



NERO **AB5**

ACTIVE MONITOR
S P E A K E R



OWNER'S
MANUAL

SAFETY



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICE TO QUALIFIED SERVICE PERSONNEL**



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING TO REDUCE THE RISK OF FIRE OR ELECTRICSHOCK,DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions, which you should be particularly aware of.

1. Read and keep these instructions. Heed all warnings and follow all Instructions.
2. Do not use this apparatus near water.
3. Clean only with dry cloth.
4. Do not block any ventilation openings . Install in accordance with the manufacturer's instructions. Do not install this equipment in a confined or "boxed-in" space such as a bookcase or similar unit, and maintain good ventilation conditions. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains, etc.
5. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place exposed flame sources such as lighted candles on the apparatus.
6. Do not defeat the safety purpose of the polarized or grounding-type plug . A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8. Only use attachment/accessories specified by the manufacturer.
9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any

SAFETY

way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

11. Power Sources: This product should be connected to a power supply only of the type described in these operating instructions, or as marked on the unit.
12. Water and Moisture: This product should be kept away from direct contact with liquids. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
13. Protective earthing terminal: The apparatus should be connected to a mains socket outlet with a protective earthing connection.
 - Denmark (Danmark): Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.
 - Finland (Suomi): Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.
 - Norway (Norge): Apparatet må tilkoples jordet stikkontakt.
 - Sweden (Sverige): Apparaten skall anslutas till jordat uttag.
14. When moving or not using the appliance, secure the power cord (e.g., wrap it with a cable tie). Be careful not to damage the power cord. Before using it again, make sure the power cord has not been damaged. If the power cord has been damaged at all, bring the unit and cord to a qualified service technician for repair or replacement as specified by the manufacturer.
 - Disconnect power cord before servicing.
 - Replace critical components. only with factory parts or recommended equivalents.
 - For AC line powered units: Before returning repaired unit to user, use an ohmmeter to measure from both AC plug blades to all exposed metal parts. The resistance should be more than 2,000,000 ohms.

CAUTION (for U.S.A. & CANADIAN models only): TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

IMPORTANT NOTES

To prevent the occurrence of noise on line signal cables, use screened cables only and avoid putting them close to:

- Equipment that produces high-intensity electromagnetic fields
- Power cables
- Loudspeaker lines.

The equipments considered in this manual can be used in electromagnetic environment E1 to E3 as specified on EN 55103-1/2: 2009.

OPERATING PRECAUTIONS

- Place this product far from any heat sources and always ensure an adequate air circulation around it.
- Do not overload this product for a long time.
- Never force the control elements (keys, knobs, etc.).
- Do not use solvents, alcohol, benzene or other volatile substances for cleaning the external parts of this product.

IMPORTANT NOTES

Before connecting and using this product, please read this instruction manual carefully and keep it on hand for future reference. The manual is to be considered an integral part of this product and must accompany it when it changes ownership as a reference for correct installation and use as well as for the safety precautions. RCF S.p.A. will not assume any responsibility for the incorrect installation and / or use of this product.

WARNING: To prevent the risk of fire or electric shock, never expose this product to rain or humidity.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications: Any modifications made to this device that are not approved by OSD may void the authority granted to the user by the FCC to operate this equipment.

INTRODUCTION

The AB5 is a two-way reference studio monitors that is designed for bookshelf, desktop or nearfield applications but is equally suited to your home recording studio or office. The AB5 features a high quality 1" soft dome tweeter and a 5.25", composite woofer.

The AB5 features a dedicated internal DSP that optimizes phase, frequency response and dynamics. This makes the sound more accurate and transients more vivid and detailed, while at the same time improving the dynamics and the natural timbre of the sound.

The AB5 is optimized to deliver the best sound for a variety of applications. Whether you are in your home-office, studio, or broadcast facility— or simply need some great speakers for your home entertainment system — you will need a clear and loud, non-tiring sound. Thanks to the front bass reflex port, the AB5 directs a larger portion of the energy forward, away from rear walls.



- 1 JACK TRS, XLR INPUT (BAL/UNBAL). The system accepts JACK TRS or XLR input connectors. These balanced inputs can be used to connect balanced or unbalanced audio sources at line level.
- 2 RCA INPUT (UNBAL). The system accepts RCA input connectors. These unbalanced input can be used to connect unbalanced audio sources at line level.
- 3 INPUT VOLUME. Adjust the input level.
- 4 HIGH FREQUENCY TRIM. This switch adjusts the HIGH frequency amplifier gain with -1dB, 0dB, +1dB controls. Use this control to perfectly match the AB5 response-curve to your room acoustics.
- 5 LOW FREQUENCY TRIM. This switch adjusts the LOW frequency amplifier gain with -2dB, 0dB, +2dB controls. Use this control to perfectly match the AB5 response-curve to your room acoustics.
- 6 VDE AC IN SOCKET. AC VDE Socket to connect the speaker to AC power supply.
- 7 POWER MAIN SWITCH. The power switch turns the AC power ON and OFF.
- 8 3M® EVA Antivibration Pad. Dampens unwanted acoustic vibrations.

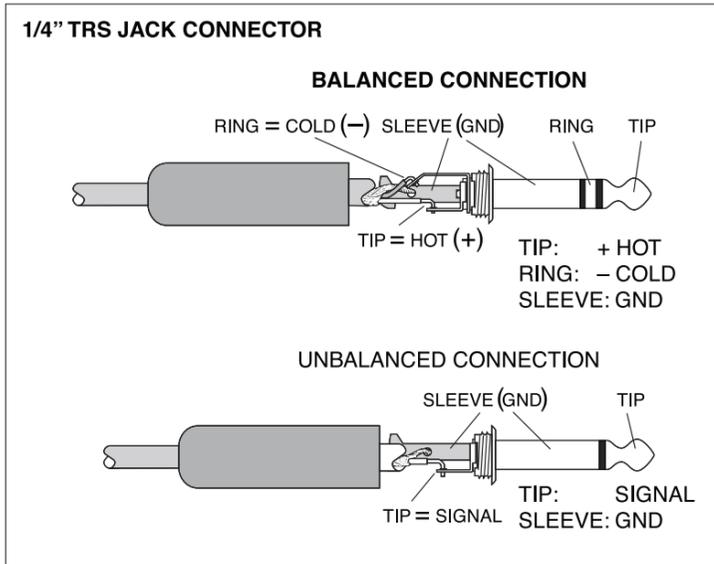
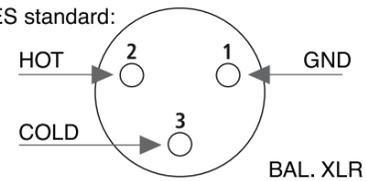
CONNECTIONS

The XLR connectors use the following AES standard:

PIN 1 = GROUND (SHIELD)

PIN 2 = HOT (+)

PIN 3 = COLD (-)



BEFORE TURNING ON

AB5 Monitors provide a universal 90-240V internal power supply. On the rear panel there are also the input and output level controls. Insert the power connector and the signal connector, but before turning on the speaker, make sure to select the power supply voltage corresponding to that of the country where the device is used, and that the volume control is at minimum on both the speaker and the sound source connected to the speakers; it is also important that the sound source is already on when the speaker connected to it is turned on.

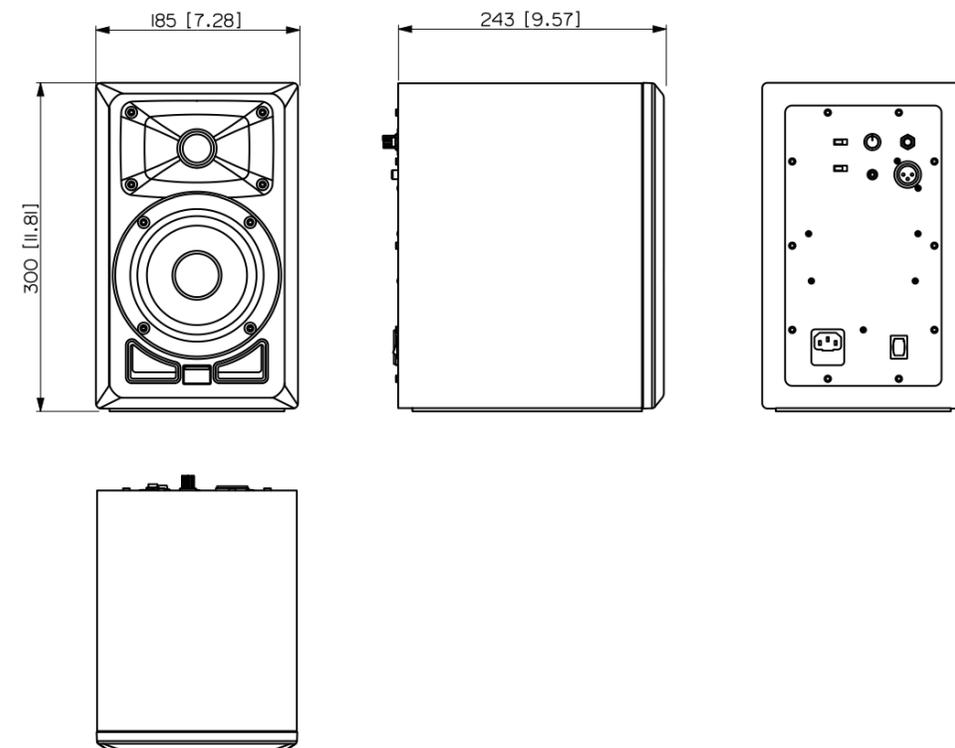
These two precautions will prevent you from: first turning on the speakers in the presence of strong input signals (avoiding causing damage to the speaker itself but above all to people in front of it), also avoiding the annoying "bump" caused by the switching on of the audio equipment upstream of the speakers. In fact, it is a good rule that the amplified speakers and amplifiers in general are always the last equipment to be turned on and the first to be switched off at the end of their use.

At this point you can turn on the speaker and raise the level control up to the marker line on the scale between "0" and "MAX", and then correct the level as needed.

SPECIFICATIONS

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ACOUSTICAL	
Woofers	5.25" inch Composite Fiberglass
Tweeter	1.0" Ferrofluid Cooled Soft Dome
Freq Response	50Hz - 20kHz
Max SPL	107 dB
Horizontal Coverage	110°
Vertical Coverage	70°
INPUT	
Input signal (Impedance)	5 KΩ
Input connectors	Xlr, Jack, RCA
Input sensitivity	+4/-2 dBu
AMPLIFIER	
Total power	100W
High frequencies	25W
Low frequencies	75W
Connection	VDE
PROCESSOR	
Crossover frequency	2000 Hz
Sensitivity control	-∞, -6 dB, 0 dB
Limiter	Soft Limiter
Frequency Control	HF Adjust -1dB,0,+1dB LF Adjust -2dB,0,+2dB
DIMENSIONS	
Dimensions (WxHxD)	185 x 300 x 243 mm 7.28 x 11.8 x 9.57 in.
Weight	4.2Kgs / 9.25lbs



WARRANTY

OSD Audio electronics have (2) year Limited Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period OSD Audio will replace any defective part and correct any defect in workmanship without charge for either parts or labor.

OSD Audio may replace returned electronics with a product of equal value and performance. In such cases, some modifications to the mounting may be necessary and are not OSD Audio's responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by OSD Audio. The unit must be returned to OSD Audio at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damaged resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by OSD Audio.

OSD Audio sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any OSD Audio product purchased from an unauthorized dealer or other source, including retailers, mail order dealers and online sellers will not be honored or serviced under existing OSD Audio warranty policy. Any sale of product by an unauthorized source or other manner not authorized by OSD Audio shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at RMA@audiogeargroup.com for a Returned Merchandise Authorization (RMA) number then the unit must be shipped to OSD Audio at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the product(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover: Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.

