PROPHON

SOUND SYSTEMS

TRUST YOUR EARS!

Stockholm, Sweden, Since 1985

PROPHON, PROPHON SOUND SYSTEMS AND THE PROPHON LOGO ARE REGISTERED TRADEMARKS OF PROPHON AUDIO & TEKNIK AB, STOCKHOLM, SWEDEN

PROPHON
SOUND SYSTEMS

Prophon Audio & Teknik AB
SE- 187 14, TÄBY
187 66 TÄBY
STOCKHOLM, SWEDEN

Delivery address / warehouse:
Prophon Audio & Teknik AB
P.O. BOX 7268
Linjalvägen 10C
STOCKHOLM, SWEDEN

Tel: +46 8 92 86 00
Fax: +46 8 623 07 98
Mail: info@prophon.com
Web: www.prophon.com

Find your local distributor at www.prophon.com

PROPHON SOUND SYSTEMS CATALOGUE 2013
All data, text and technical specifications in this catalogue are subject to change without prior notice
For latest news, updates and specifications visit our web site www.prophon.com.

PRESENTATION

For over 28 years, PROPHON have been developing, designing and manufacturing sound systems for the professional rental, installation, cinema and event market, based in Stockholm, Sweden.

Everyone in our team have a history in the musical industry in one way or another, whether playing in a band, being a DJ, singing in a choir, being a tour leader, truck driver or a ”humper / rigger”, sound engineer or studio engineer.
This has proven to be extremely valuable when designing and developing new models, because we can take into account all aspects, from the most important, and obvious feature: the sound, to what most of our competitor do not focus on, being handling, usage and looks.

We have our own woodwork-, metallwork- and assembly-line in Sweden, with state of the art computer controlled CMC machines, and sophisticated 3D CAD software for developing and simulating, and we use only the very best components available, whether it being woofers, drivers, horns, dsp´s or amplifiers.
Theese are but a few reasons why we have come to dominate our domestic market.

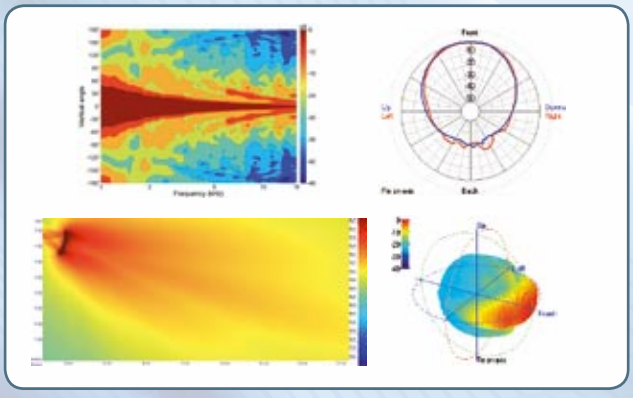
Our customers have come to trust and rely in our quality, support and competence, and we thank them for decades of faith in us, this catalogue could not have come to be if it where not for them,

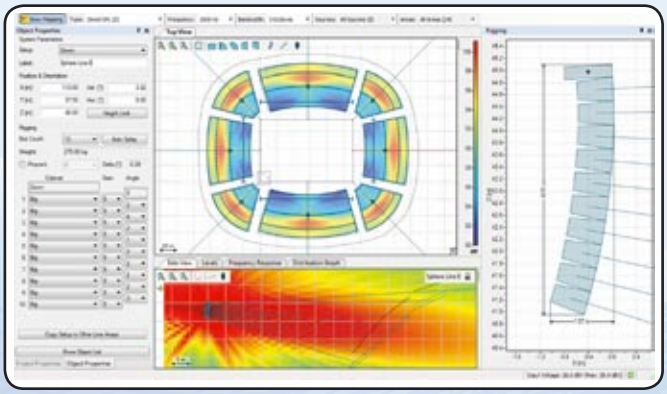
so... thank you!

New in the 2013 edition:

- P-series amplifiers, with several models, from 500W to 10 000W, some models with built-in DSP technology.
- K-series, self-powered and bi-amplified speakers, subwoofers, stage monitors and fullrange speakers.
- CLUBLAND SOUND SYSTEM, a complete range of speakers for high-end nighclubs and live stages.
- The VPS range of plastic installation speakers has been extended with active versions.
- CLAM, *(Column Line Array Module)* Line array for fixed installations
- XD-Series Cinema screen speakers
- PDU-series, a complete range of power distribution units, developed together with our users.
- ***All our Line array speakers and selected fullrange speakers are now available in the Ease focus 2 database***

To better be able to satisfy the ever growing demand in our products, We built a new fascility In 2010.
We are now able to keep a larger stock for faster shipments.
Our develope and design department now have a whole floor where all the magic happens, and we have an open spacious office area, with floor to ceiling panorama windows, for a light and relaxed working environment.





Our range of installation speakers have advanced acoustical data-files for downloading and importing into prediction and simulation soft wares, in this way a sound system can be defined and tested and simulated before the actual installation.
Our line array systems and selected installation and PA speakers are now available in the EASE *FOCUS* 2 database for use in rigging, predicting, planning and advanced acoustic simulations.

PRODUCT RANGES

INSTALLATION SPEAKERS
(Page 6)

CS-series
in-ceiling speakers

VPS-series
wall-mounted plastic installation speakers

F-series
Fullrange passive installation speakers

S-series
Installation subwoofers

CLA-series
Column speakers

CLUBLAND
Horn loaded long-throw sound systems for high-end clubs and live performance stages.

CINEMA SYSTEMS
(Page 72)

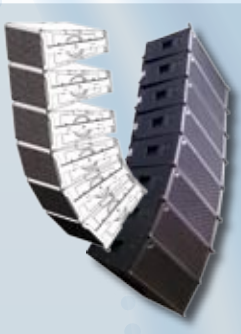
High quality subwoofers, surround speakers and screen array speakers. for small to large cinema theatres.

PDU
(Page 78)
A range of power distribution units for tour and installation applications. Developed for use with prophon amplifiers, processors and speakers.

CASES & HARDWARE
(Page 79)
We manufacture all our cases for the tour and portable speakers, amplifiers and PDU´s.
We have a wide product range of installation and rigging hardware for our speakers.

TOUR & PA SPEAKERS
(Page 22)

Line array
for small to medium and large sized applications.
Self-powered and bi-amplified models. for tour, installation and the rental industry.



Subwoofers
High-power subwoofers,
Self-powered and bi-amplified models,
front-loaded, horn-loaded

Fullrange speakers
Portable two-way and three-way fullrange speakers for live-applications and recorded music,
Passive and active versions,
for use with or without subwoofers.

Stage monitors and multipurpose speakers
Self-powered and bi-amplified stage monitors and multi-purpose speakers,

PORTABLE SOUND SYSTEMS
(Page 58)

A variety of Self-powered and bi-amplified sound systems for bands, rental companies and for the event industy.
Easy to use and easy to set-up.
Either with built-in amplifiers or with 19”-rackmounted amplifiers and processors

AMPLIFIERS AND DSP´S
(Page 66)

A wide range of amplifiers, DSP´s, signal distribution and loudspeaker management processors for the tour and installation market. With pre-programmed presets for all prophon speakers available for download from our web site.

INSTALLED SOUND

We have a complete range of loudspeakers, covering most installation demands.
For amplifiers, DSP processors and signal distribution see page 64,
For PDU (Power Distribution Units) see page 70
Our experience and many years of supplying the installation market has helped us to develop our various series, covering:

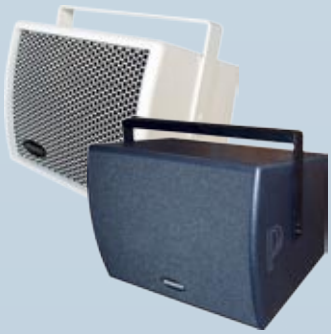
- bars, lounges, nightclubs.
- Theme parks and cruiseships.
- Theatres, concert halls
- Convention centres and churches.
- Sports centre, spinning and aerobic facilities.
- Live stages.
- Outdoor facilities.
- Sports arenas.
- shops, boutiques, malls and shopping centres.
- Railway stations, subway stations and airports.

In this catalogue only our standard products and series are presented, but in larger projects, specialized solutions are often a demand, and this is one of our many strengths.
We have, through the years, been involved in countless projects where we build according to special architectural designs, whether it being customized colour or look.
We can custom- design, develop, and manufacture after specifications, we can help with advanced acoustical sound and environment calculations, using the latest 3D-CAD computer software.
All our models have advanced measured 3D-files for download, to use in any acoustic calculation software (such as ease focus2^{tm}, Cat^{tm}, Odeon^{tm} etc.)
For subwoofers, we present max SPL and sensitivity in two ways so that the user can compare with our competitors in a fair way. A lot of manufacturer out there use methods to make their speakers look good ”on paper” using peak power handling (max continuous program handling times four), 2Pi (half space) and other ways to make it seems like the speaker better can perform than it in reality can.

CS- & CSX- SERIES, *page 18-19*
Three sizes of In-wall and in-ceiling speakers, 2-way coaxial design, built-in 100V-trafo with different power and 8 ohm.

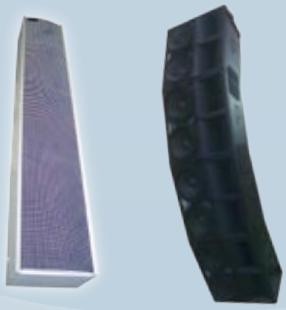
VPS-SERIES, *page 16-17*
Wall mounted plastic installation speakers, four sizes in black and white, built-in 100V trafo with different power and 8 ohm.

F-SERIES, *page 8-9*
Six models of fullrange passive installation speakers, from 6” to 15”, black or white.



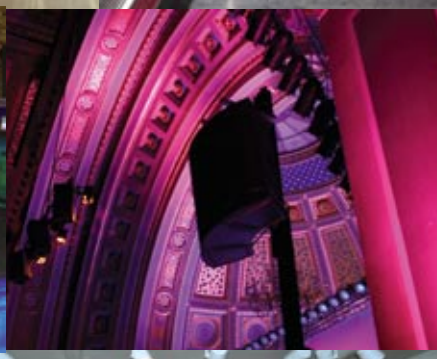
CLUBLAND SERIES
page 20-21
Horn loaded fullrange speakers for installation in large venues, outdoor, and in sportsarenas

S-SERIES,
page 10-11
A variety of models and sizes of Subwoofers for installation,



CLA-SERIES & CLAM21041
page 12-15
Column speakers and line array for the very best result in churches, theatres, conference centres etc.

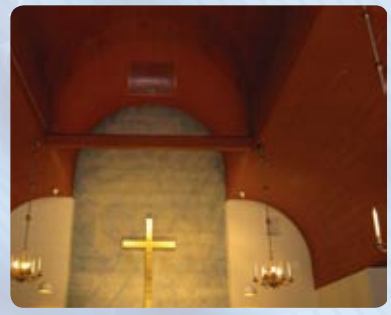
Papper & Kontor



PROPHON

F-SERIES

2-way passive fullrange installation speakers



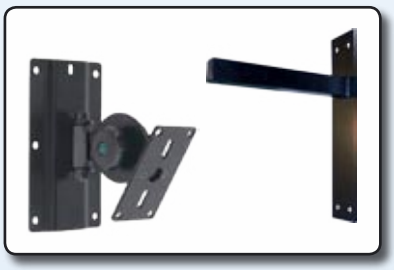
F-SERIES
2-way passive fullrange installation speakers

PRESENTATION
The F-series installation speakers consists of a complete range of two-way bi-amplified passive fullrange loudspeakers, from the smallest F6 to the largest F152. All models have a similar ”sound” so that different sizes can be installed in the same installation without unwanted frequency interference, so that all models can be mixed with very good result.
The F-series have been carefully designed with one purpose only, to be able to reproduce an accurate and unaffected neutral sound with high resolution, low distortion in a discrete appealing design.

INSTALLATION
Developed to satisfy the demand in a series of fullrange installation speakers with a two-way design for as well speech and song as recorded and live music.
They are easy to install and have a well balanced sound. The PROPHON F-series was designed for installation in live performance facilities, nightclubs, bars and restaurants, conference centres, churches, theatres, theme parks etc. where design, sound quality and flexibility are essential.

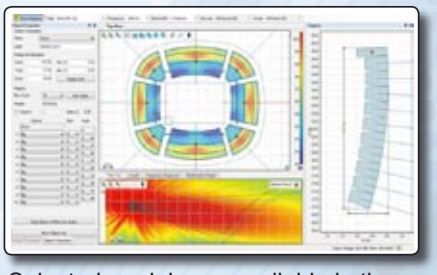
FEATURES
- 2-way passive design with advanced crossover networks.
- Superb sound quality with fullrange frequency response, rich base, and clear midrange.
- Neutral appearance with appealing design.
- Two M10 threads, one on each side, for installing with the speaker bracket.
- Easy to install with the dedicated installation bracket (extra)
- Protective perforated steel grille and speaker foam, both with minimum air flow resistance.
- Can be ordered in any colour, Black and white are standard.

APPLICATIONS
- Bars and restaurants
- Nightclubs and discoteques
- A/V rooms
- Conference centres
- Cruise ships, theme parks and leisure facilities
- Churches
- Live stages
- Theatres and concert houses.
- Places of worship



A vast range of installation brackets are available (see separate brochure)

Several smart installation hardwares are available (see separate broshure)



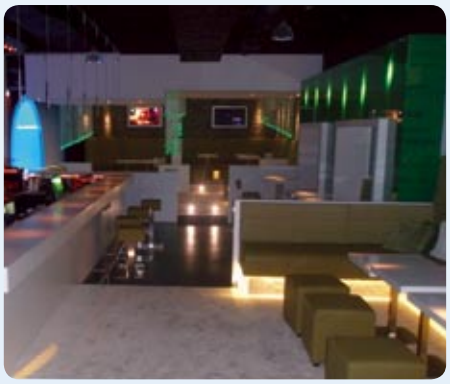
Selected models are available in the Ease focus 2 database for acoustic simulations and presentations.

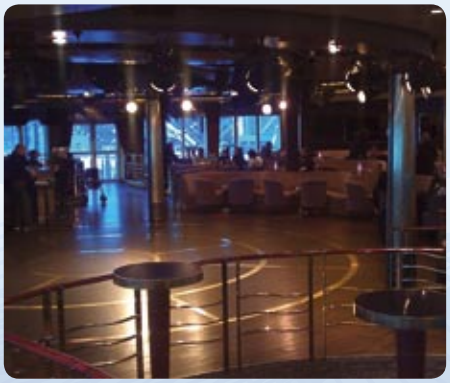
Technical specifications F-series fullrange installation speakers.

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m)	Nominell Impedance	Power handling	Max SPL dB@1m. Calc.	Size / cm. H x W x D	Weight Kg	Low frequency driver	High frequency driver	Dispersion H X v	Color
F6	Passive, bass reflex	120Hz-19kHz	94dB	8 ohm	150W RMS	119	22/16 x 26 x 20	5	6” 150 mm.	1” 25 mm.	90° conical	Black / white
F8	Passive, bass reflex	90Hz-19kHz	96dB	8 ohm	200W RMS	120	27,5/19 x 35 x 27	10	8” 200 mm.	1” 25 mm.	100° conical	Black / white
F10	Passive, bass reflex	80Hz-19kHz	99dB	8 ohm	250W RMS	126	34/26 x 46 x 28	11	10” 250 mm.	1” 25 mm.	90° x 60°	Black / white
F12	Passive, bass reflex	60Hz-19kHz	99dB	8 ohm	300W RMS	127	43/30 x 54 x 38	20	12” 320 mm.	1” 25 mm.	80° conical	Black / white
F122	Passive, bass reflex	60Hz-19kHz	100dB	8 ohm	400W RMS	128,5	43/30 x 54 x 38	24	12” 320 mm.	2” 50 mm.	80° conical	Black / white
F152	Passive, bass reflex	50Hz-19kHz	99dB	8 ohm	500W RMS	130	50/29 x 60 x 45	33	15” 400 mm.	2” 50 mm.	80° conical	Black / white

S-SERIES

Bi-amplified installation subwoofers





S-SERIES
Bi-amplified installation subwoofers

PRESENTATION

The Prophon S-Series was designed as a series of high power low frequency installation subwoofers for use in live applications and for recorded music. The design is front loaded tuned bass reflex for reproducing natural sounding, controlled low frequencies. The powerful low frequency drivers have been developed to satisfy the high demands put on today's subwoofers in performance, power handling and Max SPL. This has been ensured using double spider technology, reinforced cone structure, and vented magnet assembly.
The cabinets are manufactured from heavily reinforced 19 mm. Medium Density Fibreboard, using high precision fully computer-controlled CNC-machines, and painted with a specially developed two-component hardened paint.
The woofers are protected by a fully covering, 1,5 mm thick, perfored steel grille and a speaker foam, both with minimum air flow resistance and acoustic interference.
All models in the S-series comes in two versions, where the only difference is the power handling, making the S-series extremely versatile in projecting and installing.

FEATURES

- High power installation subwoofers featuring two versions of each speaker, with different power handling.
- Painted with two-component hardened lacque.
- Built with 19 mm. heavily reinforced medium density fibreboard for minimum cabinet vibration.
- 1,5 mm. protective perfored steel grille with speaker foam.
- Custom woofers for best performance.
- Neutrik speakon input and link out.
- Frontloaded tuned bass reflex construction for optimal frequency coverage.
- High max SPL, low distortion.
- Tuned for reproducing low frequencies with perfect cone control.

APPLICATIONS

- Bars and restaurants.
- Nightclubs and discoteques.
- Conference centres.
- Cruise ships, theme parks and leisure facilities.
- Live stages.
- Theatres and concert halls
- Work-out centres, aerobic-rooms and spinning-rooms
- Schools and other public address environment

Technical specifications S-Series installation subwoofers

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m) open space (4pi) Half space (2pi)	Nominell Impedance	Power handling	Max SPL dB@1m. cont.. / Peak*	Size / cm. H x W x D	Low frequency driver	Voice coil diameter	Color
S12L	Bi-amplified bass reflex	45 - 500Hz	95 dB 98 dB	8 ohm	450W RMS 900W cont..	125 dB 133 dB	50 x 40 x 35	1 x 12" 320 mm.	3" 76 mm.	Black / white
S12	Bi-amplified bass reflex	40 - 500Hz	95 dB 98 dB	8 ohm	1000W RMS 2000W cont..	128 dB 137 dB	50 x 40 x 35	1 x 12" 320 mm.	4" 100 mm.	Black / white
S15L	Bi-amplified bass reflex	35 - 400Hz	99 dB 102 dB	8 ohm	550W RMS 1100W cont..	129,5 dB 138,5 dB	60 x 48 x 54	1 x 15" 400 mm.	3" 76 mm.	Black / white
S15	Bi-amplified bass reflex	35 - 400Hz	96 dB 99 dB	8 ohm	1000W RMS 2000W cont..	129 dB 138 dB	60 x 48 x 54	1 x 15" 400 mm.	4" 100 mm.	Black / white
S18L	Bi-amplified bass reflex	30 - 400Hz	99 dB 102 dB	8 ohm	600W RMS 1200W cont.	130 dB 139 dB	73 x 55 x 60	1 x 18" 460 mm.	3" 76 mm.	Black / white
S18	Bi-amplified bass reflex	30 - 400Hz	97 dB 100 dB	8 ohm	1200W RMS 2400W cont..	130,5 dB 139,5 dB	73 x 55 x 60	1 x 18" 460 mm.	4" 100 mm.	Black / white
S215L	Bi-amplified Bass reflex	35-400Hz	102 dB 105 dB	4 ohm	1100W RMS 2200W cont..	135,5 dB 144,5 dB	100 x 50 x 54	2 x 15" 400 mm.	3" 76 mm.	Black / white
S215	Bi-amplified Bass reflex	35-400Hz	99 dB 102 dB	8 ohm	2000W RMS 4000W cont..	135 dB 144 dB	100 x 50 x 54	2 x 15" 400 mm.	4" 100 mm.	Black / white
S218L	Bi amplified Bass reflex	30-400Hz	102 dB 105dB	4 ohm	1200W RMS 2400W cont..	135,5 dB 144,5 dB	120 x 60 x 60	2 x 18" 460 mm.	3" 76 mm.	Black / white
S218	Bi amplified Bass reflex	30-400Hz	100 dB 103 dB	4 ohm	2400W RMS 4200W cont.	136,5 dB 145 dB	120 x 60 x 60	2 x 18" 460 mm.	4" 100 mm.	Black / white
S21L	Bi-amplified Bass reflex	25-200Hz	97 dB 100dB	4 ohm	1700W RMS 3400W cont..	130,5 dB 140,5 dB	80 x 60 x 67	1 x 21" 530 mm.	4,5" 116 mm.	Black / white
S21	Bi-amplified Bass reflex	25-200Hz	96 dB 99 dB	4 ohm	2000W RMS 4000W cont..	132 dB 141 dB	80 x 60 x 67	1 x 21" 530 mm.	6" 153 mm.	Black / white

** All Max SPL data are calculated and presented in two ways: continues and Peak, the continues max SPL are the most accurate, but some of our competitors use the peak reference, so we feel obliged to do the same, remember that we suggest that the continues max SPL are used. The Max peak spl are only for your reference. Max SPL peak have the following equation: sensitivity in 2Pi times peak power handling (4 x continues power handling) equals max SPL peak*

CLA-SERIES
Column Linear Array

PROPHON INSTALLATION SERIES

PRESENTATION

The CLA series of column linear arrays was developed to blend in with the environment and still reproduce astounding dispersion control in collaboration with a fullrange frequency response for speech, recorded music and live applications.

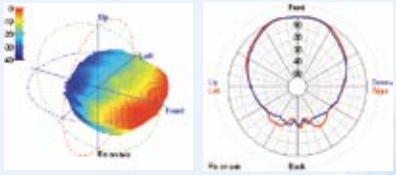
Most column speakers from our competitors have the frequency response focused around the vocal frequencies, covering a meagre 250Hz up to maybe 10-12 kHz, we have a different approach, knowing that today´s demand in a sound system are way higher, where a fullrange sound, covering all frequencies are essential to reproduce both music and speech with accuracy, presence and clarity.

FEATURES

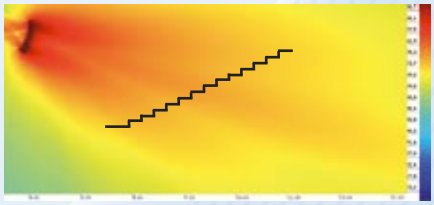
- Extremely high SPL (>108dB)
- Controlled vertical and horizontal dispersion
- Low distortion
- Easily handles both speech and music
- Fullrange frequency response 100Hz - 18kHz
- Extended frequency response with any of our subs.
- Flight ware included for easy installation
- Bi-amplified or self-powered
- Fully covering perfored steel grille, with protective speaker foam.
- Sleek and neutral design.
- Typical -3dB behaviour for each doubling of distance (point source speakers lose 6dB for each doubling of distance)

APPLICATIONS

- Churches
- Auditoriums
- Convention centres
- Malls
- Shopping centres
- A/V rooms
- Theatres
- Concert halls
- Conference centres
- Public address



Typical controlled narrow vertical dispersion, and wide horizontal dispersion, of a column array speaker.

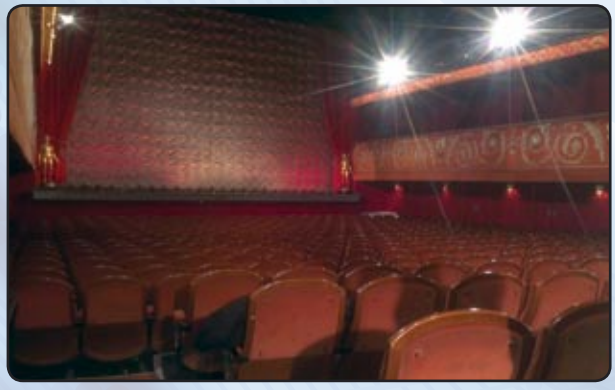


Technical specifications CLA-series Column Linear Array

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m) open space	Nominell Impedance	Power handling	Max SPL dB@1m. Calc.	Low frequency driver	High frequency driver	Dispersion H x V	Color
CLA8881	Bi-amplified basreflex	70Hz - 19kHz	109 dB	8 x 8 ohm	2000W RMS	140	8 x 8” 200 mm.	8 x 1” 25 mm	custom defined	Black / white
CLA8681	Bi-amplified bass reflex	100- 19kHz	107 dB	8 x 8 ohm	1200W RMS	139	8 x 6” 150mm.	8 x 1” 25 mm	custom defined	Black / white
CLA8311	Bi-amplified closed	150Hz - 20kHz	104 dB	8 x 8 ohm	400W RMS	130	8 x 3,5” 100 mm.	1” dome tweeter	custom defined	Black / white
CLA4611	Bi-amplified, closed	120Hz -20kHz	98 dB	2 ohm	600W RMS	129	4 x 6,5” 150mm.	1 x 1” 25 mm.	custom defined	Black / white

CLAM21041 *(Column Linear Array Module)*

Fixed installation line array module



CLAM21041 *(Column Linear Array Module)*
Fixed installation line array module

PRESENTATION

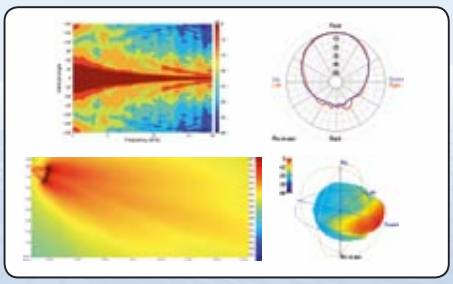
The CLAM21041 is a line array module for fixed installations. The specially designed horn and wave guides flattens the sound waves to a perfectly non-delayd symmetrical wave front with a 100 x 15 dispersion pattern.
The bi-amplified construction allows for economical use of external amplifiers and DSP processors,
(available presets in all our processors and amplifiers with built-in dsp´s)
We have omitted all external features in the CLAM21041, to reduce manufacturing cost, so that the module can perform like the most expensive tour line arrays, but cost a fraction, the splay tilting hardware was designed to be easy to use, safe and economical.
Most hardwares for line arrays are designed for tour and rental applications, with versatility and “on-the-road” thinking, resulting in very expensive hardwares, usually costing as much as 20% of the actual speaker, this is of very little use in fixed installations.
We have also looked into how line arrays often are installed, and the CLAM21041 are actually two line array modules in one cabinet, Each driver and woofer has a perfect alignment, resulting in a seamless linear wave front.
The cabinet were designed to be as shallow as possible (only 280 mm.) knowing that depth is often a problem when installing Line arrays.

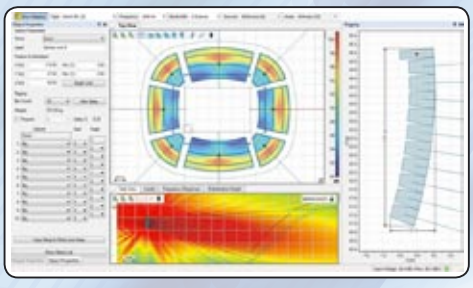
Features:
- 2 x 10” high power, custom woofers
- 4 x 1”-drivers mounted on separate wave guides and horns with a 100x15 dispersion pattern.
- Easy to install, with only one, multi usage, installation bracket for fixing splay angles.
- Available in the free Ease Focus 2 software, for acoustical calculations, simulations, predictions and presentations
- Controlled dispersion pattern of H100 x V15
- True line array coupling, with a typical -3dB / doubling of distance
- DSP presets available to download from our web site to all our processors and DSP amplifiers.
- Only 280 mm. in depth, for discreet installations.
- Fully covering perfored steel grille with speaker foam behind

Applications:
- Churches
- Multi arenas.
- Concert halls
- Football stadiums.
- Large live venues.
- Auditoriums
- Hockey rinks.
- Large nigh clubs.
- Large cinema theatres
- Theatres
- Conference centres
- Places of worship

TECHNICAL SPECIFICATIONS CLAM21041, LINE ARRAY MODULE

Model	CLAM21041
Speaker type	2-way, bi-amplified line array module for fixed installations
Components	LF: 2 x 10” woofers frontloaded bass reflex column arrayed
	HF: 4 x 1” drivers, mounted on seamless wave guides.
Power handling	LF: 400W RMS / 800W cont..
	HF: 80W RMS / 160W cont..
Sensitivity	LF: 99dB, 1W/1m. (2x97 dB)
	HF: 113dB, 1W/1m. (4 x 107dB)
Max SPL (calc.)	Continuous, open space: 129dB
	Peak, 2Pi half space: 136,5dB
Impedance	LF: 2x8ohm (4ohm)
	HF: 4x8 ohm (2ohm)
Dispersion	H100 x V15
Frequency response	Array dependent, (1 module: 60-18kHz, -6dB)
Dimensions	H570 x W520 x D280
Weight	





The CLAM21041 are available in the EASE FOCUS 2 database for acoustical simulations, predictions and presentations, CLF-files are also available for down loading and importing into architectural construction- acoustic- and CAD- soft wares.

VPS-SERIES

Fullrange, 100V / 8 ohm wallmount speakers

VPS-SERIES

Fullrange, 100V / 8 ohm wallmount speakers

PRESENTATION

The VPS SERIES are a complete range of high quality fullrange installation speakers,
VPS is short for **V**ersatile **P**lastic **S**peakers, and that may be saying it all?
A series of reliable speakers that fits everywhere, with their neutral design they blend in every possible installation,
Whether it being a bar or a restaurant, a shop or a mall, a conference room or a A/V room, even in a high quality home cinema.

There are four models of passive speakers that all comes in black (B) or white (W), and one active version of the VPS502.
With a 4”-woofer, 5”-woofer, 6”-woofer and a 8”-woofer.
The VPS502W are also available in active version, with built-in amplifier, treble and base control, volume control, XLR input and output, power on/off.
Each passive model has a built-in 100V transformer with a select switch in the back for easy setting different power-taps, they can also be run in 8 ohm mode.

When we started with the developing and designing process, we did not want to do ”yet another plastic speaker made in china” so very hard work was put into choosing components, designing crossovers and looking into the need and demand in these kind of speakers, talking to installers, project managers, architects and sound engineers, and after endless hours of testing and evaluating, both in our testing facility, our lab, and in numerous real installation environments the VPS series are born, after thousands upon thousands of VPS speakers sold, we can look back on all the work put into the series and say *”it was worth it!”*

With a neutral and clear sound, low distortion and wide frequency response the VPS-series are your perfect installation partner!

INSTALLATION

Developed to satisfy the demand in a series of fullrange installation speakers with a two-way design for speech and recorded music. They are easy to install and have a well balanced sound.
The PROPHON VPS-series has been designed for use in restaurants, bars, shops, hospitals, schools, A/V-rooms, conference centres, malls, cruise-ships, and other leisure facilities, where design, sound quality and flexibility are essential.

All models in the VPS-series has a built-in 100V transformer with a switch for chosing different power-taps or 8 ohms.

VPS502WA
with built-in amplifiers

Features:

- 2-way passive design with advanced dedicated crossover networks
- Sold in pairs
- superb sound quality with fullrange frequency-response, rich base and clear midrange
- installation brackets included
- built-in 100V transformer with a select switch for different power taps
- Can be run in 8 ohm, easily adjusted with the power tap switch
- Neutral appearance with appealing design
- Two M6 thread in the back makes the VPS-series
- Easy to install with any standard wall bracket.
- Weatherproof design.

Applications:

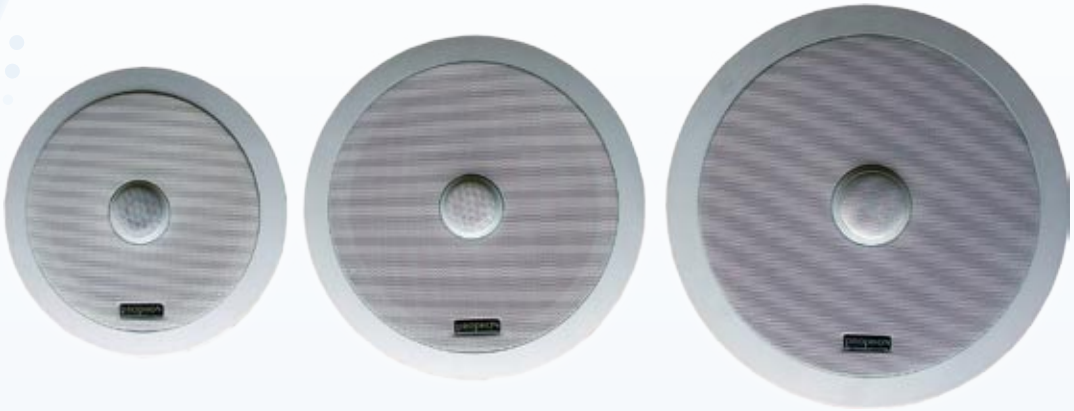
- Bars and restaurants
- Shops and malls
- Public address
- Schools
- A/V rooms
- Conference centres
- Cruise ships, theme parks and leisure facilities
- Churches and theatres
- High-end home cinema, and surround systems.

Technical specifications

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m)	Nominell Impedance	Power handling	Size / mm. H x W x D	Weight Kg	100V Line switch, power	Low frequency driver	High frequency driver	Color
VPS402	Passive, closed box	120Hz-22kHz	84dB	8 ohm	40W RMS	210x160x135	2,0	Yes, 2w, 4w, 8w, 16w, 8 ohm	4” (100mm)	13 mm dome	Black / white
VPS502	Passive, closed box	100Hz-22kHz	86dB	8 ohm	50W RMS	240x180x145	2,6	Yes, 2w, 4w, 8w, 16w, 8 ohm	5” (125mm)	13 mm dome	Black / white
VPS502WA	Active, closed box	100Hz-22kHz	86dB	8 ohm	50W RMS	240x180x145	2,6	No	5” (125mm)	13 mm dome	White
VPS602	Passive, bass reflex	90Hz-22kHz	85dB	8 ohm	60W RMS	290x215x165	4,0	Yes, 2w, 4w, 8w, 16w, 8 ohm	6” (150mm)	25 mm dome	Black / white
VPS802	Passive, bass reflex	65Hz-22kHz	88dB	8 ohm	85W RMS	350x270x180	6,9	Yes, 4w, 8w, 16w, 32w, 8 ohm	8” (200 mm)	25 mm dome	Black / white

CS- & CSX- SERIES

Ceiling & in-wall speakers



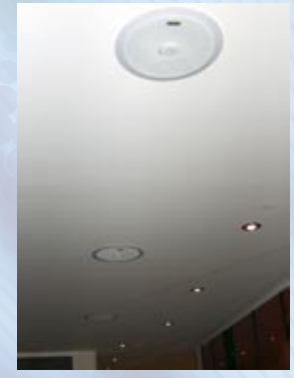
PRESENTATION

The PROPHON CS-Series consists of three sizes of coaxial 2-way ceiling speakers with passive crossover and a built in 100V line-transformer that enables all models to be run either in 8 ohm-version or 100V in 5W, 10W, 20W or 30W depending on model and configuration.
Installing is made easy by the 3 adjustable fastening locks, that can be mounted on 8 mm to 30 mm thick ceilings or walls.
The drivers are protected with a fully covering perfored steel grille. CS502 consists of a 5”-woofer and a 0,75”-dome tweeter, CS602 consists of a 6” woofer and a 0,75”-dome tweeter, CS802 consists of a 8”woofer and a 1”-dome tweeter.

The PROPHON CSX-series have the same technical specifications, but an even better sound quality with higher sensitivity, and a back-cover with push-terminals and a select switch for easily choosing power-taps when installing.

INSTALLATION

Developed to satisfy the demand in a series of ceiling / in-wall speaker with a two-way fullrange sound for speech and recorded music. They are easy to install and have a well balanced sound. The PROPHON CS-series has been designed for use in shops, hospitals, schools, A/V-rooms, conference centres, malls, cruises, and other leisure facilities, where design, sound quality and flexibility are essential.



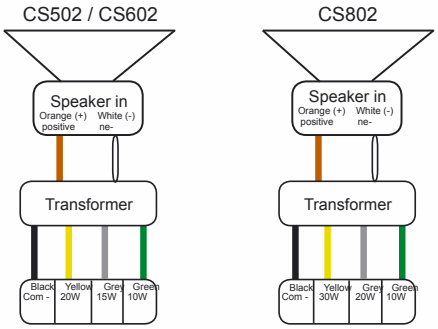
Features:
- 2-way coaxial design
- Easy to install with smart hardware
- Superb sound quality with fullrange frequency response, rich base and clear midrange
- Adjustable dispersion on tweeter
- Built-in 100V transformer with different power taps
- Can be run in 8 ohm if bypassing the transformer
- Sleek design with only 65 - 85 mm. depth, depending on model

Applications:
- Bars and restaurants
- Shops and malls
- Public address
- Schools
- A/V rooms
- Conference centres

CS- & CSX- SERIES
Ceiling & in-wall speakers

100V in
Push-terminal color code

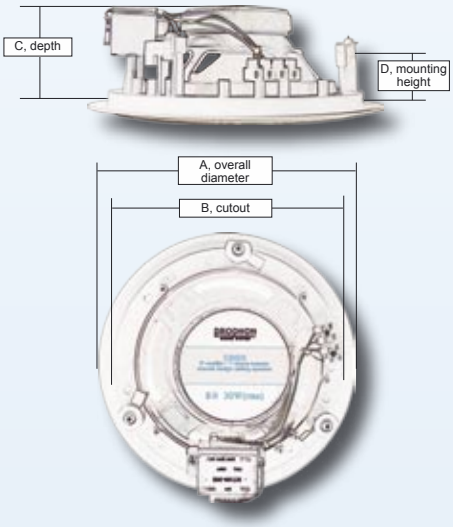
Connection guide 100V power tap CS-series



Above:
CSX-Series back cover
with push-terminals and power-tap 70V/100V

Below:
Depth (C) of the back-cover

DIMENSIONS CS-series



Frontgrille on the CSX-series

Technical specifications CS- & CSX- Series

MODEL	Components / design	Color	Measurements	Dispersion	Power-taps CSX-series	Wiring CS-series (color) =old version 100V / 8 ohm	Power Handling	Sensitivity @ 1W/1m. +-6dB	Weight
CS-502 / CSX-502	5”-woofer / 0,75”-dome tweeter, coaxial passive	White	A= 200 mm. B= 172 mm. C= 65 mm. / (CSX=135 mm) D= 8 - 30 mm.	80° conical	Line in: 70V/100V 2,5W,/5W/10W/20W 8 Ohm	White = 10W, Blue = 15W, Green = 20W Black = com (-) Bypass = 8 ohm	20W RMS	CS - 88dB CSX - 91dB	1,35 kg
CS-602 / CSX-602	6”-woofer / 0,75”-dome tweeter, coaxial passive	White	A= 230 mm. B=200 mm. C= 70 mm. (CSX=160 mm) D= 8 - 30 mm.	80° conical	Line in 70V / 100V 3,8W/7,5W/15W/30W 8 Ohm	White 10W, Blue 15W, Green 20W Black com (-) Bypass 8 ohm	20W RMS	CS - 90dB CSX - 93dB	1,6 kg
CS-802 / CSX802	8”-woofer / 1”-dome tweeter, coaxial passive	White	A=260 mm. B=226 mm. C= 85 mm. (CSX=210 mm) D= 8 - 30 mm.	80° conical	Line in: 70V/100V 5W/10W,/20W/40W 8 Ohm	Blue 10W, (white) Green 20W, (blue) Red 30W (yellow) Black com (-) Bypass 8 ohm	30W RMS	CS - 92dB CSX - 95dB	1,95 kg

CLUBLAND SOUND SYSTEM

High power, high end, horn loaded speakers for installation and tour applications

PRESENTATION

The CLUBLAND SOUND SYSTEM is a range of horn loaded long throw speakers that were developed in line with the growing demand in better reinforcement systems in large nightclubs, stadiums, venues, sports facilities and arenas.
Often these kind of installations must cover vast distances or have a controlled dispersion, very often both these features.
The prophon CLUBLAND series was designed to reproduce extremely high SPL in collaboration with low distortion levels and an accurate dispersion control, and at the same time deliver an unsurpassed frequency response, covering the whole fullrange frequency range.
The horn loaded top/fullrange- speakers individually have an extremely high sensitivity of 108dB, 1W/1m. with very low distortion.
For extended low frequency response when reproducing music the 2x15" C.C.C (Common Compression Chamber) **CLV215** subwoofer is the perfect complement.

PROPHON CLUBLAND High-power sound system, was designed for both fixed installations in large nightclubs, places of worship, live music clubs, sports-arenas, venues and stadiums, and for touring, and the event & rental industry.
The **CLUBLAND** series consists of six individual self-powered or bi amped loudspeakers, designed to be combined in a variety of setups depending on application.
In a fixed installation, a bi-amped setup is often preferable, in the rental industry self-powered speakers has come to dominate thanks to easy-to-use built-in amplifiers and DSP-processors with factory presets for a variety of setups

Features:
- Extremely high SPL (>108dB)
- Controlled dispersion
- Low distortion
- Easily covers speech and music over vast distances
- Fullrange frequency response
- Extended frequency response with the CLV215 SUB
- Flight ware included for easy installation
- Bi-amplified or self-powered
- Fully covering perfored steel grille front

Applications:
- Large nighclubs.
- Fotball stadiums.
- Multi arenas.
- The rental industry.
- Live bands
- Large live venues.
- Hockey rinks.
- Sports events.
- Tour applications.
- Portable DJ´s

CLUBLAND

Suggested system configuration:
In the mid/high frequency range there are two models: the CLH81 and the CLH122, both cabinets consists of a 2-way horn-loaded construction, the CLH81 is a mid/high horn loaded speaker, the CLH122 is a fullrange horn loaded speaker.

The CLH81 houses a horn loaded 8”- woofer and a 1”-driver mounted on a horn, both with a dispersion of 80x60, the frequency range covers 250Hz - 20kHz, and requires the low-mid speaker CLV215 to reproduce a fullrange sound.

The CLH122 houses a 12”/2”-combination loaded onto horns with a dispersion of 90x60, the frequency range covers 100Hz - 18,5kHz. and can be used as a fullrange horn loaded speaker in both fixed installations and live performances, for extended low frequency fullrange reproduction a CLV215 is recommended.

The CLV215 loudspeaker has a frequency response that spans from 30Hz to 500Hz, making it very versatile in setup and system configurations. It can either be used as a low-mid, covering 50-350Hz in an fullrange installation with the CLH81 or the CLH122 in sports arenas, outdoors or indoors, or in larger 4-way sound systems as lo-mid covering 90Hz-350Hz in combination with the CLH81 or the CLH122 and external subwoofers for extended frequency response down to 25Hz. The CLV can also function as a high power subwoofer covering 30Hz to 110Hz in a 3-way system with the CLH122, either flown or stacked.

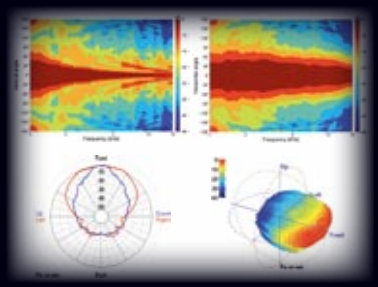
The CLB118 is a high power single 18”-frontloaded tuned bass reflex subwoofer, constructed to reproduce accurately the low frequencies with minimum distortion and with total control of cone-suspension. CLB118 will deliver that sought-after, but rarely achieved punch, both DJ´s and live sound technicians want.

The CLB121 infra-sub will blow you away!
The high power single 21”- frontloaded tuned bass reflex subwoofers was designed to deliver an unsurpassed low end punch. The DJ´s, the musicians and the crowd will love it... ...the neighbours... wherever they may be... will hate it!

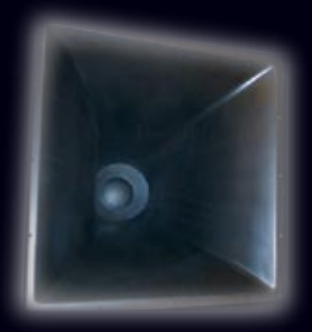
The CLHB212 horn loaded 2 x 12” subwoofer with an astounding sensitivity of 109dB 1W/1m.@80Hz and 105dB 1W/m@30Hz, extremely high SPL can be achieved in the sub-frequencies. The HB212 has an attack that no competitors can even dream of achieving, with the double 12”-woofers and carefully engineered horn, both the very lowest frequencies and the more rapid upper sub is transduced with exceptional clarity. The subwoofer frequencies also reaches further away thanks to the long-throw horn construction, matching the horn loaded midrange and high range speakers.

Each loudspeaker has Its own purpose and frequency response, so that when setting up a complete rig you can take into account what the system is supposed to achieve.
In short, the CLUBLAND SOUND SYSTEM are a high-end, stack able / rig able, self-powered or bi-amplified, horn loaded, 5-way system with extremely high SPL, ultra-low distortion level, for installation in large venues or for concerts and live applications

The self powered versions are mainly used for tour and portable applications.



Controlled dispersion pattern with CLF-balloon files for download



Low distortion / High SPL horns, specially designed for the clubland.

Technical specifications CLUBLAND SOUND SYSTEM, horn loaded speakers.

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m) open space	Nominell Impedance	Power handling	Max SPL dB@1m. Calc.	Size / cm. H x W x D	Low frequency driver	High frequency driver	Dispersion H x V
CLH81	closed, horn loaded	250 - 19kHz	109 dB	8 ohm	250W RMS / 500W cont..	138	60 x 60 x 60	8” 200 mm.	1” 25 mm	80 x 60
CLH122	bass reflex, horn loaded	100- 19kHz	107 dB	8 ohm	500W RMS / 1000W cont..	139	90 x 60 x 60	12” 320 mm.	2” 25 mm	60 x 40
CLV215	Common Compression Chamber	35Hz - 500Hz	106 dB	4 ohm	1200W RMS / 2400W cont..	141	60 x 60 x 60	2 x 15” 400 mm.	-	-
CLB118	Front loaded bass reflex	35-200Hz	100dB	8 ohm	1200W RMS / 2400W cont..	137	60 x 60 x 60	18” 460 mm.	-	-
CLB121	Front loaded bass reflex	25-100Hz	99 dB	4 ohm	2000W RMS / 4000W cont..	138	80 x 60 x 65	21” 525 mm.	-	-
CHB212	Horn loaded subwoofer	30-200Hz	108	4 ohm	2000W RMS / 4000W cont..	144	90 x 72 x 124	2 x 12” 320 mm.	-	-

PA SYSTEMS
Self-powered and bi-amplified

For almost 3 decades, Prophon has been supplying the professional rental and touring market with high-end sound systems, We have a complete range of products, from stage monitors to line arrays, subwoofers, electronics, amplifiers, PDU´s and cases.

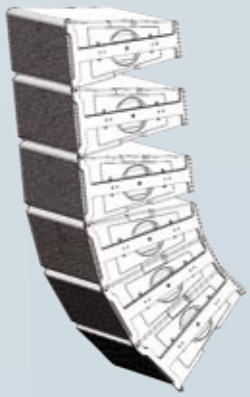
Each model have been carefully designed based on our customers demands, resulting in user-freindly and well thought-through products with innovative solutions.

We use only the very best components available, with the philosophy that the product can only be as good as the worst component used, whether it being drivers, woofers, DSP processors or amplifiers.

Design, assembly, woodwork and metalwork are done in Sweden, ensuring the very best quality.

We have a variety of flight ware and rigging hardware, as well as cables, stage boxes, cases and power-supplies *(Please see separate pages)* to use with our sound systems, helping our customers get the most out of their investments.

PA SYSTEMS
Self-powered and bi-amplified



Line array (Page 24-29)
We have three line arrays, two for tour and installation, one for fixed installations only *(see CLAM21041 on page 14-15)* our PLA Line array modules can be used both as full scale line arrays and for smaller club applications, stacked a couple of modules with subwoofers.
The PLA-series are available in active (self-powered) and passive (bi-amplified versions)

Portable fullrange speakers (Page 40-41)
Next to legendary in our domestic market, our portable fullrange speakers has been around since the start, a lot has happened since then, and the fullrange speakers of today are nothing like its earlier siblings. Designed for club music and live performances, to be used in combination with any of our subwoofers, or stand-alone in acoustic performances.
All models are available in active and passive versions

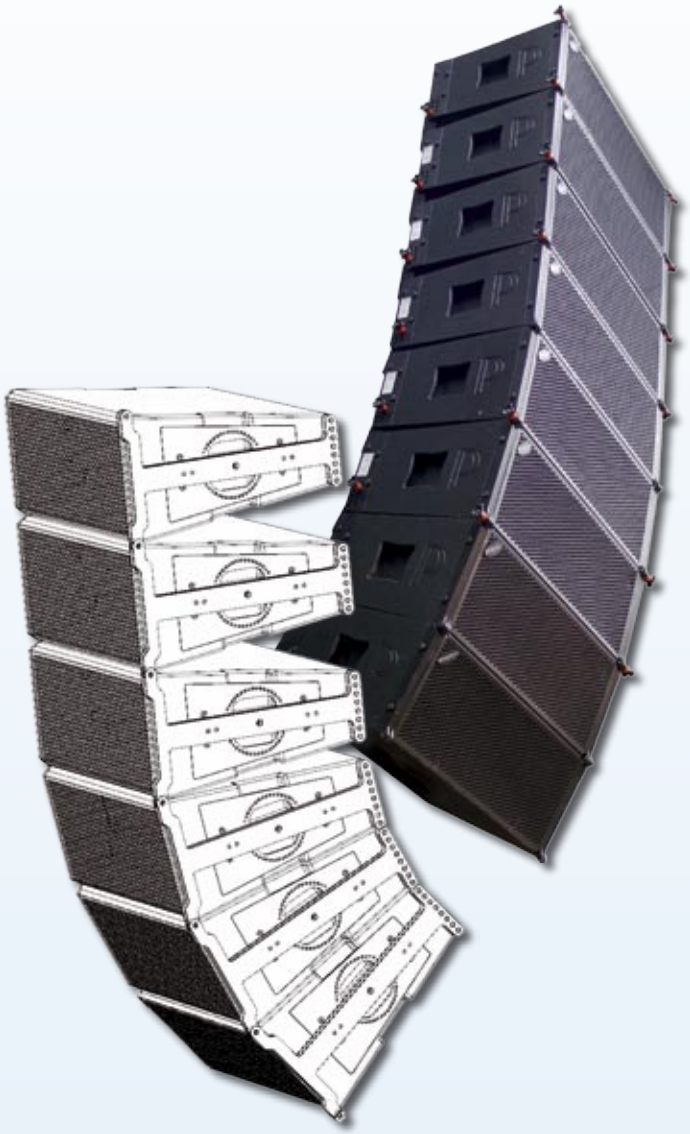
Stage monitors and multi-purpose speakers (Page 30-39)
Most of our customers that own rental companies want to be able to use their wedges as fullrange speakers or top speakers when not being used as stage monitors, due to obvious economical reasons in not stocking speakers that can only do one thing.
Our MF and CX series are packed with features so that they can be used as high-power stage monitors one day, and top speakers in an active system with subwoofers the next day.
Handles, top-hats, flight-ware, monitor angle, passive and active versions are some features that makes our multipurpose speaker the perfect partner in your rental company.

Subwoofers (Page 42-57)
Our subwoofers for the PA and rental industry were designed and developed in close collaboration with some of our users, with field-tests, thoughts and ideas from actual users. The result is a range of high-end subwoofers where only the best components was used from leading European suppliers.
All woodwork, metalwork, design, and assembly are made in Sweden, and the cabinets are made with 18 mm. high-quality heavily reinforced birch-plywood.
Many of our competitors forget the importance of reinforcing the cabinet, we even use machines and computer software for measuring vibrations in the cabinet, to better be able to reinforce and strengthen the construction so that the woofer can perform at its best, without losing precious SPL to cabinet vibration. The difference in a perfectly balanced cabinet compared to a poorly reinforced, self-vibrant cabinet can be as much as 3 dB.

Portable sound systems (Page 58-65)
Perfect for bands, DJ´s, rental companies and the event industry, where rigging must be done fast and easy.
We have a variety of portable active sound systems for small to large applications. Each system has several pre-programmed presets depending on application and setup. Whether using in live applications or for house music our portable sound systems will do the job.
The systems are scale-able and modular, so that several small systems easily can be combined into one larger system.
Class-D amplifiers with Power factor correction, on-board high precision DSP´s, powerful components with high sensitivity and SPL, designed and manufactured in Sweden. All systems comes complete with cases, cables and stands.

PLA-SERIES

Line Array speakers



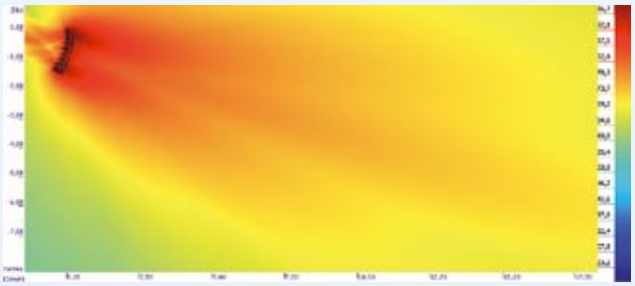
Line array by Prophon:

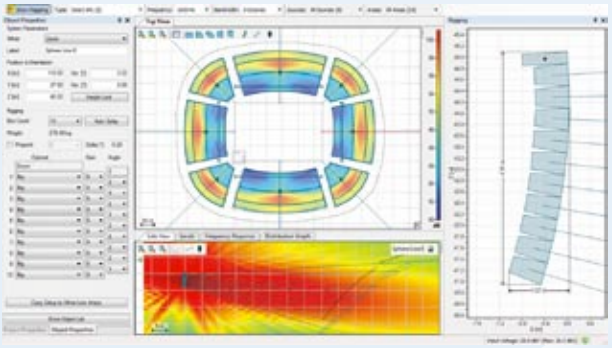
We have come a long way since the Line array era started, though line source speakers are nothing new in itself, column speakers has been around for almost as long as the amplified loudspeaker.
In the last decade or two, a giant leap in control, dispersion, SPL and quality has been made.
Using the -3dB for each doubling of distance and coupling of speakers vs frequency, we can today manufacture sound systems we only dreamt of 20 years ago, where advanced acoustical 3D simulations in collaboration with extended field-testing are a part of the developing process.

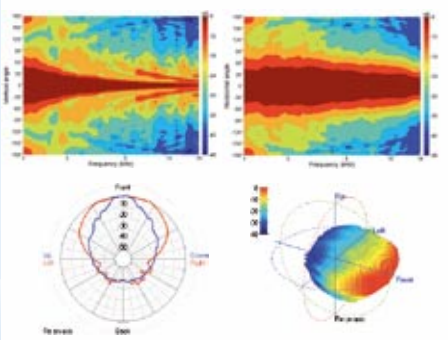
As with all our loudspeakers, we can supply advanced 3D measured files, to import into any 3D acoustic simulation software, such as Ease, Catt, Odeon, this helps to predict dispersion, SPL and frequency response, a big help both for tour live applications and for installations.
This ensures an accuracy and perfection in tour performances and installations not possible before.
Our line array speakers are also available in the EASE FOCUS 2 database for acoustical simulation, rigging and setups.

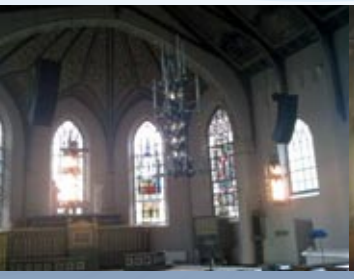
The PROPHON PLA-series of Line source array modules are fitted with cutting edge technology, we have used only the very latest in design and acoustic theories, and only the best components available in drivers, wave guide, amplifiers, DSP´s and transducers have been used.
We have then packed it in user friendly cabinets with smart rigging hardware.

Whether using for live applications in the tour business or installing in theatres, churches, live stages, concert halls, convention centres, sports arenas, a Line Array from Prophon will give you all the advantages of a true Line Array, with a controlled sound, perfect line array coupling, unsurpassed dynamic, extremely low distortion and a flat frequency response.
Reproducing speech, live music and recorded music with ease over vast distances as well as near-field.









PLA2611

Self-powered / bi-amplified multipurpose Line Array module

The PROPHON PLA2611 is a High power, compact, lightweight line array module for installation or tour applications.
Two versions are available: self-powered and bi-amplified, where the self-powered version houses sophisticated on-board DSP processors and Class-D amplifiers with a total of 700W. Furthermore the self-powered version also have 4 pre-programmed presets for to select from depending on application and configuration of the system.
The bi-amplified version must be processed in any of our external 19” DSP-processors and powered by our external 19” amplifiers, or by the P3000DSP amplifier with built in processors, *(see separate data sheet for configurations and suggested setups)*
The bi-amplified version is mainly used for installations, and the self-powered version is mainly used for tour and the rental industry.

The PLA2611 was developed for use either as a full-scale line array, as a frontfill, as a delay system or as a high-power, portable PA-system mounted or stacked on any of our subwoofers with the proper rigging hardware amplifier presets. *(see pictures)*
Due to its compact size and low weight, the PLA2611 can be mistaken for a line array module used in smaller applications, this is easy to remedy by listening and experiencing the full power of the speakers.
Developed to satisfy the ever growing demand in the rental and installation segment where one speaker cannot only have one application and user area! As with our Multi Purpose stage monitor speaker series, the PLA2611 have a variety of applications, making it one of the most interesting line array module out there! with an abundance of hardware for rigging and installing the PLA2611 in a variety of ways. Use the free software ease focus 2 for acoustic simulations, rigging, installing and predicting.

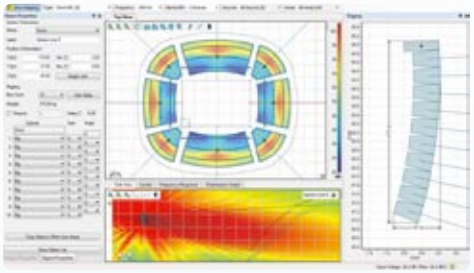
Features
- Compact format.
- 2 x 6” woofers mounted on two separate 110° baffles, 1 x 1” driver mounted on a Wave guide.
- Bi-amplified version or self-powered version with built-in amplifier and a total of 700W.
- Controlled dispersion of H110^{o} x V15^{o}.
- Flat frequency response with low distortion and high SPL.
- On-board DSP processing.
- 4 presets for easy setup, each with different frequency response depending on
- A variety of hardware, installation-brackets and mounting equipment available.
- Can be used as a fullrange line array with -3dB / doubling of distance.
- Coherent wave front where the frequency response and frequency reproduction are the same over the dispersion area.

Picture showing passive, white version.
Preferred when installing in architectural installations, such as:
churches, conference centres, nighclubs.

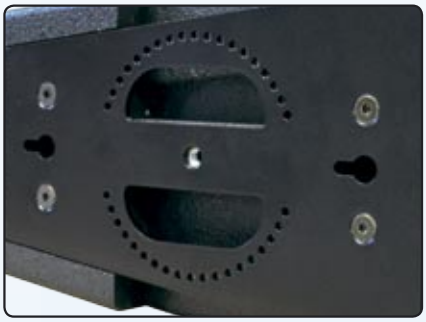
Applications
- Small sized line array for use in live applications speech and recorded music such as concerts, festivals, Club performances and events.
  Either flown or groundstacked, with the smart and easy to use rigging hardwares.
- Installed horizontally in small clusters where dispersion are paramount.
- Installed in venues, theatres, churches and other indoor facilities.
- The perfect frontfill, placed at the front of the stage, taking only 215 mm. in height..
- Side fill, groundstacked on any of our subwoofers prepared for line array stacking.
- Small sized high power PA with 2-4 pcs.. mounted on a stand with subwoofer, for use in live application and recorded music, such as bands, DJ´s, Events
- As delay system / delay tower in larger venues.
- Installed 2-4 pcs / cluster vertically in nightclubs, live performance stages, bars and lounges etc. with a very controlled dispersion of H110^{o} x V15^{o} - H110^{o} x V60^{o} (1 - 4 pcs of PLA2611)

PLA2611

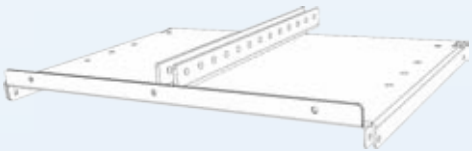
Self-powered / bi-amplified multipurpose Line Array module



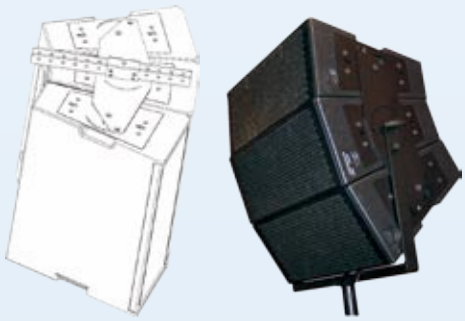
All our line array speakers are available in the EASE FOCUS 2tm database. Ease focus is the leading free software for advanced rigging, planning and acoustical calculation.
CLF-files can also be down loaded from our web site for importing in other acoustical simulation soft wares such as cat, odeon etc.



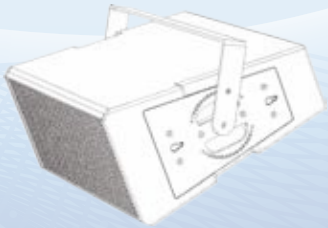
The specially designed hardware allows for the PLA2611 to be used in a variety of ways and combinations, either when installing or using "on the road" it also functions as a handle.



PL26FLR bumper frame, when used in array



PL263, cluster bracket for installing or rigging 3 pcs of PLA2611 horizontal or vertical adjustable from 15 to 45 degrees dispersion.



Installation bracket with sprints for easy adjustment of tilting angle

Technical data PLA2611:	
Model	PLA2611
Low frequency driver	2 x 6,5" Neodymium lightweight drivers, mounted on separate 110° baffels.
High frequency driver	1"- throat exit driver, mounted on a wave guide.
Construction	self-powered, closed cabinet (bi-amped version upon request)
Sensitivity	97 dB@1W/1m.
Nominal impedance	Each component are 8 ohm.
Power handling R.M.S.	350W
Power Handling cont..	700W
Max SPL, open space (calc.)	127 @ 700W (139 dB 2 x 8 pcs in array)
frequency response +/- 6dB	80Hz - 20kHz
Vertical dispersion -6dB	15°
Horizontal dispersion -6dB	110°
Measurements H x W x D mm.	215/117 x 500 x 370
Weight	13,8 kg.
Recommended crossover in an active system with subwoofers	HP@90Hz, 48dB/oct
Recommended pre-programmed DSP processors	PROPHON DSP26, PROPHON DX48, PROPHON DSP48
Applications	- Fixed Installations. - Live performances. - 2-4 pcs stacked/mounted on subwoofers in a PA- system - Frontfill, delay,
Accessories	- Flight ware for rigging, case,

Extended Technical information , Amplifier, DSP and setup.	
DSP Presets (Push preset select btn to change preset.)	FOUR DSP PRESETS 1) FLAT THROUGH 2) EXTENDED FULLRANGE 3) LINE ARRAY 1 4) LINE ARRAY 2
Connections	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power link: Neutrik powercon white
Volume control	Stepped potentiometer, Mute to +6dB,
LED barographs	Blue Power on Green Signal Yellow Temp Red Limit
Mains Voltage Range	100 - 250 Vac (+-10%)
Start-up Voltage	90 Vac (130Vac)
Shutdown Voltage	250 Vac
Minimum operation Voltage	70Vac
Efficiency	>95% (typical)
Damping factor	> 1000 (20Hz - 1kHz)
Distortion	<0,005% (THD, DIM, SMPTE)
Power	2 x 350W
S/N ratio	<113 dBA (20Hz - 20kHz A weighted)

PLA2821

Self-Powered / Bi amplified Line Array

The PLA2821 is a true line array with typical -3dB behaviour for each doubling of distance, a very narrow vertical dispersion of 3,75^{o} * 3,75^{o} gives the system an unsurpassed control over vast distances. The horizontal dispersion is 120° and with the specially designed wave guides controlling and ”steering” not only the drivers but even the two 8” woofers, a fullrange linear arrayed behaviour is achieved over the whole frequency response, not only in the HF wave guide but also in the midrange and low range frequencies. This gives an astounding stereo image and sound separation, with an unsurpassed midrange presence rarely experienced in line array systems.
The frequency response is flat and undistorted, with next to no colouring of the sound, making it a favourite amongst sound engineers. Using only the very best components available ensures the highest possible quality in sound, with extremely low distortion.
The Self-powered version of the PLA2821 are sold in pairs where one master and one slave are used.
The master module holds all amplification and processing, feeding the slave module with 500W of DSP-processed class-D amplification through a 4-way speakon connector. The Bi-amplified version of the PLA2821 are mostly sold to installations in various clubs, live performance stages, concert houses, theatres and other high-end sound system facilities.

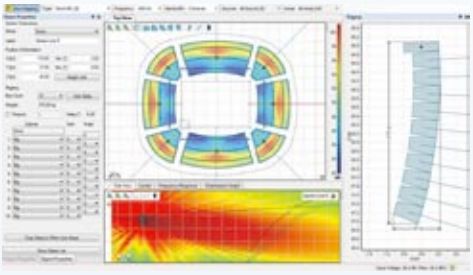
Features
- Compact format.
- 2 x 8” woofers mounted on two separate wavesteering 120° baffles.
- 2 x 1” driver mounted on a 120° wave guide.
- Self-powered or bi-amplified versions available,
- Built-in amplifier and a total of 1000W with on-board DSP processing. *(self-powered version)*
- Controlled dispersion of H120^{o} x V7,5^{o}.
- Flat frequency response with low distortion and high SPL.
- True line array behaviour with a -3dB SPL for every doubling of distance
- Coherent wave front where the frequency response and frequency reproduction are the same over the dispersion area.
- Sold and used in pairs (master/slave) where the master houses all electronics and amplification. *(self-powered version)*
- Over dimensioned 8 mm. aluminium hardware (each speaker has 3 x 8 mm x 4 points of aluminium thickness.

Applications
- Medium sized line array for use in live applications such as concerts, festivals, club performances, either flown or groundstacked.
- Installed horizontally in small clusters where dispersion are paramount for optimal control.
- Installed 2-4 pcs / cluster vertically in nightclubs, live performance stages, bars and lounges etc. with a very controlled dispersion.
- Installed as full scale line array in venues, theatres, churches, places of worship and other indoor facilities.
- Side fill, groundstacked on any of our subwoofers prepared for line array stacking.
- Small sized high power PA with 2-4 pcs. mounted on a stand with subwoofer, for use in live application and recorded music, such as bands, DJ´s, Events
- Delay system / delay tower in larger venues.

PLA2821

Self-Powered / Bi amplified Line Array

Specially developed, high quality aluminium alloy rigging hardware are included in the speaker, no extra hardware needed except the LS825 sprints to configure and rig a complete array.
Very easy and fast setup and aiming with the splay hardware.



All our line array speakers are available in the EASE FOCUS 2™ database.
Ease focus is the leading free software for advanced rigging, planning and acoustical calculation. CLF-files can also be down loaded from our web site for importing in other acoustical simulation software such as cat, odeon etc.

Only the best components available have been used in drivers, woofers, DSP´s & amplifiers.
All woofers and drivers are light weight neodymium, reducing the overall weight of a line array significantly compared to similar systems in the same size.

Very easy to setup with user-friendly hardware and rigging equipment. The extremely controlled vertical dispersion of 7,5º in combination with the wide horizontal dispersion pattern

PL28FLR low profile bumper

LS825 splay sprint

Technical data PLA2821:	
Model	PLA2821
Low frequency driver	2 x 8” Neodymium lightweight drivers, mounted on separate 120º baffels.
High frequency driver	2 x 1”- throat exit driver, mounted on a wave guide.
Construction	self-powered, vented cabinet (bi-amped version upon request)
Sensitivity	100 dB@1W/1m.
Nominal impedance	Each component are 16 ohm.
Power handling R.M.S.	400W
Power Handling cont..	800W
Max SPL, open space (calc.)	135 @ 1000W (144 dB 2 x 8 pcs in array)
frequency response +/- 6dB	60Hz - 20kHz
Vertical dispersion -6dB	7,5º
Horizontal dispersion -6dB	120º
Measurements H x W x D mm.	280/215 x 760 x 400
Weight	23 kg.
Recommended crossover in an active system with subwoofers	HP@90Hz, 24-48dB/oct
Recommended pre-programmed DSP processors	PROPHON DSP26, PROPHON DX48, PROPHON DSP48
Applications	- Fixed Installations. - Live performances. - 2-4 pcs stacked/mounted on subwoofers in a PA- system
Recommended subwoofers	HB212, (B6, B18 in a cardioid array)
Accessories	- Flight ware for rigging, case,

Extended Technical information, amplifier	
Connections	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey
Mains Voltage Range	195 - 250 V_{ac}, 50/60Hz
Max power consumption (1/8 max output)	1,6A - 2,6A
Max output current draw	28A
Efficiency	>85% (typical)
Damping factor	> 500@100Hz, 200@1kHz
Distortion	<0,05% (THD, DIM, SMPTE)
Power	2 x 500W
S/N ratio	<105 dBA (20Hz - 20kHz A weighted)
Frequency response	10Hz - 25kHz (+-3dB)
Input impedance	10 kOhm balanced to ground
Input sensitivity @ 8 ohm	1,12 V / 3,20 dBu
Crosstalk separation	> 70 dB @ 1 kHz
S / N ratio	> 112 dB(A) (20Hz - 20kHz)

Multipurpose and monitor systems by Prophon

Our range of multipurpose and multi function speakers comes with a variety of features,
so that the user has a maximum return of investment, they can be used in many applications...

- High power stage monitors
- Fullrange speakers, frontfill, delay, side fill, drum fill etc.
- Installed in venues, nightclubs, bars, theatres, live performance stages.
- Flown with any of the ”easy to assembly” hardware or flight ware
- Mounted on a speaker stand
- Used in a sound system, active (self-powered) or passive (bi-amplified) with any of our self-powerd or bi-amplified subwoofers.

All but the smallest models comes in two versions:

- **Passive version**
  (Bi-amplified) with built-in passive crossover network, using 1 channel on an external rack mounted amplifier.
- **Active version**
  (self-powered) with built-in amplifiers with on-board DSP´s, and 4 presets for different applications.

There are an abundance of rigging and installation hardwares,
to help use the multipurpose speakers in as many applications as possible.

We also manufacture our own high quality cases for transporting and protecting the speakers.
Cases are available for each model, where 2 speakers are housed in each case,

MF8

Bi-amplified multi function speaker

Presentation MF8
The PROPHON MF8 is a lightweight, two-way Bi-amplified Multi Purpose Speaker with a 8”- woofer, and a 1”- compression driver mounted coaxially on a conical horn with 100° x 100° dispersion.

It was designed to be a true companion on the road, and can be used in a variety of ways: as a compact stage-monitor, frontfill, side fill, down fill, delay, fullrange stand-alone unit, mid/high with a Self-powered subwoofer in an active system. (Prophon B2A, B1A, B4A)

The frequency response was carefully designed to be neutral and ”open” to ensure an uncoloured sound reproduction. So whether using for recorded music, live applications or speech, the MF8 will reproduce the sound as it sounds without adding or subtracting vital information.

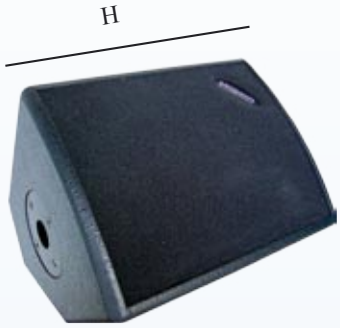
In short, the MF8 is all you need in a compact, high power, multi purpose, fullrange speaker. and is one of the most versatile speakers on the market, with an abundance of features.

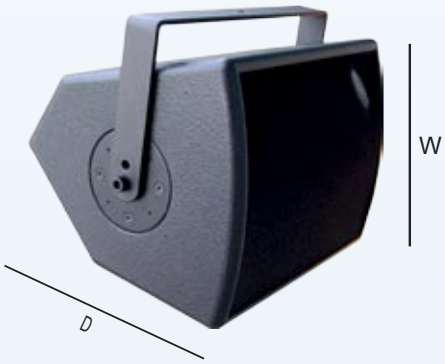
Picture showing two MF8 in an active system with two B1HPA self powered subwoofers. All amplification and processing are housed in the back of the subs, supplying high quality sound

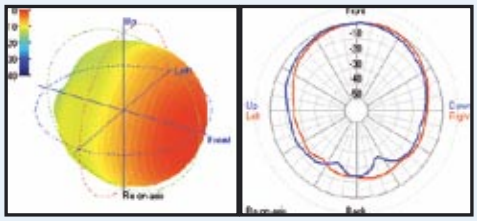
Features
- Top Hat for use with speaker stand or wall mount bracket.
- The top hat can be changed to a M10 plate for using installation bracket *(see picture)*
- Monitor angle for use as a high power compact stage monitor
- The handle is hidden when using as a monitor, for best visual experience.
- Fully covering, protective perfored steel grille, with minimum air flow resistance
- Fully covering protective speaker foam with minimum air flow resistance.
- Painted with a specially developed 2-component hardened paint.
- Rails for protecting against damage when using as a stage monitor.
- Sleek design
- Coaxial design for best dispersion pattern.
- 100° conical dispersion.

MF8

Bi-amplified multi function speaker







Technical data MF8	
Model	MF8
Low frequency driver	1 x 8”, 2,5”- voice coil,
High frequency driver	1 x 1”- throat exit driver, mounted on a conical horn
Construction	Bi-amped, passive crossover, Tuned bass reflex
Sensitivity	95 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	200W
Power Handling cont..	400W
Max SPL, open space (calc.)	121 @ 400W
frequency response +/- 6dB	60Hz - 19kHz
Vertical dispersion -6dB	100°
Horizontal dispersion -6dB	100°
Measurements H x W x D mm.	350 x 295 x 2745
Weight	10 kg.
Recommended crossover in an active system with subwoofers	HP@90-120Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P4700DSP, P3000 P1300, P3000DSP
Recommended pre-programmed DSP processors	PROPHON DSP26, PROPHON DX48, PROPHON DSP48
Recommended Powerage	200W - 400W
Connections (bi-amped version)	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installations. - Live performances. - Monitor. - Fullrange speaker - Mid/high in a PA- system with subwoofer
Accessories	- Transportation case - Flight ware for rigging - Installation bracket

MF10 / MF10A

Bi-amplified or self-powered, multi function speaker

Presentation

The PROPHON MF10 is a lightweight, two-way bi-amplified or self-powered (MF10A) Multi Purpose speaker with a 10”-neodymium woofer, and a 1”- compression driver mounted on an exponential turnable horn with a 60° 90° dispersion.
MF10 is one of the most versatile speakers on the market, with an abundance of features.
The MF10 was designed to be a true companion on the road, and can be used as a monitor, frontfill, side fill, down fill, delay, stand alone unit, mid/high with a Self-powered subwoofer in an active system (Prophon B18HPA, B2HPA, B1HPA, B4HPA)

The frequency response was carefully designed to be neutral and ”open” to ensure an uncoloured sound reproduction.
So whether using for recorded music, live applications or speech, the MF10 will reproduce the sound as it sounds without adding or subtracting vital information.
In short, the MF10 is all you need in a compact, high power, multi purpose, fullrange speaker & stage monitor!

MF10 are available in two versions:

- **Bi-amplified version** with built-in passive crossover network to use with external amplifier (using 1 amplifier channel)
- **Self-powered version** with a built in DSP-processed 700W class-D amplifier.

The self-powered version has a huge advantage with a built in 700W amplifier with on board DSP.
With 4 PRESETS for use in a variety of ways and setups.
- PRESET4) MID/HIGH, for use in a self-powered active sound system with a subwoofer
- PRESET3) Monitor, focus is put on the upper midrange to enhance the vocal frequency response
- PRESET2) Extended Fullrange, for use as a fullrange stand alone unit with extra punch.
- PRESET1) Flat Through, for use as a stage monitor, fullrange speaker, stand alone unit etc.

Features

- Volume control (active version)
- Built in limiter (active version)
- Top Hat for use with speaker stand or wall mount bracket.
- The top hat can be changed to a M10 plate for using flight ware or installation bracket *(see picture)*
- Monitor angle for use as a high power stage monitor
- The handle is hidden when using as a monitor, for best visual experience.
- Fully covering, protective perfored steel grille, with minimum air flow resistance
- Fully covering protective speaker foam.
- Painted with a specially developed 2-component hardened paint.
- Rails for protecting against damage when using as a stage monitor.
- Due to its compact size it is ideal for the event and rental business.

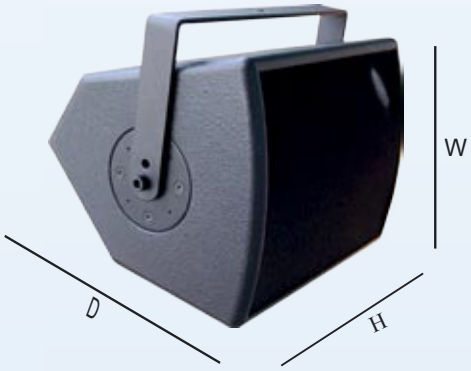
Picture showing two MF10A in an active rigg with two B1HPA self-powered subwoofers

MF10 / MF10A

Bi-amplified or self-powered, multi function speaker

Picture showing the built-in 700W class-D amplifier module with full DSP processing and 4 presets for choosing different setups.

The MF10 fitted with the UB10 installation bracket



There are two different cases available, fitting two or four MF10

Technical data MF10:	
Model	MF10, Passive Bi-amped MF10A, active, self-powered
Low frequency driver	1 x 10” Neodymium woofer, 2,5”-voice coil,
High frequency driver	1 x 1”- throat exit driver, with 1,7”- voice coil mounted on an exponential horn.
Construction	Bi-amped, passive crossover, Tuned bass reflex
Sensitivity	99 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	300W
Power Handling cont..	600W
Max SPL, open space (calc.)	127 @ 600W
frequency response +/- 6dB	50Hz - 19kHz
Vertical dispersion -6dB	60°
Horizontal dispersion -6dB	90°
Measurements H x W x D mm.	460 x 335 x 295
Weight	passive: 11,5 kg. Active: 12,6
Recommended crossover in an active system with subwoofers	HP@100Hz, 48dB/oct
Recommended Amplifier	PROPHON P4700DSP, P3000 P1300, P3000DSP
Recommended pre-programmed DSP processors	PROPHON DSP26, PROPHON DX48, PROPHON DSP48
Recommended Powerage	300W - 600W
Connections (bi-amped version)	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installations. - Live performances. - Monitor. - Fullrange speaker - Mid/high in a PA- system with subwoofer
Accessories	- Transportation case - Flight ware for rigging

Extended Technical information self-powered version	
Connections	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue
Mains Voltage Range	195 - 250 V_{ac}, 50/60Hz
Shutdown Voltage	250 V_{ac}
Minimum operation Voltage	195V_{ac}
Efficiency	>85% (typical)
Damping factor	> 500@100Hz, 200@1kHz
Distortion	<0,5% (THD, DIM, SMPTE)
Power	2 x 500W
S/N ratio	<105 dBA (20Hz - 20kHz A weighted)
Frequency response	10Hz - 30kHz

CXL122MP / CXL122MPA

12”/2”-Multi Purpose Speaker, bi-amplified or self-powered

Picture showing the built-in 700W class-D ampli-fier module with full DSP processing and 4 presets for choosing different setups.

Presentation: PROPHON CXL122MP and CXL122MPA
The PROPHON CXL122MP is a lightweight, compact, two-way Multi Purpose speaker housing a 12”- neodymium woofer, and a coaxially mounted 1,4”- neodymium driver mounted on a horn with a 80° conical dispersion, a dedicated passive crossover network handles the signal flow.

The coaxial design has many benefits; true point-source, equal dispersion over the whole frequency range, space saving design, to name but a few. CXL122MP is one of the most versatile speakers on the market, with an abundance of features and applications such as:
High power stage monitor, stand alone fullrange speaker, drum fill, side fill, frontfill, delay system, installed as a mid / high speaker, in an active bi-amped system with any of the PROPHON subwoofers. The cabinet is manufactured from 18 mm. birch-plywood with high precision fully computer-controlled CNC-machines, and painted with a specially developed two-component hardened paint. Protected by a 1,5 mm thick, fully covering, perfored steel grille with a speaker foam in front, both with minimum air flow resistance and acoustic interference.

Discretely hidden in one of the two handles there is a 35 mm. top hat for mounting on a stand.
The CXL122MP (A) has four cargo restraint tracks for rigging, flying and installing, a monitor angle for use as a stage monitor, protective rails and tilting hardware in the back.

In short, the CXL122MP is all you need in a compact, high power, multi purpose, fullrange speaker.

CXL122MP are available in two versions:
- **Bi-amplified version** with built-in passive crossover network to use with external amplifier.
- **Self-powered version** with built in 700W class-D amplifier. (CXL122MPA)

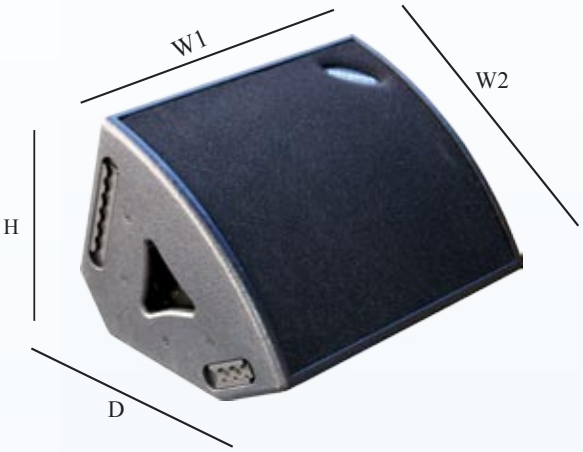
The self-powered version has a huge advantage with a built in 700W amplifier with on-board DSP.
With 4 PRESETS for use in a variety of ways and setups.
- PRESET4) MID/HIGH, for use in a self-powered active sound system with a subwoofer
- PRESET3) Monitor, focus is put on the upper midrange to enhance the vocal frequency response
- PRESET2) Extended Fullrange, for use as a fullrange stand alone unit with extra punch.
- PRESET1) Flat Through, for use as a stage monitor, fullrange speaker, stand alone unit etc.

Picture showing CXL122MP in an active system, with the self-powered subwoofer B1HPA

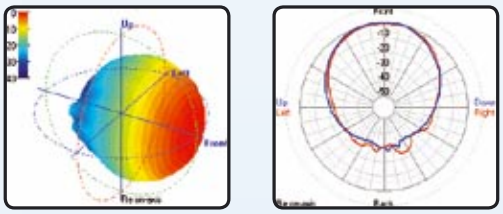
Features
- Volume control (active version)
- Built in limiter (active version)
- Top Hat for use on a speaker stand.
- Monitor angle for use as a high power stage monitor
- Two handles
- Four flight rails for rigging and installing with any or our flight ware.
- Fully covering, protective perfored steel grille with minimum air flow resistance and interference.
- Fully covering protective speaker foam with minimum air flow resistance and interference.
- Painted with a specially developed 2-component hardened paint.
- Rails for protecting against damage when using as a stage monitor.
- Compact high power design perfect for the rental industries.

CXL122MP / CXL122MPA

12”/2”-Multi Purpose Speaker, bi-amplified or self-powered



Picture showing flight rails for rigging and top-hat for using with a speaker stand



Picture showing dispersion pattern, in 3D and 2D. complete CLF-files are available for use in advanced simulation software.

Technical data CXL122MP:	
Model	CXL122MP (passive, bi-amplified) CXL122MPA (active, self-powered)
Low frequency driver	1 x 12” Neodymium woofer, 3”- voice coil
High frequency driver	1 x 1,4”- throat exit neodymium driver, with 3”- voice coil
Construction	Bi-amped, passive crossover, Tuned bass reflex
Sensitivity	100 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	400W
Power Handling cont..	800W
Max SPL, open space (calc.)	129 @ 800W
frequency response +/- 6dB	50Hz - 19kHz
Vertical dispersion -6dB	80°
Horizontal dispersion -6dB	80°
Measurements H x W1 x D x W2	350 x 500 x 420 x 445 mm.
Weight	17 kg.
Recommended crossover in an active system with subwoofers	HP@90-120Hz 24-48dB/oct
Recommended Amplifier	PROPHON P3000DSP, P3000
Recommended pre-programmed DSP processors	PROPHON DSP260, PROPHON DSP480
Recommended Powerage	400W - 800W
Connections	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installations. - Live performances. - Monitor. - Fullrange speaker - Mid/high in a PA- system with subwoofer.
Accessories	- Flight ware for rigging and installing. - Speaker stand. - transportation case

Extended Technical information self-powered version	
Connections	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out Neutrik powercon grey
Mains Voltage Range	195 - 250 V_{ac}, 50/60Hz
Shutdown Voltage	250 V_{ac}
Minimum operation Voltage	195V_{ac}
Efficiency	>85% (typical)
Damping factor	> 500@100Hz, 200@1kHz
Distortion	<0,5% (THD, DIM, SMPTE)
Power	750W
S/N ratio	<105 dBA (20Hz - 20kHz A weighted)
Frequency response	10Hz - 30kHz

CXL152MP / CXL152MPA

15”/2”-Multi Purpose Speaker, bi-amplified or self-powered

Presentation: PROPHON CXL152MP and CXL152MPA

The PROPHON CXL152MP is a lightweight, two-way Multi Purpose speaker, housing a 15”- neodymium woofer with a coaxially mounted 2”- neodymium driver on a horn with a 80° conical dispersion.
It has a sophisticated, dedicated passive crossover network.
The coaxial design has many benefits; true point-source, equal dispersion over the whole frequency range, space saving design gives a relative small sized cabinet, to name but a few.
CXL152MP is one of the most versatile speakers on the market, with an abundance of features and applications such as: high power Stage monitor, stand alone fullrange speaker, drum fill, side fill, frontfill, delay system, installed, used as a powerful top speaker in an active bi-amped or self-powered system with any of the PROPHON subwoofers. *(please see separate data sheet for our range of subwoofers)*

The cabinet is manufactured from 18 mm. birch-plywood using high precision fully computer-controlled CNC-machines, and painted with a specially developed two-component hardened paint.
The components are protected by a 1,5 mm thick, fully covering, perfored steel grille with a speaker foam in front, both with minimum air flow resistance and acoustic interference.
Discretely hidden in one of the two handles there is a 35mm. top hat for mounting on a stand.
The CXL152MP has four cargo restraint tracks for rigging, flying and installing, it has a monitor angle for use as a stage monitor, there are protective rails mounted on the monitor angle and a tilting hardware in the back.

CXL152MP are available in two versions:
- **Bi-amplified version** with built-in passive crossover network to use with external amplifier,
- **Self-powered version** with built in 700W class-D amplifier. (CXL152MPA)

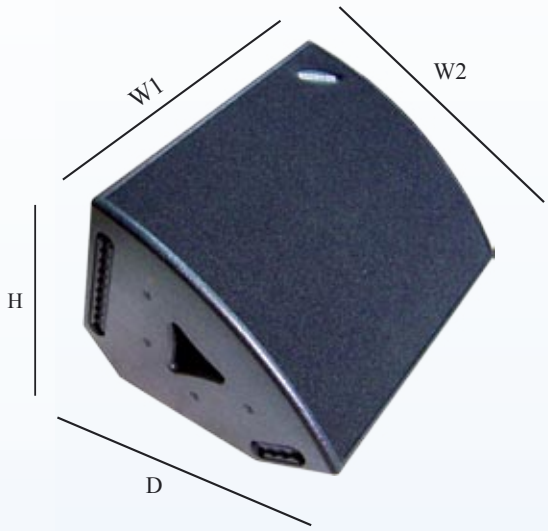
The self-powered version has a huge advantage with a built in 700W amplifier with on-board DSP.
With 4 PRESETS for use in a variety of ways and setups.
- PRESET4) MID/HIGH, for use in a self-powered active sound system with a subwoofer
- PRESET3) Monitor, focus is put on the upper midrange to enhance the vocal frequency response
- PRESET2) Extended Fullrange, for use as a fullrange stand alone unit with extra punch.
- PRESET1) Flat Through, for use as a stage monitor, fullrange speaker, stand alone unit etc.

Picture showing the built-in 700W class-D amplifier module with full DSP processing and 4 presets for choosing different setups.

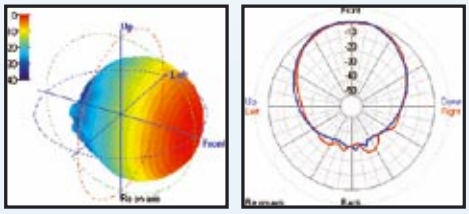
Features
- Volume control (active version)
- Built in limiter (active version)
- Top Hat for use on a speaker stand.
- Monitor angle for use as a high power stage monitor
- Two handles
- Four flight rails for rigging and installing with any or our flight ware.
- Fully covering, protective perfored steel grille with minimum air flow resistance and interference.
- Fully covering protective speaker foam with minimum air flow resistance and interference.
- Painted with a specially developed 2-component hardened paint.
- Rails for protecting against damage when using as a stage monitor.
- Compact high power design perfect for the rental industries.

CXL152MP / CXL152MPA

15”/2”-Multi Purpose Speaker, bi-amplified or self-powered



Picture showing flight rails for rigging and top-hat for using with a speaker stand



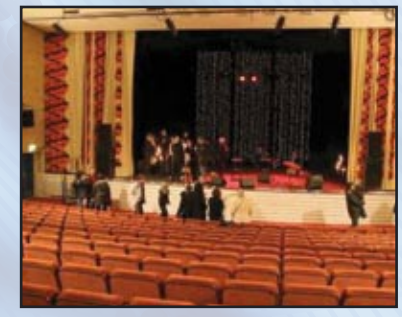
All our loudspeakers have files for downloading and using in any prediction software

Technical data CXL152MP:	
Model	CXL152MP (passive, bi-amplified CXL152MPA (active, self-powered)
Low frequency driver	1 x 15” Neodymium wooferr, 3”- voice coil
High frequency driver	1 x 1,4”- throat exit neodymium driver, with 3”- voice coil
Construction	Bi-amped, passive crossover Tuned bass reflex
Sensitivity	100 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	500W
Power Handling cont..	1000W
Max SPL, open space (calc.)	130 @ 1000W
frequency response +/- 6dB	50Hz - 19kHz
Vertical dispersion -6dB	80°
Horizontal dispersion -6dB	80°
Measurements H x W1 x D x W2	420 x 600 x 520 x 550 mm.
Weight	21 kg.
Recommended crossover in an active system with subwoofers	HP@100Hz, 48dB/oct
Recommended Amplifier	PROPHON P4700DSP PROPHON P4200
Recommended pre-programmed DSP processors	PROPHON DSP26, PROPHON DX48, PROPHON DSP48
Recommended Powerage	500W - 1000W
Connections	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installations. - Live performances. - Monitor. - Fullrange speaker - Mid/high in a PA- system with subwoofer
Accessories	- Transportation case - Flight ware for rigging

Extended Technical information self-powered version	
Connections	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out Neutrik powercon grey
Mains Voltage Range	195 - 250 Vac, 50/60Hz
Shutdown Voltage	250 Vac
Minimum operation Voltage	195Vac
Efficiency	>85% (typical)
Damping factor	> 500@100Hz, 200@1kHz
Distortion	<0,5% (THD, DIM, SMPTE)
Power	2 x 500W
S/N ratio	<105 dBA (20Hz - 20kHz A weighted)
Frequency response	10Hz - 30kHz

FULLRANGE SPEAKERS

Portable, Self-powered and bi-amplified



FULLRANGE SPEAKERS
Portable, Self-powered and bi-amplified

Our portable fullrange speakers were designed for live applications and recorded music, for use in clubs or other performances, either with live musicians or DJ´s.
High sensitivity, low distortion and a light weight has made this range of speakers almost legendary in our domestic market.
All models are available in passive, bi-amplified versions with built-in passive crossover networks, and active, self-powered versions with built-in class-D amplifiers.
We recommend the HP range of subwoofers for extended low frequency response.
All speakers comes with flight-rails for rigging, flying or when installing. The smaller speakers have a top hat for mounting on a speaker stand, the larger models (222 and F3) have stacking rails that fit onto the HP-range of subwoofers, for stacking and riggning safe and easy, all our processors and DSP amplifiers have presets for down loading from our web site. The amplifier P3000DSP are the perfect partner to the portable fullrange series, with six built-in DSP processors, also managing an external amplifier (P10000) for subwoofers
(Please see the amplifiers and DSP processors section further on in this catalogue)

Features
- Two-way passive portable fullrange speakers
- Two-way active portable fullrange speakers
- A wide range of models to chose from, depending on application and event.
- Can be used as stand-alone fullrange speakers or with the HP-range of subwoofers in powerful sound systems
- Handles, flight-rails, stacking rails as standard.
- Rigging hardware, installation hardware and gig-bags available.
- Painted with a specially developed 2-component hardened lacque for year after year of on-the-road use.
- The smaller speakers have top hats for mounting on speaker stands or speaker poles.
- Light weight neodymium components
- Low distortion levels and high sensitivity

Picture showing the active rigg A8, with 2 pcs. of the B6HPA and 2 pcs. of the 222A

Picture showing the self-powered 1500W class-D amplifier module with 4 presets.

Technical specifications

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m)	Nominell Impedance	Power handling	Size / mm. H x W x D	Dispersion H x V	Low frequency driver	High frequency driver
F12H	2-way passive	50Hz-19kHz	99 dB	8 ohm	350W	50 x 40/30 x 50	80 x 60	12”	1”
F122H	2-way passive	45Hz-18kHz	99 dB	8 ohm	450W	50 x 40/30 x 50	60 x 40	12”	2”
222	2-way passive	40Hz-18kHz	102 dB	4 ohm	800W	100 x 50/40 x 50	120 x 60	2 x 12”	2”
F3	2-way passive	35Hz-18kHz	102 dB	4 ohm	1000W	120 x 60/50 x 55	120 x 60	2 x 15”	2”

SUBWOOFERS

Self-powered and bi-amplified

SUBWOOFERS

Self-powered and bi-amplified

Subwoofers by Prophon

All our subwoofers were designed and developed with the latest simulation and prediction soft wares, in combination with feedback from our customers and over 35 years of experience in designing loudspeakers. We even test vibrations in the cabinets to be able to reinforce the wood in the right places to eliminate vibrations, thus raising the Max SPL considerably.

Every tour subwoofer model comes in two versions:
Passive (bi-amplified) where an external amplifier and DSP must be used to control and power the woofer.
Active (self-powered) where there are two built-in amplifiers (2 x 1050W) in the loudspeaker, supplying the cone-speakers with DSP-processed amplification.

Single cone woofers have the additional 1050W@8ohms DSP-processed amplifier addressed to the Neutrik speakon output, for use with an external passive (bi-amplified) slave-woofer, or to a passive fullrange speaker in an active sound system, selecting any of the 4 presets, depending on setup.

Double cone woofers (B2HP, B6HP) use both the built-in amplifier to drive the two woofers, with 1050W / 8 ohm to each woofer, (total of 2100W / 8 ohm)

Sensitivity and Max SPL are specified in two ways
1) Sensitivity of the cone driver, with the cont.. power handling as reference (97dB @ 1000W cont..= 127dB max SPL)
2) 2pi (half space) sensitivity, with a +3dB coupling effect, with max cont. power handling x 4 (crest factor 6) as reference
   97dB+3dB @ 1000W cont. (4000W peak) = 136 dB max SPL peak

As you can see, the Max SPL differ with 9 dB, depending on how you specify and calculate, we use both methods to give you a fair idea of what the subwoofers can achieve compared to our competitors,

B4HP / B4HPA

1 x 12”- Subwoofer, Bi-amplified / self-powered

Features B4HP:
- Small size - big sound.
- Two handles.
- M20 / 35mm. top hat.
- Stacking rails.
- High power 12”- woofer. (2000W cont.)
- Prepared for four castors (not included).
- Fully covering protective perfored steel grille with speaker foam.
- 18 mm. birch plywood.
- Special two-component hardened paint.
- Two versions, active and passive
- High quality components made in Europe.
- Designed and manufactured in Sweden.
- Two pcs. of the B4HPA can drive either a complete sound system with top speakers, or two extra passive B4HP as slaves.

Presentation: PROPHON B4HP
The Prophon B4HP was designed as a small sized, compact, high power, low frequency subwoofer, for use in live applications and for recorded music either installed or as a PA speaker.
The design is a tuned bass port construction for reproducing natural sounding, controlled, low frequencies.
The powerful 12”- driver has been developed to satisfy the high demands put on today´s subwoofers in performance, power handling and Max SPL. This has been ensured using double spider technology, reinforced cone structure and vented magnet assembly.
The cabinet is manufactured from 18 mm. birch-plywood with high precision fully computerized CNC-machines, and painted with a specially developed two-component hardened paint.
The 12”- woofer are protected by a 1,5 mm thick, fully covering, perfored steel grille with a speaker foam in front, both with minimum air flow resistance and acoustic interference.
With the speaker stand kit you can easily rig any of the PROPHON range of fullrange speakers on a stand.

B4HP comes in two versions
- Standard passive / bi-amplified) version where an external amplifier are used to power the speaker *(PROPHON P4200, P10000, PL1600, P3000 or P3000DSP, see the electronics section in this brochure)*
- Active (self-powered) version with built in class-D amplifier *(see extended information below)*

The active version (B4HPA)
Fully DSP processed built-in amplifier, with on-board, high definition signal processors,
The B1HPA houses two separately controlled 1050W @ 8 ohm amplifiers, (total output power 2100W@8ohm) where one amplifier drives the 12” woofer, and the other amplifier are assigned to the Neutrik Speakon output, driving either a passive B1HP as a slave, or a fullrange speaker, depending on which program are selected.
The gain can be individually adjusted on each amplifier to set the balance in a sound system.

There are 4 presets setups:
1) Internal amplifier and speakon out has identical setup, enabling a B4HP to be powered as a slave,
2) Internal amplifier drives the internal 12” woofer, the speakon out are designed for use with a passive fullrange speaker, where the volume control next to the speakon output can be used to adjust the balance of the system.
3) Internal amplifier drives the internal 12” woofer, Speakon out drives a B4HP as slave in a cardioid pattern (see instruction manual for proper setup, and how to place and space the two woofers)
4) Internal amplifier drives the internal 12” woofer in a cardioid pattern, the speakon out are designed for use with a passive fullrange speaker. (this setup can only be used with another B4HPA, using preset 1)

B4HP / B4HPA

1 x 12”- Subwoofer, Bi-amplified / self-powered

Picture showing the active module with Neutrik powercon in/out, Neutrik XLR in / through, Speakon out to either a passive B4HP to drive it as a slave, or to a passive fullrange speaker to be used as a top in an active sound system.

2 x B4HPA in an active, self-powered system with 2 pcs of the MF8 passive multipurpose fullrange speaker, where the B4HP also supplies the MF8 with amplification and signal processing.

Technical data B4HP:	
Model	B4
Low frequency driver	1 x 12” woofer 4”- voice coil
Construction	Tuned bass reflex
Sensitivity (open space)	98 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S. / cont..	1000W / 2000W
Max SPL, half space (calc.)	134dB @ 2000W
frequency response +/- 6dB	35Hz - 500Hz
Measurements H x W x D mm.	500 x 400 x 500
Weight	20 kg.
Recommended crossover Passive version	LP@80-120Hz, 24-48dB/oct HP@35Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P10000, P3000, P3000DSP
Recommended pre-programmed DSP processors	PROPHON DSP260, DSP480
Recommended Powerage	500W - 2000W
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through, 2+ / 2- Link
Applications	- Fixed Installation - Live performances
Accessories	- Castors, front-cover, - Speaker Stand Kit - Flight ware, wheelplate

Extended technical specifications B4HPA, with 2x1050W built-in amplifier	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey Amplifier out Neutrik speakon (1+/1-)
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range
Input current (195-250V ac 1/8 max output power)	2,9 Arms
Input current (95-125V ac 1/8 max output power)	5,5 Arms
Consumption (1/8 max output power)	410VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	281,7 BTU/h
Thermal emission (1/4 power @ 4 ohm)	464,3 BTU/h
Gain	38 dB (voltage gain: x 80)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N	< 0,05% from 0,1W to full power

B1HP / B1HPA

1 x 15”- Subwoofer, Bi-amplified / self-powered

Presentation: PROPHON B1HP
The Prophon B1HP was designed as a small sized high power low frequency subwoofer for use in live applications and for recorded music either installed or as a PA speaker. The design is a tuned frontloaded bass port construction for reproducing natural sounding, controlled, low frequencies. The powerful 15”- driver has been developed to satisfy the high demands put on today´s subwoofers in performance, power handling and Max SPL, this has been ensured using double spider technology, reinforced cone structure, and vented magnet assembly.
The cabinet is manufactured from 18 mm. birch-plywood with high precision fully computerized CNC-machines, and painted with a specially developed two-component hardened paint.
The 15”- woofer are protected by a 1,5 mm thick, fully covering, perfored steel grille with a speaker foam in front, both with minimum air flow resistance and acoustic interference. B1HP are prepared for four castors to be mounted in the back.
With the speaker stand kit you can easily rig any of the PROPHON range of fullrange speakers on a stand.

B1HP comes in two versions
- Standard passive / bi-amplified) version where an external amplifier are used to power the speaker *(PROPHON P4200, P5600, P3000 or P3000DSP, see the electronics section in this brochure)*
- Active (self-powered) version with built in class-D amplifier *(see extended information below)*

The active version (B1HPA)
Fully DSP processed built-in amplifier, with on-board, high definition signal processors,
The B1HPA houses two separately controlled 1050W @ 8 ohm amplifiers, (total output power 2100W@8ohm) where one amplifier drives the 15” woofer, and the other amplifier are assigned to the Neutrik Speakon output, driving either a passive B1HP as a slave, or a fullrange speaker, depending on which program are selected.
The gain can be individually adjusted on each amplifier to set the balance in a sound system.

There are 4 presets setups:
1) Internal amplifier and speakon out has identical setup, enabling an external B1HP to be powered as a slave.
2) Internal amplifier drives the internal 15” woofer, Speakon out are designed for use with a passive fullrange speaker, where the volume control next to the speakon output can be used to adjust the balance of the system.
3) Internal amplifier drives the internal 15” woofer, Speakon out drives a B1HP as slave in a cardioid pattern (see instruction manual for proper setup, and how to place and space the two woofers)
4) Internal amplifier drives the internal 15” woofer in a cardioid pattern, Speakon out are designed for use with a passive fullrange speaker. (this setup can only be used with another B1HPA, using preset 2)

Features B1HP:
- Small size - big sound.
- Stacking rails.
- Prepared for four castors.
- Fully covering protective perfored steel grille with speaker foam.
- Two versions, Active and passive
- High quality components made in Europe.
- Two specially designed handles.
- High power 15”- woofer. (2000W cont..)
- 18 mm. high quality birch plywood
- Special two-component hardened paint.
- M20 / 35mm. top hat.
- Designed and manufactured in Sweden.

- Two pcs. of the active B1HPA can drive either a complete sound system with two passive fullrange speakers, or two extra passive B1HP as slaves, either in standard mode or in cardioid mode.

B1HP / B1HPA

1 x 15”- Subwoofer, Bi-amplified / self-powered

Picture showing the active module with Neutrik powercon in/out, Neutrik XLR in / through, Speakon out to either a passive B1HP to drive it as a slave, or to a passive fullrange speaker to be used as a top in an active sound system.

2 x B1HPA in the active rigg A2 with 2 x MF10 fullrange speakers (see portable sound systems)

Technical data B1HP:	
Model	B1HP
Low frequency driver	1 x 15” woofer 4”- voice coil
Construction	Tuned bass reflex
Sensitivity (open space)	100 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S. / cont..	1000W / 2000W
Max SPL, half space (calc.)	136dB @ 2000W
frequency response +/- 6dB	30Hz - 500Hz
Measurements H x W x D mm.	500 x 500 x 600
Weight	30 kg.
Recommended crossover Passive version	LP@80-120Hz, 24-48dB/oct HP@35Hz, 24-48dB/oct
Recommended Amplifier	P10000, P3000, P3000DSP
Recommended pre- programmed DSP processors	DSP260 DSP480
Recommended Powerage	1000W - 2000W
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installation - Live performances - Stacked in an cardioid array, or single ended use.
Accessories	- Castors, front-cover, - Speaker Stand Kit - Flight ware, wheelplate

Extended technical specifications B1HPA, with 2x1050W built-in amplifier	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey Amplifier out Neutrik speakon (1+/1-)
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range
Input current (195-250V ac 1/8 max output power)	2,9 Arms
Input current (95-125V ac 1/8 max output power)	5,5 Arms
Consumption (1/8 max output power)	410VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	281,7 BTU/h
Thermal emission (1/4 power @ 4 ohm)	464,3 BTU/h
Gain	38 dB (voltage gain: x 80)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N	< 0,05% from 0,1W to full power

B18HP / B18HPA

1 x 18”- Subwoofer, Bi-amplified / self-powered

Presentation: PROPHON B18HP

The PROPHON B-Series subwoofer was designed for use with recorded music and for live applications, such as nightclubs, live stages, concert halls, auditorium etc. The B18HP Subwoofer is a Powerful subwoofer with one front-loaded single 18”- low frequency, high power transducer mounted in an extremely reinforced cabinet, with a vented tuned chamber.

The design was developed and engineered with advanced computer simulation software in close collaboration with some of our prophon users and customers, to satisfy the need in a high power subwoofer dedicated to reproducing controlled subwoofer frequencies with minimum distortion, for live applications or recorded music.

The 18”- transducer is specially designed to endure long hours of high performance low frequency transmission, with reinforced cone, double spider technology, 4” voice coil, and with ventilation chambers in the magnet for minimizing and diverting the heat, which also prolongs the lifetime of the speakers.

The woofer are protected by a fully covering 1,5 mm perfored steel grille and a speaker foam, both with minimum air flow resistance, so as not to influence the sound in a negative way.

The paint is a hardened two-component lacque, both of the above mentioned components combined with state of the art computerized CNC machines, ensures a very high quality, in the sound as well in the cabinet, guaranteeing a long lifetime with minimum service.

All woodwork and assembly are made in Sweden with a result that can clearly be seen when comparing quality and reliability with other brands, where assembly and manufacturing are often made in china or other developing countries.

In short: the B18HP is a very powerful subwoofer for use in a variety of applications in both live performances and fixed installations, in nightclubs, live stages, concert halls, festivals, bands etc.

Using several subwoofers and any of our pre-programmed DSP-processors, a Cardioid pattern can be achieved.

B18HP comes in two versions

- Standard passive / bi-amplified) version where an external amplifier are used to power the speaker *(PROPHON P4200, P5600, P3000 or P3000DSP, see the electronics section in this brochure)*
- Active (self-powered) version with built in class-D amplifier *(see extended information below)*

The active version (B18HPA)

Fully DSP processed built-in amplifier, with on-board, high definition signal processors,

The B18HPA houses two separately controlled 1050W @ 8 ohm amplifiers, (total output power 2100W@8ohm) where one amplifier drives the 18” woofer, and the other amplifier are assigned to the Neutrik Speakon output, powering either a passive B18HP as a slave, or a fullrange speaker, depending on which program are selected.

The gain can be individually adjusted on each amplifier to set the balance in a sound system.

There are 4 presets setups:

1) Internal amplifier and speakon out has identical setup, enabling a B18HP to be powered as a slave.
2) Internal amplifier drives the internal 18” woofer, Speakon out are designed for use with a passive fullrange speaker, where the volume control next to the speakon output can be used to adjust the balance of the system.
3) Internal amplifier drives the internal 18” woofer, Speakon out drives a B18HP as slave in a cardioid pattern (see instruction manual for proper setup, and how to place and space the two woofers)
4) Internal amplifier drives the internal 18” woofer in a cardioid pattern, Speakon out are designed for use with a passive fullrange speaker. (this setup can only be used with another B18HPA, using preset 2)

B18HP / B18HPA

1 x 18”- Subwoofer, Bi-amplified / self-powered

Features B18HP:

- Compact size - big sound.
- Two specially designed handles.
- M20 / 35mm. top hat
- Stacking rails.
- High power 15”- woofer. (2000W cont..)
- Prepared for four castors (not included).
- Fully covering protective perfored steel grille with speaker foam.
- 18 mm. high quality birch plywood
- Special two-component hardened paint.
- Two versions, Active and passive
- High quality components made in Europe.
- Two pcs. of the self-powered B18HPA can drive either a complete sound system with top speakers, or two extra passive B18HP as slaves.

Picture showing the active module with Neutrik powercon in/out, Neutrik XLR in / through, Speakon out to either a passive B18HP to drive it as a slave, or to a passive fullrange speaker to be used as a top in an active sound system.

Picture showing 1 ps of the B18HPA, and 1 pc of the B18HP stacked, where B18HPA drives the B18HP as a slave, suplying 1050W@8ohms

Technical data B18HP:	
Model	B18HP
Low frequency driver	1 x 18” woofer 4”- voice coil
Construction	Tuned bass reflex
Sensitivity (open space)	100 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S. / cont..	1200W / 2400W
Max SPL, half space (calc.)	137dB @ 2400W
frequency response +/- 6dB	25Hz - 500Hz
Measurements H x W x D mm.	600 x 600 x 650
Weight	45 kg.
Recommended crossover for passive version	LP@80-120Hz, 24-48dB/oct HP@35Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P10000, 44200
Recommended pre-programmed DSP processors	PROPHON DSP260, DSP480
Recommended Powerage	1000W - 2000W @ 8 ohm
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through, 2+ / 2- Link
Applications	- Fixed Installation - Live performances - Stacked in an cardioid array, or single ended use.
Accessories	- Castors, front-cover, - Speaker Stand Kit - Flight ware, wheelplate
Extended technical specifications B18HPA, with 2x1050W built-in amplifier	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey Amplifier out Neutrik speakon (1+/1-)
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range
Input current (195-250V ac 1/8 max output power)	2,9 Arms
Input current (95-125V ac 1/8 max output power)	5,5 Arms
Consumption (1/8 max output power)	410VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	281,7 BTU/h
Thermal emission (1/4 power @ 4 ohm)	464,3 BTU/h
Gain	38 dB (voltage gain: x 80)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N	< 0,05% from 0,1W to full power

B2HP / B2HPA

2 x 15”- Subwoofer, Bi-amplified / self-powered

Presentation: PROPHON B2HP
The PROPHON B2HP subwoofer was designed for use with recorded music and for live applications, such as nightclubs, live stages, concert halls, auditorium etc. The B2HP Subwoofer is a compact 2x15”- woofer with separately vented, tuned chambers.
The B2HP as a prophon subwoofer model has been around for over three decades, where there is next to no similarity in the B2HP of today compared to the first version, except the size. The first B2HP subwoofer had two 15” woofers with the, in those days, ”staggering” effect of 2 x 300W, which was more than enough in those days...
Today, with the ever growing demand in high SPL, compact size and almost laughable effect from power amplifiers (see Prophon P10000 with 2x5000W / 2 ohm load), the B2HP subwoofer houses two specially designed 2kW 15” High Power woofers with impressive data that allows the B2HP subwoofer to endure long hours of high performance low frequency transmission.
With reinforced ribbed cone, double silicone spider, 4” voice coil with two separately wound copper-coils, ventilated voice coil gap for reduced power compression and diverting the heat away from the magnet, thus prolonging the lifetime of the woofer.

The design was developed and engineered with advanced computer simulation software in close collaboration with some of our customers, to satisfy the need in a high power subwoofer dedicated to reproducing controlled sub frequencies with minimum distortion and material vibration. Using separately vented chambers minimizes distortion and influence between the two 15”- woofers.

The woofers are protected by a fully covering 1,5 mm perfored steel grille and a speaker foam, both with minimum air flow resistance, so as not to influence the sound in a negative way.
The paint is a hardened two-component lacque, both of the above mentioned components combined with state of the art computerized CNC machines, ensures a long lifetime of the cabinet, with minimum service.
All woodwork and assembly are made in Sweden with a result that can clearly be seen when comparing quality and reliability with other brands,

In short: the B2HP is the perfect subwoofer where a tight and powerful sub with high SPL and low distortion is preferred.
With a long life span, low service and high quality sound.

B2HP comes in two versions
- Standard passive (bi-amplified) version where an external amplifier are used to power the speaker *(PROPHON P4200, P10000, see the electronics section in this brochure)*
- Active (self-powered) version with built in class-D amplifier *(see extended information below)*

The active version (B2HPA)
Fully DSP processed built-in amplifier, with on-board, high definition signal processors,
The B2HPA houses two separately controlled 1050W @ 8 ohm amplifiers, (total output power 2100W@8ohm).
Each 15” woofer has a 1050W@8 ohm dedicated, DSP-controlled amplifier.

There are 4 presets setups in the active version:
1) HP-filter@90Hz
2) HP-filter@110Hz
3) Cardioid setup to be used with another B2HPA using preset 1 *(see separate data sheet for proper system setup)*
4) Cardioid setup to be used with another B2HPA using preset 2 *(see separate data sheet for proper system setup)*

Features B2HP:
- Compact size - massive sound.
- Two handles.
- M20 / 35mm. top hat
- Stacking rails.
- High power 15”- woofer. (2000W cont..)
- Prepared for four castors (not included).
- Fully covering protective perfored steel grille with speaker foam.
- 18 mm. high quality birch plywood
- Special two-component hardened paint.
- Two versions, Active and passive
- High quality components made in Europe.
- High SPL / low distortion
- Designed and manufactured in Sweden

B2HP / B2HPA

2 x 15”- Subwoofer, Bi-amplified / self-powered

Picture showing the active 2100W module with Neutrik powercon in/out, Neutrik XLR in / through, volume control and preset selector.

Separately vented chambers so as the cone-speakers do not interfere with each other

The woofers are specially designed to produce High Power with low distortion

Technical data B2HP:	
Model	B2HP
Low frequency driver	2 x 15” woofer, 4”- voice coil
Construction	Tuned bass reflex, frontloaded
Sensitivity (open space)	103 dB@1W/1m.
Nominal impedance	4 ohm
Power handling R.M.S. / cont..	2400W / 4800W
Max SPL, half space (calc.)	139dB @ 4800W
frequency response +/- 6dB	30Hz - 500Hz
Measurements H x W x D mm.	1000 x 500 x 550
Weight	52 kg.
Recommended crossover for passive version	LP@80-120Hz, 24-48dB/oct HP@35Hz, 24-48dB/oct
Recommended Amplifier for passive version	PROPHON P10000, P4200
Recommended pre-programmed DSP processors	PROPHON DSP260, DSP480
Recommended Powerage	1500W - 4800W @ 4 ohm
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installation - Live performances - Stacked in an cardioid array, or single ended use.
Accessories	- Castors, front-cover, - Speaker Stand Kit - Flight ware, wheelplate
Extended technical specifications B2HPA, with 2x1050W built-in amplifier	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range
Input current (195-250V ac 1/8 max output power)	2,9 Arms
Input current (95-125V ac 1/8 max output power)	5,5 Arms
Consumption (1/8 max output power)	410VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	281,7 BTU/h
Thermal emission (1/4 power @ 4 ohm)	464,3 BTU/h
Gain	38 dB (voltage gain: x 80)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N	< 0,05% from 0,1W to full power

B6HP / B6HPA

2 x 18”- Subwoofer, Bi-amplified / self-powered

Presentation: PROPHON B6HP
The PROPHON B-Series subwoofer was designed for use as a high power subwoofer with recorded music and for live applications, such as nightclubs, live stages, concert halls, auditorium etc.
The B6HP Subwoofer is a very powerful subwoofer with 2 x 18”- low frequency transducers mounted in an extremely reinforced cabinet, with separately vented, tuned chambers. The design was developed and engineered with advanced computer simulation software in close collaboration with some of our prophon users and customers, to satisfy the need in a high power subwoofer dedicated to reproducing controlled subwoofer frequencies with minimum distortion.

Using separately vented chambers minimizes distortion and influence between the two 18”- transducers.
The two 18”- transducers are specially designed to endure long hours of high performance low frequency transmission, with reinforced cone, double spider technology, 4” voice coil, and with ventilation chambers in the magnet for minimizing and diverting the heat, which also prolongs the lifetime of the speakers.

The woofers are protected by a fully covering 1,5 mm perfored steel grille and a speaker foam, both with minimum air flow resistance, so as not to influence the sound in a negative way. The paint is a hardened two-component lacque.
Both of the above mentioned components combined with state of the art computerized CNC machines when manufacturing, ensures a very high quality, in the sound as well in the cabinet, guaranteeing a long lifetime with minimum service.

All woodwork and assembly are made in Sweden with a result that can clearly be seen when comparing quality and reliability with other brands, where assembly and manufacturing are often made in china or in other developing countries.

In short: the B6HP is a very powerful subwoofer for use in a variety of applications in both live performances and fixed installations, in nightclubs, live stages, concert halls, festivals, bands etc.

B6HP comes in two versions
- **Standard passive version** (bi-amplified) where an external amplifier are used to power the speaker *(PROPHON P4200, P5600, P3000 or P3000DSP, see the electronics section in this brochure)*
- **Active version** (self-powered) with built in 2100W class-D amplifiers *(see extended information below)*

The active version (B6HPA)
Fully DSP processed built-in amplifier, with on-board, high definition signal processors,
The B6HPA houses two separately controlled 1050W @ 8 ohm amplifiers, (total output power 2100W@8ohm).
Each 18” woofer has a 1050W@8 ohm dedicated, DSP-controlled amplifier.

There are 4 presets setups:
1) HP-filter@90Hz
2) HP-filter@110Hz
3) Cardioid setup1, only to be used with another B6HPA using preset 1 *(see separate data sheet for proper system setup)*
4) Cardioid setup2, only to be used with another B6HPA using preset 2 *(see separate data sheet for proper system setup)*

Features B6HP:
- High SPL - low distortion
- Two handles on each side
- M20 / 35mm. top hat
- Stacking rails.
- High power 18”- woofer. (2400W cont.)
- Prepared for four castors (not included).
- Fully covering protective perfored steel grille with speaker foam.
- 18 mm. high quality birch plywood
- Special two-component hardened paint.
- Two versions, Active and passive
- High quality components made in Europe.
- Designed, assembled and manufactured in Sweden.

B6HP / B6HPA

2 x 18”- Subwoofer, Bi-amplified / self-powered

Picture showing an active rigg with 2 pcs. of the B6HPA and 2 pcs. of the 222A (See self-powered sound systems for more information)

Technical data B6HP:	
Model	B6HP
Low frequency driver	2 x 18” woofer, 4”- voice coil
Construction	Tuned bass reflex
Sensitivity (open space)	103 dB@1W/1m.
Nominal impedance	4 ohm
Power handling R.M.S. / cont..	2400W / 4800W
Max SPL, half space (calc.)	140dB @ 4800W
frequency response +/- 6dB	25Hz - 500Hz
Measurements H x W x D mm.	1200 x 600 x 650
Weight	80 kg.
Recommended crossover for passive version	LP@80-120Hz, 24-48dB/oct HP@35Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P10000
Recommended pre-programmed DSP processors	PROPHON DSP260, DSP480
Recommended Powerage	1500W - 5000 @ 4 ohm
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through, 2+ / 2- Link
Applications	- Fixed Installation - Live performances - Stacked in an cardioid array, or single ended use.
Accessories	- Castors, front-cover, - Speaker Stand Kit

Extended technical specifications B6HPA, with 2x1050W built-in amplifiers	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range
Input current (195-250V ac 1/8 max output power)	2,9 Arms
Input current (95-125V ac 1/8 max output power)	5,5 Arms
Consumption (1/8 max output power)	410VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	281,7 BTU/h
Thermal emission (1/4 power @ 4 ohm)	464,3 BTU/h
Gain	38 dB (voltage gain: x 80)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N	< 0,05% from 0,1W to full power

Picture showing the active 2100W module with Neutrik powercon in/out, Neutrik XLR in / through, volume control and preset selector.

B21HP / B21HPA

1 x 21”- Subwoofer, Bi-amplified / self-powered

Presentation: PROPHON B21HP
The PROPHON B21HP infra sub, is by our knowledge the most powerful woofer available, with its 4kW continues power handling. Designed to be used as a complement to 18” or 15” woofers in large , producing those bone-shaking, earth-trembling lowest frequencies down to 20 Hz.
The woofer, weighing an impressive 18,5 kg., have a massive voice-coil diameter of 6” and a 60 mm. peak to peak excursion, the neodymium magnet has an extremely high force factor and linear excursion.
With double silicone spider, ventilated voice-coil gap for reducing power compression, and an aluminium demodulating ring for very low distortion.
The B21HP has the same width (600 mm.) as the single 18” woofer PROPHON B18HP, allowing for easy combinations and rigging.

The woofer are protected by a fully covering 1,5 mm perfored steel grille and a speaker foam, both with minimum air flow resistance, so as not to influence the sound in a negative way. The paint is a hardened two-component lacque.
Both of the above mentioned components combined with state of the art computerized CNC machines when manufacturing, ensures a very high quality, in the sound as well in the cabinet, guaranteeing a long lifetime with minimum service.

All woodwork and assembly are made in Sweden with a result that can clearly be seen when comparing quality and reliability with other brands, where assembly and manufacturing often are made in china or in other developing countries.

B21HP comes in two versions
- **Standard passive version** (bi-amplified) where an external amplifier are used to power the speaker *(PROPHON P4200, P5600 see the electronics section in this brochure)*
- **Active version** (self-powered) with built in 1500W class-D amplifiers *(see extended information below)*

The active version (B21HPA)
Fully DSP processed built-in amplifier, with on-board, high definition signal processors,
The B21HPA houses a 1500W @ 8 ohm amplifier with dedicated on-board DSP.

There are 4 presets setups:
1) HP-filter@70Hz
2) HP-filter@90Hz
3) Cardioid setup1, only to be used with another B21HPA using preset 1
   (see separate data sheet for proper system setup)
4) Cardioid setup2, only to be used with another B21HPA using preset 2
   (see separate data sheet for proper system setup)

B21HP / B21HPA

1 x 21”- Subwoofer, Bi-amplified / self-powered

Features B21HP:

- High SPL - low distortion
- Infra sub, covering the lowest frequencies
- Two handles
- M20 / 35mm. top hat
- Stacking rails.
- High power 21”- woofer. (4000W cont..)
- Prepared for four castors (not included).
- Fully covering protective perfored steel grille with speaker foam.
- 18 mm. high quality birch plywood
- Special two-component hardened paint.
- Two versions, Active and passive
- High quality components made in Europe.
- Designed, assembled and manufactured in Sweden.

High quality components and inovative designs, here showing the 4kW woofer, and the newly designed, easy to use, handle

Picture showing the B21HPA in the ”clubland” self-powerd sound system. Acting as an infra sub, together with a B18HPA, CLV215A and CLH81A.

Technical data B21HP:	
Model	B21HP
Low frequency driver	1 x 21” woofer, 6”- voice coil
Construction	Tuned bass reflex
Sensitivity (open space)	99 dB@1W/1m.
Nominal impedance	4 ohm
Power handling R.M.S. / cont..	2000W / 4000W
Max SPL, half space (calc.)	138dB @ 4800W
frequency response +/- 6dB	20Hz - 500Hz
Measurements H x W x D mm.	800 x 600 x 650
Weight	50 kg.
Recommended crossover for passive version	LP@60-80Hz, 24-48dB/oct HP@20Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P10000
Recommended pre-programmed DSP processors	PROPHON DSP260, DSP480
Recommended Powerage	2000W - 4000W @ 4 ohm
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through, 2+ / 2- Link
Applications	- Fixed Installation - Live performances - Stacked in an cardioid array, or single ended use.
Accessories	- Castors, front-cover, - Speaker Stand Kit
Extended technical specifications B21HPA, with 1500W built-in amplifier	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range
Input current (195-250V ac 1/8 max output power)	2,2 Arms
Input current (95-125V ac 1/8 max output power)	3,6 Arms
Consumption (1/8 max output power)	270VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	213,4 BTU/h
Thermal emission (1/4 power @ 4 ohm)	402,9 BTU/h
Gain	32 dB (voltage gain: x 40)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N / SMPTE IMD	< 0,05% from 0,1W to full power

HB212 / HB212A

2 x 12”- Horn loaded arena subwoofer, Bi-amplified / self-powered

Presentation: PROPHON HB212
When it comes to large venues, places of worship, festivals, concerts and nightclubs, **the PROPHON HB212 will blow you away!**
With a staggering max SPL of 144dB (45-100Hz), and a frequency range coverage down to 25 Hz (-6dB)
HB212 delivers a sound that can only be described as ”natural” where all low-frequency-instrument will be present in an unsurpassed clarity and accuracy, thanks to the special horn design and the specially designed high power neodymium 12”-woofers. The horn design ensures long-throw coverage, making the subwoofer ideal for using outdoor or in large indoor events with line array systems or horn loaded systems.
To be able to compete with the SPL, sensitivity and long throw of the HB212 you will need a shipload of regular front-loaded 18”- woofers.
Only two HB212 on each side easily covers a medium to large live performance venue with thousands of people in the audience.
HB212 has a sensitivity of 110 dB@1W/1m. from 45 to 100 Hz, and 103 dB @ 30 hz. (half-space)
The cabinet has two handles on each side (a total of 8 handles) and 4 castors in the back for easy transportation and rigging, it is a relatively small sized, lightweight subwoofer, taking into account what it can produce in SPL.
The HB212 is prepared with rigging and flying hardware to be used with any of the PROPHON range of line array

The paint is a hardened two-component lacque and it is manufactured with state of the art computerized CNC machines, this ensures a very high quality, in the sound as well in the cabinet, guaranteeing a long lifetime with minimum service.
All woodwork and assembly are made in Sweden with a result that can clearly be seen and heard when comparing quality and reliability with other brands, where assembly and manufacturing often are made in china or in other developing countries.

HB212 comes in two versions
- **Standard passive version** (bi-amplified) where an external amplifier are used to power the speaker *(PROPHON P4200, P10000 see the electronics section in this brochure)*
- **Active version** (self-powered) with built in 2 x 1050W class-D amplifiers *(see extended information below)*

The active version (HB212A)
Fully DSP processed built-in amplifier, with on-board, high definition signal processors,
The HB212A houses two 1050W @ 8 ohm amplifier with separately dedicated on-board DSP´s.

Features HB212:
- High SPL - low distortion
- Long-throw horn loaded design
- Eight handles
- High power 12”- neodymium woofers. (2000W cont..)
- Prepared for four castors (not included).
- Fully covering protective perfored steel grille with speaker foam.
- 18 mm. reinforced high quality birch plywood
- Special two-component hardened paint.
- Two versions, Active and passive
- High quality components made in Europe.
- Designed, assembled and manufactured in Sweden.

HB212 / HB212A

2 x 12”- Horn loaded arena subwoofer, Bi-amplified / self-powered

HB212 is perfect to use in combination with a line array or a horn loaded system.
In this way having a long throw sound system down to the lowest frequencies,
covering vast distances on outdoor events.

Super reinforced 18 mm. high quality plywood, ensures minimum vibrations, thus raises the max SPL considerably.

Picture showing four pcs of the HB212A stacked together, creating an overdimensioned horn baffle, helping the woofers to produce even lower frequencies at high SPL.

Technical data HB212:	
Model	HB212
Low frequency driver	2 x 12” woofer, 4”- voice coil
Construction	Horn loaded high power long-throw
Sensitivity (half space)	103 dB@30Hz, 110dB@45-100Hz, 1W/1m.
Nominal impedance	4 ohm
Power handling R.M.S. / cont..	2000W / 4000W
Max SPL, half space (calc.)	144dB @ 4000W (45-100Hz)
frequency response +/- 6dB	25Hz - 500Hz
Measurements H x W x D mm.	900 x 720 x 1240
Weight	80 kg.
Recommended crossover for passive version	LP@80-120Hz, 24-48dB/oct HP@35Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P10000
Recommended pre-programmed DSP processors	PROPHON DSP260, DSP480
Recommended Powerage	1500W - 4000W @ 4 ohm
Connections passive version	2 x Neutrik Speakon 1+ /1- Input / through, 2+ / 2- Link
Applications	- Large fixed Installation - Large live performances - Stacked, or single ended use.
Accessories	- Castors, front-cover, ground-stack hardware - Flight ware, rigging hardware
Extended technical specifications HB212A, with 2x1050W built-in amplifier & DSP	
Connectors	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue Power out: Neutrik powercon grey
Input sensitivity	10 kOhm balanced to ground
Mains voltage acceptance	AC 95V - 250V, 50/60 Hz automatic selections of mains voltage range (Power factor correction, PFC)
Input current (195-250V ac 1/8 max output power)	2,9 Arms
Input current (95-125V ac 1/8 max output power)	5,5 Arms
Consumption (1/8 max output power)	410VA
Max output current draw	35 A
Cooling	Temperature controlled continues variable speed fan
Max operating ambient temperature	40° C
Thermal emission (1/8 power @ 4 ohm)	281,7 BTU/h
Thermal emission (1/4 power @ 4 ohm)	464,3 BTU/h
Gain	38 dB (voltage gain: x 80)
Frequency response	10 Hz - 30 kHz (+/-3dB, 1w @ 8 ohm)
S/N ratio	> 112 dB(A) (20 Hz - 20 kHz)
Damping factor	> 500 @ 100 Hz
THD+N	< 0,05% from 0,1W to full power

K-SERIES

Complete range of portable passive and active sound systems

The K-series are an affordable range of high quality, active and passive speakers, consisting of subwoofers, stage-monitors, fullrange speakers and active systems.

Designed for portable ”plug´n play” usage in the event industry, for bands, DJ´s and rental companies.
Or for fixed installations in bars, restaurants, lounges, schools, nightclubs, live stages, theme parks and training facilities.

The systems are easy to use and setup, and they are compatible to be used together in a variety of ways, depending on demand, application and size of the event.

Each speaker was carefully designed due to a demand from our customers in our domestic market, asking for a high quality systems with lower prices compared to our High-end tour systems.

KS-SERIES
active and passive subwoofers for PA and installation

K-Series subwoofers

Available both in active (self-powered) versions and passive (bi-amplified) versions.
We have designed the subwoofers to reproduce an accurate and precise base with rapid cone control and natural frequency response. They are perfect for portable use with any of the K-series or KX-series fullrange speakers and stage monitors, either in an active self-powered system or in fixed installations with external amplifiers and DSP´s.
All cabinets are painted with a special hardened lacque for withstanding ”on the road” handling, each subwoofer have two handles, speaker stand top-hat, four rubber feet, fully covering protective front grille with speaker foam behind, castor plates, ”gig-bags”, rigging- & installation- hardware are available as options.
There are four models available in the K-series of subwoofers:

KS15

- 15” woofer,
- 4” voice coil,
- Passive,
- 8 ohm,
- 600W / 2400W peak,
- 99dB sensitivity,
- 132dB max SPL,
- Weight: 31 kg.
- Size: H55xW45xD64
- Frequency response: 45-180Hz

KS15A

With same data as the KS15 but with three built in amplifiers of totally 1000W: 600W for subwoofer + 200W + 200W to stereo top speakers, also driving two K10 fullrange speakers in an active system (K1000) with balanced XLR left/right in and unbalanced RCA left/right input, adjustable LP-crossover frequency 80-180Hz, 24dB/oct, 2 x speakon out, adjustable HP-crossover for speakon output to top speakers 20Hz/80Hz/120Hz, 2 x mic in with separate volume, separate volume for subwoofer, master volume, 3-band EQ on top speaker output.

KS18

- 18” subwoofer,
- 4” voice coil,
- Passive,
- 8 ohm,
- 650W / 2600W peak,
- 99dB sensitivity,
- 133dB max SPL,
- Weight: 40 kg.
- Size: H65xW54xH65
- Frequency response: 40-180Hz

KS18A

With same data as the KS18 but with a built in 600W mono amplifier, with balanced XLR left/right in and unbalanced RCA left/right input, adjustable LP-crossover frequency 80-180Hz, 24dB/oct, adjustable HP-crossover for XLR output to active fullrange speakers off/80Hz/120Hz, 2 x mic in with separate volume controls, separate volume for subwoofer, separate master volume.

The K1000 active sound system with 1000W amplifier (600W+200W+200W) a combination of KS15A and two pcs of the K10, 10”/1” fullrange speaker.(see portable sound systems)

K-SERIES

Complete range of portable passive and active sound systems

K-Series fullrange speakers

The K-series fullrange speakers was designed to be used for portable live music and recorded applications and for installation. With the 12 x M10 flying points K-series fullrange speakers can be installed in a variety of ways, either as fullrange speakers, or as top speakers with any of the K-series subwoofers for extended low frequency response.
Perfect for bands, DJ´s troubadours, rental and event companies, or for installing in nightclubs, lounges, schools, live performance stages, theatres, conference centres, churches etc.
Fitted with top hat for mounting on speaker stands, handles and 12 x M10 rigging points, the drivers are protected by a fully covering speaker-grille with speaker foam behind.

The self powered version features:

- 300W+50W amplifiers
- 2 x mic input with separate volume
- 230V/115V select switch
- Bass and treble control (+/-10dB)
- Line volume & master volume
- Power on/off switch
- XLR line in / XLR mix out
- 3 x Led for active, signal and clip.
- AC in with fuse slot

	K10	K12	K12A
Construction	two-way passive, front-loaded bass reflex	Two-way passive, front-loaded bass reflex	Two way active front-loaded bass reflex
Components	LF: 10” (320mm) HF: 1” (25 mm.)	LF: 12” (320mm) HF: 1” (25 mm.)	LF: 12” (320mm) HF: 1” (25 mm.)
Nominal impedance	8 ohm	8 ohm	8 ohm
Power handling RMS	200W	300W	300W
Power handling cont..	400W	600W	600W
Frequency response	70Hz-20kHz	60Hz-20kHz	60Hz-20kHz
Axial sensitivity	95 dB, 1W/1m.	97dB, 1W/1m.	97dB, 1W/1m.
Max calc. SPL	124dB	128dB	128dB
Dispersion H x V	80 x 60	90 x 80	90 x 80
Connectors	2 x NL4MP speakon 1+/1- input, 2+/2- link	2 x NL4MP speakon 1+/1- input, 2+/2- link	XLR line in, XLR Mix out 2 x 6,3 mm. tele in for mic
Weight	16 kg.	19,5kg.	19,5kg.
Dimensions mm.	H485 x W300 x D321	H565 x W350 x D376	H565 x W350 x D376
Extended features active version			Bass/treble controls (+/-10dB) Mic1/Mic2 volume controls Line volume, Master volume

KX-Series multipurpose stage monitors

Low profile active stage monitors, for live stages, bands, trubadours, DJ´s, TV-studios, schools, rental companies, the event industry, or for other demanding performances.
The coaxial design with a conical dispersion of 80x80 generates a coherent and symmetrical dispersion pattern.
The KX-series has a balanced frequency response with a rich, transparent sound, ideal for vocal monitoring as well as instruments or recorded music. Fullrange frequency response in combination with an abundance of features makes the KX-series versatile in usage, as a stage monitor, as a stand-alone fullrange speaker mounted on speaker stands for vocal or acoustical performances, or together with subwoofers (KS15A or KS18A) in a powerful active sound system.
Fitted with 14 x M10 cage nuts for rigging, flying or installing, fully covering protective perfored steel grille with speaker foam behind, two handles, top hat for mounting on stand.

Features:

- Built-in amplifiers
- Top hat for mounting on speaker stand
- Low profile cabinets
- Mick/Line select on input
- Fullrange frequency response
- 14 x M10 rigging/flying points
- Wedged stage monitor
- Two handles.
- 350W amplifiers

	KX10A	KX12A
Construction	two-way active, coaxial, front-loaded bass reflex	Two-way active, coaxial, front-loaded bass reflex
Components	LF: 10” (320mm) HF: 1” (25 mm.)	LF: 12” (320mm) HF: 1” (25 mm.)
Nominal impedance	8 ohm	8 ohm
Power handling RMS	200W	250W
Power handling cont..	400W	500W
Frequency response	70Hz-20kHz	60Hz-20kHz
Axial sensitivity	96 dB, 1W/1m.	97dB, 1W/1m.
Max calc. SPL	122dB	124dB
Dispersion H x V	80 x 80	80 x 80
Connectors	Balanced XLR/TELE in XLR link out	Balanced XLR/TELE in XLR link out
features	Line / mick select Master volume Ground lift	Line mick select Master volume Ground lift
Weight	12 kg.	17 kg.
Dimensions mm.	H360 x W420 x D290	H400 x W502 x D345

K1000 - 1000W sound system

- 1 x KS15A subwoofer with 600W to sub, 2x200W.
- 2 x K10 passive fullrange speakers, powered by KS15A.
- Total of 1000W amplifier. (600W+200W+200W)
- 2 x 10 m. speaker cables included.
- Castor-plate, gig-bags and stands available as options.
- Adjustable crossover frequencies.
- Separate volume controls for perfect system balance.
- 2 x XLR input for balanced stereo sound.
- 2 x RCA input for unbalanced stereo sound (Ipad, MP3)
- 2 x mic in, with separate volume controls
- Limiter, on/off
- Phase reverted subwoofer on/off
- Balance, bass, treble controls for top speakers out.

Designed for smaller bands, DJ´s, events, live stages, and the rental industry, the K1000 system houses all electronics, amplifiers and processing in the back of the subwoofer, also supplying the two passive K10 fullrange speakers.
K1000 are packed with features such as adjustable crossover frequencies, 2 x mic in with separate volume controls, balanced (XLR) and unbalanced (RCA) input for both professional use and for plugg in an Ipod, Iphone, MP3-player etc. separate volume controls for subwoofer and master, bass and treble controls for adjusting the sound in the top speakers, The subwoofer has a very high sensitivity, with great punch and astounding deep base. 600W amplifier to the sub, 200+200 amplifier for satellites.

A2 - 4200W sound system

- 2 x B1HPA, 15” high power active subwoofers
- 2 x MF10, Passive 10”/1” multi purpose speaker
- Transportation case for the two MF10
- 2 x combination cable signal/power with powercon/XLR
- 2 x Speaker cable with Neutrik speakon, 3m.
- Castors on the B1HPA subwoofers
- 2 x adjustable speaker stand poles
- Total of 4200W Class-D amplifiers with PFC
- On-board high resolution DSP´s
- 4 presets for a variety of setups
- 4 x 1050W / 8 ohm amplifiers

Powerful compact active sound system for bands, DJ´s, rental companies live stages, installations and the event industry
Fitted with a total of 4200W amplifiers run into 8 ohms with PFC (Power factor correction) for universal power supply, a superb headroom with very low distortion levels are achieved. The A2 is capable of reproducing astounding SPL for its compact size, easily outplaying larger systems.

A3 - 4400W sound system

- 2 x B1HPA, 15” high power active subwoofers
- 2 x MF10A, active 10”/1” multi purpose speaker
- Transportation case for the two MF10A
- 2 x combination cable signal/power, powercon/XLR
- 2 x combination cable signal/power, powercon/XLR
- Castors on the B1HPA subwoofers
- 2 x adjustable speaker stand poles
- Total of 4400W Class-D amplifiers.
- On-board high resolution DSP´s
- 4 presets on each speaker for a variety of setups
- 1500W / 8 ohm class-D amplifiers in the B1HPA
- 700W / 8 ohm class-D amplifiers in the MF10A

Powerful award winning active sound system for bands, DJ´s rental companies live stages, installations and the event industry, where the multipurpose speakers also are active with 700W class-D amplifiers and 4 presets for different usage:
Fullrange, extended fullrange, monitor, top.
The system is fitted with a total of 4400W class-D amplifiers run into 8 ohms, achieving a superb headroom with very low distortion levels.
The A3 is capable of reproducing astounding SPL for Its compact size, easily outplaying larger systems.
The small MF10 A can be used for stand alone acoustical and vocal gigs, without the subwoofers.

A4 - 5600W sound system

- 2 x B1HPA, 15” high power active subwoofers
- 2 x B1HP, 15” high power passive subwoofers
- 2 x MF10A, active 10”/1” multi purpose speaker
- Transportation case for the two MF10A
- 2 x combination cable signal/power, powercon/XLR
- 2 x combination cable signal/power, powercon/XLR
- 2 x speaker cable with neutrik speakon
- Castors on the subwoofers
- 2 x adjustable speaker stand poles
- Total of 5600W Class-D amplifiers.
- On-board high resolution DSP´s
- 4 presets on each speaker for a variety of setups
- 2 x 1050W / 8 ohm class-D amplifiers in the B1HPA
- 700W / 8 ohm class-D amplifiers in the MF10A

Powerful compact active sound system for bands, DJ´s, rental companies live stages, installations and the event industry, The active B1HPA also drives the passive B1HP, supplying them each with 1050W into 8 ohm. Fitted with a total of 5600W amplifiers run into 8 ohms a superb headroom with very low distortion levels are achieved. The A3 have more subwoofer power than the A2, for larger performances where massive low-frequency reproduction are essential.
The small MF10 A can be used for stand alone on acoustical and vocal gigs, without the subwoofers, or as stage monitors.

A5 - 4200W sound system

- 2 x B18HPA, 18” high power active subwoofers
- 2 x CXL122MP, passive 12”/2” multi purpose speaker
- Transportation case for the two CXL122MP
- 2 x combination cable signal/power, powercon/XLR
- 2 x speaker cable with neutrik speakon 3m.
- Castors on the subwoofers
- 2 x adjustable speaker stand poles
- Total of 4200W Class-D amplifiers. (4x1050W/8ohm)
- On-board high resolution DSP´s
- 4 presets on each subwoofer for a variety of setups
- All amplifiers and DSP´s in the B18HPA subwoofers

Powerful active sound system for bands, DJ´s, rental companies live stages, installations and the event industry, With the powerful 1200W RMS, 18” woofers and 12”/2” high power top speakers, the A5 system delivers high SPL with low distortion levels.
All amplification and processing are housed in the subwoofers, each B18HPA has 2 x 1050W Class-D power amplifiers with Power Factor Correction, via the external Neutrik Speakon out, the subwoofer drives the top speaker, with separate volume controls for adjusting the balance of the system.
4 different presets can be selected for different applications and setups.

A6 - 5600W sound system

- 2 x B1HPA, 15” high power active subwoofers
- 2 x B1HP, 15” high power passive subwoofer
- 2 x CXL122MPA, active 12”/2” multi purpose speaker
- Transportation case for the two CXL122MPA
- 2 x combination cable signal/power, powercon/XLR
- 2 x combination cable signal/power, powercon/XLR
- 2 x speaker cable with neutrik speakon 3m.
- Castors on the subwoofers
- 2 x adjustable speaker stand poles
- Total of 5600W Class-D amplifiers.
- On-board high resolution DSP´s
- 4 presets on each active speaker for different setups

Powerful active sound system for bands, DJ´s, rental companies live stages, installations and the event industry, With the powerful 1000W RMS, 15” woofers and 12”/2” high power top speakers, the A6 system delivers high SPL with low distortion levels.
The active subwoofers, B1HPA, also supplies the passive subwoofers, B1HP, with 1050W in 8 ohms, either to be used stacked (as in picture) or in cardioid mode placed front / back
4 different presets can be selected for different applications and setups, including cardioid mode.
The CXL122MPA, 12”/2” fullrange speakers houses a 700W class-D amplifier and on-board DSP processing with 4 presets for different setups and applications.

A7 - 5600W sound system

- 2 x B18HPA, 18” high power active subwoofers
- 2 x B18HP, 18” high power passive subwoofer
- 2 x CXL125MPA, active 15”/2” multi purpose speaker
- Transportation case for the two CXL152MPA
- 2 x combination cable signal/power, powercon/XLR
- 2 x combination cable signal/power, powercon/XLR
- 2 x speaker cable with neutrik speakon 3m.
- Castors on the subwoofers
- 2 x adjustable speaker stand poles
- Total of 5600W Class-D amplifiers. (PFC in the subs)
- On-board high resolution DSP´s
- 4 presets on each active speaker for different setups

Extremely powerful active sound system for bands, DJ´s, rental companies, live stages, installations and the event industry, With the powerful 1200W RMS, 18” woofers and 15”/2” high power top speakers, the A7 system delivers high SPL with low distortion levels. The active subwoofers, B18HPA, also supplies the passive subwoofers, B18HP, with 1050W in 8 ohms, either to be used stacked (as in picture) or in cardioid mode placed front / back
4 different presets can be selected for different applications and setups, including cardioid mode.
The CXL152MPA, 15”/2” fullrange speakers houses a 700W class-D amplifier and on-board DSP processing with 4 presets for different setups and applications.

A8 - 7200W sound system

- 2 x B6HPA, 2x18” high power active subwoofers
- 4800W cont.. power handling in each subwoofer
- 2x1050W / 8 ohm, class-D amplifiers in each sub
- 2 x 222A, active 2x12”/2” fullrange speaker
- 750W (2x12”) + 375W (driver) power in each 222A
- Transportation trolleys for the two 222A
- 2 x combination cable signal/power, powercon/XLR
- 2 x combination cable signal/power, powercon/XLR
- Castors on the subwoofers
- Total of 7200W Class-D amplifiers with PFC
- On-board high resolution DSP´s
- 4 presets on each active speaker for different setups

Extremely powerful active club-rigg for large bands, DJ-performances, events, clubs, live stages, rental companies and the event industry.
The B6HPA subwoofer houses two extremely powerful 18” woofers with 1200W RMS each, powered by 2100W class-D amplifiers, with separate 1050W/8ohm amplifiers to each woofer.
The 222A active fullrange speaker houses two high-power neodymium 12” woofers and a 2”- driver mounted on a 120x60 horn, the two class-D amplifiers gives a total of 1125W power to each 222A.
All amplifiers have PFC (Power Factor Correction)

DSP processors and loudspeaker management systems are in a way the heart of a sound system, if they fail, there will be silence! We have developed state of the art DSP processors and loudspeaker management systems to be able to keep a high quality sound throughout the whole chain of products, from the mixer to the speaker.

It is very important not to lose headroom, and to maintain a high signal ratio, and at the same time keep the distortion levels to a minimum.

Our DSP processors are designed to work fail-safe, endless hours, with numerous installations in various environments and applications as references, in churches, nightclubs, cinemas, theatres, live stages, conference centres, theme parks, leisure facilities, cruiseships and the tour industry.

DX26

Digital active crossover, 2 in / 6 out

Designed for installation and live applications, easy to program with a computer or directly on the front panel. All settings are shown in real time in the dedicated software. With the DX26 you can, in no time, program a complete nightclub, a bar or a PA for live applications, whether using the GUI (Graphical utility interface) software or the buttons and jog wheel at the front panel, several ”presets” can be stored and loaded.

Features:

- 3 x 24bit / 48kHz DSP, with 0,01 THD distortion processing.
- Separate delay up to 7mS on each output
- 5 fully edit able pre-programmed configurations:
  1x6-way, 2x3-way, 3x2-way, 2x2-way+2mono, 5-way+1mono
- Crossover on each output with 6, 12, 18, 24, 48dB slopes
  Bessel, Butterworth, Linkwitz-Riley types of filters.
- 5 parametric EQ on each output with adjustable:
  Gain, Q-value and frequency
- Lockable in 5 different depth.
- 180° phase invert and mute on all output.
- Controlled and managed via USB (RS232 protocol)
- Stereo link for faster programming

DSP260 & DSP480

Loudspeaker management systems DSP260

Two powerful DSP processors with 96kHz/32 bit processing, state of the art Burr/Brown AD/DA converters and packed with the latest features. Designed for fixed installations and tour applications.
The processors are identical in features and capabilities, they only differ in total amount of input/output channels.
DSP260 has 2 inputs and 6 outputs, DSP480 has 4 inputs and 8 outputs.
Programming is made easy with the free plug´n play GUI software, connected to the USB connector on the front panel, or by programming directly on the front panel with a logical and understandable menu- system, using the menu buttons and the universal jog wheel, there are one button for each function, EQ, crossover, limiter, delay, gain, signal matris, polarity, load, save, system. Select and adjustment of data is made by the jog-wheel. To edit, just press and hold mute on the channel you want to edit, and when the yellow light is turned on, everything you edit will happen in real time on the selected channel (Input A-C, output 1-8)
If you want to copy your settings to another channel, just press and hold the mute buttons on both channels, and all information will be duplicated except the signal routing. Perfect for last minutes adjustment in the tour and event industry.

Features:

- Two models: DSP260 with 2 in / 6 out, DSP480 with 4 in and 8 out
- 96kHz / 32 bit processing
- State of the art high quality AD/DA converters
- Can easily be programmed via the front-panel
- Can be programmed and monitored by the GUI software via USB
- Total freedom in signal routing with the Input / output matrix
- 6 EQ points on each input and on each output,
  Parametric, Hi-shelf, Lo-shelf
  Both oct. and Q-value slopes shown
  -20 / +20dB gain in 0,1dB steps
  19,7Hz - 20kHz
- Delay 0-1000 mS, shown in mS, meter, feet.
- Polarity +/-
- Gain -12 - +12
- Crossover on all outputs
  Linkwitz-Riley, Butterworth, Bessel types
  12-48dB/oct slopes
  19,7Hz - 20kHz
- Compressor / limiter with Threshold, Attack, Release (dBu, mS)
- Device id for linking several units
- 30 slots for storing setups in the unit for fast and easy access.
- Graphical User Interface software with frequency response curve.
- Link and copy channels easily
- Export data to excel or to PDF for documentation and backup

P-series

Lightweight, switch mode Class-H power amplifiers designed for high-end installations and tour applications.
With superb audio quality, reliable technology and a light weight, the P-series easily handles the most demanding performances, whether it being recorded or live music.

Ultra low distortion of 0,05% THD, high quality components, class-H technology and third generation switch mode power supply are but some features that gives the amplifiers in the P-series the high sound quality, low weight and reliable technology.

As an addition, the P10000 (2x5000W) amplifier has PFC (Power Factor Correction) and OVP (matching impedance 2, 4, 8 ohm) furthermore, the P3000DSP has six high precision 96kHz/32bit DSP processors and digital AES/EBU in.
This gives the P-series an unsurpassed versatility in combinations. whether it being in an installation where the P3000DSP controls external amplifiers, both processing subwoofers and mid/high speakers, or in tour applications using a 19" rack packed with P3000DSP´s, with different pre-programmed setups stored, for different combinations in speakers and gigs.

Features

- Three different models ranging from 2 x 650W / 8 ohm to 2 x 5000W / 2ohm
- Class-H technology & switched mode power supply, resulting in light weight amplifiers with astounding performance and reliability.
- Outstanding sound quality with extremely low distortion levels of only 0,05% THD @ 1dB below clipping
- Extensive protection systems against: overload, clip, thermal, short circuit, internal malfunction, faulty power.

Extra features on the P3000DSP

- 2 inputs, analogue or digital select able (AES/EBU) with full DSP processing power.
- 4 outputs. (2 outputs are powered, 2 outputs are used for signal processing of external amplifier, via two Neutrik XLR out.
- Two DSP´s control the Neutrik speakon out, two DSP´s control the XLR aux out and can process any standard amplifiers as a slave, handling EQ, Delay, Crossover, Limiter, gain, signal routing, etc.
- 6 pcs of 96kHz / 32 bit built-in DSP´s, with full processing power. (2 in / 4 out)
- Removable front-grille with dust cover, for easy service and a longer life span of the amplifiers.
- Can be programmed either using the buttons and the jog-wheels on the front panel or via the software
- Pre-programmed presets to download from our web site for our speaker systems.
- 256 amplifiers can be connected in an array, with ID 1-256, controlled by a computer with the GUI software

• Input	Analogue:	2 channels, electronically balanced, +20dBu, 10K ohm impedance
	Digital:	2 channels, max levels +0dBFs, 10K ohm impedance
• Output	4 channels	2 x Neutrik Speakon pin1+/1-, max 2 x 1500W@2ohm
		2 x XLR male electronically balanced signal output via DSP
• Dynamic range	<105dBu, 20Hz - 20kHz	
• Frequency response	>+/-0,25dBu, 10Hz - 40kHz, without filters	
• Distortion	<0,01%, 10Hz - 40kHz@+10dBu input level	
• Sampling rate	96kHz	
• Crosstalk	>80dBu, 20Hz - 20kHz	
• Data format AD/DA	24-bit, input and output	
• Crossover type	Bessel, Linkwitz-Riley, Butterworth 12, 18, 24, 48 dB / oct..	
• Compressor	2-stage limiter with threshold	
• EQ input	6 x full parametric EQ, 20Hz - 20kHz, +/- 20dB in steps of 0,1dB, bandwidth 0,05 to 3,0	
• EQ output	6 x full parametric EQ, 20Hz - 20kHz, +/- 20dB in steps of 0,1dB, bandwidth 0,05 to 3,0	
• Delay	Max 2000mS in steps of 10,4uS	
• Latency	625uS @ 96kHz	
• Connectors	2 x XLR analogue input, 2 x XLR analogue Aux output (via DSP)	
	1 x XLR digital input,3 x RJ45 (RS485) 1 for programming, 2 for patching and linking several amplifiers	
• Software	Fully graphical software included, easy to access all features, easy to manage.	
• Front panel	All features and DSP settings can easily be programmed via the front-panel using the jog-wheel and the 3 buttons	

P-SERIES AMPLIFIERS

TECHNICAL SPECIFICATIONS P-SERIES POWER AMPLIFIERS

Model	P3000	P3000DSP	P10000
Max output power RMS, @1kHz, 0,1% THD			
8 ohm, both channels driven	2 x 650W	2 x 650W	2 x 1800W
4 ohm, both channels driven	2 x 1000W	2 x 1000W	2 x 3400W
2 ohm, both channels driven	2 x 1500W	2 x 1500W	2 x 5000W
8 ohm, Bridged	2200W	2200W	10000W
THD @ 1kHz, 1dB below clipping	0,05%	0,05%	0,05%
Slew rate	55V us	55V us	55V us
Damping factor	500	500	1000
Input connectors, signal input	2 x Neutrik XLR female	2 x Neutrik XLR female	2 x Neutrik XLR female
Signal link / through / out	2 x Neutrik XLR male	2 x Neutrik XLR male	2 x Neutrik XLR male
Output connectors speaker out	2 x Neutrik speakon pole screw terminals	2 x Neutrik speakon pole screw terminals	2 x Neutrik speakon pole screw terminals
Power input	Neutrik Powercon	Neutrik Powercon	Neutrik Powercon
Mode switch	Stereo / bridge / parallel	DSP signal routing	Stereo / bridge / parallel
Sensitivity switch	26dB / 32dB / 1,4V	26dB / 32dB / 1,4V	26dB / 32dB / 1,4V
Impedance matching switch	-	-	2 Ohm / 4 Ohm / 8 Ohm
Operation voltage	230V/50HZ +-10%	230V/50HZ +-10%	198V - 242V, with PFC (power factor correction)
Soft start	Yes	Yes	Yes
Protection	Overload, clip, thermal, shortcitcuit, internal faults,	Overload, clip, thermal, shortcitcuit, internal faults,	Overload, clip, thermal, shortcitcuit, internal faults,
Dimension mm. W x D x H	484 x 440 x 89	484 x 440 x 89	484 x 440 x 89
Mounting rack height	2 RU *(Rack Units)*	2 RU *(Rack Units)*	2 RU *(Rack Units)*
Net weight kg.	12	13	14,5
Shipping weight kg.	14	15	16,5

PL1600

Class-TD, amplifier with conventional power supply, designed for a variety of applications,
suitable for installations in work-out centres, live stages, bars, pubs, nightclubs, schools, cinemas and for tour applications,
Reliable technology for low service cost and a long life span.
The PL1600 are stabile down to 2 ohm load with impedance matching technology.
Standard 19” 2RU chassie for easy rack-mounting.

- 2x500W/8ohm, 2x700W/4ohm, 2x800W/2ohm
- OVP technology (Impedance matching) 2ohm, 4ohm, 8 ohm
- Sensitivity select switch (0,775V/1,4V/32dB)
- Limiter on/off
- Bridged in 4 ohms
- Neutrik Powercon input
- Neutrik XLR for signal input/through
- Neutrik Speakon and pole screw terminals output to speakers
- Extensive protection circuits against thermal, overheat, short circuit, clip,

T220AP

Class-D, wall & ceiling mount amplifier 2x20W

The T220AP is a mini amplifier for installation with out VPS series installation speakers.
The amplifier is a stereo 2 x 20W class-D module with line/mick switch, separate volume control, bass/treble control.
It can be run in stereo or bridge mode, 2x20W@4ohm or 1x40W@8ohm, input is either connected by 2 x unbalanced RCA connectors, or balanced with 2 x 3-pole phoenix connectors (included). the power supply is an external 24V DC adaptor (included)
speaker out has a 4-pole phoenix connector (included)

PD-Series

Class-D, 100V amplifiers for public address systems, with 1, 2 and 4 channels in a standard 19”, 1RU space-saving chassie.
Highly efficient Class-D technology with less heat and more sound compared to regular amplifiers.
Switched mode power supply with Active power factor correction for optimum working conditions without faults or breaks due to power dips and bursts in the house electrical grid.
Balanced input by industry standard 3-pole phoenix connectors, 100V output by phoenix connectors,
Separate 24V DC input for on each channel for backup and security systems.

Features

- Class-D series digital power amplifier
- Switch power technology with APFC (Active power factor correction)
- 85% efficient amplifier
- Low power consumption and very low heat generation
- Several models with 1, 2 and 4 channel power amplifier in 1RU height
- RMS power output of 240W and 500W
- Four channel balanced line inputs by phoenix connector
- Four channel separate speaker outputs of 100V.
- Separate volume control for each channel
- Built-in powered band pass filter from 80Hz to 16KHz signal
- Separate cooling system for each channel
- Separate status indicators include signal, peak and protection
- Extensive high temp, overload and short-circuit protection
- AC 190V to 240V voltage input
- Separate DC 24V inputs with wide voltage protection on each channel

TECHNICAL SPECIFICATIONS PD-SERIES, 100V CLASS-D PUBLIC Address AMPLIFIERS

Model	**120W version**	**240W version**	**500W version**
Rated output power	1, 2, 4 x 120W	1, 2, 4 x 240W	1, 2, 4 x 500W
Speaker output	100V	100V	100V
Input sensitivity / Impedance	+/-385mV/20kOhm, balanced phoenix connectors		
THD 1/3 rated power	0,1%		
Overload Electromotive Force	> 11dB		
Frequency response	80Hz - 16kHz (+1, -3dB)		
S/N Ratio	85dB		
Indicators	Signal, Peak, Protection & Power		
Controls	Remote power control, volume control, status monitor		
Protecions	High temp, overload & short-circuit, internal automatic low noise fans.		
Dimension mm. W x D x H	484 x 440 x 89	484 x 440 x 89	484 x 440 x 89
Power consumption	1,25 x total power		
Mounting rack height	1 RU *(Rack Units)*	1 RU *(Rack Units)*	1 RU *(Rack Units)*

CINEMA SYSTEMS

Complete sound systems for high-end digital cinema installations

We have been designing, developing and manufacturing loudspeakers, amplifiers and electronics for the cinema industry for over 28 years, starting in 1985, and before that, since the early 70´s, under the Swedish brand Löfving musik.
We have come to dominate our domestic market, and the international export market are ever growing.
Our product ranges consists of high quality innovative speakers made in Sweden, covering small and medium, to the very largest digital 3D cinema theatres.

All woodwork, metalwork, design, manufacturing and assembly are made in Sweden, resulting in outstanding quality systems, with extremely low distortion levels, very high power handling, high sensitivity and SPL, with next to no service required, for problem-free installations.
All our systems are ”scalable” where more modules are added the larger the theatre, from small 2-way passive systems, requiring only one amplifier channel for each screen speaker, to 4-way horn loaded active DSP-controlled systems.

We have also taken the digital cinema screen speaker to next level with the 3-way active CLAM21041 Line array speaker module, where each line array module covers a narrow vertical dispersion of a total of 15 degrees. This technology has been used for many years in theatres, conference centres, live music stages, churches and other facilities where speech, music and sound are in focus, but has not been applicable to cinema installations until now.
A true line array only loses 3 dB for each doubling of distance, where regular cinema speakers, working as point-source, loses 6 dB for each doubling of distance, using linear array technology vastly improves the presence, headroom, clarity, warmth and control.
When adjusting and tuning the cinema sound with a standard point source horn loaded cinema screen speaker, very often you will have to be satisfied with compromises for the overall experience to be durable, where the frequency response and SPL are not the same in all the seats, but within an acceptable margin.
With the CLAM21041, you will be able to control each section of the module individually with the result that you can achieve the same SPL everywhere in the theatre, in all the seats... like it is meant to be!
The clam21041 are have CLF-files for importing into any acoustical prediction software, and are also available in the free EASE focus 2, prediction and acoustical simulation software.

Our range of surround speakers where designed to reproduce a fullrange frequency response down to 50Hz, for perfect timbre matching with our screen speakers, this in combination with high power handling, high sensitivity and low distortion levels, is what makes the Prophon range of surround speakers superior to our competitors.

All Prophon LFE subwoofers are built with high quality, extra reinforced 19 mm. thick medium density fibreboard.
We have several models to cover all sizes of theatres, from small to the very largest. Using only high power, high quality European components in combination with decades of experience results in reliable subwoofers that will never break, with controlled frequency response and very good cone control and headroom.
All subwoofers are available in two versions standard version and High-Power version with the most powerful components available.

- ***Screen speakers***
- ***Amplifiers***
- ***Subwoofers***
- ***Digital Signal Processors***
- ***Surround speakers***
- ***Rack cabinets and racking equipment***

CINEMA SYSTEMS

Complete sound systems for high-end digital cinema installations

CINEMA SCREEN SPEAKERS

Two-way and thre-way systems

Model:	**XD222,**
System configuration:	Two-way screen speaker with passive crossover network
Construction:	LF/MF Tuned front-loaded bass reflex
	HF Aimable and adjustable horn, mounted on a bracket
Components:	LF/MF 2 x 12”
	HF 1 x 2”- driver mounted on an assymetrical dispersion horn
Frequency range:	50 Hz - 18 kHz
Power handling:	800W RMS / 1600W cont..
Impedance (nom.):	4 Ω
Dispersion(-6dB):	Horizontal 80º, Vertical 60º (assymetrical.)
Sensitivity:	100dB (1W/1m.)
Max SPL (calc.):	131,5 dB @ 1600W
Max SPL (peak):	140 dB (4 x max power handling, 2Pi)
Size (H x B x D):	96 x 52 x 28 cm.
Weight:	42 kg.
Amplifier channels:	1

Modell:	**XD2115 (XD211 + XD115)**
System configuration:	Thre-way screen speaker, two-way active (LF/MF active) (MF/HF Passive)
Construction:	LF Tuned front-loaded bass reflex
	MF Closed cabinet
	HF Aimable and adjustable horn, mounted on a bracket
Components:	LF 1 x 15”
	MF 2 x 10”
	/HF 1 x 1”-driver mounted on an assymetrical dispersion horn
System setup - frequency range	LF 50Hz - 250Hz
	MF 250Hz - 1,5kHz
	HF 1,5kHz - 19kHz
Power handling:	LF: 700W RMS / 1400W cont..
	MF/HF: 500W RMS / 1000W cont..
Impedance (nom.):	LF: 8 Ω
	MF/HF 4 Ω
Dispersion (-6dB):	Horizontal 80º, vertical 60º (assymetrical)
Sensitivity:	100dB (1W/1m.)
Max SPL (calc.)	134 dB @ 2400W
Max SPL peak	143 dB (4 x max power handling, 2Pi)
Size (H x B x D)	LF: 60 x 52 x 28 cm.
	MF/HF 86 x 52 x 28 cm.
Weight:	LF: 27,2 kg.
	MF/HF: 32,1 kg.
Amplifier channels:r	LF: 1
	MF/HF: 1

Modell:	**XD2125 (XD211 + XD115 x 2 pcs.)**
System configuration:	Thre-way screen speaker, two-way active (LF/MF active) (MF/HF Passive)
Construction:	LF Tuned front-loaded bass reflex
	MF Closed cabinet
	HF Aimable and adjustable horn, mounted on a bracket
Components:	LF 2 x 15”
	MF 2 x 10”
	/HF 1 x 1”-driver mounted on an assymetrical dispersion horn
System setup - frequency range	LF 50Hz - 250Hz
	MF 250Hz - 1,5kHz
	HF 1,5kHz - 19kHz
Power handling:	LF: 1400W RMS / 2800W cont..
	MF/HF: 500W RMS / 1000W cont..
Impedance (nom.):	LF: 4 Ω
	MF/HF 4 Ω
Dispersion (-6dB):	Horizontal 80º, vertical 60º (assymetrical)
Sensitivity:	101,5dB (1W/1m.)
Max SPL (calc.)	137 dB @ 3800W
Max SPL peak	146 dB (4 x max power handling, 2Pi)
Size (H x B x D)	LF: 60 x 52 x 28 cm. x 2
	MF/HF 86 x 52 x 28 cm.
Weight:	LF: 2 x 27,2 kg.
	MF/HF: 32,1 kg.
Amplifier channels:r	LF: 1
	MF/HF: 1

CINEMA SCREEN SPEAKERS

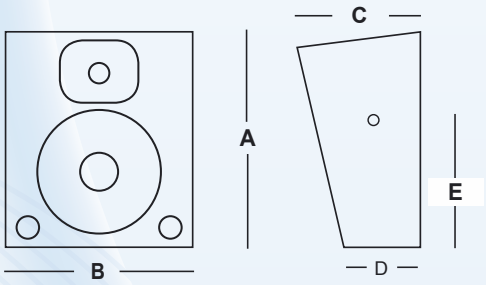
Three-way and four-way systems

Modell:	**XD223 (XD110 + XD215)**	
System configuration:	Three-way screen speaker, two-way active (LF/MF active) (MF/HF Passive)	
Construction:	LF	Tuned front-loaded bass reflex
	MF	Horn loaded midrange, assymetrical
	HF	Aimable and adjustable horn
Components:	LF	2 x 15”
	MF	1 x 10” mounted on an assymetrical dispersion horn
	HF	1 x 1” driver mounted on an assymetrical dispersion horn
System setup - frequency range	LF	35Hz - 250Hz
	MF	250Hz - 1,5kHz
	HF	1,5kHz - 19kHz
Power handling:	LF:	2000W RMS / 4000W cont..
	MF/HF:	350W RMS / 700W cont..
Impedance (nom.):	LF:	4 Ω
	MF/HF	8 Ω
Dispersion (-6dB):	Horizontal 80º, vertical 60º (assymetrical)	
Sensitivity:	LF:	100 dB (1W/1m.)
	MF/HF	108 dB (1W/1m..)
Max SPL (calc.)	LF:	136 dB @ 4000W
	MF/HF:	136 dB @ 700W
Max SPL peak	142 dB (4 x max power handling, 2Pi)	
Size (H x B x D)	LF:	100 x 52 x 50 cm.
	MF/HF	52 x 52 x 50 cm.
Weight:	LF:	60 kg.
	MF/HF:	35 kg.
Amplifier channels:	LF:	1
	MF/HF:	1
Extra features	Can be installed vertical or horizontal (see pictures)	

The specially designed horn with assymetrical horizontal and vertical dispersion, used in all XD-series screenspeakers

Modell:	**XD224**	
System configuration:	Four-way active bi-amplified screen speaker	
Construction:	LF:	Tuned front-loaded bass reflex
	MF:	Horn loaded midrange, assymetrical
	HF:	Aimable and adjustable horn
	VHF:	Aimable and adjustable horn
Components:	LF:	2 x 15”
	MF:	1 x 10” mounted on an assymetrical dispersion horn
	HF:	1 x 5” driver mounted coaxially on an assymetrical horn
	VHF:	1 x 1” driver mounted coaxially on an assymetrical horn
System setup - frequency range	LF:	35Hz - 250Hz
	MF:	250Hz - 1,5kHz
	HF:	1,5kHz - 10kHz
	VHF:	10kHz-18kHz
Power handling:	LF:	2000W RMS / 4000W cont..
	MF:	350W RMS / 700W cont..
	HF:	80W RMS / 160W cont.
	VHF:	20W RMS / 40W cont.
Impedance (nom.):	LF:	4 Ω
	MF:	8 Ω
	HF:	8 Ω
	VHF	8 Ω
Dispersion (-6dB):	Horizontal 80º, vertical 60º (assymetrical)	
Sensitivity:	LF:	100 dB (1W/1m.)
	MF	108 dB (1W/1m..)
	HF/VHF	108,5 dB (1W/1m.)
Max SPL (calc.)	System: 137	
Max SPL peak	143 dB (4 x max power handling, 2Pi)	
Size (H x B x D)	LF:	100 x 52 x 50 cm.
	MF/HF/VHF	52 x 52 x 50 cm.
Weight:	LF:	60 kg.
	MF/HF/VHF:	40 kg.
Amplifier channels:	4	
Extra features	Can be installed vertical or horizontal (see pictures)	

CINEMA SURROUND SPEAKERS



Features

- Tuned, front-loaded bass reflex construction for extended LF reproduction
- Two-way passive models with built-in passive crossover network
- Fullrange frequency response
- Manufactured in Sweden
- High power transducers
- 19 mm. thick extra reinforced medium density fibreboard
- High sensitivity
- High SPL
- High power handling
- Controlled HF dispersion
- Passive bi-amplified with built-in dedicated passive crossover networks
- 15 degree baffle, for best aiming of sound
- Installation brackets included
- 2 x M10 threads in the sides for the adjustable bracket (not included)

Technical specifications M-series cinema surround speakers

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m) open space Half space (2pi)	Nominell Impedance	Power handling	Max SPL dB@1m. cont.. / Peak*	Dimensions, cm. A x B x C x D x (E)	Low frequency driver	High frequency driver
M38	Two-way bi-amplified bass reflex, with passive crossover	60- 20Hz	95 dB 98 dB	8 ohm	60W RMS 120W cont.	116 dB 125 dB	47 x 49 x 24,5 x 13	8” 200m m.	1” dome tweeter
M48	Two-way bi-amplified bass reflex, with passive crossove	50- 18Hz	99 dB 102 dB	8 ohm	250W RMS 500W cont..	126 dB 135 dB	56 x 40 x 27 x 13 x 35	10” 250 mm.	1” driver 25 mm.
M58	Two-way bi-amplified bass reflex, with passive crossove	43-18Hz	100 dB 103 dB	8 ohm	400W RMS 800W cont..	129 dB 137,5 dB	60 x 40 x 27 x 13 x 35	12” 320 mm.	2” driver 50 mm.

** All Max SPL data are calculated and presented in two ways: continues and Peak, the continues max SPL are the most accurate, but some of our competitors use the peak reference, so we feel obliged to do the same, remember that we suggest that the continues max SPL are used. The Max peak spl are only for your reference. Max SPL peak have the following equation: sensitivity in 2Pi times peak power handling (4 x continues power handling) equals max SPL peak*

CINEMA SUBWOOFERS

The latest in Low frequency woofer technology, with external cooling system, ventilated and double wired voice coils, double spiders

Features

- Tuned, front-loaded, bass reflex construction
- Each subwoofer are available in two versions
- High power transducers
- 19 mm. thick, extra reinforced medium density fibreboard
- Ventilated voice coil technology
- Double silicone spiders
- Double wired voice coils
- Reinforced cone suspension
- Optimal for reproducing long hours of low frequency emission
- High sensitivity
- High SPL
- High power handling
- Long X-max excursion
- Manufactured in Sweden

Technical specifications SUB series cinema subwoofers

Model	Construction	Frequency range -6dB	Sensitivity (1w / 1m) open space Half space (2pi)	Nominell Impedance	Power handling	Max SPL dB@1m. cont.. / Peak*	Size / cm. H x W x D	Low frequency driver	Voice coil diameter	Color
SUB18	Bi-amplified bass reflex	30 - 400Hz	99 dB 102 dB	8 ohm	600W RMS 1200W cont.	130 dB 139 dB	73 x 55 x 60	1 x 18” 460 mm.	3” 76 mm.	Black / white
SUB18HP	Bi-amplified bass reflex	30 - 400Hz	97 dB 100 dB	8 ohm	1200W RMS 2400W cont..	130,5 dB 139,5 dB	73 x 55 x 60	1 x 18” 460 mm.	4” 100 mm.	Black / white
SUB6	Bi amplified Bass reflex	30-400Hz	102 dB 105dB	4 ohm	1200W RMS 2400W cont..	135,5 dB 144,5 dB	120 x 60 x 60	2 x 18” 460 mm.	3” 76 mm.	Black / white
SUB6HP	Bi amplified Bass reflex	30-400Hz	100 dB 103 dB	4 ohm	2400W RMS 4200W cont.	136,5 dB 145 dB	120 x 60 x 60	2 x 18” 460 mm.	4” 100 mm.	Black / white
SUB21	Bi-amplified Bass reflex	25-200Hz	97 dB 100dB	4 ohm	1700W RMS 3400W cont..	130,5 dB 140,5 dB	80 x 60 x 67	1 x 21” 530 mm.	4,5” 116 mm.	Black / white
SUB21HP	Bi-amplified Bass reflex	25-200Hz	96 dB 99 dB	4 ohm	2000W RMS 4000W cont..	132 dB 141 dB	80 x 60 x 67	1 x 21” 530 mm.	6” 153 mm.	Black / white

** All Max SPL data are calculated and presented in two ways: continues and Peak, the continues max SPL are the most accurate, but some of our competitors use the peak reference, so we feel obliged to do the same, remember that we suggest that the continues max SPL are used. The Max peak spl are only for your reference. Max SPL peak have the following equation: sensitivity in 2Pi times peak power handling (4 x continues power handling) equals max SPL peak*

PDU
Power Distribution

PDU1

PDU2

Power distribution for installation and tour

Model	Type	Input connectors	Output connectors	Safety
PDU01	16A PDU	16 A, 3 phase, 5 pin CEE male connector Mounted on back panel	12 groups on 2 x female Socapex 419 compatible, 19 pin connectors Mounted on front panel	1 x RCB 3 x mains MCB 12 x MCB group out mounted on front panel
PDU02	32A PDU	32A, 5 pin CEE male on 2 m. cable, Mounted on back panel	2 x 16A, 3 phase, 5 pin female 6 x schuko female mounted on back plate 1 x schuko mounted on front plate	1 x RCB 3 x mains MCB 13 x MCB out
BLB1	Stage box Hard rubber 1-phase 16A	Neutrik powercon blue	2 x Neutrik powercon white 8 x female schuko	-
BLB2	Stage box Hard rubber 19-pin multi	female Socapex 419-compatible, 19 pin connector	6 c Schuko female	-
EC19P05L015	19 pin multi Cable, 5 m. with male to female, Socapex 419 compatible connectors			
EC19P10L015	19 pin multi Cable, 10 m. with male to female, Socapex 419 compatible connectors			
EC19P15L015	19 pin multi Cable, 15 m. with male to female, Socapex 419 compatible connectors			
EC19P20L015	19 pin multi Cable, 20 m. with male to female, Socapex 419 compatible connectors			
SP19M6FPCL020	19 pin snake with male Socapex 419 compatible connector to 6 x Neutrik Powercon			
POWX5	Combination cable with signal and power, Schuko male to Neutrik powercon blue, and Neutrik XLR female to XLR male, 5m.			
POWX10	Combination cable with signal and power, Schuko male to Neutrik powercon blue, and Neutrik XLR female to XLR male, 10m.			
POWX2	Combination cable with signal and power, Neutrik Powercon white to powercon blue, and Neutrik XLR female to XLR male, 3m.			
PPC5	Power cable with Neutrik Powercon blue to Powercon white, 5 m.			
PPC10	Power cable with Neutrik Powercon blue to Powercon white, 10 m.			
PSHC10	Power cable with Schuko male to Neutrik powercon blue, 10m.			

Cases for multi purpose speakers and portable sound systems top speakers

Model	For speaker	Dimensions W x D x H incl. castors	Number of handles	Fits total speakers	Castors as standard	Type of case
CMF82	MF8	63 x 41 x 40	3	2	No (applicable)	Hinged lid
CMF102	MF10 MF10A	63 x 41 x 50	3	2	No (applicable)	Hinged lid
CMF104	MF10 MF10A	86 x 61 x 66	4	4	Yes	Hinged lid
CHCX122MP	CXL122MP CXL122MPA	74 x 53 x 70	8	2	Yes	Hooded
CHCX152MP	CXL152MP CXL152MPA	83 x 59 x 80	8	2	Yes	Hooded

INSTALLATION HARDWARE

01871

00498

04702

07897

01929

01419 01926 01107 SM700-M20

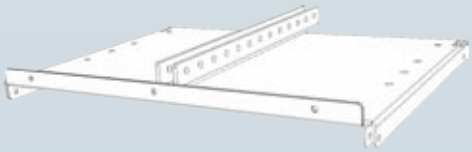
57041 5740 5740C 5740B 5741 5725

INSTALLATION HARDWARE

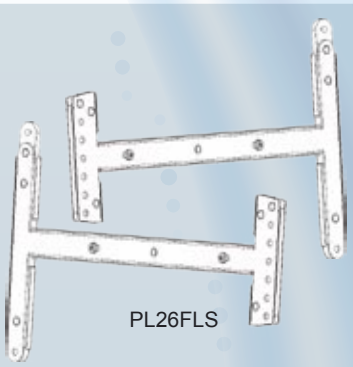
Model	Description
UB6	Installation bracket for the F6 installation speaker
UB8	Installation bracket for the F8 installation speaker
UB10	Installation bracket for the F10 installation speaker
UB12	Installation bracket for the F12 & F122 installation speaker
UB15	Installation bracket for the F152 installation speaker
VF4	Wall mount bracket holder for F-series
VF66	Reinforced wallmount for installing / flying speakers with flight ware
00498	Adjustable wallmount stand for 35 mm. top hat, Pan/Tilt
01871	Fixed 15 degree wall mount stand for 35 mm. top hat
04702	Heavy duty wall mount stand with pan/tilt
07897	Adapter for precision tilting of 35 mm. speaker stand to top hat
01929	Speaker stand splitter for mounting two speakers on one stand (420 mm.)
01419	M10 threaded plate for changing 35 mm. top hat
01107	M20 threaded plate for changing 35 mm. top hat
01926	Cover plate for changing 35 mm. top hat
SM700-M20	M20 threaded top hat, for M20 threaded 35 mm. speaker pole
5740	Double stud cargo restraint flightwre for rigging and installing with flight-rails
5740B	Same as 5740 but without the ring
5740C	Same as 5740 but with a round ring
5741	Double stud cargo restraint flightware with M20 for permanent installations
5725	Single stud cargo restraint flightware
57041	Lockable carabiner max load 800 kg.

LINE ARRAY HARDWARE

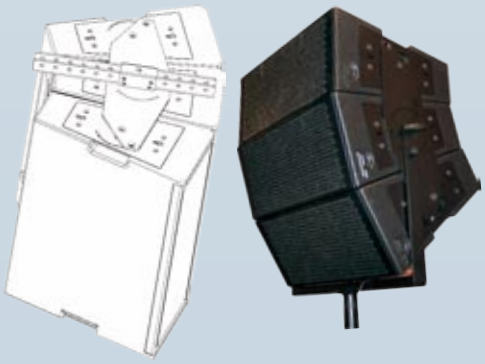
PL28FLR



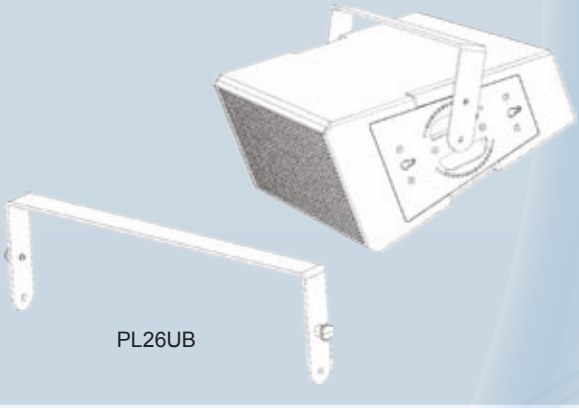
PL26FLR



PL26FLS



PL263



PL26UB

LS splay sprints

PLFL

LINE ARRAY HARDWARE

Model	Description
PL28FLR	Bumper frame for the PLA2821
PL26FLR	Bumper frame for the PLA2611
PL26FLS	Set of Left / Right spiders for using PLA2611 in an array
PL263	Cluster hardware plate for installing or rigging 3 x PLA2611
PL26UB	Installation bracket for PLA2611 with splay tilting sprint
PL26UB2	Installation bracket for using with the PL263 plate when installing 3 x PLA2611 or when using 3 x PLA2611 mounted on speaker stand, in a clubrig with subwoofers
LS825	Line array splay sprint for PLA2821
LS610	Line array splay sprint for PLA2611
LS615	Line array sprint for bumper frame PL26FLR
PLFL	Hardware for lifting line array with forklifts

All data, text and technical specifications in this catalogue are subjects to change without prior notice
For latest news, updates and specifications visit our web site www.prophon.com.

TRUST YOUR EARS!

www.prophon.com

TRUST YOUR EARS!

PROPHON

SOUND SYSTEMS

Stockholm, Sweden
Tel:+46 (0)8 92 86 00
Mail: info@prophon.com
Web: www.prophon.com