

Extremely high power, Self-powered Class D with PFC (Power Factor Correction), three-way Line Array. DSP (FIR technology) controlled with 4000W amplification, 143dB SPL, built-in inclinometer.



Key features

- Class D powered (tri-amplified)
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- Digital inclinometer system
- FIR linear phase filtering
- Online monitoring available
- Three way active system

Applications

- Theatres
- Sports stadiums
- Large discos
- Outdoor events
- Concert halls & auditoriums

General description & specifications

The LX-V12 is the ideal solution for application in theatres, concert halls, stadiums, auditoriums, conference halls or any event where high precision line Array is required.

The LX-V12 is a very high output three-way self powered cabinet. Each cabinet has a DSP integrated which applies linear phase (FIR) and classical crossovers. Other features include temperature sensor, fan speed control, inclinometer, Ethernet options and many more. Dual LF 12" (4" interleaved sandwich voice coil) neodymium woofers with double demodulating rings, Four MF 6.5" transducers with glass fiber cones & ultra-light voice coil and two HF 1.4" neodymium magnet drivers with titanium diaphragm and individual high precision wave guide.

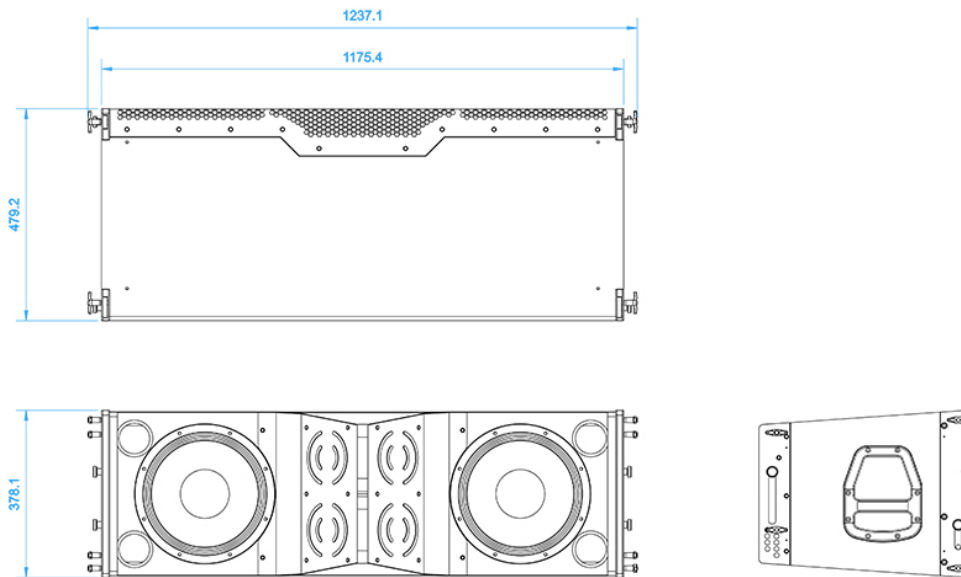
The LX-V12 has a selection of rugged hardware available. The SV-LXV12 flying frame can hold up to 16 cabinets with splay angles selectable in 0.5° increments between 0° to 3° and 1° increments between 3° to 12°. The CA-LXV12 transport dolly can house up to 6 cabinets and a nylon protection cover is also available. Rain hoods are also optional to protect the system electronics.

With a very high power to size ratio and with easy rigging options offered the system can be taken from the truck and rigged up in record time. It is also very easy to use and control without the need for any external amps. To extend the low frequency response, the LX-318C Cardioid subwoofer is recommended

Technical Data

Components	
• LF/MF	LF: 2 x 12" neodymium Interleaved Sandwich Voice Coil MF: 4 x 6.5" neodymium Glass fiber cones
• HF	2 x 1.4" neodymium drivers with titanium diaphragm and individual wave guides
Frequency range	45 Hz - 20 KHz (-10dB)
Frequency response	55 Hz - 18 KHz (± 3dB)
Max SPL	140 dB / 143 dB peak
Coverage angle	100° H x 10° V according to configuration
Power	4000 W Class D with switching power supply & PFC LF amplifier: 2 x 1200 W MF amplifier: 1 x 1000 W HF amplifier: 1 x 600 W
Processing	56 bit Lynx dspb-24 with FIR filters
Control	Cabinet angle detection – Temperature sensor – Fan speed – Online Control
Control connections	Ethernet (OCS) optional / USB (DSP programming)
AC Power	85 – 270V. 50/60 Hz with PFC
AC connections	32A Neutrik PowerCON NAC3FC-HC
Finish	Polyurea coating – white colour optional (RAL)
Material	15 mm premium birch plywood
Dimensions	378 x 1175 x 479 mm (H x W x D) without pins
Weight	74 kg (163 lbs)

Dimensional Drawing



Accessories

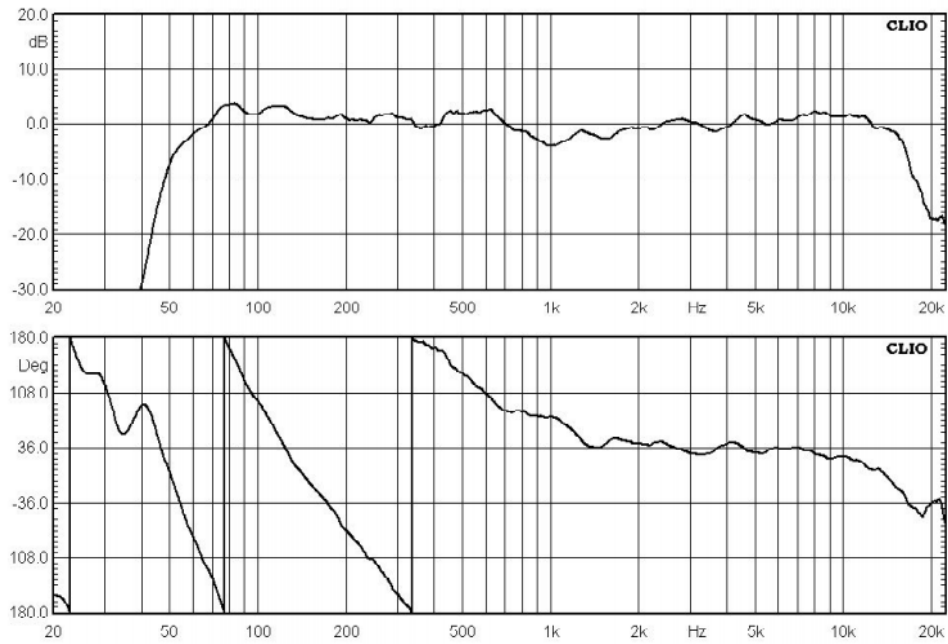
	BALL-PSR1020	Ball pin with thread for LX-V12 and LX-318C cabinets
	CA-LXV12	Transport dolly for up to 4 LX-V12
	ST-LX318CV	Connection system to link LX-V12 with sub LX-318C
	SC-LXV12/8	Connection system to link LX-V12 with LX-V8
	SV-LXV12	Aluminium flying frame for the LX-V12 You can use this frame for ground stack or rigging of up to 24 cabinets.
	FD-1LXV12NL	Rain cover for the back panel of the LX-V12
	FD-4LXV12	Nylon protection cover for either 4 LX-V12 cabinets

Amplification & DSP

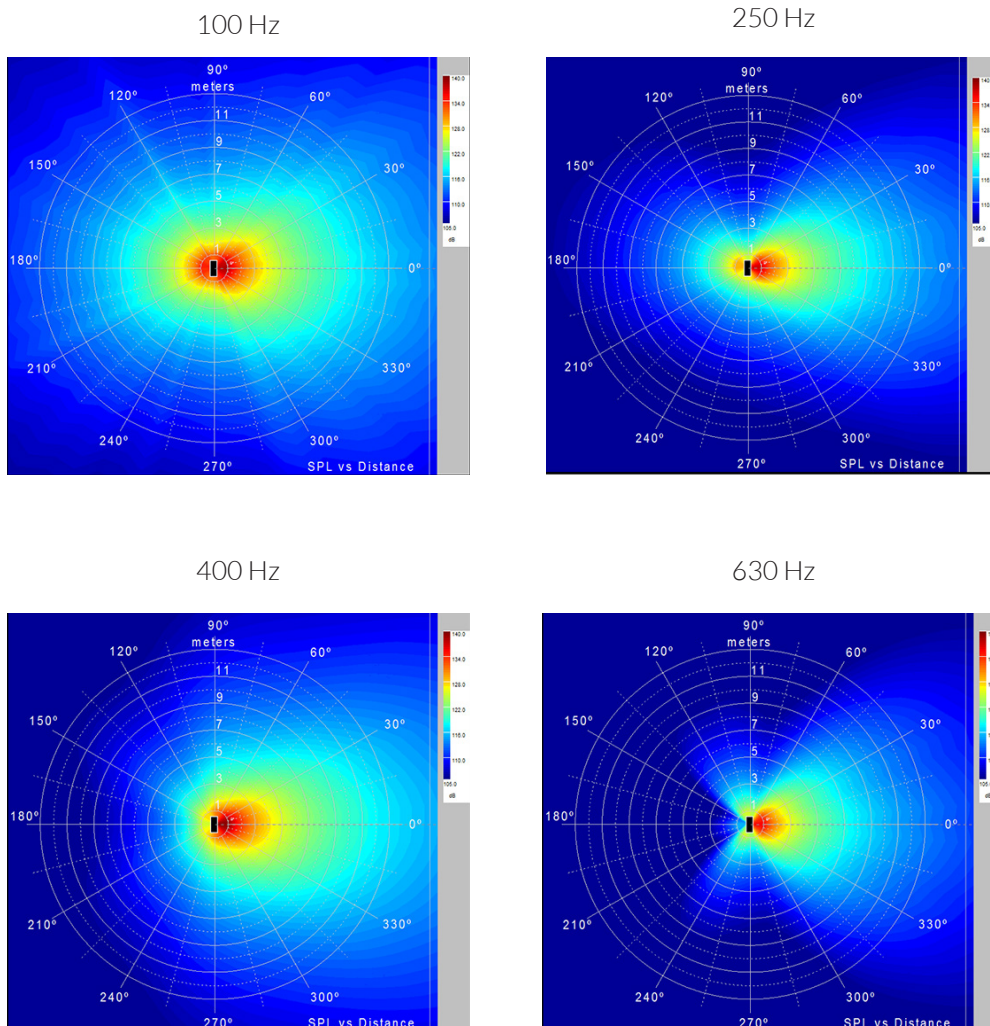
Bi-amplified Class D with switching power supply and PFC (Power Factor Correction). With PFC the power supply regulates itself when AC mains change, so the amp power output will not change with mains swinging. The amplification far exceeds the transducers needs thus resulting in high output, high damping factor and extremely low levels of distortion.

This system is also very environmentally friendly with a reduction of approximately 40% of current draw. Includes two power modules, one (800W) for the speakers and other (600W) for the HF drivers.

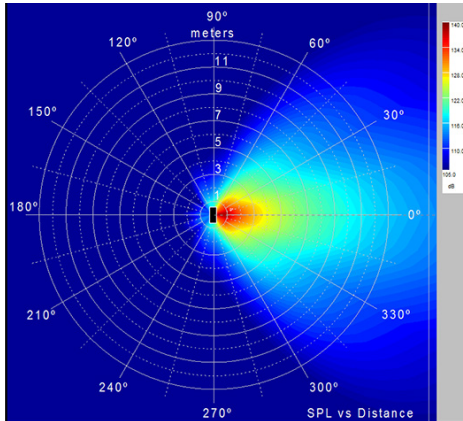
Impedance Response & Frequency Response



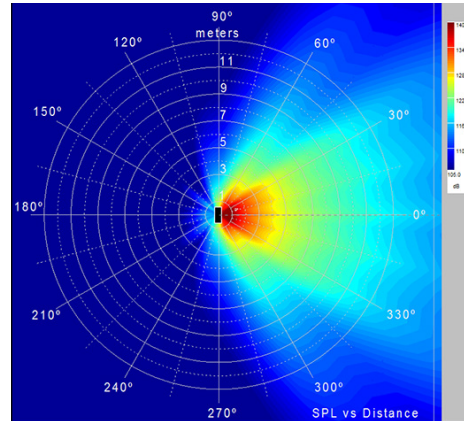
Horizontal Polars



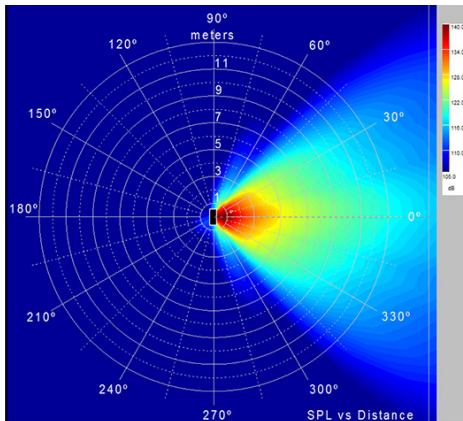
1000 Hz



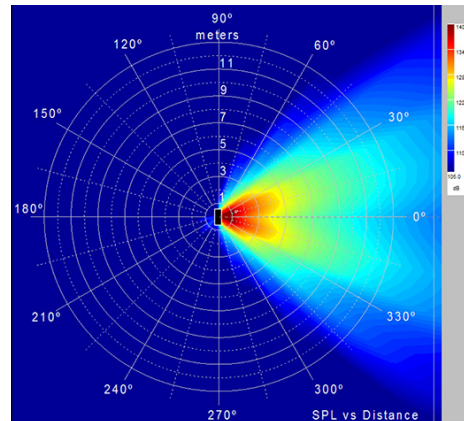
2000 Hz



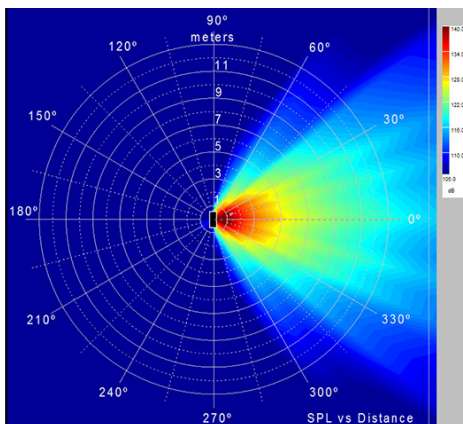
4000 Hz



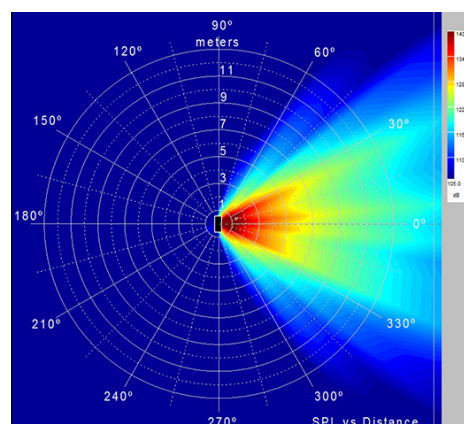
6300 Hz



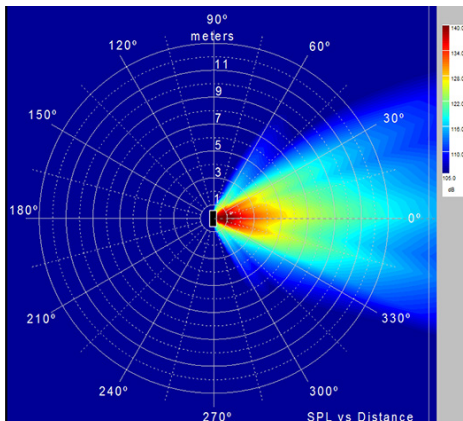
8000 Hz



10500 Hz



12500 Hz



16000 Hz

