

# PROPHON

SOUND SYSTEMS

## A12 - COLUMN ARRAY SYSTEM



MADE IN SWEDEN  
SINCE 1985



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

### Active system for live performances, installation 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 + 2 x 800W. with four DSP-presets, for four different system setups:

- A12-1)** One active subwoofer and stereo column speakers.
- A12-2)** Two subwoofers (one self powered and one slave) and stereo column speakers
- A12-3)** One active subwoofer and two stereo column arrays.
- A12-4)** Two subwoofers (one self powered and one slave) 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
- Neutrik Speakon out 8/4 ohm load,
- 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



**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 (Stereo Input)
- 2 x Neutrik® Speakon (Speaker output)
- PowerCON® 20A: AC Mains input (blue)
- 3 x Gain Controller (sub, left, right)
- 2 x RS485 (RJ-45) Connection
- On/Off Power Switch
- Right Speakon out to external passive sub on 2+/- .



When using the A12-system passive, bi-amplified with external conventional 19" amplifiers, either as portable sound system or when installing in a fixed installation, the class-H, switched mode, light weight amplifier P3000DSP takes care of everything for you! Numerous presets are available in the built in DSP-processors, depending on setup, configuration and combination (CLA4611 can be installed up to 4 pcs. in a line arrayed column driven by one amplifier channel, for extreme control, and linear coupling down to below 100 Hz)

P3000DSP is a 2 channel amplifier with 2 x 1500W in 2 ohms, with 6 individual high-power DSP processors (two on each input, two on each speakon output, and two processors assigned to Neutrik XLR output for DSP-controlling the subwoofer amplifier P10000 (2 x 5000W into 2 ohm) or a P3000 amplifier (same as P3000DSP but without DSP-processors)



**A12-1**



**A12-2**



**A12-3**



**A12-4**





Available in white or any RAL colour upon request

#### TECHNICAL SPECIFICATIONS CLA4611

Components	4 x 6,5" seamless linear arrayed. + 1 x 1" driver mounted coaxially on horn
Construction	Closed cabinet, two-way with passive crossover, linear arrayed column
Power handling RMS	650W
Power handling cont.	1300W
Input impedance	8 ohm
Max SPL continuous (2Pi)	132dB (max eff. @ 1m.)
Max SPL calculated peak (2Pi) (4 x cont. eff. @ 1m.)	138dB 144 dB (in an array with 4 modules)
Sensitivity open space (1Pi)	98 dB (1W/1m.)
Sensitivity, half space (2Pi)	101 dB (1W/1m.)
Dispersion pattern horizontal	Array dependant, typically 120° (-6dB) in an array with at least 2 modules.
Dispersion pattern vertical	Array dependant, typically 20° (-6dB) in an array with at least 2 modules.
Weight	10,25 kg.
Dimensions	H680 x W170 x D170
Connectors	2 x Speakon NL4MP 1+/-
Utilities	Installation wall- & ceiling- mount brackets Flightware for flying and installing Connector bracket for connecting in array Speaker stand top hat for mounting on stand
Recommended EQ settings for passive version using non-prop-hon presets in DSP's and DSP-amplifiers from other brands. (Constant Q, Parametric EQ)	1) PEQ @ 646Hz, Gain -1,25 dB, 4 oct. 2) PEQ @ 655Hz, Gain +4,75 dB, 0,75 oct 3) PEQ @ 1193Hz, Gain -3,14dB, 0,46 oct. 4) PEQ @ 2204Hz, Gain -5 dB, 0,4 oct. 5) PEQ @ 3153Hz, Gain +9 dB, 0,5 oct 6) PEQ @ 5890Hz, Gain -3,45 dB, 0,6 oct.

#### TECHNICAL SPECIFICATIONS CLA SUBWOOFER

Components	18" High Power Neodymium woofer, with 4" voice coil, double spider, reinforced cone.
Construction	Tuned bassreflex, extremely braced cabinet, Birch Plywood, painted with a special resilient paint
Power handling RMS	1200W
Power handling cont.	2400W
impedance woofer	8 ohm
Max SPL continuous (2Pi)	134dB (max eff. @ 1m.)
Max SPL calculated peak (2Pi)	137dB
Sensitivity open space (1Pi)	98 dB (1W/1m.)
Sensitivity, half space (2Pi)	101 dB (1W/1m.)
Weight	35 kg.
Dimensions	H720 x W500 x D650
Connectors	2 x Speakon NL4MP 1+/- to column array speakers, 2+/- right out for passive slave subwoofer 2 x XLR stereo input.
Extended information amplifier	2000W @ 4 ohm monosum for subwoofer, can drive one active and one passive slave. 2x800W stereo can drive up to four pcs. of CLA4611 column array speakers
Extended information DSP	Advanced DSP with FIR-filters, 4 presets for a variety of applications and setups, separate volume gain for left, right subwoofer,
Recommended crossover	HP-filter @ 35Hz, minimum 24dB/oct. LP-filter @ 95Hz, 24, 36 or 48dB/oct. L-R
Recommended EQ points	+2dB@50Hz, 0,5oct



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