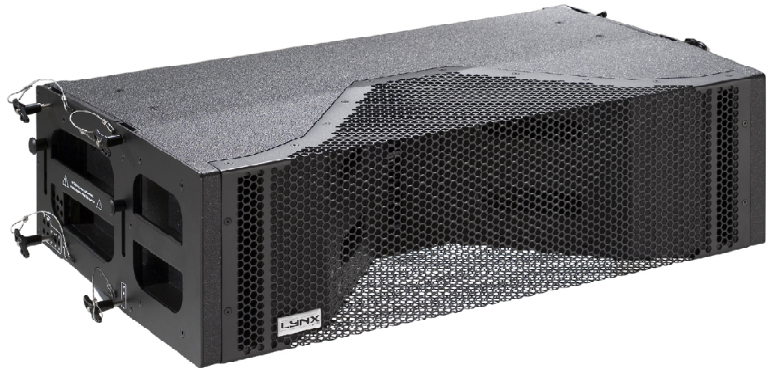


- ▶ Class D Powered (tri-amplified)
- ▶ Integrated Digital Processing
- ▶ Internal temperature control
- ▶ Electronic protection
- ▶ Digital inclinometer system
- ▶ FIR linear phase filtering
- ▶ Online monitoring available



## APPLICATIONS:

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

## GENERAL DESCRIPTION:

The LX-V8 is part of the Lynx Line Array Series. Line Array topology is employed to create cylindrical radiation, increasing throw and achieving a precise control of both horizontal and vertical dispersion. The LX-V8 is the ideal solution for application in theatres, concert halls, stadiums, auditoriums, conference halls or any event where high precision Line Array is required.

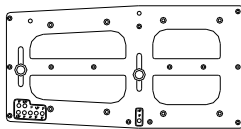
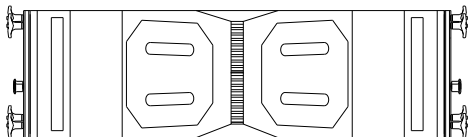
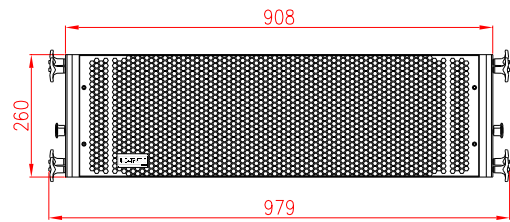
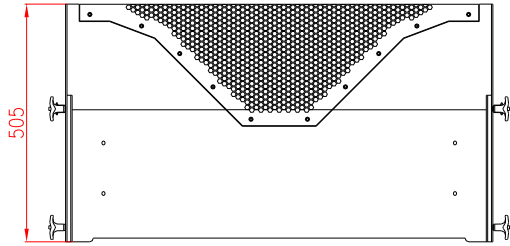
The LX-V8 is a high output two-way self powered cabinet in V configuration. For the low-mid frequencies it uses dual 8" neodymium transducers with nomex cones and suspension. The high frequencies are looked after by two 1" neodymium magnet drivers with titanium diaphragm, each with its own individual high precision wave guide. The system is powered with a total of 1500W of class D amplification, 1000W for the low/mid frequencies and 500W for the high frequencies. Each cabinet has a DSP integrated which applies linear phase (FIR) and classical crossover. Other features include temperature sensor, fan speed control, inclinometer, Ethernet options and many more.

The LX-V8 has a selection of rugged hardware available. The SV-LXV8 flying frame can hold up to 24 cabinets with splay angles selectable in 0.5° increments between 0° to 3° and 1° increments between 3° to 12°. The CA-LXV8 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-318HC or the LX-218S sub bass cabinets can be used.

## SPECIFICATIONS:

FREQUENCY RANGE	65Hz -20KHz
FREQUENCY RESPONSE	75Hz- 18KHz ± 3dB
HORIZONTAL COVERAGE	90°
VERTICAL COVERAGE	According to Array configuration
MAX SPL	131 dB/ 134dB peak
TRANSDUCERS	LF/MF: 2 x 8" Custom Nomex cone Neodymium HF: 2 x 1" Driver Neodymium + Wave Guide
SHAPE	V configuration Front Loaded
POWER AMPLIFIER	1500W Class D with Switching Power supply 2 channels / 3 power modules 2 x 500W Low/Mid + 500W High
DSP	Internal LYNX processor DSPB-22® with FIR filters
CABINET ADJUSTMENT	Back panel LCD screen
INTERNAL CONTROLS	Cabinet Angle detection / Temperature sensor Fan Speed control
SIGNAL CONNECTION	NEUTRIK connectors XLR Male Input XLR Female Loop Thru
CONTROL CONNECTIONS	USB (DSP programming), ETHERNET* (Online Control System OCS®)
AC POWER	230v / 115v selectable. 50/60 Hz 3A
AC CONNECTIONS	16A NEUTRIK POWERCON with Looping Output
CONSTRUCTION	15 mm Premium Birch plywood
FINISH	High resistant water-based black paint
FRONT DESIGN	Black metal grille
DIMENSIONS (H x W x D)	260 x 908 x 505 mm 260 x 979 x 505 mm with ball-pins
WEIGHT	43 Kg (94,61 lbs)
INTERCABINET ANGLE ADJUSTMENT	0°/ 0,5°/ 1°/ 1,5°/ 2°/ 2,5°/ 3°/ 4°/ 5°/ 6° + 6° Front adjust
RIGGING	Integrated flying plates



## KEY FEATURES AND BENEFITS:

### SELF POWERED

Tri-amplified Class D with switching power supply. Includes three 500W power modules, one for each 8" transducer and one for the HF drivers. 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, classic crossover and linear phase filtering, 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.

### DIGITAL INCLINOMETER

Automatic function to calculate cabinet splay angles. The inclinometer data can be viewed and controlled from the cabinet LCD display either manually or automatically. The inclinometer automatically communicates with the DSP and modifies the equalization algorithms. According to the splay angle of the inclinometer the DSP compensates for atmospheric loss. The result is a more efficient performance and a flat response, even at long distances.

### 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 and drivers with neodymium magnet groups. Nomex cones and suspension for the transducers, with weather protected membrane for outdoor use and ventilated voice coil for improved heat dissipation. Titanium diaphragms for the HF drivers increasing the life of the components, Short copper cap for extended HF response.

### HARDWARE

Cabinet constructed from premium birch plywood and finished with high-resistant water based black paint. Robust steel flying frame for easy rigging options and splay configuration.

## SOFTWARE:



### - ONLINE CONTROL 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.

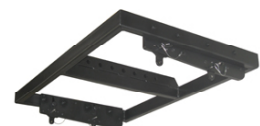
## HARDWARE:



TLA-320  
PA lift



FD-4LXV8  
Nylon protection  
cover



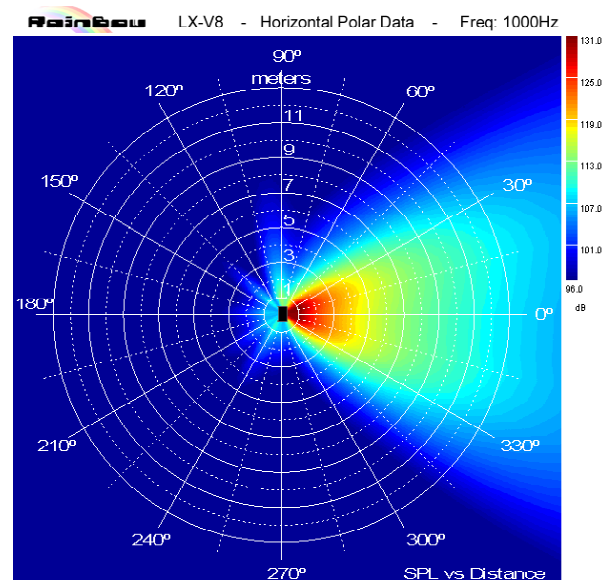
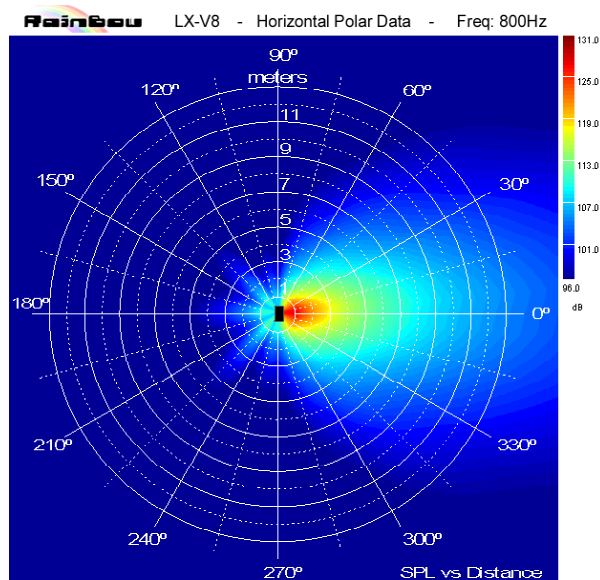
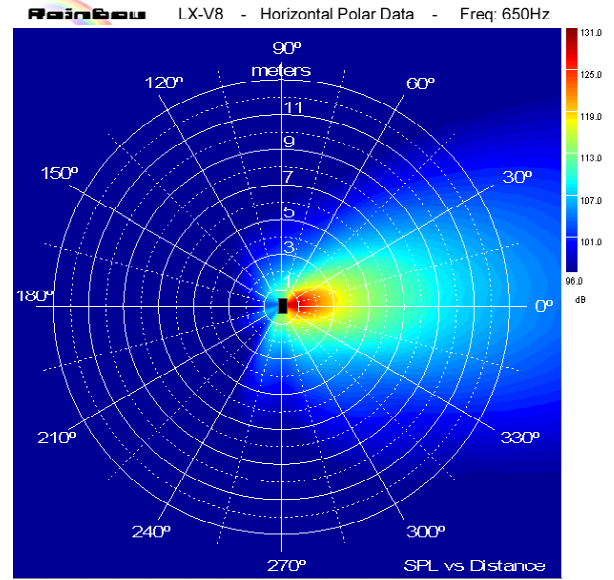
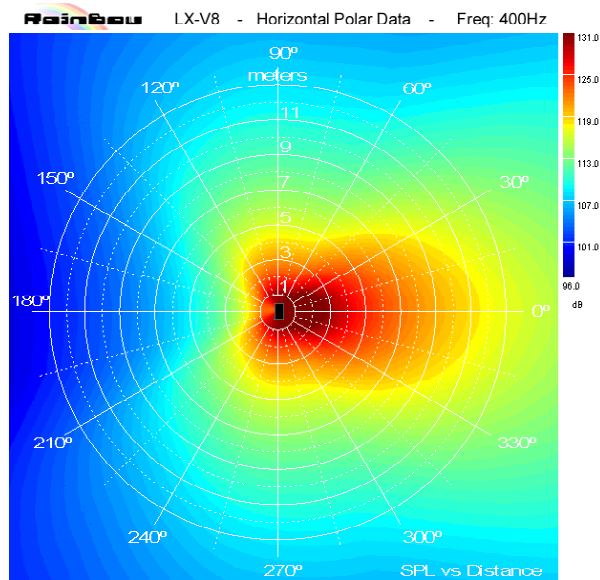
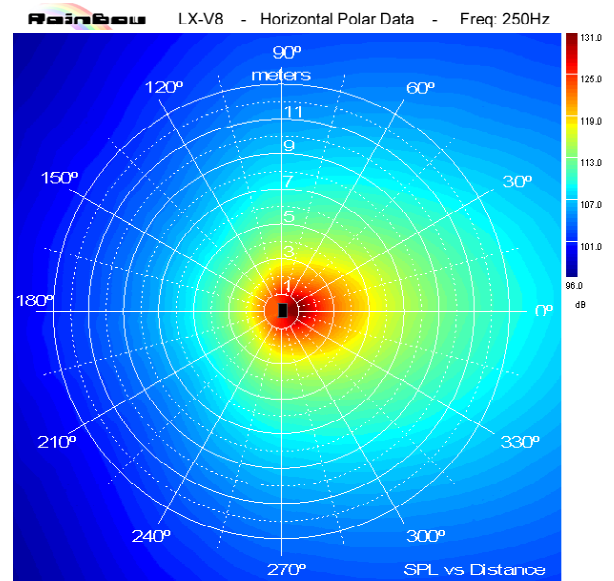
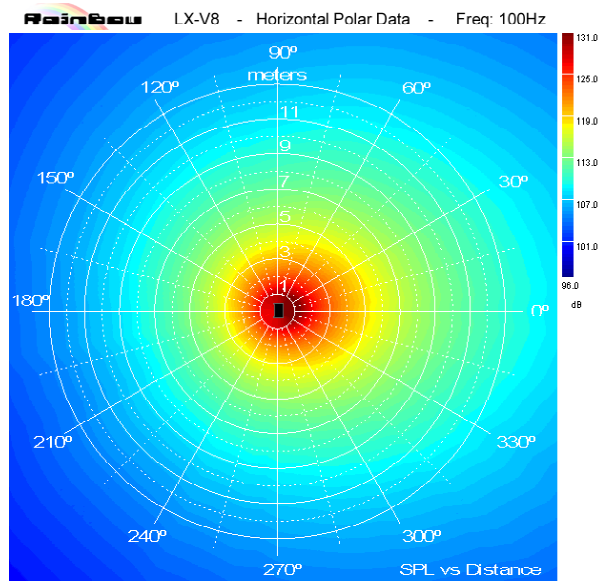
SV-LXV8  
Flying frame



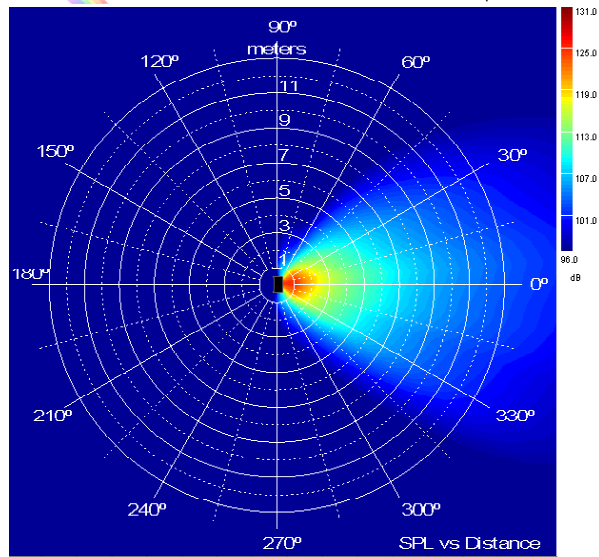
FD-1LXV8NL  
Rain cover



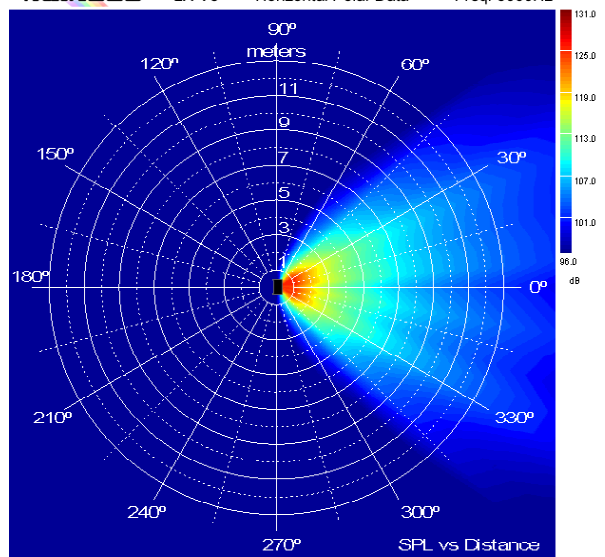
CA-LXV8  
Transport dolly



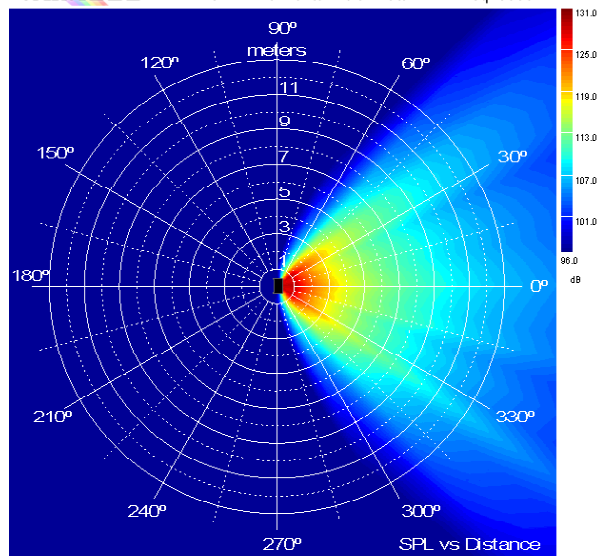
Rainbow LX-V8 - Horizontal Polar Data - Freq: 2500Hz



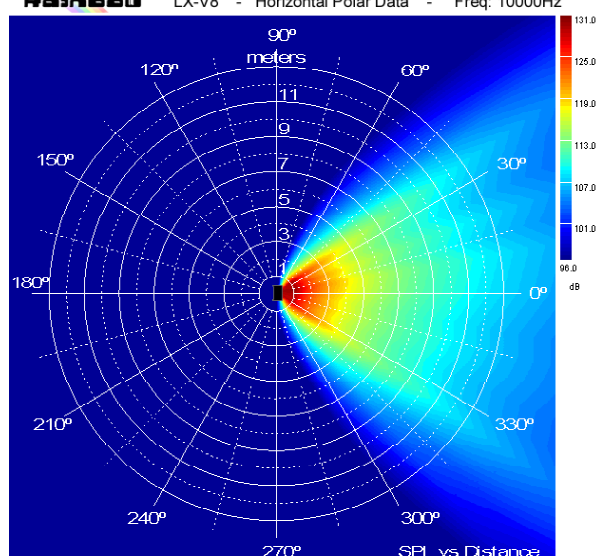
Rainbow LX-V8 - Horizontal Polar Data - Freq: 5000Hz



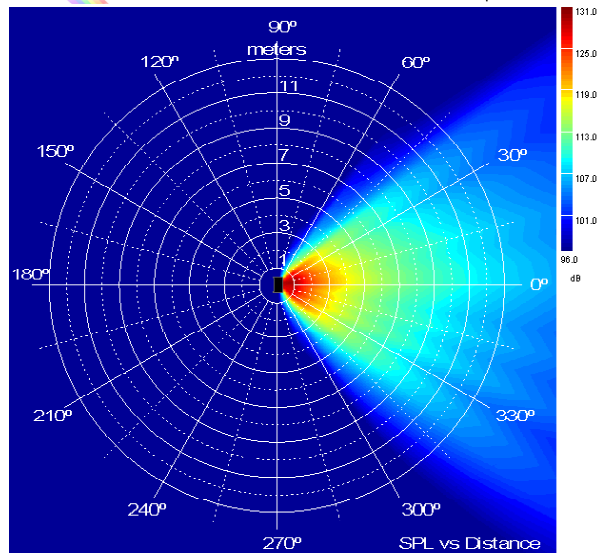
Rainbow LX-V8 - Horizontal Polar Data - Freq: 8000Hz



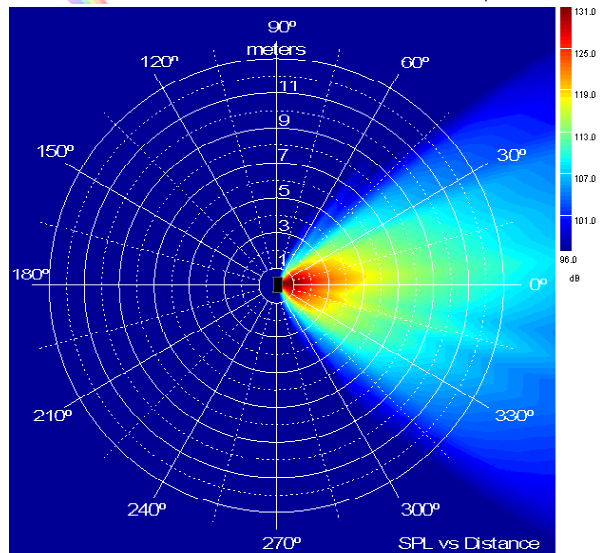
Rainbow LX-V8 - Horizontal Polar Data - Freq: 10000Hz



Rainbow LX-V8 - Horizontal Polar Data - Freq: 12500Hz



Rainbow LX-V8 - Horizontal Polar Data - Freq: 15000Hz



### FREQUENCY / PHASE RESPONSE

