

# PROPHON

SOUND SYSTEMS

## NEW PRODUCTS



MADE IN SWEDEN  
SINCE 1985



## PLA21021 High Power passive line array module

### Compact line array module for installation and tour

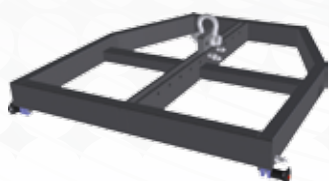
The PLA21021 houses two 10" Neodymium woofers and two 1" neodymium drivers mounted on waveguides. The passive 8 ohm design allows for connecting four modules on a single amplifier channel with 2 ohm load. Designed for full scale line array applications such as festivals, live performances, FOH, and for "clubs", rigging 2-4 pcs. groundstacked on subwoofers, perfect for large bands, events and portable sound system.

### FEATURES

- Compact size (W600 x H310 x D400)
- High sensitivity (102 dB)
- Max SPL 135dB single speaker (147dB, 8 speakers in stereo array)
- 2 x 10" Neodymium woofers mounted on soundguides
- 2 x 1" Neodymium drivers mounted on waveguides
- Controlled dispersion pattern of H110 x V15
- Hardware and array splay flightware integrated in the speaker
- Painted with a 2-component lacque
- Fullrange passive construction, with advanced dedicated passive crossover network inside.
- 8 Ohm input impedance
- Easy to use, easy and fast to rig.
- Two handles
- Closed cabinet design for optimum cone control
- Light weight (only 20 kg.)

### APPLICATIONS

- Installation
- Portable use
- The rental industry
- The event industry
- Stage monitor amps.
- Small PA systems
- Bands
- Full scale line array
- Groundstacked club-rigg



BUMPER FRAME



TRANSPORTATION CASES



ARRAY CONFIGURATION



## B318HPC Cardioid subwoofer

### High Power 3 x 18" subwoofer for live performances and recorded music

The **PROPHON B318HPC**, cardioid high power subwoofer was designed for live performance stages, festivals, and for the tour and rental industry, but also for recorded music such as club events, fixed installations in nightclubs etc. The very special cardioid design allows for extreme control in the LF-frequencies, compared to regular 18" subwoofer where the dispersion pattern is almost completely omnidirectional.

The sound engineer can design, aim and steer the sound to where it is wanted, and also omit it where it is unwanted.

When placed besides stages in live performances the cardioid dispersion pattern really play out its role, lowering the SPL on stage from the subwoofers compared to "standard" subwoofers with up to 20 dB from each side, also very often a live stage have a width that allows for standard subwoofers to peak at a certain frequency because of wavelength compared to distance between subwoofers.

The B318HPC have several more advantages compared to regular front-loaded subwoofers, one being that it has a linear behavior, meaning they only loose -3 dB for each doubling of distance, compared to -6 dB when using front-loaded subwoofers (this will increase the SPL with about 12 dB on 16m. when comparing front-loaded subwoofers and the B318HPC, if both have a 100dB SPL at 1m.)

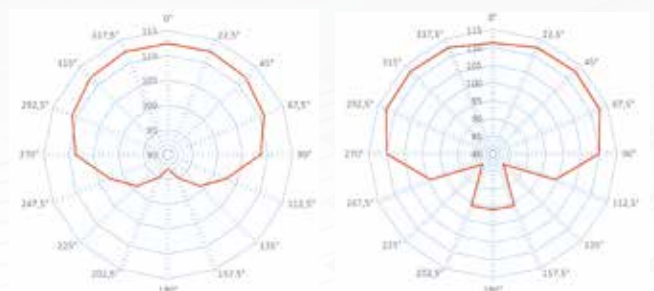
Another feature is that the backward facing woofer actually raises the sensitivity forwards with 2 dB 1W/1m.

### FEATURES

- 3 x 18" woofers with Neodymium magnets and 4,5" voice coil
- Cardioid dispersion pattern
- High sensitivity (103 dB @ 1W/1m.)
- Extremely high max SPL (149 dB, calc. peak)
- Compact size compared to SPL and function
- Relatively light weight using Neodymium magnets
- Low distortion levels
- Easy to use, with presets for downloading from our website
- Perfect for both live music and recorded music
- B318HPC is the perfect match to any Line array system
- High Power handling (10,200W cont.)
- Versatile usage, either stacked or stand alone
- Pre-programmed presets for download
- Uses 2 amplifier channels with individual DSP settings

### APPLICATIONS

- Live performances
- Festivals
- Installation in large nightclubs
- Outdoor events
- Indoor events
- Live stages



Actual measured cardioid behavior 50Hz, and 63Hz





## **MX8** compact, passive high-power coaxial stage monitor

### **Designed for small to medium sized stages.**

The MX8 has an optimum listening angle, with a very shallow floor angle of only 15 degrees, which allows for a close proximity to the speaker, without losing the intelligibility.

A flat and uncolored frequency response with a 100 degree conical dispersion pattern.

The extremely low profile makes the MX8 a favorite in the TV industry, conferences and theatres.

### **FEATURES**

- 8" / 1" Neodymium light weight components.
- 250W RMS / 500W cont. / 1000W peak.
- 2-way passive fullrange.
- Coaxial design with 100° conical dispersion pattern.
- High sensitivity.
- Extremely low profile (only 15 cm.)
- Fullrange frequency response (50Hz - 19kHz)
- 15 degrees dispersion angle from floor.
- Neutrik Speakon hidden in the handles in the sides.
- Lightweight (only 7,5 kg.)

### **APPLICATIONS**

- Vocals
- Acoustical instruments
- Speech
- Winds instruments
- Television performances
- Theatres
- Conference centers
- Architecturally challenging productions
- The rental industry
- The event industry



Neutrik SpeakOn NL4MP hidden within each handle.



## **MX8** compact, active high-power coaxial stage monitor

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### **FEATURES**

- 8"/1" Neodymium light weight components.
- 250W RMS / 500W cont. / 1000W peak.
- 2-way active fullrange.
- 2 x 400W RMS. class-D amplifier from powersoft
- On-board DSP with 4 presets for different setup and applications
- XLR in/out/through, Powercon in/out,
- Speakon out for powering an additional passive (bi-amped) MX8
- Coaxial design with 100° conical dispersion pattern.
- High sensitivity.
- Extremely low profile (only 15 cm.)
- Fullrange frequency response (50Hz - 19kHz)
- 15 degrees dispersion angle from floor.
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The Amplifier module in the back of the active subwoofer houses a total of 2000W DSP-controlled Class-D amplifiers (1000W + 2x500W)

- 16 Presets for a variety of applications
- Balanced XLR stereo in
- Unbalanced stereo RCA in
- Neutrik Speakon left right out
- Mick in
- XLR balance link out
- Separate gain for mick / line
- Speakon out to external subwoofer

## A11 2000W self-powered column array sound system

### Active system for live performances and recorded music

The column array speakers uses 3,5" drivers for best linear array behavior, the subwoofers houses 12" woofers for deep but yet controlled LF frequencies .The system is scalable and can be used in four different ways, made possible by the powerful and versatile built in 2000W class-D amplifier-module in the active subwoofer, housing three amplifiers with a total power of 2000W, (1000W for sub + 2x500W for the column arrays). with 30 DSP-preset for a variety of setups and applications.

**SYSTEM 1)** One subwoofer and stereo column speakers.

**SYSTEM 2)** Two subwoofers (one self powered and one slave) and stereo column speakers

**SYSTEM 3)** One subwoofer and two stereo column arrays

**SYSTEM 4)** Two subwoofers (one self powered and one slave) and two stereo column arrays

### FEATURES

- Column array technology
- 12" Woofers with 3" voice coils and 1100 W cont. power handling each
- The main active subwoofer houses all three amplifiers and all DSP power.
- Total amplification 2000W (1000W for subwoofers + 2 x 500W for column array)
- Class-D amplifiers
- Each column array module houses 8 x 3,5" neodymium drivers.
- Switched mode power supply with PFC and universal mains input 85V-265V
- Extensive protection circuits: Over-Current, Over/Under Voltage, Output DC and Over-Temperature, Short Circuit Protection
- Stereo input, left/right speakon out 8/4 ohm load, mono-sum subwoofer speakon out to external passive slave subwoofer
- 8 Ohm speakers allows for max two subwoofers and four column speakers (setup 4)

### APPLICATIONS

- Installation
- Portable sound system
- Live performances
- Recorded music
- The rental industry
- The event industry



SYSTEM 1

SYSTEM 2

SYSTEM 3

SYSTEM 4



The Amplifier module in the back of the active 18" subwoofer houses a total of 3600W DSP-controlled Class-D amplifiers, (2000W + 2 x 800W) with wide power 85V - 256V input

- GAIN pot. -8dBu ~ 0dBu
- 4 x Preset system select
- Red LED (Power);
- Red LED (Limit);
- Green LED (Signal presence)
- 2 x XLR female connector (Input)
- 2 x Neutrik® Speakon (Speaker)
- PowerCON® 20A: AC Mains (blue)
- 3 x Gain Controller (sub, left, right)
- 2 x RS485 (RJ-45) Connection
- On/Off Power Switch
- Speakon out to external passive sub.



## A12 3600W self-powered column array sound system

### Active system for live performances and recorded music

When it comes to active column array sound systems, the A12 is one of the most potent in the industry. The system is scalable and can be used in four different ways, made possible by the powerful and versatile built in 3600W class-D amplifier-module in the active subwoofer. The amplifier module houses three amplifiers with a total power of 2000W + 2x800W. with four DSP-presets, for four different system setups:

- SYSTEM 1)** One subwoofer and stereo column speakers.
- SYSTEM 2)** One subwoofer and two stereo column arrays.
- SYSTEM 3)** Two subwoofers (one self powered and one slave) and stereo column speakers
- SYSTEM 4)** Two subwoofers and two stereo column arrays

### FEATURES

- Column array technology
- 18" Neodymium woofers with 4" voice coils and 2000W cont. power handling
- The main active subwoofer houses all three amplifiers and all DSP power.
- Total amplification 2000W for subwoofers + 2 x 800W for column array
- Each column array module houses 4 x 6,5" woofers and a 1" driver on horn
- Neodymium drivers and woofers in the array module, for light weight.
- Separate volume controls for left, right and monosub
- Switched mode power supply with PFC and universal mains input 85V-265V
- Extensive protection circuits: Over-Current, Over/Under Voltage, Output DC and Over-Temperature, Short Circuit Protection
- FIR-filter technology for optimal phase coherency.
- Stereo input, left/right speakon out 8/4 ohm load, mono-sum subwoofer speakon out to external passive slave subwoofer
- 8 Ohm speakers allows for max two subwoofers and four column speakers (setup 4)

### APPLICATIONS

- Installation
- Portable sound system
- Live performances
- Recorded music
- The rental industry
- The event industry



SYSTEM 1



SYSTEM 2



SYSTEM 3



SYSTEM 4



## **MX6** compact, passive high-power coaxial stage monitor

### **Designed for small to medium sized stages.**

The MX6 has an optimum listening angle, with a very shallow floor angle of only 15 degrees, which allows for a close proximity to the speaker, without losing the intelligibility.

A flat and uncolored frequency response with a 80 degree conical dispersion pattern.

The extremely low profile makes the MX6 a favorite in the TV industry, conferences and theatres.

### **FEATURES**

- 6"/1" Neodymium light weight components.
- 200W RMS / 400W cont. / 800W peak.
- 2-way passive fullrange.
- 16 ohm impedance
- Coaxial design with 80° conical dispersion pattern.
- High sensitivity.
- Extremely low profile
- Fullrange frequency response (70Hz - 19kHz)
- 15 degrees dispersion angle from floor.
- Neutrik Speakon hidden in the handles in the sides.
- Lightweight

### **APPLICATIONS**

- Vocals
- Acoustical instruments
- Speech
- Winds instruments
- Television performances
- Theatres
- Conference centers
- Architecturally challenging productions
- The rental industry
- The event industry



Neutrik SpeakOn NL4MP  
hidden within each handle.





## **AX** Groundstacked PA system

**The AX system consists of two B318HPC; high power cardioid subwoofers, and six PLA21021 line array modules, groundstacked in a powerful PA system, with Powersoft X4 DSP-amplifiers integrated.**

Developed for live performance, and club events, with a total amplified power of 41,600W, the system can be expanded and scaled up into a full sized line array concert system, with 4 cardioid subwoofers and 16 line array modules.

The **B318HPC** cardioid subwoofers houses 3 pcs. of 18" woofers with a total of 10,200W cont. power handling, with double spider, neodymium magnet assembly and split voice-coil technology.

The **PLA21021** line array module encompasses two 10" woofers and two 1" drivers, mounted on waveguides, with a controlled dispersion pattern of 110x15 degrees. The **Powersoft X4** amplifier is housed in the middle cabinet, stacked on top of the subwoofer, with XLR analogue and digital AES input, Ethernet input, Powercon True input and 2 x Speakon output.

The AX system is perfect for events and live performances indoor or outdoor, where the possibility to hang a line array is limited, but the features and power of such a system is needed.

### **FEATURES**

- B318HPC, cardioid subwoofer 3 x 18" woofers with Neodymium magnets and 4,5" voice coil
- 10,200W cont. power handling in each subwoofer
- Advances FIR filters for a linear time-coherent sound.
- Each subwoofer uses two amplifier channels with advanced mathematical DSP algorithms for true cardioid dispersion pattern
- PLA21021, Line array module with 2x10"/2x1" drivers mounted on line source waveguide
- Powersoft X4 DSP-amplifiers with FIR-filters and 4 x 5200W power in each stack
- Groundstacked for portable use and easy rigging
- Total amplifier power 41,600W
- Cases available for PLA21021 line array modules
- Castor-plates / protection-plates and soft cover available for the subwoofers
- The AX system can be expanded to support 4 x B318HPC and 16 x PLA21021

### **APPLICATIONS**

- Live performances
- Festivals
- Installation in large nightclubs
- Outdoor events
- Indoor events
- Live stages



## **CXL122MPA (mkII) - Compact, active coaxial multi purpose fullrange speaker**

### **Versatile speaker for fullrange application, stage monitor, installation or as top in an active PA system**

The CXL122MPA (mkII) is the new version of our old speaker with the same name, now updated with a more appealing appearance. Housing a 12"/2" neodymium light-weight coax, with a 80 degree conical dispersion patter, and a 700W RMS. powersoft class-D amplifier with DSP and 4 presets for different setups and applications.

CXL122MPA can be used as a compact powerful stage monitor, as a stand alone fullrange speaker, delay system or frontfill in larger live performances, or as a top in a portable active sound system with active subwoofers.

In short; the CXL122MP is the perfect partner for any rental- or event- company, band or DJ.

Cases and soft covers available

The CXL122MPA is also available in passive fullrange version with built-in dedicated passive crossover network.

#### **FEATURES**

- 12"/2" Neodymium light weight components.
- 400W RMS / 800W cont. power handling
- 2-way passive fullrange.
- high sensitivity
- Coaxial design with 80° conical dispersion pattern.
- Low profile
- Fullrange frequency response (50Hz - 19kHz)
- Lightweight

#### **APPLICATIONS**

- Vocals
- Acoustical instruments
- Live performance
- Speech
- Winds instruments
- Television performances
- Theatres
- Conference centers
- The rental industry
- The event industry