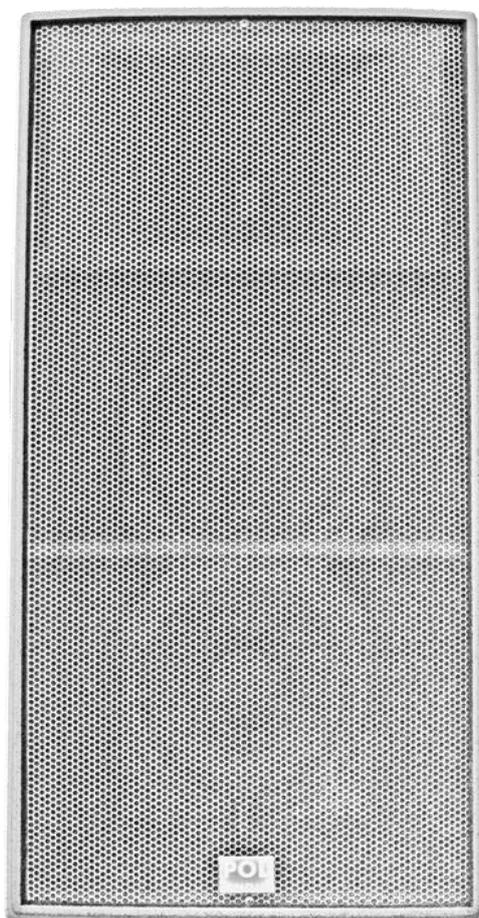




# SAT 212 CX ND

MANUAL



**Manufacturer:** POL-AUDIO Leszek Polanowski

**Manufacturer Address:** Skłodowskiej 33, 05-420 Józefów, Polska

**Model:** SAT 212 CX ND

**Document version:** 1.0-SAT212

**Issue Date:** 2017.08

### Legend



**WARNING**



**INFO**



**DANGER**



**TIPS**



*Keep this document and act according to keep the warranty and operate the system in a proper way.*



*Please check the package in presence of a forwarder and make sure it is not damaged during the transport. Notify the forwarder company and sender about any problems with the package.*



#### **SERVICE**

To contact manufacturer service please use phone or email:

+48 22 789 30 02  
serwis@polaudio.pl

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*We appreciate your purchase of POL-AUDIO product. Welcome to the users family! If you will have any ideas that you would like to share – please let us know! We are always interested in how the system perform and what is your experience.*

**+ 48 22 789 30 02**  
[polaudio@polaudio.pl](mailto:polaudio@polaudio.pl)

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**All POL-AUDIO loudspeaker systems are being manufactured in Poland.**

## GENERAL USAGE AND SAFETY



### PRODUCT DAMAGE

***In case of a product damage, contact authorized service immediately. Do not use damaged product and do not try to repair it. You should not modify the product. Violating those conditions can exclude product from warranty.***



### OPERATING CONDITIONS

***Do not operate the system next to source of water or other fluids. Product should be placed on stable and dry ground. Please avoid operating the system next to a heat source. Protect the system from strong wind to avoid possible collapse.***

***System can't be placed near fire source. During storm, system should be unplugged. Atmospheric discharge can lead to product damage. Cables should be placed in a way that protects it from being cut or damaged in any other way.***



### WARRANTY

POL-AUDIO products are secured with 36 months of warranty from the date of sale. It protects defects found in the materials or workmanship. The owner should inform about these defects the dealer or the distributor, providing receipt or invoice of date of purchase and defect detailed description. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. POL-AUDIO will verify damage on returned units, and when the unit has been properly used and warranty is still valid, then the unit will be replaced or repaired. POL-AUDIO is not responsible for any "direct damage" or "indirect damage" caused by product defectiveness.



### WARRANTY CANCELLATION

Operating system with a preset different than the one provided by the manufacturer can lead to system damage and warranty cancellation. Presets provided with the system can only be modified within necessary scope on the input channels. Manufacturer is not responsible for damages caused by misuse of preset.

Technical data of the product can be changed by a manufacturer without previous notification.

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## PRODUCT DESCRIPTION

SAT 212 CX is a response to the rental sound industry demand for very high output and high control over output performance. Double 12" midrange transducers in short horn combined with 2" coaxial high frequency unit in large horn provides high SPL level for mid and high frequency range. It is a perfect tool for sound reinforcement at small to medium events both indoor and outdoor. It cooperates very well with TV 118 and TP 118 POL-AUDIO subwoofers.

System is equipped with three-point flying system for rental and installation applications. SAT 212 CX operates in passive mode powered by a single channel. Designed crossover creates flat amplitude and phase response. Large high quality horn provide broad and stable coverage.

High quality transducers with neodymium magnet allows to reduce overall weight of the construction with no compromise on sound quality. This way the loudspeakers are very easy to move and transport, for improved user's comfort.

Premium grade plywood enclosure, provides durable housing for loudspeaker system allowing extensive use on the tour at any conditions. Additionally, quality plywood provides higher resonance dumping for enclosure, making the sound even more selective.

## Operation



Before you connect the product to other elements of the system, make sure all of the parameters match and guaranty a safe operation.



After exposure to very low temperatures system should be left until the temperature is similar to the operating conditions during the event. If the system is exposed to the temperature shock it can be damaged.

**Before you turn the system on, make sure the signal is within operating range.**



### How to minimize risk of system damage

Make sure the signal is not distorted and is within operating levels of the system. Avoid placing a microphone in front of the system to minimize the risk of a feedback. Before you turn on the system make sure the amplifier and loudspeaker system are properly matched with all of the technical data.

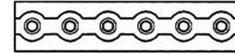
## General safety rules

- Always use elements provided by the manufacturer and no other objects.
- Always verify if the hoist and construction is prepared for the load you are about to fly.
- Protect speaker stand from people access.
- **Do not stand under the system. If the system collapses it can cause permanent health damage or even death.**

## SUSPENSION SYSTEM

During system installation, always make sure the roping eye is placed in a correct way and the lock is engaged.

For flying the system use only elements provided by the manufacturer. When flying the system, always use all 3 suspension points (two on the sides, one on the back).



## SYSTEM REAR PLATE

System POL-AUDIO SAT 212 CX ND is equipped with back plates with basic parameters:



## PRODUCT DATA

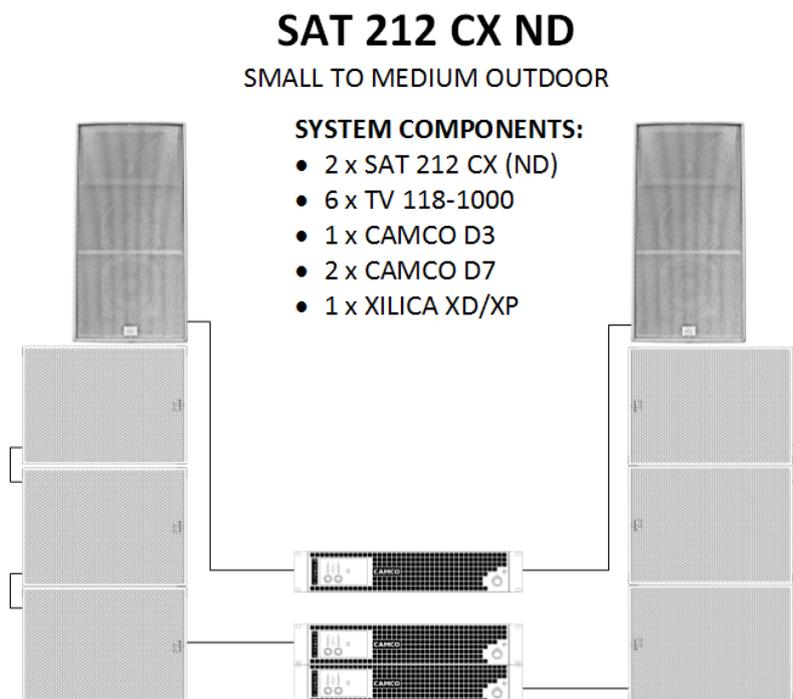
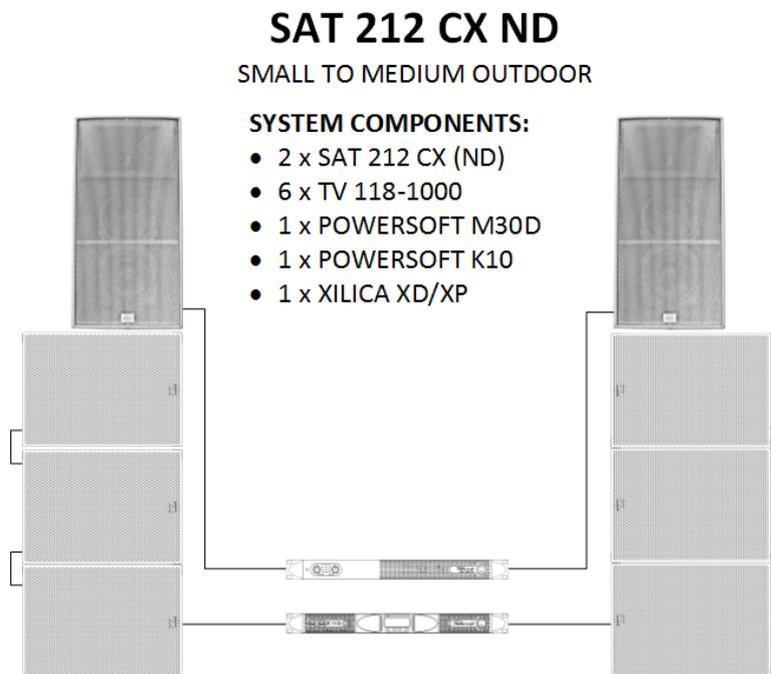
<b>Model</b>	SAT 212 CX ND
<b>Type</b>	Satellite, high output point source.
<b>Application</b>	Outdoor and indoor events. Conferences and concerts.
<b>Frequency Range</b>	90Hz-22kHz
<b>Components</b>	2 x 12" (3") ND + 1 x 2" CX ND
<b>AES Power</b>	1000 W
<b>SPL</b>	109 dB
<b>Dimensions</b>	
<b>Height</b>	1050 mm
<b>Width</b>	540 mm
<b>Depth</b>	560 mm
<b>Weight</b>	44 kg
<b>Connectors</b>	2 x Neutrik NL4MP

## OPTIONAL ACCESSORIES

<b>Speaker Stand</b>	Speaker stand for placing SAT 212 using socket pole
<b>Flying kit</b>	Optional kit for suspending the system

## SYSTEM CONFIGURATION

### Sample configuration



### RECOMMENDED AMPLIFIER PARAMETERS

**SUGGESTED AMP. POWER** 1000 W to 1500 W

**RECOMMENDED MODELS** CAMCO seria D, POWERSOFT SERIES M

### RECOMMENDED DSP

**MODELS** Xilica XP/XD

## SPEAKERS WIRING

System impedance **HF 12 Ohm / LF 4 Ohm:**



, +1 and +2 are pin connectors placed in the enclosure so make sure to use proper wired cables to power up the system.

## TRANSPORT

For system transport dedicated cover should be used. System should be always placed in stable position. System fall from height may cause damage.

## CONSERVATION

System should undertake review:

- First, 6 months after the buy
- Every 2 years after that.

To clean up the system, cloth with water should be used. Do not use any other chemical substances to clean the system. It may damage the enclosure or speakers.

## HEARING PROTECTION

We suggest using hearing protection when long exposure to high sound pressure is necessary. If not, temporarily or permanently hearing damage can occur.

**Remember: Hearing is one of our primary working tools. Take care of it.**



### SPARE PARTS

Manufacturer uses only original spare parts for performing repairs. **If system will be repaired in external service facility with different spare parts, the warranty is no longer valid.**

## CE Declaration of conformity

### NAME AND ADRES OF MANUFACTURER:

POL-AUDIO Leszek Polanowski  
ul. M.C. Skłodowskiej 33  
05-420 Józefów  
Poland

### SYSTEMS LIST:

Passive loudspeaker systems: POL-AUDIO SAT 212 CX ND, SAT 212 CX

### DIRECTIVES AND NORMS:

- EMC 89/336/EEC 03.05.1989 with annotations 91/31/EEC and 93/68 EEC
- 73/23/EC 19.02.1973 with annotations 93/68/EEC
- PN-EN50081-1: 1996
- PN-EN50082-1: 1999

Declarations was issued by POL-AUDIO Leszek Polanowski company.

Issue date: .....

Sign: .....