

# XTLSA Linear Source Array



## 3-way line array element

### GENERALITIES

The Linear Source Array system is state-of-the-art in audio design of line array systems for concert & touring sound. It can meet the needs of a high power and great impact installation; it is versatile and scalable for a wide range of applications for the "live" market (stadiums, sport venues and arenas). XTLSA is a 3-way passive line array element, which can be used in a bi-amplification or in tri-amplification mode (by cutting off the passive filter) thanks to an in-built selector (*jumper*).

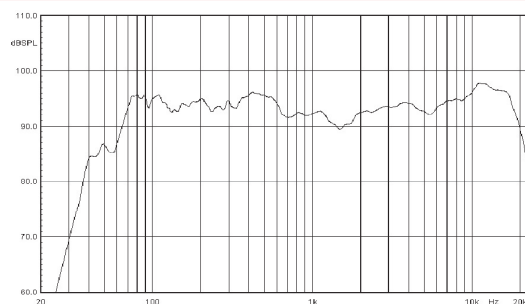
### COMPONENTS

XTLSA includes two neodymium 6" mid-range loudspeakers, two 1" titanium drivers and a 12" woofer for an overall 760 Watt RMS power. A special horn-loading technology has been used to achieve a linear source, which is evenly distributed both inside the cabinet and outside the line array system.

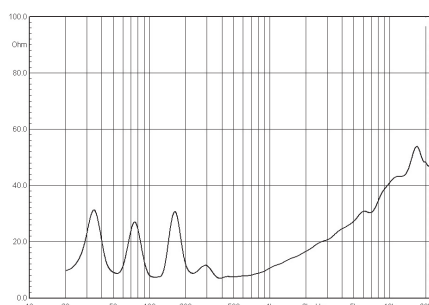
### CABINET

The cabinet is made up of 0,6" (15 mm) thick birch panels, and it is able to resist any mechanical stress without vibrating. XTLSA is equipped with a certified flying system, which allows to create flown arrays in a fast and safe manner. The express-bar has been designed to ensure a convenient and stable assembly for suspension and floor stacking alike. Wheelboard available on request.

### Frequency response



### LF Impedance response



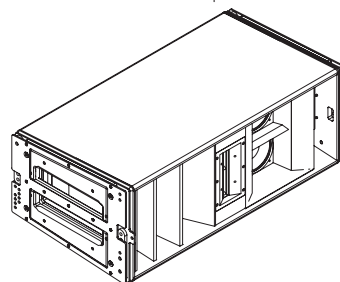
### TECHNICAL FEATURES

System configuration	<b>select. bi-amp or tri-amp</b>
Power handling RMS	<b>760 W</b>
Power handling Music	<b>1500 W</b>
Power handling Peak	<b>3000 W</b>
Frequency response (-3 dB)	<b>65÷18k Hz</b>
Nominal impedance (bi-amp)	<b>8 (LF), 8 (MF+HF) Ohm</b>
Nominal impedance (tri-amp)	<b>8 (LF), 8 (MF), 8 (HF) Ohm</b>
Horiz. dispersion angle (-6 dB)	<b>120°</b>
Axial sensitivity (1W@1m)	<b>102 dB</b>
Continuous SPL (@1m)	<b>131 dB</b>
Peak SPL (@1m)	<b>137 dB</b>
Crossover frequency	<b>300 Hz (bi-amp)</b> <b>300 Hz - 1,8k Hz (tri-amp)</b>

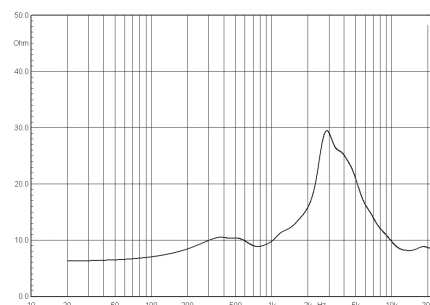
### Transducers

LF sub system	<b>1x12" neodymium</b>
Nominal impedance	<b>8 Ohm</b>
Nominal power handling	<b>400 W</b>
Sensitivity (1W@1m)	<b>100 dB</b>
MF sub system	<b>2x6" neodymium</b>
Nominal impedance	<b>16 Ohm</b>
Nominal power handling	<b>100 W</b>
Sensitivity (1W@1m)	<b>99 dB</b>
HF sub system	<b>2x1"</b>
Diaphragm	<b>RING, titanium</b>
Voice coil	<b>1,75", aluminium</b>
Throat diameter	<b>1"</b>
Nominal impedance	<b>16 Ohm</b>
Nominal power handling	<b>80 W</b>
Sensitivity (1W@1m)	<b>115 dB</b>
HORN	<b>Narrow Beam Double Horn</b>
Waveguide material	<b>phenolic wood</b>
Manufacturing process	<b>shavings removal</b>

All measurements have been taken in the Sound Corporation research laboratories.



### MF+HF Impedance response



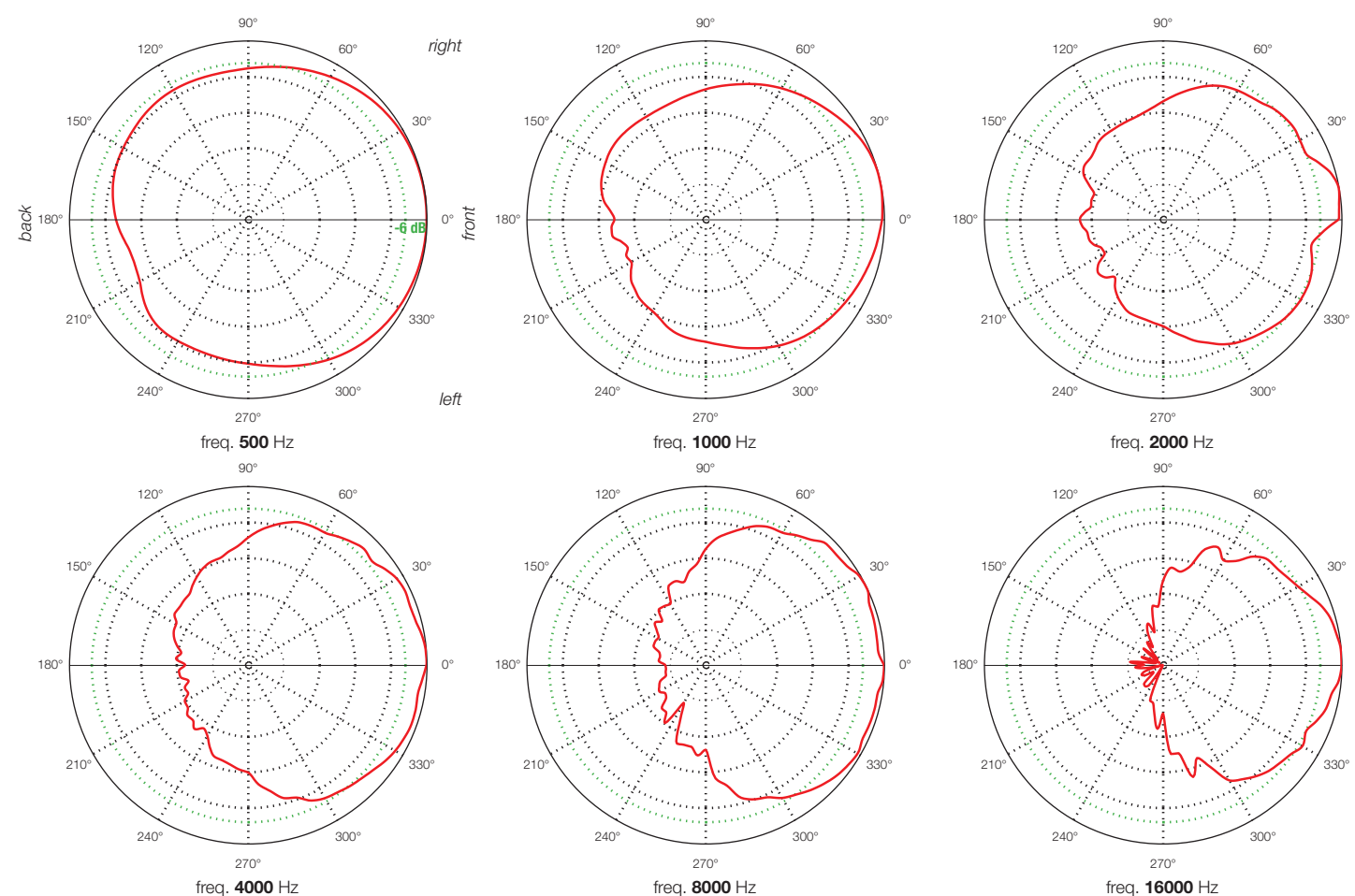
In compliance with European Standards **CE** - Certified by Italian Quality Institute

**X - T R E M E**

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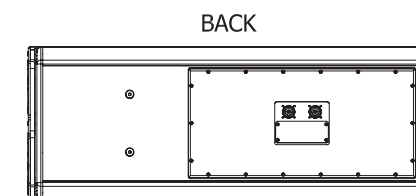
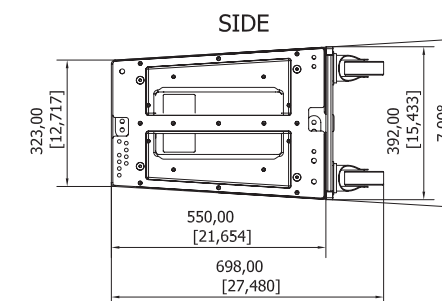
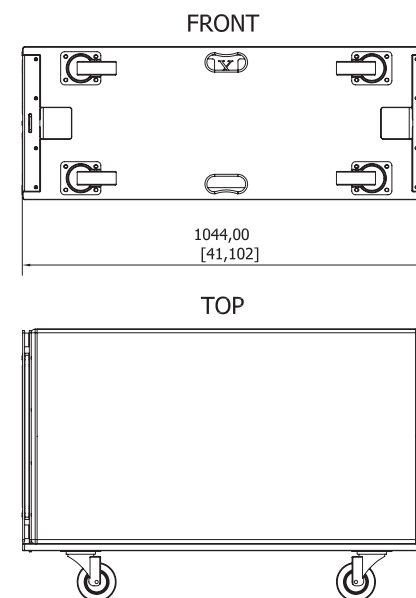
### POLAR PATTERNS (normalized, ref. on axis, passive X-over)



For the *vertical line arrays* (VLA) electro-acoustic loudspeaker systems the **horizontal** polar pattern is the only one indicated. The reason for this technical choice is that these elements have been installed with a vertically-oriented acoustic-geometric coupling. In this case, what really matters is the vertical polar pattern of the whole system (*line array*).

### Polar Patterns Key

<span style="color: red;">—</span>	<b>horizontal</b>
<span style="color: blue;">—</span>	<b>vertical</b>
<span style="color: red;">.....</span>	<b>10 dB/div</b>
	<b>30° sectors</b>



### Physical

Input connectors	<b>2xNL8FC speakon</b>
Cabinet	<b>birch plywood</b>
Finish	<b>HDSC™</b>
Suspension system	<b>ESAH proprietary rigging</b>
Dimensions (WxHxD)	<b>1044x392x550 mm</b>
Net weight	<b>61 kg</b>

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