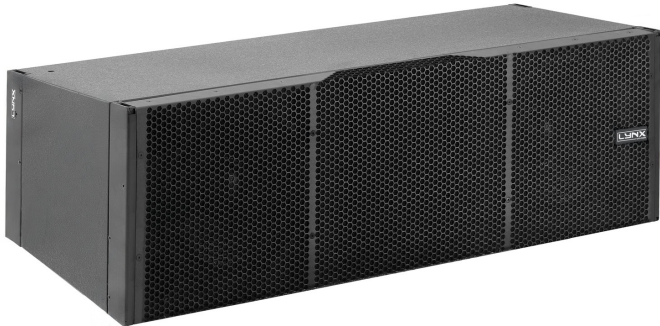


Extremely compact & powerful 3-way, triamplified, 4-channel line array element. Dual high power 12" transducers with four 6.5" double roll MF drivers and two 1.4" HF compression drivers with titanium diaphragm and individual wave guides. Designed for mid and long throw, permanent installations



Applications

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

Key features

- Extraordinary power-to-size ratio
- Three ways, four channels line array element
- Perfect acoustical coupling of individual units to create virtually continuous line source & excellent phase coherence
- Extended bandwidth (60 Hz - 22 KHz)
- Perfect Time Alignment avoiding Multi-Source Interference problems
- Design in premium birch plywood & finished in polyurea

General description & specifications

HR-D12 is a high-output extremely compact and powerful 3-way, 4-channel triamplified symmetrical line source element designed specifically for fixed installations requiring mid and/or long throw.

It uses two low distortion 12" (3" DUO copper voice coil) custom speakers for the low frequencies with exclusive Malt Cross cooling technology, FEA optimized neodymium magnet circuit, aluminium demodulating ring and waterproof cone.

For the mid frequencies it uses four 6.5" drivers with copper voice coil and treated double roll cloth surround. The High frequencies are looked after by two 1.4" exit throat compression drivers with titanium diaphragms and individual wave guides.

Depending on the configuration, the system is amplified with the GTX Series, 4-channel, extremely high power level amplifiers with

outstanding, high efficiency. They come equipped with a quality FIR-DSP with high performance 96kHz DSP processing and a large IPS display with a touch panel user interface.

Advanced Audio Power Control Management has been implemented in the design of the GTX series. This enables the user to configure the division of power between the channels via the DSP enabling them to obtain maximum power through just one single channel if desired. Optional Networking AES67 and AES3 Digital inputs are also available.

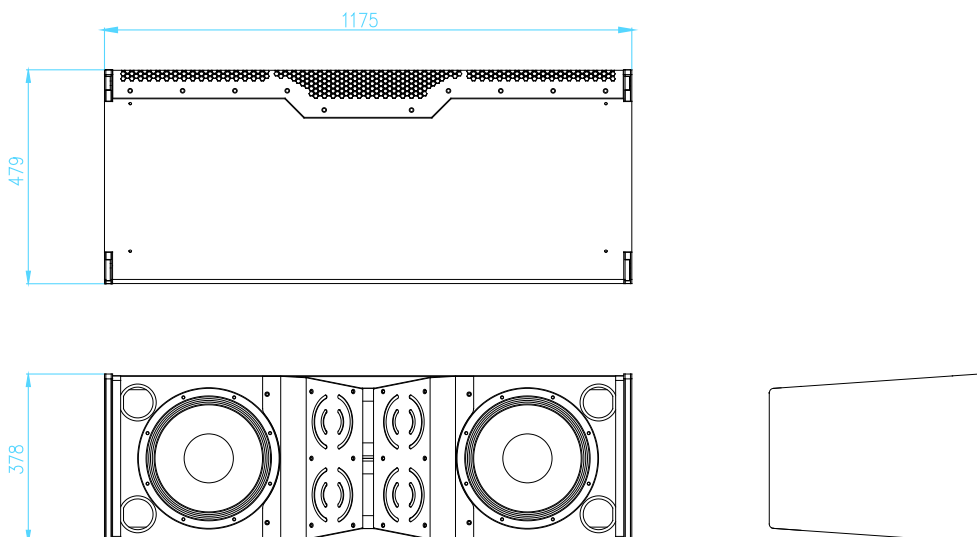
The enclosure is made from premium grade birch plywood and finished with a polyurea coating for longer durability & weather protection. It has a dedicated bumper designed to fly up to 16 HR-D12 cabinets in a single array.

Technical Data

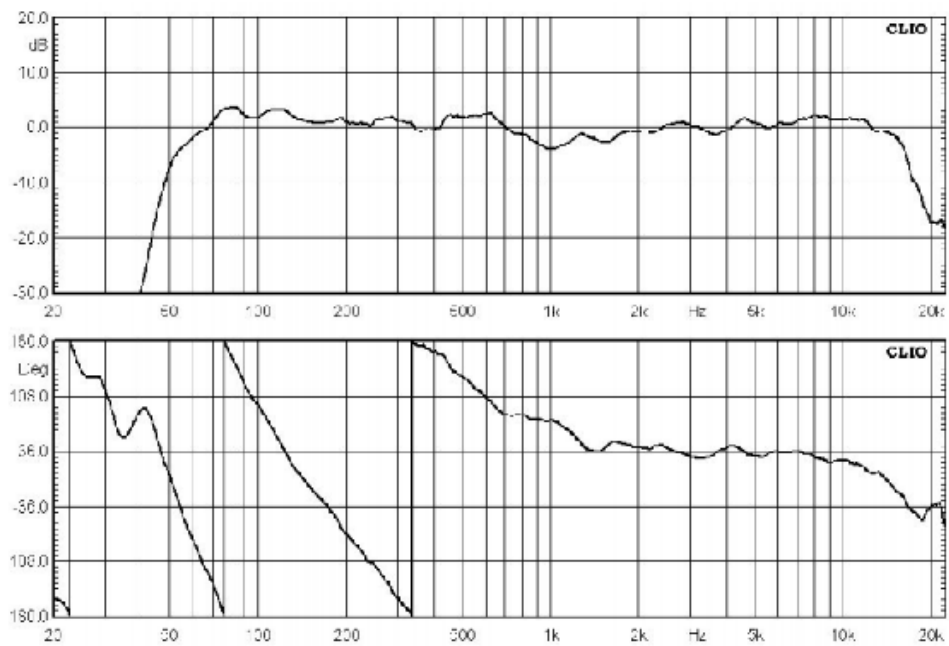
Components	
• LF	2 x 12", 3" DUO double layer in/out copper voice coil with aluminium demodulating ring, waterproof cone treated on both sides. 1400W AES.
• MF	4 x 6,5", 1,5" copper wire voice coil with Treated double roll cloth surround. 800W AES.
• HF	2 x 1,4" exit throat compression driver with titanium diaphragm and individual wave guide. 160W AES
Frequency range	55Hz-20KHz (-10dB)
Frequency response	65Hz – 18KHz (± 3dB)
Horizontal coverage	100°
Vertical coverage	Single element 10°
Power	LF: 2 x 700W AES / 2 x 1400W Program / 2 x 2800W Peak MF: 800W AES / 1600W Program / 3200W Peak HF: 150W AES / 300W Program / 600W Peak
Impedance	LF: 2 x 8 Ohm MF: 8 Ohm HF: 8 Ohm
Sensitivity	LF: 106 dB MF: 108 dB HF: 116 dB
Max SPL	LF: 137 dB / 143 dB Peak MF: 137 dB / 143 dB Peak HF: 138 dB / 144 dB Peak
Crossover	External DSP processing 3 way with FIR filters
Speakon connection	+1 -1 Left 12" / +2 -2 Right 12" / +3 -3 Mid section / +4 -4 High Section
Finish	Polyurea coating RAL
Material	15 mm premium birch plywood
Dimensions	378 x 1175 x 479 mm (H x W x D) without pins
Weight	75 Kgs

*Calculated maximum SPL based on rated peak power and measured sensitivity.

Dimensional Drawing

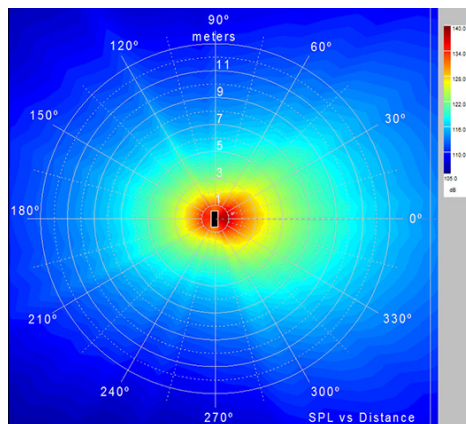


Phase Response & Frequency Response

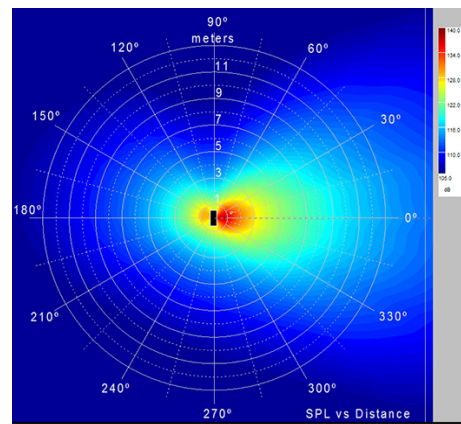


Horizontal Polars

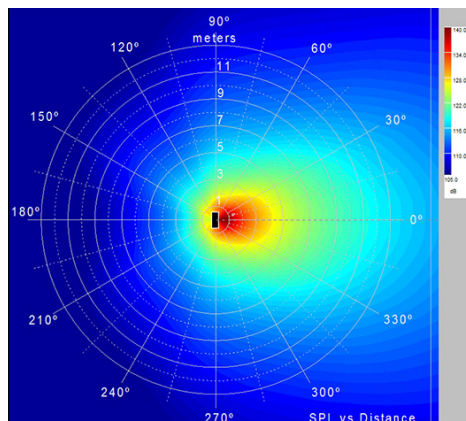
100 Hz



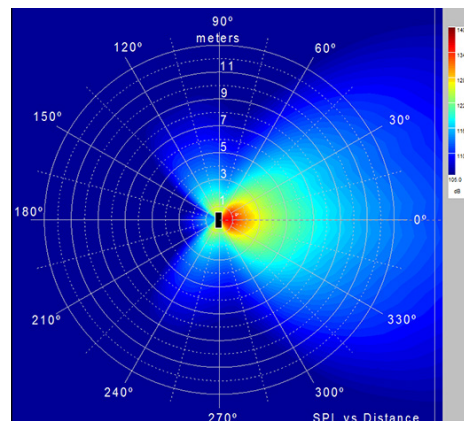
250 Hz



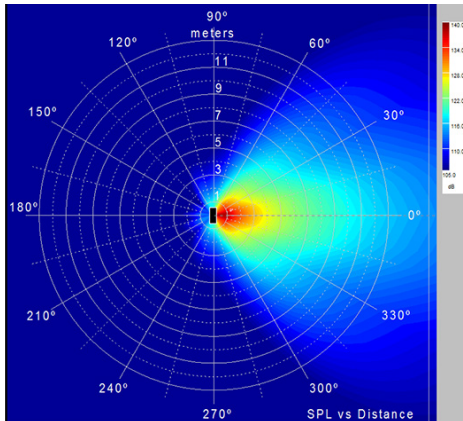
400 Hz



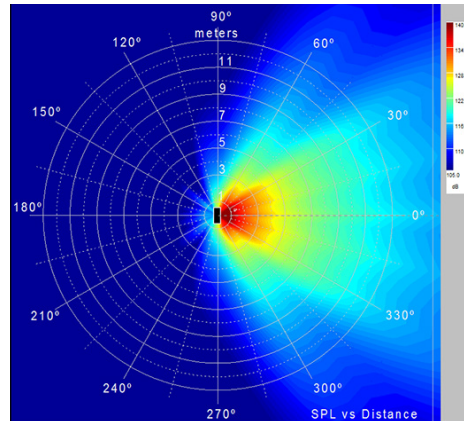
630 Hz



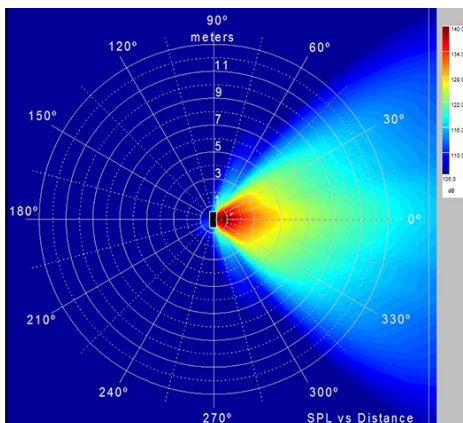
1000 Hz



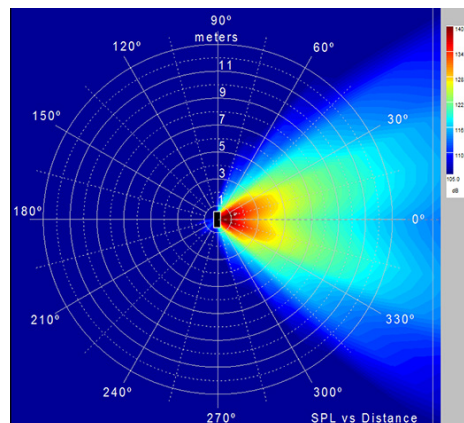
2000 Hz



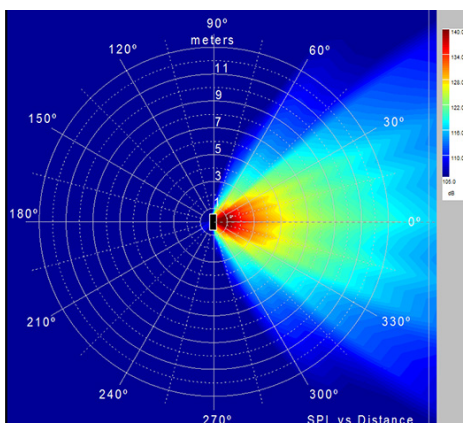
4000 Hz



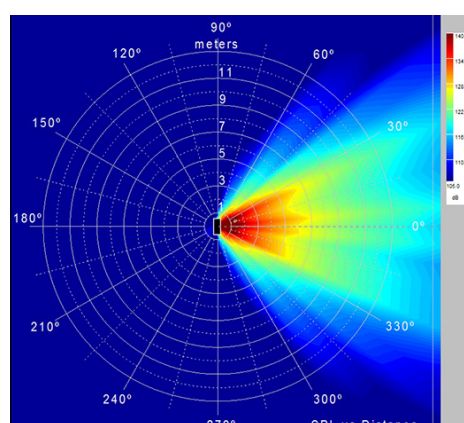
6300 Hz



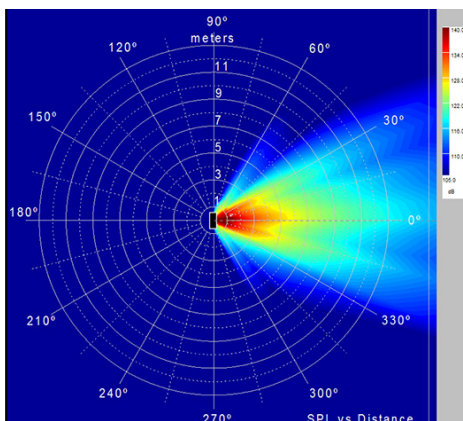
8000 Hz



10500 Hz



12500 Hz



16000 Hz

