

RCP
NXL 14-A
Two Way
Active Array



RCP NXL 14-A Two Way Active Array Owner's Manual

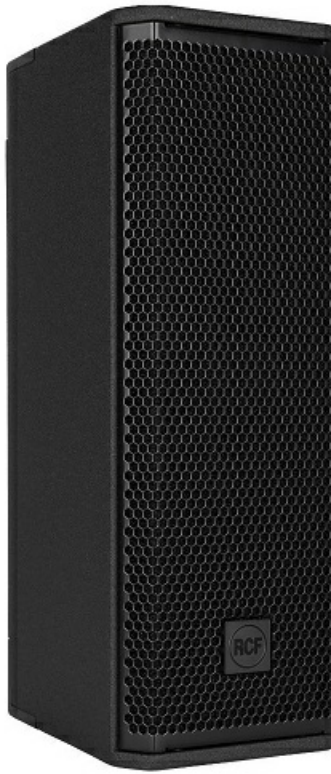
[Home](#) » [RCP](#) » RCP NXL 14-A Two Way Active Array Owner's Manual 

Contents

- [1 RCP NXL 14-A Two-Way Active Array](#)
- [2 FAQs](#)
- [3 SAFETY PRECAUTIONS AND GENERAL INFORMATION](#)
- [4 DESCRIPTION](#)
- [5 REAR PANEL FEATURES AND CONTROLS](#)
- [6 ROTATION OF THE HORN](#)
- [7 CONNECTIONS](#)
- [8 INSTALLATION](#)
- [9 TROUBLESHOOTING](#)
- [10 SPECIFICATION](#)
- [11 DIMENSIONS](#)
- [12 CONTACT INFORMATION](#)
- [13 Documents / Resources](#)
 - [13.1 References](#)
- [14 Related Posts](#)

RCP

RCP NXL 14-A Two-Way Active Array








FAQs

- **Q: Can I place liquid-filled objects on the product?**
 - A: No, avoid placing any objects filled with liquid on the product to prevent damage or short circuits.
- **Q: What should I do if I detect strange odors or smoke from the product?**
 - A: Immediately switch off the product, disconnect the power cable, and seek professional assistance to address the issue.

SAFETY PRECAUTIONS AND GENERAL INFORMATION

The symbols used in this document give notice of important operating instructions and warnings that must be strictly followed.

	CAUTION	Important operating instructions: explains hazards that could damage a product, including data loss
	WARNING	Important advice concerning the use of dangerous voltages and the potential risk of electric shock, personal injury or death.
	IMPORTANT NOTES	Helpful and relevant information about the topic
	SUPPORTS, TROLLEYS AND CARTS	Information about the use of supports, trolleys and carts. Reminds to move with extreme caution and never tilt.
	WASTE DISPOSAL	This symbol indicates that this product should not be disposed with your household waste, according to the WEEE directive (2012/19/EU) and your national law.

IMPORTANT NOTES

This manual contains important information about the correct and safe use of the device. 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.

SAFETY PRECAUTIONS

1. All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.
2. Power supply from mains
 - a. The mains voltage is sufficiently high to involve a risk of electrocution; install and connect this product before plugging it in.
 - b. Before powering up, make sure that all the connections have been made correctly and that the voltage of your mains corresponds to the voltage shown on the rating plate on the unit, if not, please contact your RCF dealer.
 - c. The metallic parts of the unit are earthed through the power cable. An apparatus with CLASS I construction shall be connected to a main socket outlet with a protective earthing connection.
 - d. Protect the power cable from damage; make sure it is positioned in a way that it cannot be stepped on or crushed by objects.
 - e. To prevent the risk of electric shock, never open this product: there are no parts inside that the user needs to access.
 - f. Be careful: in the case of a product supplied by the manufacturer only with POWERCON connectors and without a power cord, jointly to POWERCON connectors type NAC3FCA (power-in) and NAC3FCB (power-out), the following power cords compliant with the national standard shall be used:
 - EU: cord type H05VV-F 3G 3×2.5 mm² – Standard IEC 60227-1

- JP: cord type VCTF 3×2 mm²; 15Amp/120V~ – Standard JIS C3306
- US: cord type SJT/SJTO 3×14 AWG; 15Amp/125V~ – Standard ANSI/UL 62

3. Make sure that no objects or liquids can get into this product, as this may cause a short circuit. This apparatus shall not be exposed to dripping or splashing. No objects filled with liquid, such as vases, shall be placed on this apparatus. No naked sources (such as lighted candles) should be placed on this apparatus.
4. Never attempt to carry out any operations, modifications, or repairs that are not expressly described in this manual.

Contact your authorized service center or qualified personnel should any of the following occur:

- The product does not function (or functions in an anomalous way).
 - The power cable has been damaged.
 - Objects or liquids have got in the unit.
 - The product has been subject to a heavy impact.
5. If this product is not used for a long period, disconnect the power cable.
 6. If this product begins emitting any strange odors or smoke, switch it off immediately and disconnect the power cable.
 7. Do not connect this product to any equipment or accessories not foreseen. For suspended installation, only use the dedicated anchoring points, and do not try to hang this product by using elements that are unsuitable or not specific for this purpose. Also check the suitability of the support surface to which the product is anchored (wall, ceiling, structure, etc.), and the components used for attachment (screw anchors, screws, brackets not supplied by RCF, etc.), which must guarantee the security of the system/installation over time, also considering, for example, the mechanical vibrations normally generated by transducers.
To prevent the risk of falling equipment, do not stack multiple units of this product unless this possibility is specified in the user manual.
 8. RCF S.p.A. strongly recommends this product is only installed by professionally qualified installers (or specialized firms) who can ensure correct installation and certify it according to the regulations in force. The entire audio system must comply with the current standards and regulations regarding electrical systems.
 9. Supports, trolleys and carts.
 - The equipment should be only used on supports, trolleys, and carts, where necessary, that are recommended by the manufacturer. The equipment/support/trolley/cart assembly must be moved with extreme caution. Sudden stops, excessive pushing force, and uneven floors may cause the assembly to overturn. Never tilt the assembly.
 10. There are numerous mechanical and electrical factors to be considered when installing a professional audio system (in addition to those that are strictly acoustic, such as sound pressure, angles of coverage, frequency response, etc.).
 11. Hearing loss. Exposure to high sound levels can cause permanent hearing loss. The acoustic pressure level that leads to hearing loss is different from person to person and depends on the duration of exposure. To prevent potentially dangerous exposure to high levels of acoustic pressure, anyone who is exposed to these levels should use adequate protection devices. When a transducer capable of producing high sound levels is being used, it is therefore necessary to wear ear plugs or protective earphones. See the manual technical specifications to know the maximum sound pressure level.

OPERATING PRECAUTIONS

- Place this product far from any heat sources and always ensure 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

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

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

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

WARNING! To reduce the risk of electric shock, do not disassemble this product unless you are qualified. Refer servicing to qualified service personnel.

CORRECT DISPOSAL OF THIS PRODUCT

This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

CARE AND MAINTENANCE

To ensure a long-life service, this product should be used following this advice:

- If the product is intended to be set up outdoors, be sure it is under cover and protected from rain and moisture.
- If the product needs to be used in a cold environment, slowly warm up the voice coils by sending a low-level signal for about 15 minutes before sending high-power signals.
- Always use a dry cloth to clean the exterior surfaces of the speaker and always do it when the power is turned off.

CAUTION: to avoid damaging the exterior finishes do not use cleaning solvents or abrasives.

WARNING! CAUTION! For powered speakers, do cleaning only when the power is turned off.

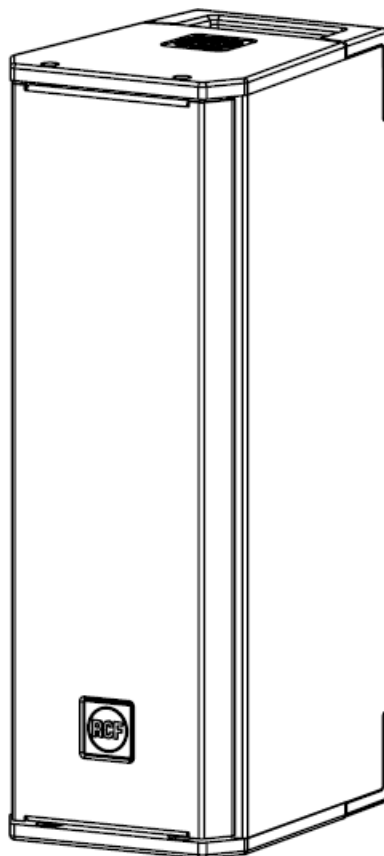
RCF S.p.A. reserves the right to make changes without prior notice to rectify any errors and/or omissions. Always refer to the latest version of the manual on www.rcf.it.

DESCRIPTION

NXL 14-A – TWO WAY ACTIVE ARRAY

Flexibility, power, and compactness make the NXL 14-A ideal for installed and portable professional applications where size and weight are critical factors. This approach combines the advantages of RCF technology such as controlled dispersion, outstanding clarity, and extreme power, multiple flexible rigging accessories, and weatherproof protection. Its transducer configuration pairs two custom-loaded 6-inch cone drivers to a rotatable CMD waveguide surrounding a 1.75-inch high-frequency compression driver. Whether it's used as a compact main system, as fills, or surrounds in a larger system, NXL 14-A is quick to deploy and fast to tune.




NXL 14-A



- 2100 Watt
- 2 x 6.0" neo, 2.0" v.c
- 1.75" Neo Compression Driver 14.6 kg / 32.19 lbs


REAR PANEL FEATURES AND CONTROLS


1. **PRESET SELECTOR** This selector allows you to select 3 different presets. By pressing the selector, the PRESET LEDS will indicate which preset is selected.

- **LINEAR**  LINEAR – this preset is recommended for all regular applications of the speaker.
- **BOOST**  BOOST – this preset creates a loudness equalization recommended for background music applications when the system plays at a low level
- **STAGE**  STAGE – this preset is recommended when the speaker is used on stage as a front fill or

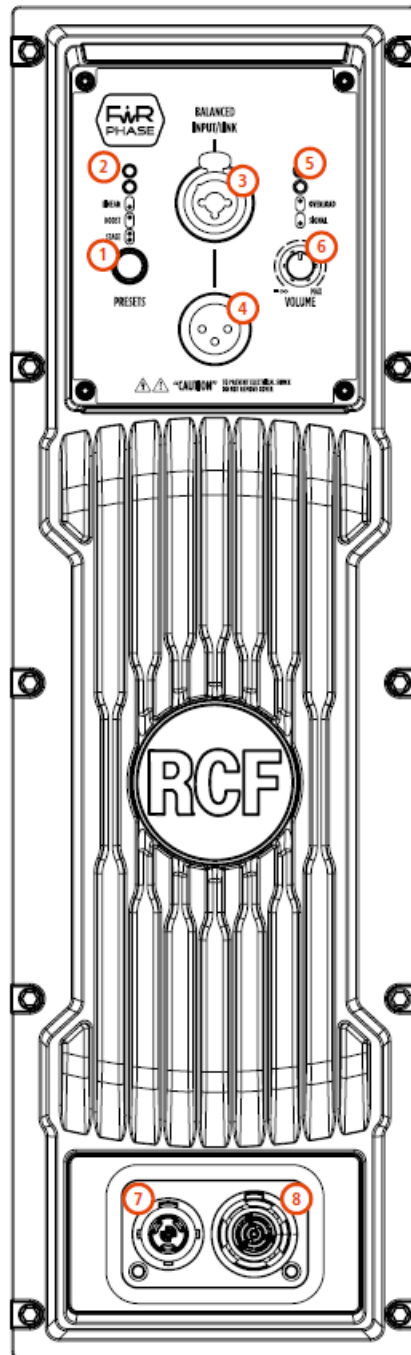
installed on a wall.

2. PRESET LEDS These LEDs indicate the selected preset.
3. FEMALE XLR/JACK COMBO INPUT This balanced input accepts a standard JACK or XLR male connector.
4. MALE XLR SIGNAL OUTPUT This XLR output connector provides a loop trough for speakers' daisy chaining.
5. OVERLOAD/SIGNAL LEDS These LEDs indicate

- **SIGNAL**  The SIGNAL LED lights are green if there is a signal present on the main COMBO input.

- **OVERLOAD**  The OVERLOAD LED indicates an overload on the input signal. It is okay if the OVERLOAD LED blinks occasionally. If the LED blinks frequently or lights continuously, turn down the signal level avoiding distorted sound. Anyway, the amplifier has a built-in limiter circuit to prevent input clipping or overdriving of the transducers.

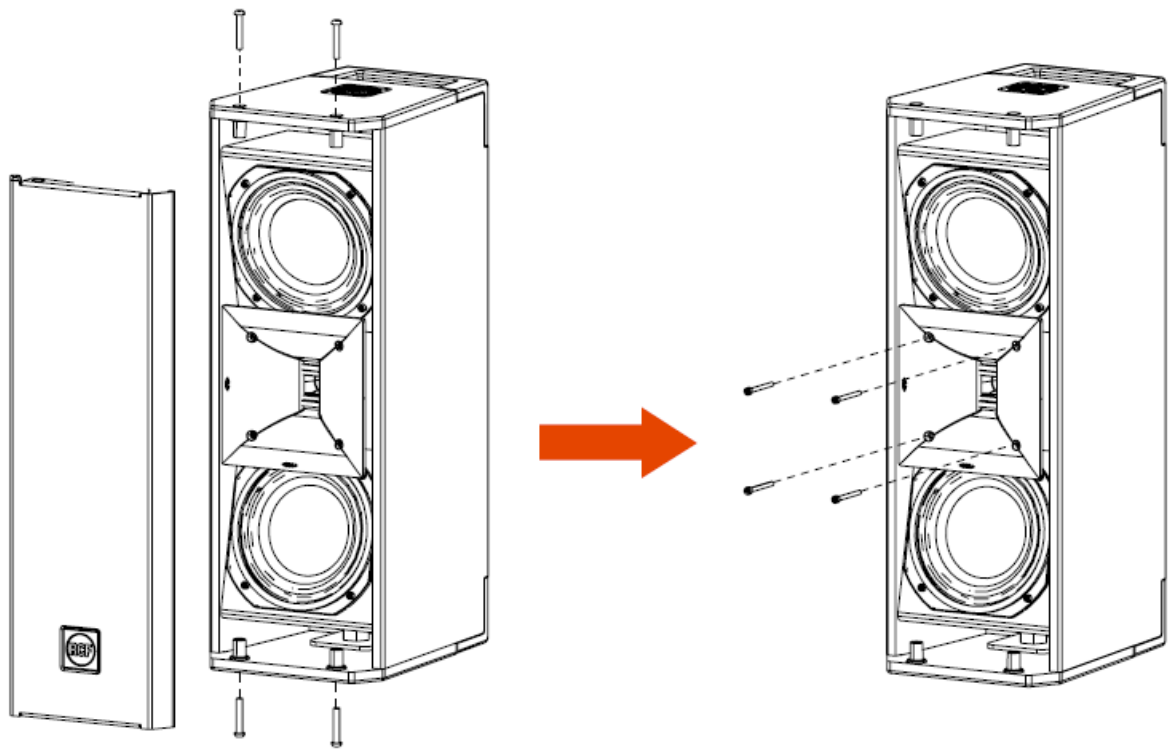
6. VOLUME CONTROL Adjusts the master volume.
7. POWERCON INPUT SOCKET PowerCON TRUE1 TOP IP-Rated power connection.
8. POWERCON OUTPUT SOCKET Sends the AC power to another speaker. Power link: 100-120V~ max 1600W
I 200-240V~MAX 3300W.



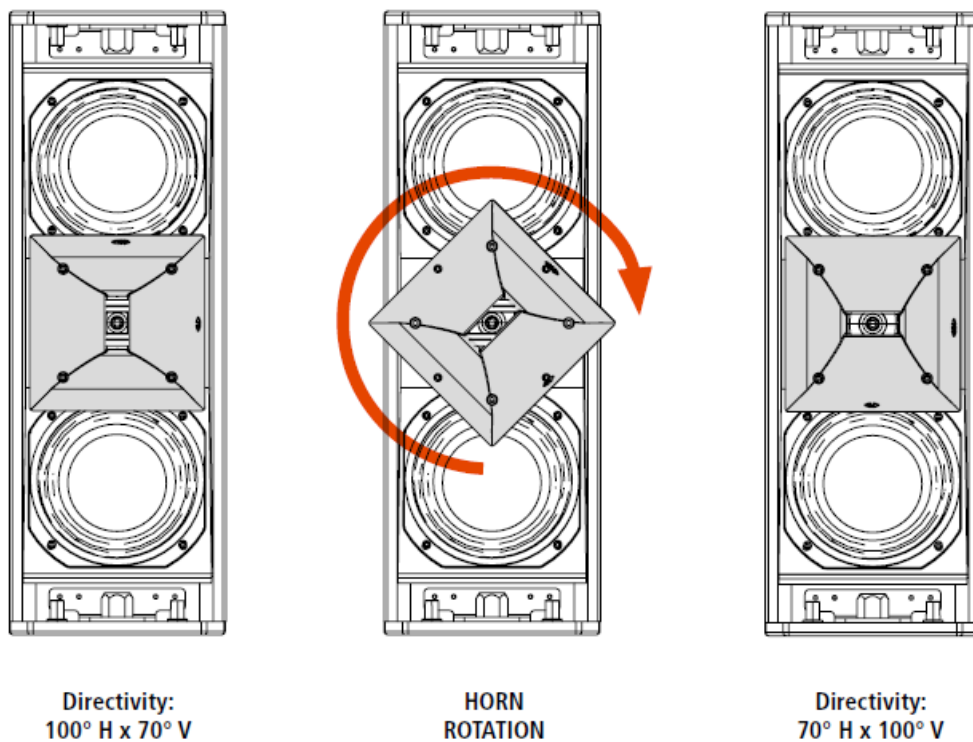
WARNING! CAUTION! Loudspeaker connections should be only made by qualified and experienced personnel having the technical know-how or enough specific instructions (to ensure that connections are made correctly) to prevent any electrical danger. To prevent any risk of electric shock, do not connect loudspeakers when the amplifier is switched on. Before turning the system on, check all connections and make sure there are no accidental short circuits. The entire sound system shall be designed and installed in compliance with the current local laws and regulations regarding electrical systems.

ROTATION OF THE HORN

NXL 14-A horn can be rotated to reverse the coverage angle and obtain a directivity of 70° H x 100° V. Remove the front grille by unscrewing the four screws on top and bottom of the speaker. Then unscrew the four screws on the horn.



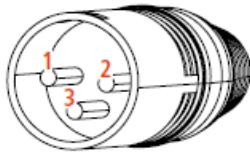
Rotate the horn and screw it back with the same screws removed earlier. Place back the grille in its position and screw it to the cabinet.



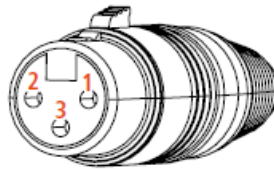
CONNECTIONS

The connectors must be wired according to the standards specified by the AES (Audio Engineering Society).

MALE XLR CONNECTOR
Balanced wiring

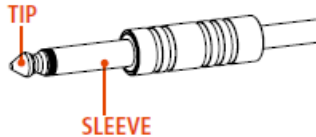


FEMALE XLR CONNECTOR
Balanced wiring

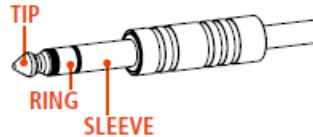


PIN 1 = GROUND (SHIELD)
PIN 2 = HOT (+)
PIN 3 = COLD (-)

TRS CONNECTOR
Unbalanced mono wiring



TRS CONNECTOR
Balanced mono wiring



SLEEVE = GROUND (SHIELD)
TIP = HOT (+)
RING = COLD (-)

BEFORE CONNECTING THE SPEAKER

On the rear panel, you will find all the control signals, and power inputs. At first, verify the voltage label applied to the rear panel (115 Volt or 230 Volt). The label indicates the right voltage. If you read the wrong voltage on the label or if you can't find the label at all, please call your vendor or authorized SERVICE CENTRE before connecting the speaker. This fast check will avoid any damage.

In case of need of changing the voltage please call your vendor or authorized SERVICE CENTRE. This operation requires the replacement of the fuse value and is reserved to an SERVICE CENTRE.

BEFORE TURNING ON THE SPEAKER

You can now connect the power supply cable and the signal cable. Before turning on the speaker make sure the volume control is at the minimum level (even on the mixer output). The mixer must be already ON before turning on the speaker. This will avoid damage to the speaker and noisy "bumps" due to turning on parts on the audio chain. It is a good practice to always turn on the speakers at last and turn them off immediately after their use. You can now turn ON the speaker and adjust the volume control to a proper level.

PROTECTIONS

TT+ Audio active speakers are equipped with a complete system of protection circuits. The circuit is acting very gently on the audio signal, controlling the level and maintaining distortion at an acceptable level.

VOLTAGE SETUP (RESERVED FOR THE RCF SERVICE CENTRE)

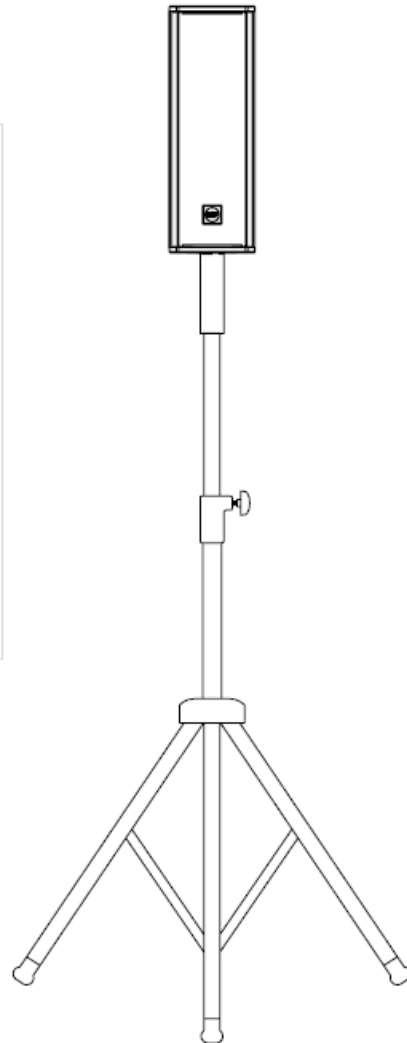
- 220-240 V~ 50 Hz
- 100-120V~ 60Hz
- FUSE VALUE T 6.3 A L 250V

INSTALLATION

Several floor configurations are possible with NXL 14-A; it can be placed on the floor or on a stage as the main PA or it can be pole-mounted on a speaker stand or over a subwoofer.

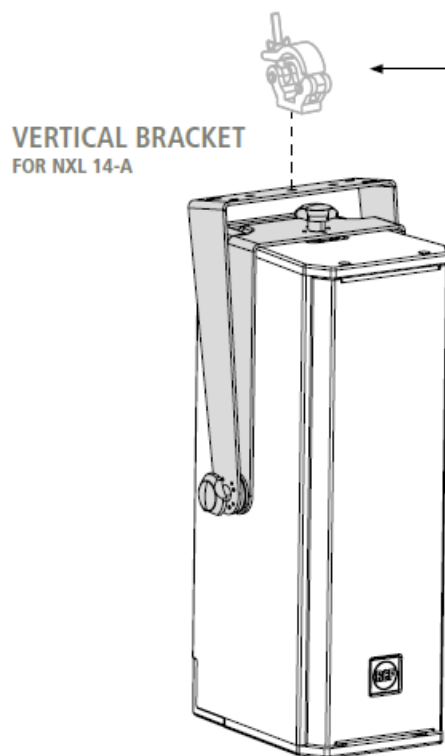
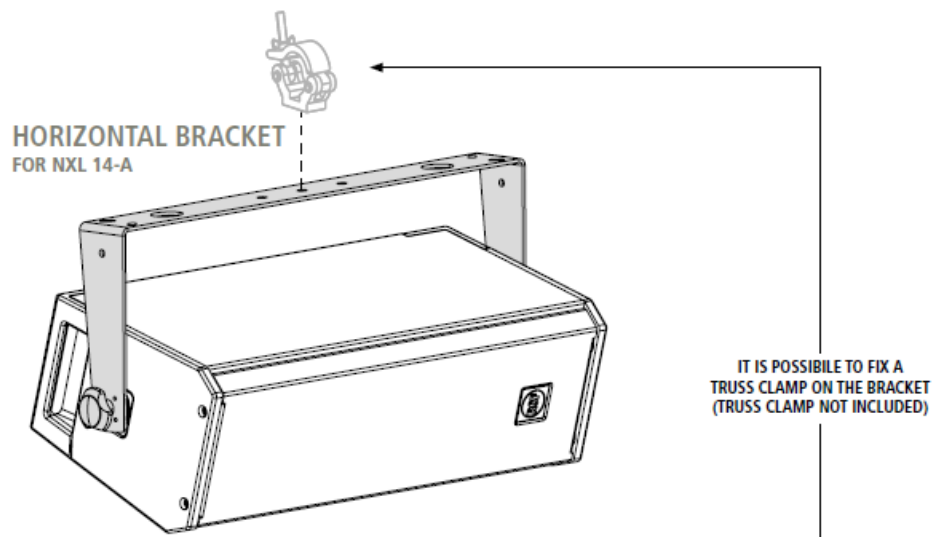


**FLOOR OR STAGE
STANDING**

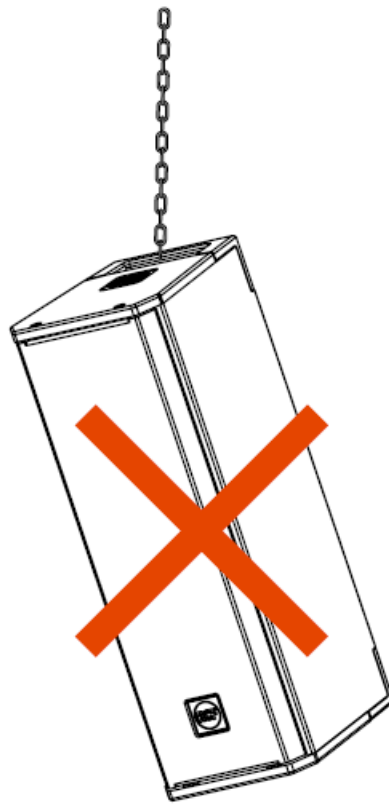


**POLE
MOUNTED**

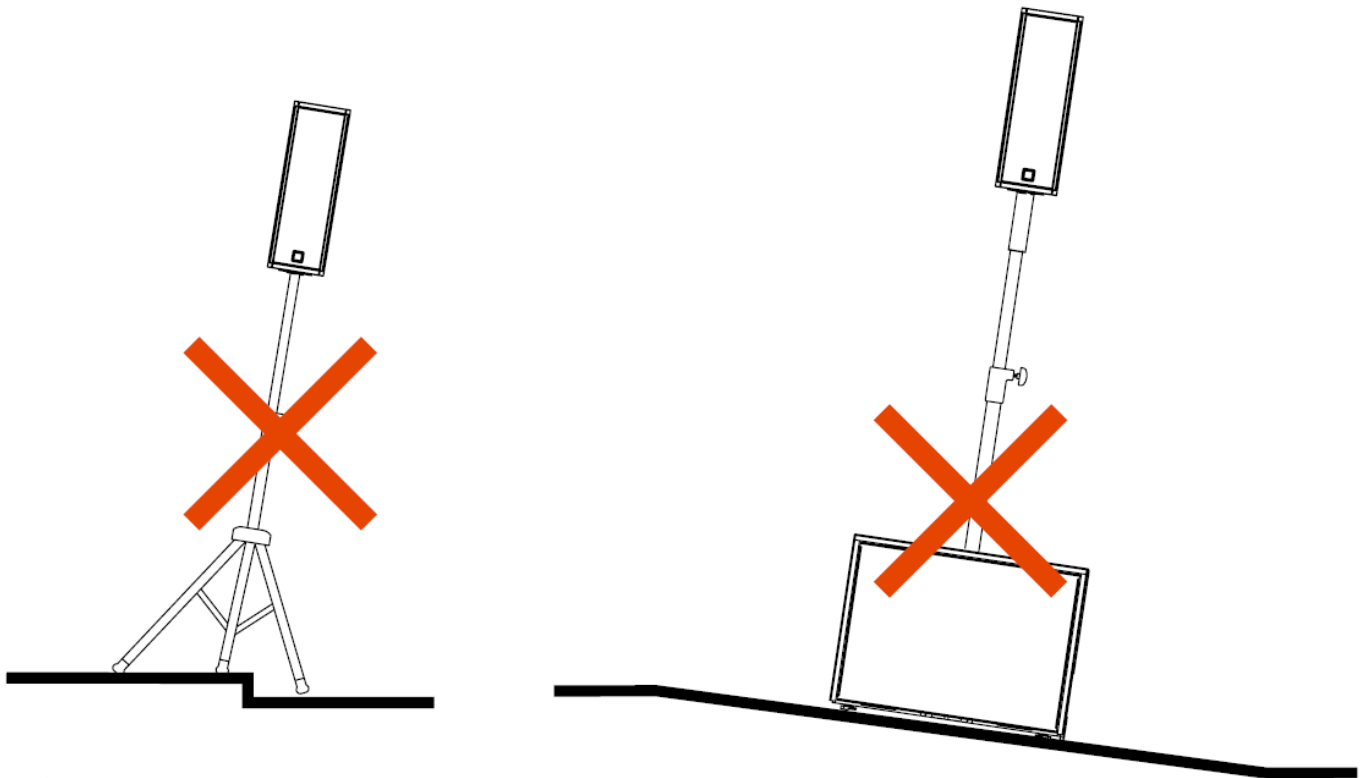
NXL 14-A can be wall-mounted or wall-mounted by use of its specific brackets.



INSTALLATION



WARNING! CAUTION! Never suspend the speaker by its handles. Handles are intended for transportation only. For suspension, use only the specific accessories.



WARNING! CAUTION! To use this product with the subwoofer pole mount, before installing the system, please verify the allowed configurations and the indications regarding the accessories, on the RCF website to avoid any danger and damage to people, animals, and objects. In any case, please ensure the subwoofer which is holding the speaker is located on a horizontal floor and without inclinations.

WARNING! CAUTION! The use of these speakers with Stand and Pole Mount accessories can be done by qualified and experienced personnel only, trained appropriately on professional systems installations. In any case, it's the user's final responsibility to ensure the system's safety conditions and avoid any danger or damage to people, animals, and objects.

TROUBLESHOOTING

• THE SPEAKER DOESN'T TURN ON

- Make sure the speaker is switched on and connected to an active AC power

• THE SPEAKER IS CONNECTED TO AN ACTIVE AC POWER BUT DOESN'T TURN ON

- Make sure the power cable is intact and connected correctly.

• THE SPEAKER IS ON BUT DOESN'T MAKE ANY SOUND

- Check if the signal source is sending correctly and if the signal cables are not damaged.

• THE SOUND IS DISTORTED AND THE OVERLOAD LED BLINKS FREQUENTLY

- Turn down the output level of the mixer.

• THE SOUND IS VERY LOW AND HISSING

- The source gain or the output level of the mixer might be too low.

• THE SOUND IS HISSING EVEN AT PROPER GAIN AND VOLUME

- The source might send a low-quality or noisy signal

• HUMMING OR BUZZING NOISE

- Check out the AC grounding and all the equipment connected to the mixer input including cables and connectors.

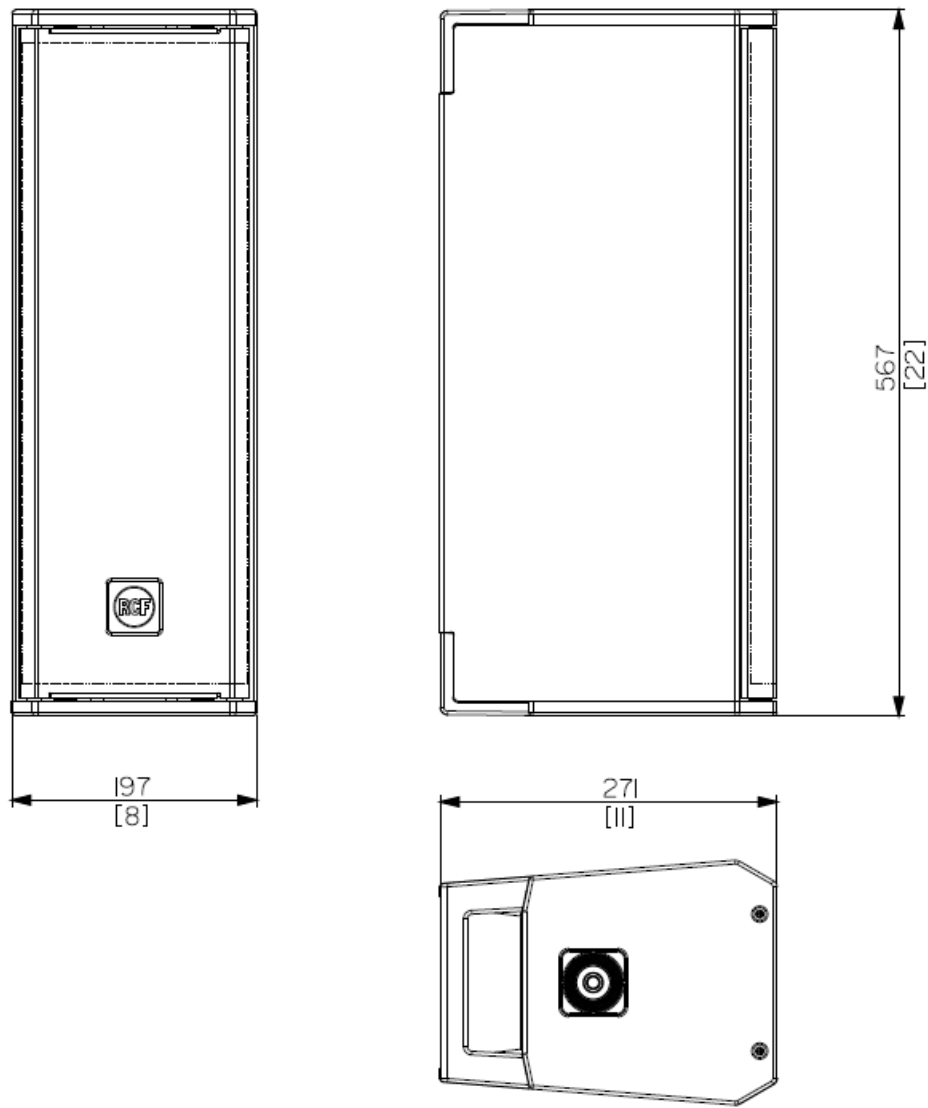
WARNING! to reduce the risk of electric shock, do not disassemble this product unless you are qualified. Refer servicing to qualified service personnel.

SPECIFICATION

Acoustical specifications	Frequency Response	70 Hz ÷ 20000 Hz
	Max SPL @ 1m	128 dB
	Horizontal coverage angle	100°
	Vertical coverage angle	70°
Transducers	Compression Driver	1 x 1.0" neo, 1.75" v.c
	Woofer	2 x 6.0" neo, 2.0" v.c
Input/Output section	Input signal	bal/unbal
	Input connectors	Combo XLR/Jack
	Output connectors	XLR
	Input sensitivity	-2 dBu/+4 dBu
Processor section	Crossover Frequencies	1200
	Protections	Excurs.
	Limiter	Fast Limiter
	Controls	Bypass, Linear/High Pass, Volume on board
	RNet	Yes
Power section	Total Power	2100 W Peak
	High frequencies	700 W Peak
	Low frequencies	1400 W Peak
	Cooling	Convection
	Connections	Powercon TRUE1 TOP IN/OUT

Standard compliance	Safety agency	CE compliant
Physical specifications	Hardware	2X M10 TOP AND BOTTOM 2X PIN D.10
	Handles	2 TOP AND BOTTOM
	Color	Black/ White
Size	Height	567 mm / 22.32 inches
	Width	197 mm / 7.76 inches
	Depth	270 mm / 10.63 inches
	Weight	12.8 kg / 28.22 lbs
Shipping information	Package Height	600 mm / 23.62 inches
	Package Width	232 mm / 9.13 inches
	Package Depth	302 mm / 11.89 inches
	Package Weight	14.6 kg / 32.19 lbs


DIMENSIONS



CONTACT INFORMATION

- Tel +39 0522 274 411
- Fax +39 0522 232 428
- e-mail: info@rcf.it
- www.rcf.it

Documents / Resources

	<p>RCP NXL 14-A Two Way Active Array [pdf] Owner's Manual NXL 14-A Two Way Active Array, NXL 14-A, Two Way Active Array, Active Array, Array</p>
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References

-  [Audio Experience](#)
- [User Manual](#)

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