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X-LINE
Speaker Systems

USER GUIDE

X15 and Xs18

Xs18

SPECIFICATIONS	XS18
Frequency Range (-6dB)	34Hz-200Hz
Sensitivity 1w/1m half space	102dB
Maximum SPL (calculated)	133dB
Power (AES)	1400W
Impedance	8Ω
Drivers	18"
Connectors	2x NL4
Dimensions (WxHxD)cm	67.7x56x78.6
Weight	54kg

10. Contacts

In case of any doubts or any information just:

Write us:
Next-proaudio
Rua da Venda Nova, 295
4435-469 Rio Tinto
Portugal

Contact us:
Tel. +351 22 489 00 75
Fax. +351 22 480 50 97

Send an e-mail:
info@next-proaudio.com

Search our website:
www.next-proaudio.com

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1. INTRODUCTION

Thank you for purchasing a NEXT X-line Speaker system. The X-line is a range of portable loudspeaker enclosures designed for a variety of portable sound reinforcement and club applications. X-line products covered in this user's guide include the X15 full-range system and Xs18 sub-bass.
For optimum performance, it is recommended that X-line systems be used with the CVA LMS-240, digital signal processor . The controller provides crossover, delay, EQ and limiter functions for X-line configurations and may also be used as an optional equaliser and limiter for the full-range X15. Please refer to LMS240 user's guide for further information.

2. UNPACKING

Each Next X-line Series loudspeaker is built to the highest standard and thoroughly inspected before it leaves the factory. After unpacking the system, examine it carefully for any signs of transit damage and inform your dealer if any such damage is found. It is suggested that you retain the original packaging so that the system can be repacked at a future date if necessary. Please note that Next-proaudio and its distributors cannot accept any responsibility for damage to any returned product through the use of non-approved packaging.

3. X15 and Xs18 OVERVIEW

The X-line X15 and Xs18 are ideally suited to applications that require very compact size, high output and ease of transportation. They also make ideal fill-in speakers for use with larger X-line systems and their very small size is particularly useful in situations that require visually discrete monitors.

8. WARRANTY

NEXT products are warranted, by NEXT-proaudio, against manufacturing defects in materials or craftsmanship over a period of 5 years for the loudspeakers, and 2 years for the other components, 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. 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.

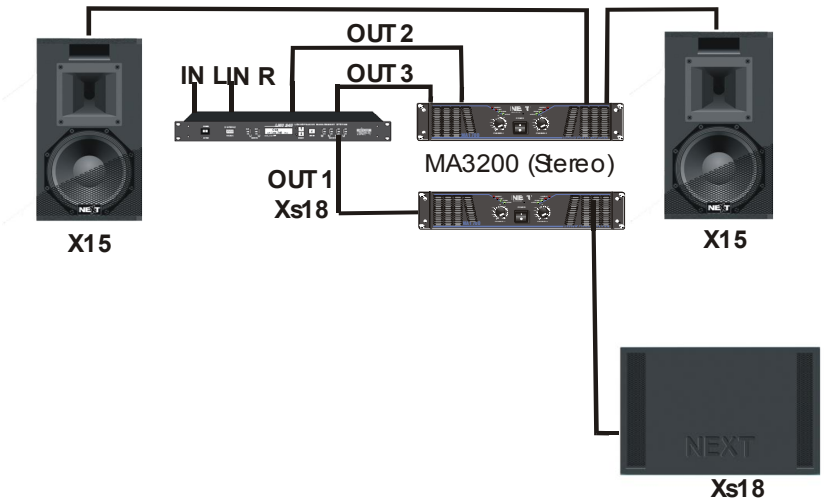
This warranty is exclusive and no other warranty is expressed or implied. This warranty does not affect your statutory rights.

9. Technical Specifications

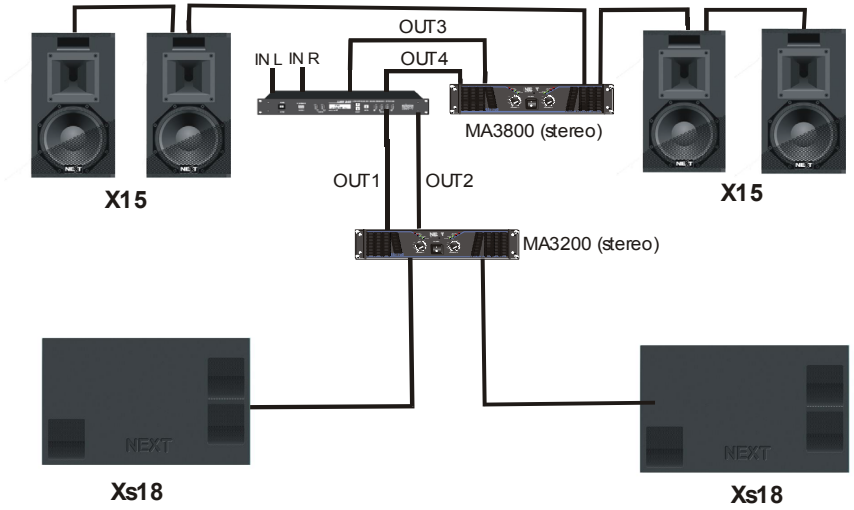
X15

SPECIFICATIONS	X15
Frequency Range (-6dB)	53Hz-18kHz
Sensitivity 1w/1m half space	100dB
Maximum SPL (calculated)	129dB
Power (AES)	800W
Impedance	8Ω
Dispersion (HxV)	50°-100° x 50°
Drivers (LF/HF)	15"/1.4"
Connectors	2x NL4
Dimensions (WxHxD)cm	46x73.3x40.4
Weight	31.4kg

X15 with Xs18



X15 with Xs18



3.1 X15 Full-range system

The X15 is a 2-way passive system, designed to provide exceptional club sound reinforcement and stage monitoring from a very compact enclosure.
It features a powerful 15" low frequency driver and a 1.4" HF compression driver mounted on a constant directivity 50º-100º H x 50° V assimetrical horn.
Depending on the application, the HF horn can be rotated to allow the multi-angle enclosure to be used in either its vertical or horizontal orientation. To rotate the horn for horizontal use, remove the grille (see below), unscrew the horn and rotate it through 90 degrees.
The enclosure is provided with 14 M6 threaded inserts . It is also provided with a top hat fitting for use with a tripod or as a pole socket for mounting above a X-line subwoofer.
The use of a LMS240, Digital Signal Processor, in the X-line is optional, but using it without Controller will result in poor sound quality and may damage the components.

Applications:

Theatres;
Night clubs;
Live club performance;
High powered Floor monitor.

Grille Removal
To remove the grille, first remove all grille retaining screws. The grille can then be removed by inserting a flat bladed screwdriver under one of the notches at the top and bottom of the grille then gently levering the grille out of the side channels

3.2 Xs18 Sub-bass System

The Xs18 sub-bass system can be used with the X10, X12 and X15 and X212 in order to extend and increase the total low frequency output power. The Xs18 is a Band-Pass sub-bass and provides a powerful bass from a long excursion 18" driver with 100mm voice coil and it will extend the frequency response of the complete system to below 30Hz. This cabinet is made with 18mm birch plywood.
The use of a LMS240, Digital Signal Processor, in the X-line is optional, but using it without Controller will result in poor sound quality and may damage the components. Depending on the type of Mid/High speaker, this sub-bass system can work with a active crossover in frequencies between 20Hz to 80Hz (24 db/octave).
The Xs18 is provided with a top hat fitting that can be used as a pole socket to mount an X10, X12 and X15 above the enclosure.

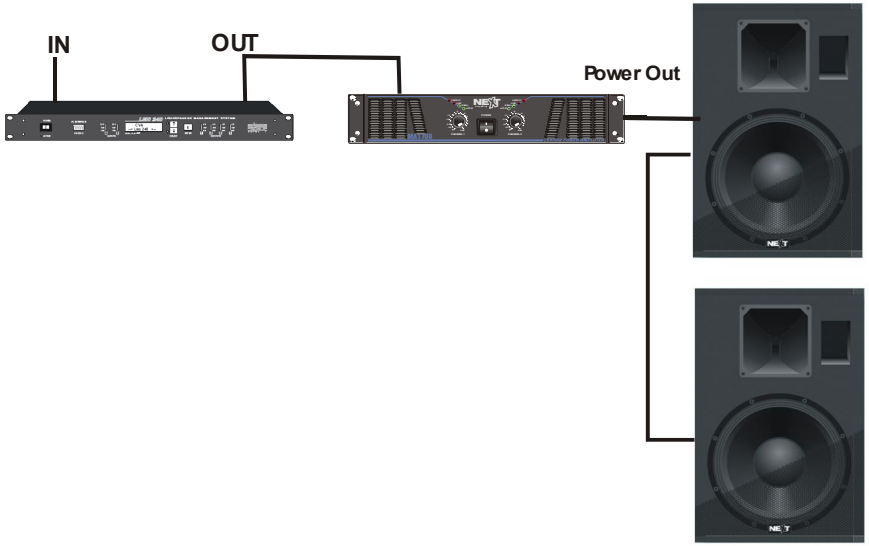
Applications:
Theatres;
Night clubs;
Live club performance;
Portable or installed audio-visual reproduction.

7. System Configurations

There are many different system combinations possible when the X15 full-range systems are used with the Xs18 and X-line sub-bass systems. Shown below are some typical configurations. Please note that for simplicity each line in the diagram represents a pair of wires.

X15 Full-range speaker

Depending of the amp, it can be linked 2 X15

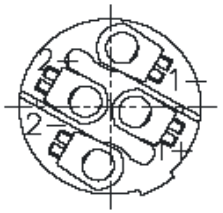


and control electronics have stabilised. When powering down the system, reverse the sequence and switch off the amplifiers first.

6. CONNECTIONS

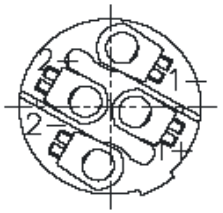
Each connector panel has two Neutrik® Speakon® connectors wired in parallel with each other. The second connector allows the use of a short link lead to power another parallel loudspeaker. The connectors are wired as follows:

X15



NL4 Connector (2+ and 2-)

Xs18



NL4 Connector (1+ and 1-)

Mounting Configurations

Vertical alone

Vertical (more than one)

Horizontal Alone

Horizontal (more than one)

4. SAFETY FIRST

It is important that loudspeaker systems are used in a safe manner. Please take some time to review the following points concerning safe use of X-line Series loudspeakers.
Professional loudspeakers are capable of producing extremely high sound 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

Tripod Mounting

The X15 incorporate a pole mounting socket to facilitate mounting on tripod stands. When using stands, the following precautions are advised:
Ensure that the stand will support the weight of the speaker by checking the stand manufacturers rating.
Make sure that the stand is placed on a level surface and that its legs are fully extended.
Do not place more than one speaker on each stand.
Run cables so that they do not present a trip hazard which could pull the speaker over.
When used outdoors in the wind, it may be necessary to add some weight to the base of the stand.
When using a pole mount with a sub-bass system, observe similar precautions.

Stacking

Ensure that the floor or stage is level and solid.
Do not stack speakers too high outdoors where winds could topple the stack.
Be aware that speakers producing very high power levels can move or creep. To avoid this, place friction material between the floor and speaker and between each speaker.

Rigging and Suspension

WARNING: Suspending the system should only be done by qualified

personnel following safe rigging practices. Secure fixings to the building structure are vital. Seek help from architects, structural engineers or other specialists if in any doubt.
X-line Series enclosures are designed for portable applications, but can be suspended singly by means of the threaded inserts provided or by compatible Next-proaudio wall Brackets. The X15 enclosures are fitted internally with steel corner reinforcement brackets to ensure that each cabinet is strong enough to be hung from its top.
The common practice of using commercially available eye bolts for suspension should only be undertaken with great caution. Eye bolts are strongest along the thread axis. Angling the enclosure will result in an angle pull and it is important to use eye bolts that are safe in these circumstances. Only forged shoulder eye bolts should be considered and it is important that the thread length is at least 30mm. A flat washer should be inserted between the eyebolt and the enclosure. **Formed eye bolts i.e. those which are formed from a steel rod bent into an eye should be avoided.**

5. Amplification

The X15 and Xs18 systems are designed to be used with professional power amplifiers and Next-proaudio recommends **Next Amplifiers**.

X15 Next MA3200 (800w, stereo at 8 ohm)
Xs18 Next MA1700 (1700w, bridge at 4 ohm, when working alone)
Xs18 Next MA3200 (1200w, stereo at 4 ohm, one Xs18 on each channel)

Care should be taken to avoid amplifier clipping. It is important to understand that a low power amplifier driven into clipping is more likely to damage a loudspeaker than a higher power amplifier used within its ratings. This is because music signals have a high peak-to-average "crest" factor. When an amplifier is severely overdriven, its output waveform is clipped (its peaks are squared off) – reducing the crest factor. In extreme cases, the waveform can approach that of a square wave. An amplifier is normally capable of producing far more power under these conditions than its undistorted rated power output. The use of very high power amplifiers with outputs greater than those recommended is discouraged.
Care should be taken to avoid switch-on surges, which can result in momentary power peaks in excess of specified ratings. When powering up a sound system it is important to switch on the amplifiers after the mixer