



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

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OWNER'S MANUAL NXL 14-A TWO-WAY ACTIVE ARRAY

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SAFETY PRECAUTIONS AND GENERAL INFORMATION

The symbols used in this document give notice of important operating instructions and warnings which 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

- All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.
- Power supply from mains**
 - The mains voltage is sufficiently high to involve a risk of electrocution; install and connect this product before plugging it in.
 - Before powering up, make sure that all the connections have been made correctly and the voltage of your mains corresponds to the voltage shown on the rating plate on the unit, if not, please contact your RCF dealer.
 - The metallic parts of the unit are earthed through the power cable. An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
 - Protect the power cable from damage; make sure it is positioned in a way that it cannot be stepped on or crushed by objects.
 - To prevent the risk of electric shock, never open this product: there are no parts inside that the user needs to access.
 - Be careful: in the case of a product supplied by 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 to 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
- 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.
- Never attempt to carry out any operations, modifications or repairs that are not expressly described in this

manual.

Contact your authorized service centre 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 odours 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 professional qualified installers (or specialised 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 which 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 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

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! To prevent electric shock hazard, do not connect to mains power supply while grille is removed



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 these advices:

- If the product is intended to be set up outdoors, be sure it is under cover and protected to 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.

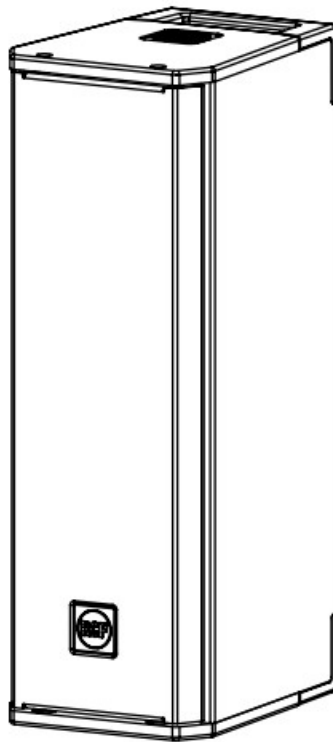
RCF S.p.A. reserves the right to make changes without prior notice to rectify any errors and / or omissions. Always refer to the latest version of the manual on www.rcf.it.

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, 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 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 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 through for speakers daisy chaining.

5) OVERLOAD/SIGNAL LEDs These LEDs indicate

SIGNAL  The SIGNAL LED lights 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 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
| 200-240V~MAX 3300W.

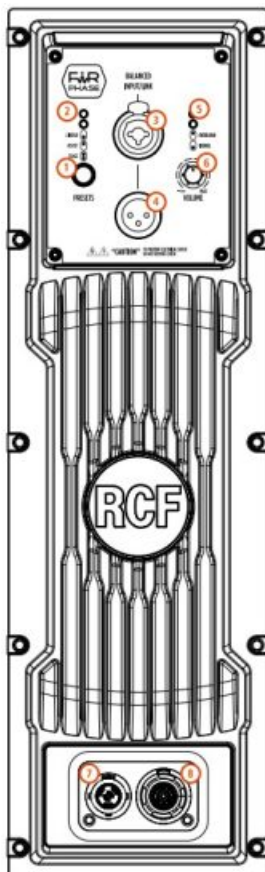


WARNING! CAUTION! Loudspeaker connections should be only made by qualified and experienced personnel having the technical know-how or enough specific instructions (to ensure that connections are made correctly) in order to prevent any electrical danger.

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.

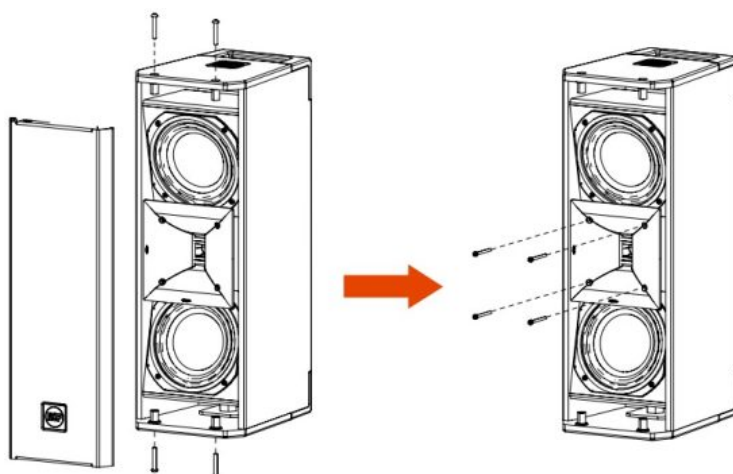
The entire sound system shall be designed and installed in compliance with the current local laws and regulations regarding electrical systems.



ROTATION OF THE HORN

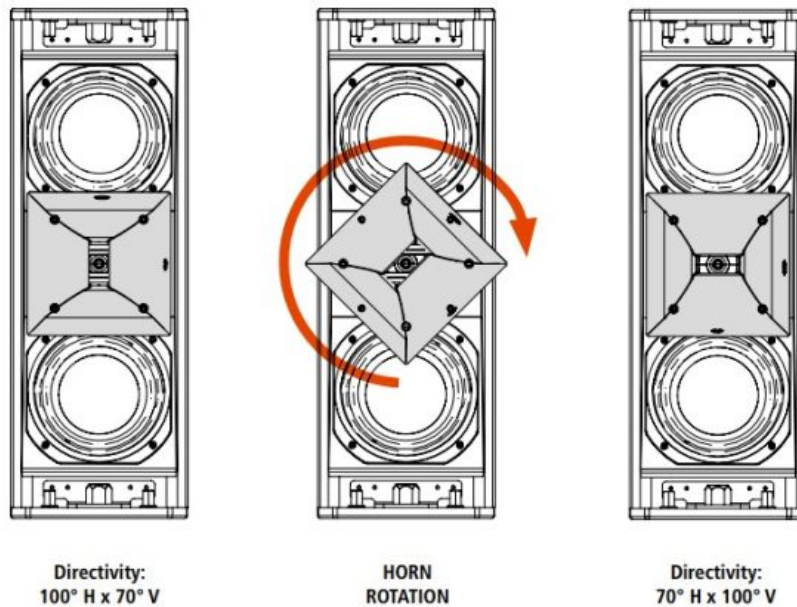
NXL 14-A horn can be rotated to reverse the coverage angle and obtain a directivity of 70° H x 100° V.

Remove the front grille by unscrewing the four screws on top and bottom of the speaker. Then unscrew the four screws on the horn.



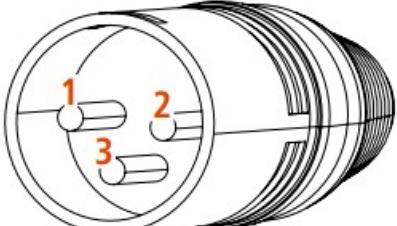


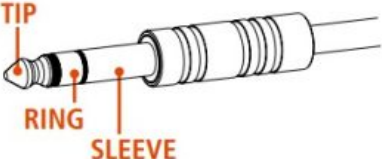
Rotate the horn and screw it back with the same screws removed earlier. Place back the grille on its position and

screw it to the cabinet.



CONNECTIONS

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

<p>MALE XLR CONNECTOR Balanced wiring</p> 	<p>FEMALE XLR CONNECTOR Balanced wiring</p>  <div><p>PIN 1 = GROUND (SHIELD) PIN 2 = HOT (+) PIN 3 = COLD (-)</p></div>
<p>TRS CONNECTOR Unbalanced mono wiring</p> 	<p>TRS CONNECTOR Balanced mono wiring</p>  <div><p>SLEEVE = GROUND (SHIELD) TIP = HOT (+) RING = COLD (-)</p></div>

BEFORE CONNECTING THE SPEAKER

On the rear panel you will find all the controls, signal 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 a 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). It is important that the mixer is already ON before turning on the speaker. This will avoid damages 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 turning 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 audio signal, controlling level and maintaining distortion at acceptable level.

VOLTAGE SETUP (RESERVED TO THE RCF SERVICE CENTRE)

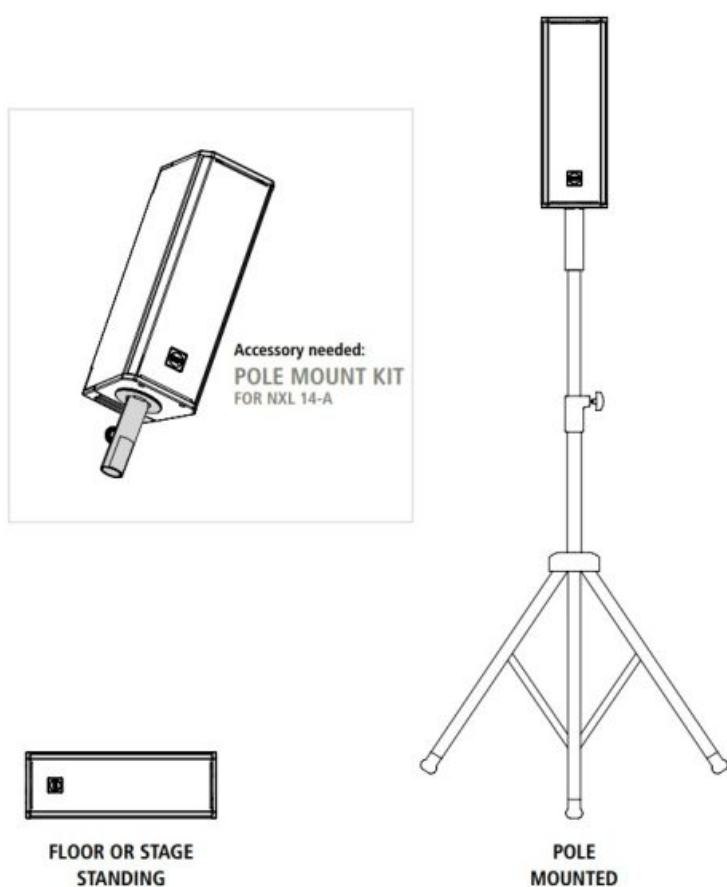
220-240 V~ 50 Hz

100-120V~ 60Hz

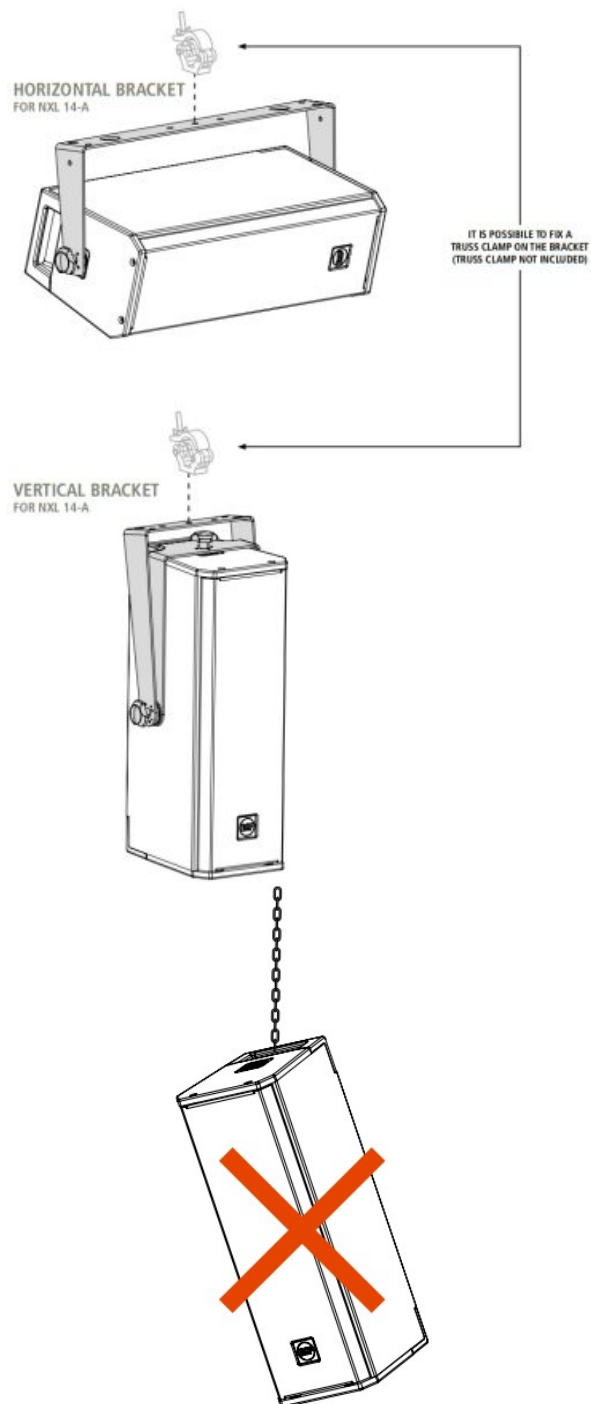
FUSE VALUE T 6.3 A L 250V

INSTALLATION

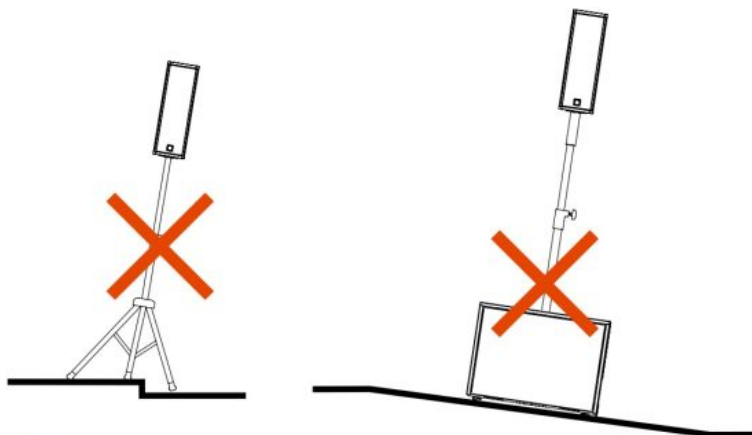
Several floor configurations are possible with NXL 14-A; it can be placed on the floor or on a stage as main PA or it can be pole mounted on a speaker stand or over a subwoofer.



NXL 14-A can be wall mounted or hanged with the use of its specific brackets.



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 damages to people, animals and objects. In any case, please assure the subwoofer which is holding the speaker is located on an 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 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 equipments connected to the mixer input including cables and connectors.



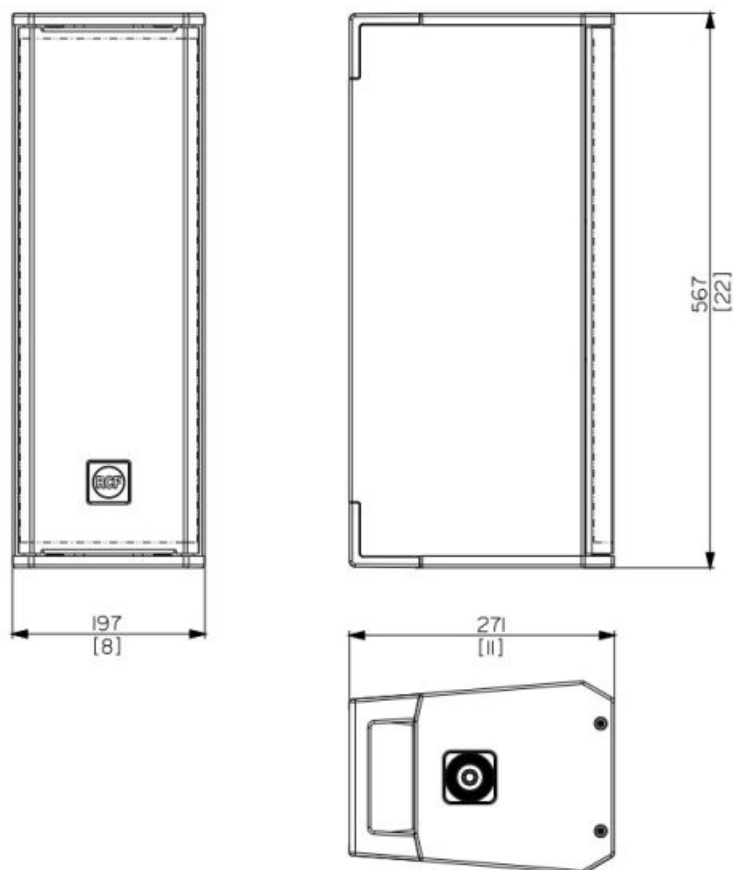
WARNING! to reduce the risk of electric shock, do not disassemble this product unless you are qualified. Refer servicing to qualified service personnel.

SPECIFICATION

TECHNICAL SPECIFICATIONS

Acoustical specifications	Frequency Response Max SPL @ 1m Horizontal coverage angle Vertical coverage angle	70 Hz ÷ 20000 Hz 128 dB 100° 70°
Transducers	Compression Drive r Woofer	1 x 1.0" neo, 1.75" v.c 2 x 6.0" neo, 2.0" v.c
Input/Output section	Input signal Input connectors Output connectors Input sensitivity	bal/unbal Combo XLR/Jack XLR -2 dBu/+4 dBu
Processor section	Crossover Frequencies Protections Limiter Controls RDNet	1200 Excurs. Fast Limiter Bypass, Linear/High Pass, Volume on board Yes
Power section	Total Power High frequencies Low frequencies Cooling Connections	2100 W Peak 700 W Peak 1400 W Peak Convection Powercon TRUE1 TOP IN/OUT
Standard compliance	Safety agency	CE compliant
Physical specifications	Hardware Handles Color	2X M10 TOP AND BOTTOM 2X PIN D.10 2 TOP AND BOTTOM Black/ White
Size	Height Width Depth Weight	567 mm / 22.32 inches 197 mm / 7.76 inches 270 mm / 10.63 inches 12.8 kg / 28.22 lbs
Shipping information	Package Height Package Width Package Depth Package Weight	600 mm / 23.62 inches 232 mm / 9.13 inches 302 mm / 11.89 inches 14.6 kg / 32.19 lbs

NXL 14-A DIMENSIONS




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Documents / Resources

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

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

[Manuals+](#), [Privacy Policy](#)

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