

XTD12

XTD12/A

Deflector Line



2-way loudspeaker systems

GENERAL INFORMATION

Extremely compact full range two-way loudspeaker systems, equipped with a very extended frequency response and excellent power handling (capable of generating pressures above 130 dB). They are particularly suitable for diffused and high-quality sound reinforcements, specially for fixed installations, HO.RE.CA., cinemas, multi-purpose halls, dance clubs and portable PA systems.

COMPONENTS

XTD12 includes a 12" high power cone-shaped woofer with neodymium magnet and treated with waterproofing resins. The tweeter is composed of a constant directivity horn with 90°x50° dispersion, coupled with a 1.4" compression driver with titanium membrane. The crossover filter has been manufactured by using highly professional components such as air coils, high insulation capacitors and high-dissipation armoured resistors.

CABINET

The cluster installation permits two different horizontal angles - 15° and 30° - thanks to the double slope of the side surface of the cabinet. An innovative bass-reflex configuration has been designed by X-Treme engineers due to the use of a *curved deflector* stably fixed to the cabinet, in the immediate vicinity of the woofer, which ensures more linearity in the air flow generated inside the cabinet and the duct. This is also possible thanks to the back body pillar (5 cm in thickness) together with the floor inclination (5 degrees) where the loudspeaker is set up; the wing profile of this device originates from specific research in the field of fluid dynamics with the goal of minimizing the internal turbulence in the speaker.

VERSIONS

The XTD12/A bi-amplified version is available with an inside DSP (*Digital Signal Processor*) of 24 bit/96 kHz and dynamic range of up to 110 dBA. The 800+800 W amplifier comes with in-built switching technology. The DSP has 4 equalization presets, which can be selected via two switches positioned on the back board.

TECHNICAL FEATURES

System configuration (XTD12)	2-way loudspeaker system
System configuration (XTD12/A)	2-way active speaker
Power handling RMS	850 W
Power handling Music	1700 W
Power handling Peak	3400 W
Frequency response (-3 dB)	55±19k Hz
Nominal impedance (XTD12)	8 Ohm
Dispersion angle (-6dB)	90° horiz., 50° vert.
Axial sensitivity (1W@1m)	98 dB
Continuous SPL (@1m)	127 dB
Peak SPL (@1m)	133 dB
Crossover frequency (XTD12)	1.8k Hz

Amplifier data (XTD12/A)

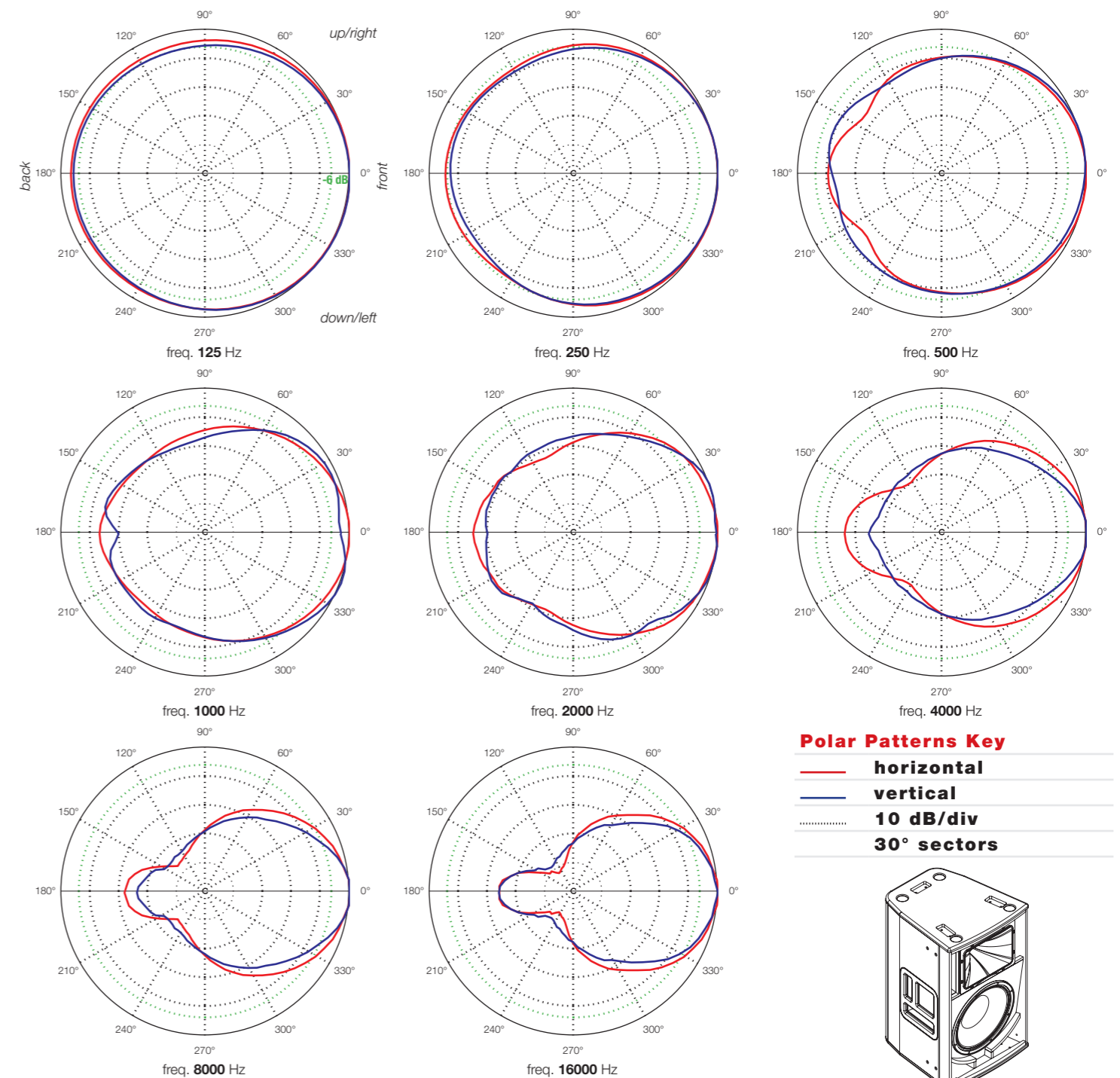
Input	max +10 dBu - XLR, loop output
Front panel indicators	LED: power, signal/limit
Input impedance	5.5 kOhm unbal., 11 kOhm bal.
DSP Processing	24 bit/96kHz (4 select. preset)
Output power rating (LF)	800 WRMS @80hm - class D
Output power rating (HF)	800 WRMS @80hm - class D
Power supply	switching technology
THD	<0.05% @1 kHz -3 dB output
AC power connector	Neutrik PowerCon
AC voltage	115/230 V ~ 45/65 Hz ± 10%

Transducers

LF sub system	1x12" neodymium
Nominal impedance	8 Ohm
Nominal power handling	700 W
Sensitivity (1W@1m)	97 dB
HF sub system	1x1.4"
Diaphragm	DOME, titanium
Voice coil	3", aluminium
Throat diameter	1.4"
Nominal impedance	8 Ohm
Nominal power handling	110 W
Sensitivity (1W@1m)	107 dB
HORN	AWSH™
Waveguide material	aluminium
Manufacturing process	die casting

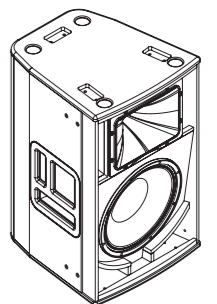
All measurements have been taken in the Sound Corporation research laboratories.

XTD12 POLAR PATTERNS (normalized, ref. on axis, passive X-over)

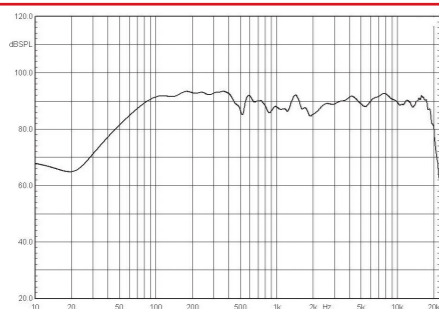


Polar Patterns Key

- horizontal
- vertical
- 10 dB/div
- 30° sectors

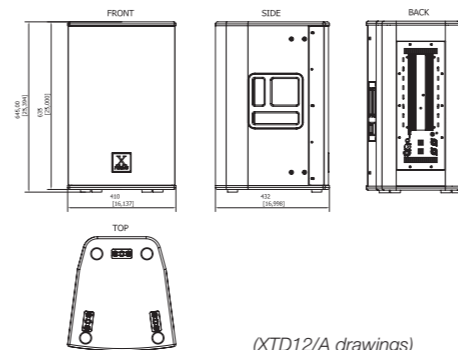
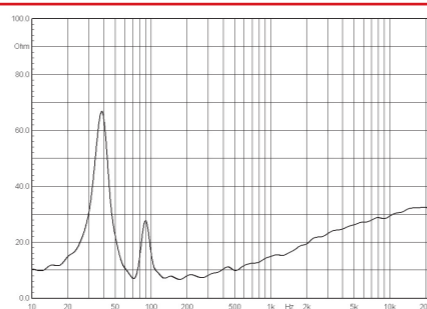


Frequency response



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

Impedance response (XTD12)



Physical Description

Input connectors (XTD12)	2xNL4FC speakon
Cabinet:	
material	birch plywood
additional device	curved deflector with convex-concave shape
Finish	HDSC™
Suspension system	XT-KITDEF (3 flying tracks)
Dimensions (WxHxD)	410x635x432 mm
Net weight (XTD12)	31.5 kg
Net weight (XTD12/A)	33 kg

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