth to clean your HFA115s.
- Never place your HFA115s in a way that prevents air flow near the amplifier. A minimum clearance distance of 6cm should be kept between the amplifier and any near surface.
- Never use your HFA115s too close to any heat source, such as radiators, or any other device that produces heat.
- 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 HFA115s 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 HFA115s during storms or when not in use for a long period of time.

HFA115s APPLICATIONS

In addition to the normal possible settings with all HFA range products, HFA115s subwoofer also allows a use with other NEXT-proaudio's series speakers such as K12 or K12A from KUBIX series. By simply laying the speaker on the top of the subwoofer it will automatically set a 15° angle that perfectly aligns the listener ears with the centre of the sound source for the best listening experience. Recommended as DJ monitoring or drum fill.



HFA115s(HP) POWER AMPLIFIER AND DSP



The HFA115s 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 HFA115s itself, but also any passive satellite or group of satellites, as long as the minimum total impedance doesn't reach below 4Ω. The HFA115s, 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
- 2- Level Adjustment Potentiometer
- 3- Preset Selector
- 4- RS485 Communication Interface
- 5- List of Available Presets
- 6- Satellite Output (**ONLY** on HFA115s)
- 7- AC Mains Power Input/Output
- 8- Protection Circuit Breaker
- 9- Power On/Off Switch

Never operate the HFA Series speakers in a way that maintains the Limiter Led consistently on.

HFA115s 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)

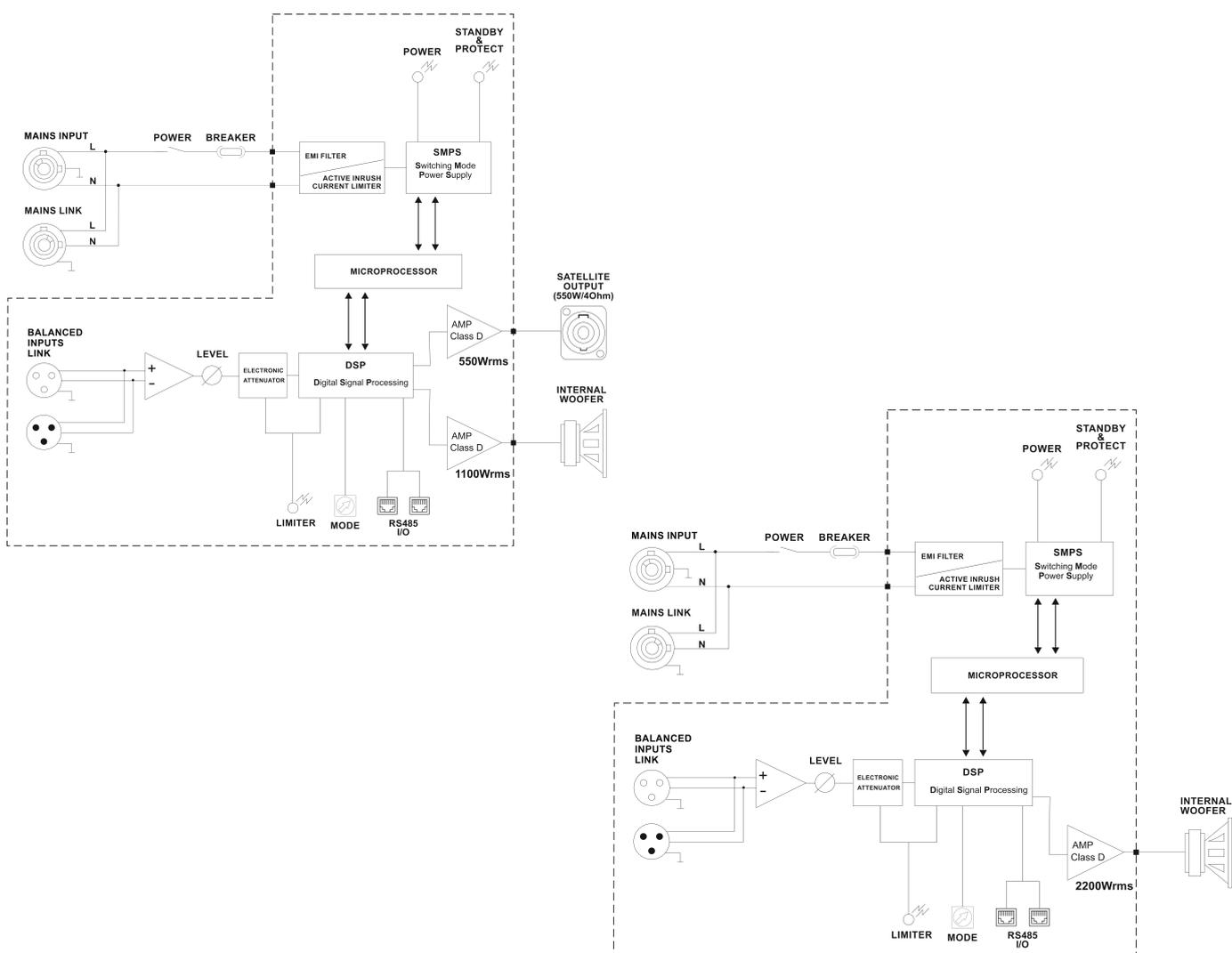
¹ Download NEXT-proaudio SOUNDWARE at www.next-proaudio.com/downloads

HFA115sHP 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** HFA115sHP subwoofer)
- 2- LP-100Hz Cardioid: It must be used on a cardioid arrangement on the **rear-facing** HFA115sHP 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

TECHNICAL SPECIFICATIONS

HFA115s and HFA115sHP Amplifier Block Diagrams



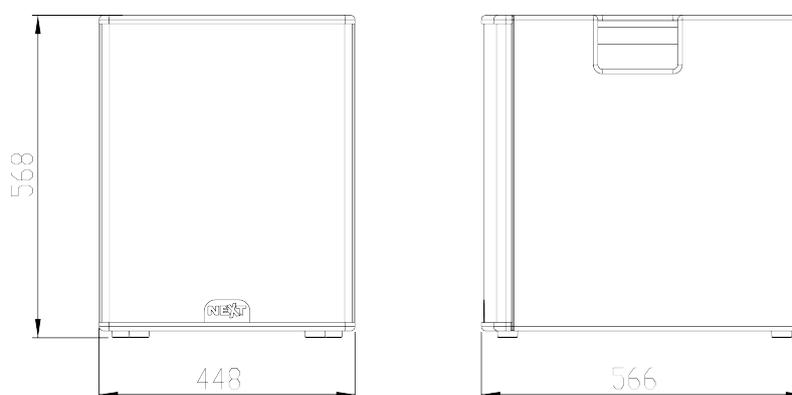
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| NEXT HFA115s TECHNICAL SPECIFICATIONS | |
|---------------------------------------|--|
| Speaker Type | 2-Channel ACTIVE Reflex Subwoofer |
| Frequency Response (-6dB) | 32Hz – X-Over |
| Calculated Max. SPL (Cont/Peak) | 132.4dB / 138.4dB (Half-Space) |
| Components | 1 x 15" 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) |
| Connectors | Signal: 2 x XLR Power: 2 x PowerCON Sat. Output: 1 x Neutrik NL4 Data: 2 x RJ45 |
| Dimensions (W x H x D) | 448 x 568 x 566 mm |
| Net Weight | 37.1 kg |

| NEXT HFA115sHP TECHNICAL SPECIFICATIONS | |
|---|---|
| Speaker Type | ACTIVE Reflex Subwoofer |
| Frequency Response (-6dB) | 32Hz – X-Over |
| Calculated Max. SPL (Cont/Peak) | 135dB / 141dB (Half-Space) |
| Components | 1 x 15" 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) |
| Connectors | Signal: 2 x XLR Power: 2 x PowerCON Data: 2 x RJ45 |
| Dimensions (W x H x D) | 448 x 568 x 566 mm |
| Net Weight | 37.1 kg |

DIMENSIONS



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.



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