

LX-218S

BASS-REFLEX SUB UNIT
DSP INTEGRATED
POWERED CABINET



DATA SHEET

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- ▶ Class D Powered (bi-amplified)
- ▶ Integrated Digital Processing
- ▶ Internal temperature control
- ▶ Electronic protection
- ▶ High quality components
- ▶ Online monitoring available



APPLICATIONS:

- Theatres
- Concert Halls
- Auditoriums
- Conferences
- Sport Stadiums
- Houses of worship
- Outdoor events

GENERAL DESCRIPTION:

The LX-218S is part of the Lynx Line Array Series and is the ideal solution for application where high precision Line Array is required. This sub-bass cabinet is the ideal combination where low frequency reinforcement is needed for the LX-V8 or LX-F6.

High power, front loaded, sub-bass cabinet with two 18" (4" voice coil) low frequency neodymium transducers with nomex cones and suspension in direct radiation configuration. The transducers have ventilated voice coil and magnet circuit for improved heat dissipation. The system is powered with a total of 3600W of class D amplification and each cabinet has a DSP integrated. Other features include temperature sensor, fan speed control, inclinometer, Ethernet options and more.

The rugged, light weight LX-218S offers an exceptional power to size ratio, high damping factor and low distortion with a perfectly flat response from 35Hz to 125Hz.

Different options frequency response available by preset.

SPECIFICATIONS:

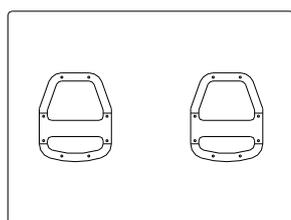
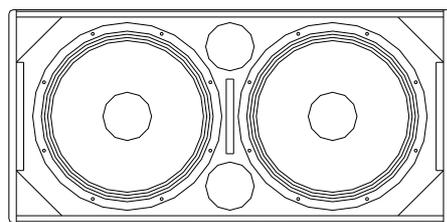
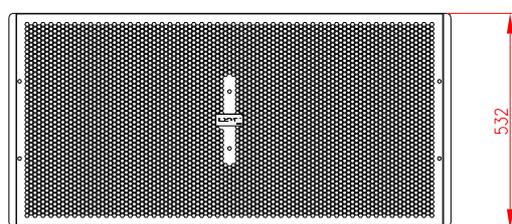
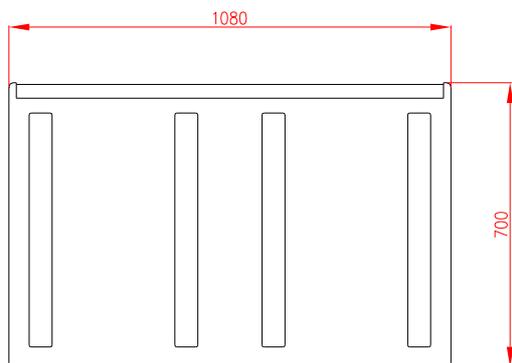
FREQUENCY RANGE	30Hz -200Hz
FREQUENCY RESPONSE	35 Hz - 125 Hz \pm 3dB 35 Hz - 200Hz \pm 3dB selectable by preset
HORIZONTAL COVERAGE	360° single unit
MAX SPL	136 dB/ 139dB peak
TRANSDUCERS	LF: 2 x 18" Custom Nomex Cone and Neodimium magnet
SHAPE	Direct radiation
POWER AMPLIFIER	3600W Class D with Switching Power supply 2 x 1800W
DSP	Internal LYNX digital processor DSPB-22®
CABINET ADJUSTMENT	Back panel LCD screen
INTERNAL CONTROLS	Temperature sensor / Fan Speed
SIGNAL CONNECTION	NEUTRIK connectors XLR Male Input XLR Female Loop Thru
CONTROL CONECTIONS	USB (DSP programming), ETHERNET* (Online Control System OCS®)
AC POWER	85V - 270V 50/60 Hz with PFC
AC CONECTIONS	16A NEUTRIK POWERCON with Looping Output
CONSTRUCTION	18 mm Premium birch plywood
FINISH	High resistant polyurea coating
FRONT DESIGN	Black steel grille
DIMENSIONS (H x W x D)	532 x 1080 x 700 mm
WEIGHT	72 Kg (158 lbs)

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KEY FEATURES:

SELF POWERED

Bi-amplified Class D with switching power supply. Includes two 1500W power modules, one for each 18" transducer. The amplification far exceeds the transducers needs thus resulting in high output, high damping factor and extremely low levels of distortion.

DIGITAL PROCESSING & DOUBLE DYNAMICS

Latest generation 24bit/96Khz digital processor which optimizes the system components. It includes 2 channel processing electronics with functions for phase correction, driver protection, gain control, equalization and crossover, using double precision filters with 56bit internal processing. This enables a noticeable reduction in distortion with clean and clear equalization. The DSP incorporates sophisticated double protection limitation; RMS and Peak. The RMS limiter is used to adjust the transducer reproduction level, maintaining the original dynamics whilst at the same time respecting the original transients and achieving a better acoustical result. The Peak limiter controls the movement of the speaker, protecting it from any damage and also reducing distortion caused by over-exursion. These double dynamics lower levels of distortion and provide protection for all the speaker components and internal electronics.

TEMPERATURE & PROTECTION CONTROL

Via internal sensors a micro controller analyzes in real time the temperature of each power module. It then automatically adjusts the fan speed to apply the correct temperature dissipation, reducing both the speed of the fan and the noise generated leaving the system as quiet as possible.

COMPONENTS

Transducers with neodymium magnet groups, nomex cones and suspension prolonging the life of the components. Interleaved sandwich voice coil, weather protected membrane for outdoor use, ventilated voice coil and magnet circuit for improved heat dissipation, double spider for improved control and linearity.

HARDWARE

Cabinet constructed from premium birch plywood and finished with high-resistant water based black paint.

SOFTWARE:



- ONLINE MONITORING SYSTEM

Offers detailed system information for each cabinet and via ethernet or PC. Controls the cabinet/s in real time.



- RAINBOW

Acoustical Prediction software for accurate loudspeaker planning offering both horizontal and vertical views.

HARDWARE:



CALX-218
Transport dolly



M20 optional



Wheel kit



Nylon protection cover

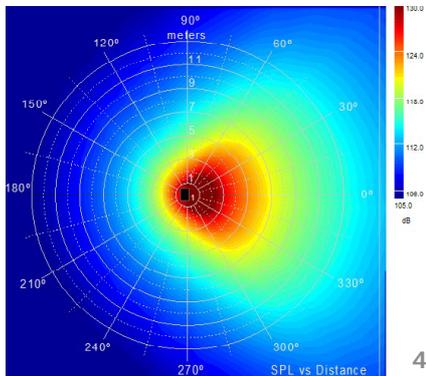
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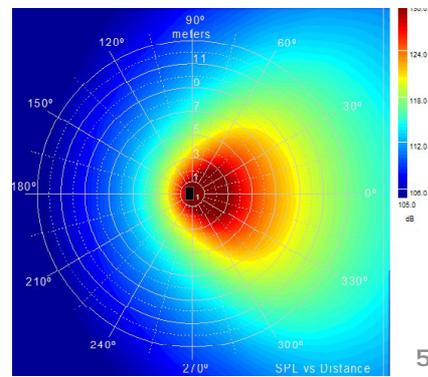
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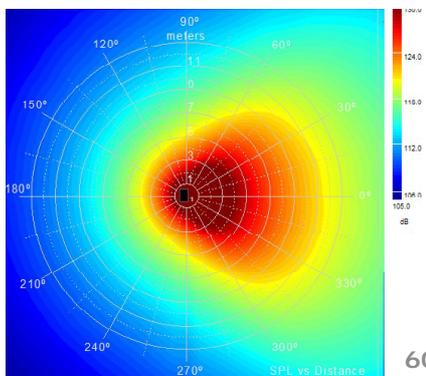
HORIZONTAL POLARS



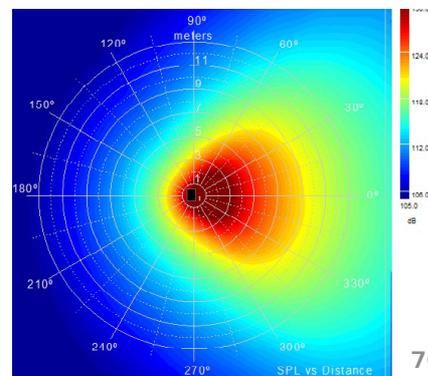
40 Hz



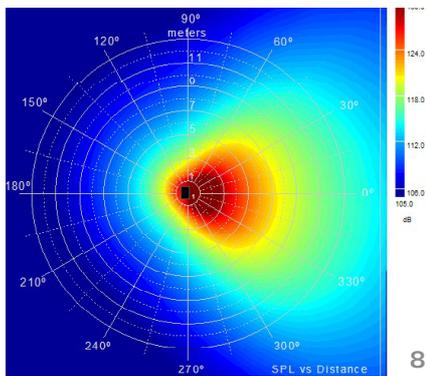
50 Hz



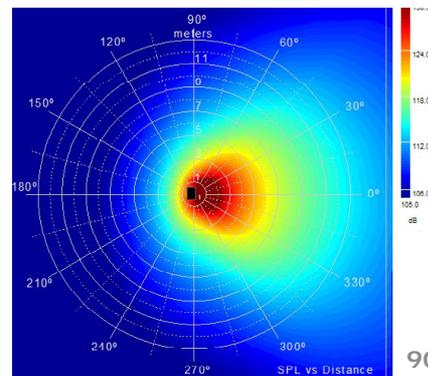
60 Hz



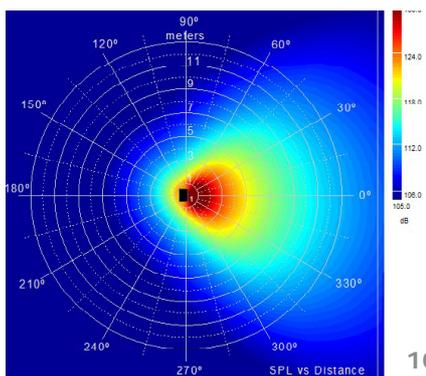
70 Hz



80 Hz



90 Hz



100 Hz