

# XTD1015 XTD1015/A



## 3-way loudspeaker systems

### GENERAL INFORMATION

Bi-amplifiable speakers, whose horn for the mid-high section presents a harmonized and consistent transmission within an angle range of 90° horizontal and 50° vertical. The compact structure makes it easier to use, from the simplest to the most complex clusters, both vertical and horizontal. The speakers contain the ideal technology to achieve the best sound results in "live" concerts or any venue where the best reproduction of voice, songs and solo instruments is required.

### COMPONENTS

The XTD1015 model contains a 15" woofer and a newly designed 10" mid-range (both in neodymium); the tweeter consists of a constant directivity horn (90°x50°), together with a 1.4" compression driver with a titanium membrane. Thanks to a special clamp holding the AWSH™ in the cavity opposite the speaker, it is possible to rotate the mid-high section (horn+driver+panel) by 90°, thereby assuring constant coverage.

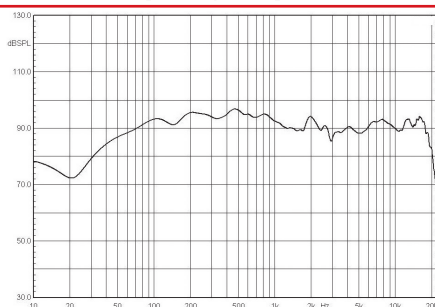
### CABINET

The speaker cabinet, made of 0.6" (15 mm) birch wood, is able to withstand any type of mechanical stress without vibrating. The cluster installation allows two different horizontal angles (15° and 30°) owing to the special design of the double inclination lateral face.

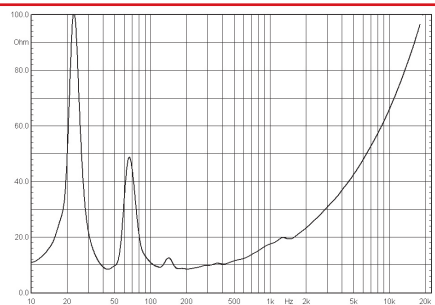
### VERSIONS

The XTD1015/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 has in-built switching technology. The DSP has 4 equalization presets, which can be selected via two switches on the back panel.

### Frequency response



### LF Impedance response (XTD1015)



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

### TECHNICAL FEATURES

System configuration (XTD1015) **3-way loudspeaker system**

System configuration (XTD1015/A) **3-way active speaker**

Power handling RMS **1400 W**

Power handling Music **2800 W**

Power handling Peak **5600 W**

Frequency response (-3 dB) **35÷17k Hz**

Nominal impedance (XTD1015) **8 (LF), 8 (MF+HF) Ohm**

Dispersion angle (-6dB) **90° horiz., 50° vert.**

Axial sensitivity (1W@1m) **101 dB**

Continuous SPL (@1m) **132 dB**

Peak SPL (@1m) **138 dB**

Crossover frequency (XTD1015) **250 Hz (LF-MF+HF)**

### Amplifier data (XTD1015/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 (MF+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 **1x15" neodymium**

Nominal impedance **8 Ohm**

Nominal power handling **1000 W**

Sensitivity (1W@1m) **97 dB**

MF sub system **1x10" neodymium**

Nominal impedance **8 Ohm**

Nominal power handling **250 W**

Sensitivity (1W@1m) **99 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**

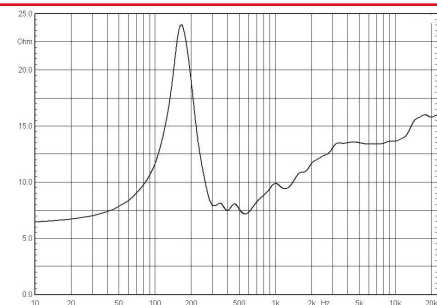
HORN **AWSH™**

Material **aluminium**

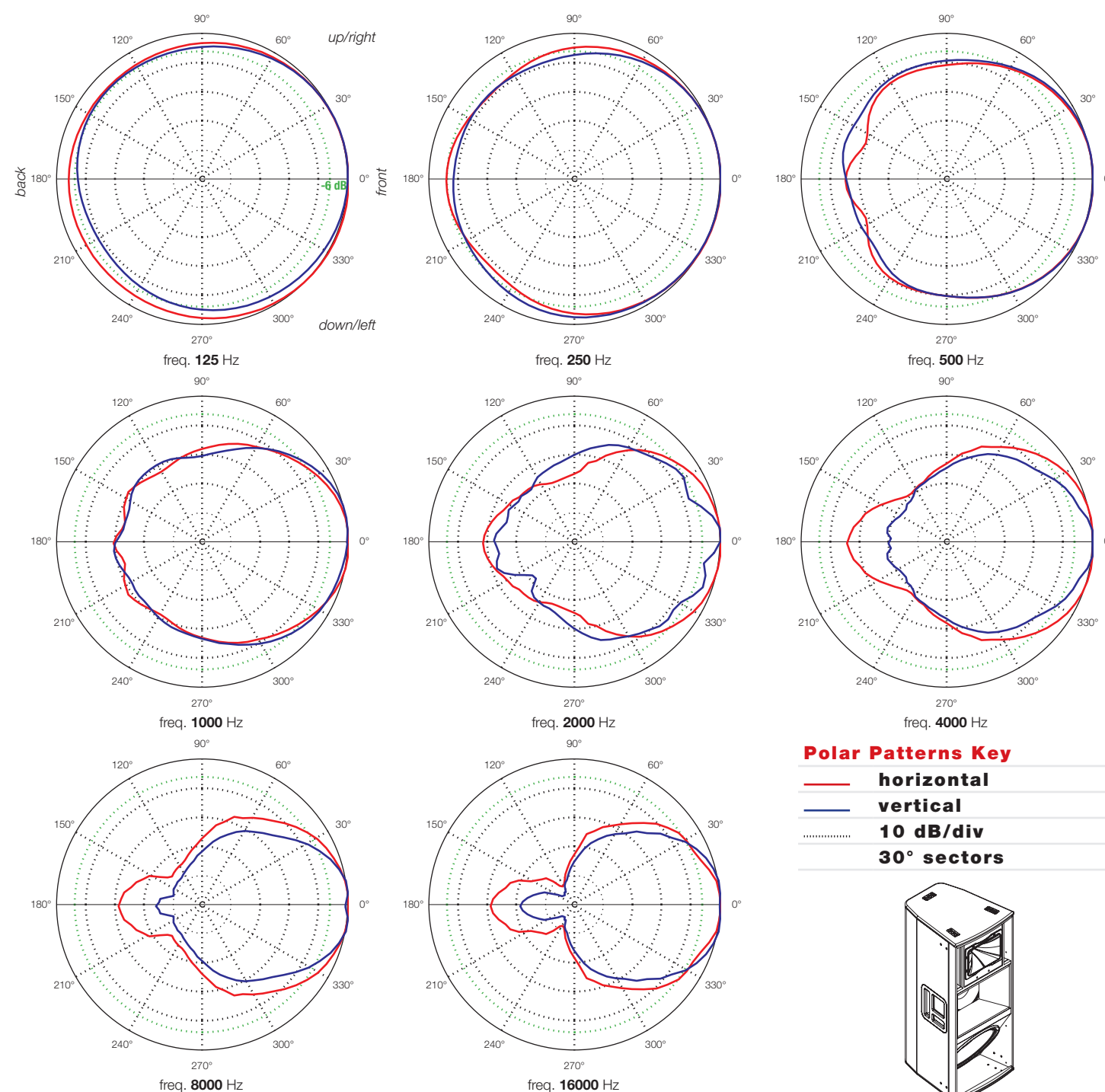
Manufacturing process **die casting**

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

### MF+HF Impedance response (XTD1015)



### XTD1015 POLAR PATTERNS (normalized, ref. on axis, passive X-over)



### Polar Patterns Key

— horizontal

— vertical

..... 10 dB/div

30° sectors

### Physical Description

Input connectors (XTD1015) **2xNL4FC speakon**

Cabinet:

material **birch plywood**

additional device **curved deflector with convex-concave shape**

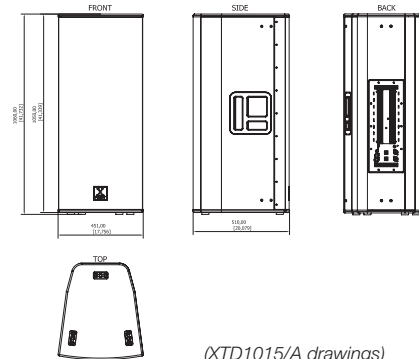
Finish **HDSC™**

Suspension system **XT-KITDEF (3 flying tracks)**

Dimensions (WxHxD) **451x1050x510 mm**

Net weight (XTD1015) **49 kg**

Net weight (XTD1015/A) **50.5 kg**



(XTD1015/A drawings)

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