



S O U N D P R O J E C T S

Karperweg 16  
1317 SN Almere  
The Netherlands

Phone: +31 (0) 36 539 4570  
info@soundprojects.com  
www.soundprojects.com



YOUR DEALER

S O U N D P R O J E C T S



*The  
DreamLine  
Collection*

SOPHISTICATED SOUNDREINFORCEMENT

Bad sound systems are hardly made nowadays...

Precise audience coverage and maximum reverb suppression dictate line array designs of sufficient length, a proper curve and symmetrical horizontal radiation.

Decisive physical factors often overshadowed by restrained budgets. Too short arrays are the result; especially in smaller (budget) productions, auditoriums and touring companies.

Because of its correct shape, the 2.2 meter long DreamLine™ neatly omits this drawback by offering different loading to match budget or SPL needs.



Neither are very good ones!



Sound Projects applied context over dogma  
to further pursue perfection in  
shaping the DreamLine™...

...A design that performs greater than  
the sum of its parts!



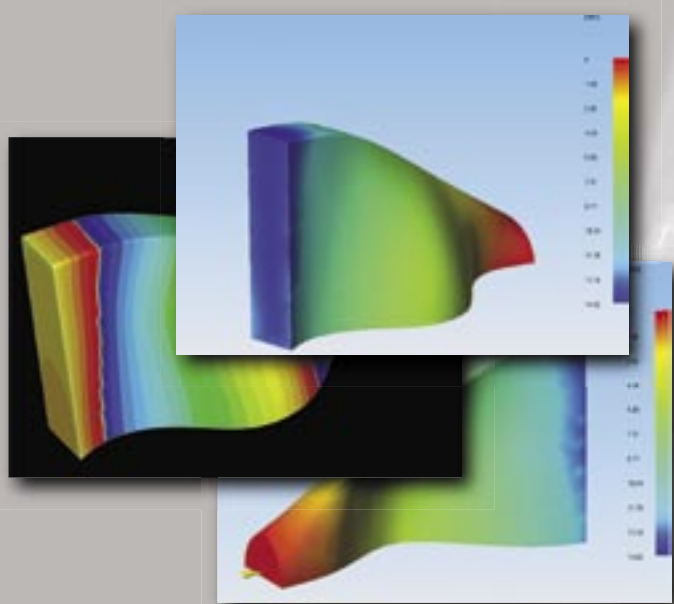
## Convenience



Sound Projects DreamLine™  
The blessings of  
line array technology  
come with the  
time saving convenience of  
a single self-powered box.

Twelve line array modules  
accompanied by dedicated  
electronic speaker management  
and abundant amplifier power  
merged in one elegant cabinet:  
A concept that conveniently evades  
labour intensive complexities and  
expensive hardware.

THE "ACOUSTIC BACKBONE"



The Sound Projects Wave-shape-transformer™ is the "acoustic backbone" that reshapes the spherical uni-phase wavefront generated by a low compression HF driver to a near plane cylindrical wavefront. A tangible and patented result of creativity, wavefront propagation analysis, acoustic simulation software and FFT measurements.

In each DreamLine™ twelve Wave-shape-transformer™ exits are symmetrically flanked by 24 bass drivers and mutually loaded by twelve constant directivity horns. This tight configuration vastly improves 'acoustic coupling' and balanced loading of the three separate sources. The long vertical transducer now evolved, yields extremely tight pattern control and negligible destructive HF interaction.

THE ELECTRONIC GAIN CHAIN



The electronic Gain Chain delivers reliability due to proven  $\eta$ -max technology, Dual Audiologic Level Control (DALC) and multiple MICRO-AMPs

$\eta$ -max (eta-max) is a proprietary low-noise gain structure from input XLR to speaker terminals.  $\eta$ -max virtually eliminates disturbing hiss or hum. The inaudibly gain riding DALC and filters control each of the four 600 W MICRO-AMP's maintaining the tonal balance of each Dreamline (2.4 kW Class D in HP versions)  $\eta$ -max effectively prevents excessive speaker excursion, burned coils and amplifier clipping.

Sophisticated So undreinforcement



The distinguished shape of the DreamLine™ is an emulation of the acoustic wavefront generated by all transducers in common.

A curved shape optimised for smoothest coverage that neatly seals in all the advantages of a line-array. Science became a sophisticated function of form.





THE MODELS



The DreamLine™ can be adapted to achieve different outputs in SPL and frequency-range.

- |                    |  |
|--------------------|--|
| Fixed installation | Useable frequency range down to 35 Hz      |
| Touring            | Useable frequency range down to 35 Hz      |
| The light version  | Half output, fullrange down to 35 Hz       |
| The High Power     | Double output, fullrange down to 90/140 Hz |
| The BassLine™      | Band-pass 60 to 90/140 Hz                  |

Sustainable system value because lower SPL versions will not become obsolete but can be upgraded if deemed necessary.

THE BASSLINE



The slender BassLine has the same distinguished appearance as the DreamLine™ and will dramatically augment the musical bass punch and increase total system headroom.

Flying one or two BassLines next to a DreamLine™ yields reduced reflection and hence a tighter, powerful “punch”. This feature is often diluted by flying sub systems above a line-array. The BassLine is an indispensable supplement for large auditoria, medium sized concerts-halls and dance events.



SP18



The SP18 excels in deep sub and will make any small system sound big. The SP18 is a frontloaded sub-low cabinet tuned to 32 Hz and equipped with a matched long excursion 18-inch driver. This combination together with its own "onboard"  $\eta$ -max<sup>®</sup> circuit and 1000 Watt MICRO AMP endows the SP18 with a stunning linear output between 30 and 120 Hz.

ANGLE ADAPTER

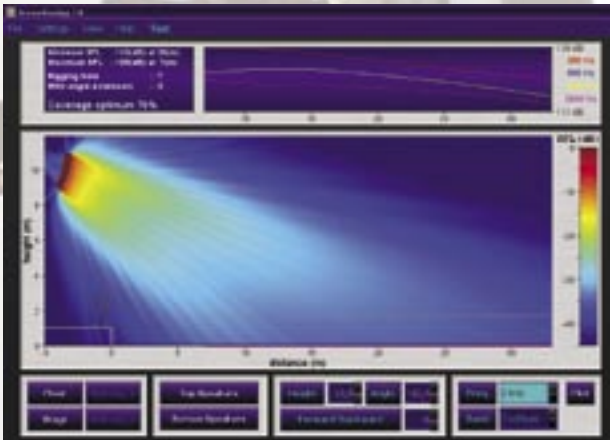


Flying the DreamLine™ is a joy due to the pragmatic multi position slide bar and multi Angle Adapter™ with theatre batten compatible G-hook. Since no human power is needed when lifting the system out of a case this can be done by a single person. In fixed install situations where the audio system needs to be pulled out regularly, the convenience and setup time has a positive effect on the total cost of ownership.



A comfortable advantage  
for the end users such as  
concert hall operators or FOH mixers...

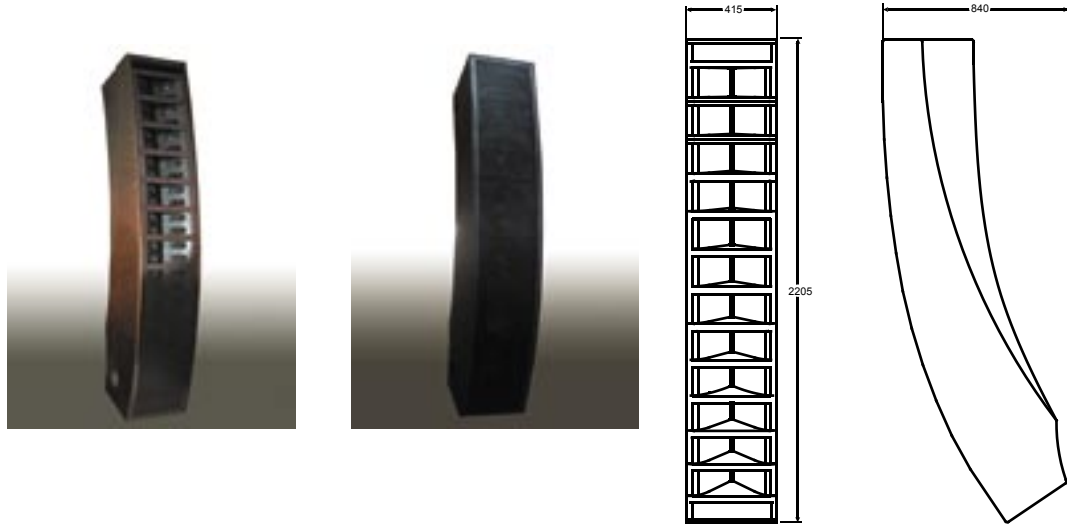
SPARC



SPARC™ is dedicated intuitive simulation software that will greatly simplify the installation and rigging of the DreamLine™ and the behaviour of a line array in general. Responsibility for the acoustical and mechanical design of the FOH installation is implicitly laid down there where it best should be: the system engineer, the consultant and/or the manufacturer.



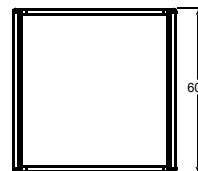
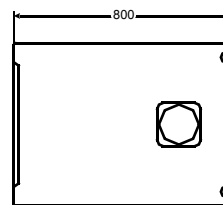
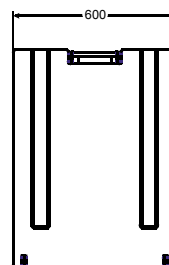
DreamLine™



Symmetrical Single Box Line Array Systems					
System	DreamLine Light	DreamLine Touring	DreamLine Fixed	DreamLine High Power	BassLine
Frequency response	35Hz-20kHz	35Hz-20kHz	35Hz-20kHz	35Hz-20kHz	60-90/140Hz
Maximum peak SPL (calc. @ 1m)	132 dB	138 dB	138 dB	144 dB	136 dB
Coverage (-6 dB points)	90 H x 40 V	90 H x 40 V	90 H x 40 V	90 H x 40 V	omni-directional
Amplifier power	4 x Micro AMP*	4 x Micro AMP*	4 x Micro AMP*	2 x Micro AMP* + 2 x classD**	3 x Micro AMP*
Transducers	24x6.5" / 12x1"	24x6.5" / 12x1"	24x6.5" / 12x1"	24x6.5" / 12x1"	6x12"
Weight	125 kg	120 kg	122 kg	130 kg	105 kg

\* 600W @ 4ohm \*\* Class D AMP 1600W @ 4ohm

SP18



Sublows	
System	SP18
Frequency response	25-60Hz / 250Hz
Maximum peak SPL @ 1m	132 dB
Coverage (-6 dB points)	omni-directional
RMS output	1000 W @ 8Ω
Transducers	18"
Weight	78 kg

TECHNICAL SPECIFICATIONS

FREQUENTLY ASKED QUESTIONS

Why a line array to begin with?

Because a long vertical sound source narrows the vertical radiation pattern!

Already in 1938 The Radio Corporation America (RCA) developed a first vertical array column loudspeaker system to increase SPL plus improve control on the radiation pattern. Some 50 years later high power, high frequency ribbon speakers and different variations on emulating such a ribbon transducer became available!

An important step forward for large-scale sound reinforcement and a new opportunity to reintroduce serious quality full band column speakers. Provided that they are of significant length, these arrays can substantially reduce the vertical spill above 100 Hz.

Why should a Dreamline be more economic than multiple cabinets?

A DreamLine™ needs no system alignment, no controller adjustment, no amp racks and no expensive rigging hardware for twelve consequentially heavy cabinets.

The DreamLine™ is but a +/- 130kg featherweight with a single point rigging and a typical installation time of 5 minutes. Since each individual DreamLine array module is carefully aimed, a stable listening image all over the audience is possible in any hall or flying position. Specific SPL needs can be met with several combinations of drivers and amplifiers which are also available as retrofit at a later stage. Hence redundancy is virtually eliminated

Why is low frequency pattern control so important?

Because disturbing room resonances mostly occur in low frequencies.

Echo's and unintentional reverb are destructive enemies of music as well as speech intelligibility. Larger public buildings with hard surface walls, ceilings and floors will exhibit several seconds of reverb. Often peaking between 100 to 500 Hz. Annoying slap echo's from the wall faced by the loudspeaker system may even run up to 2 kHz.

The length of the DreamLine™, i.e. tight vertical control plus the horizontally constant directivity horns each loading a woofer pair, significantly confine these room effects.

Why only one box with one shape?

Because the curve is dictated by the desired SPL balance between far and near audience.

Assuming a realistic length of 2 to 5 meter, any line array can only exhibit its optimum vertical constant directivity in one specific curve. All other, mechanically possible, curves will show an increased mismatch between the High and Low frequency lobes (beams). Different sound character for different audience positions and inferior speech intelligibility are the undesired side effects. Especially in large congress centres and multi purpose halls that often suffer from hard acoustics. This is the natural and inevitable compromise of a line array consisting of combined line sources. Low frequencies cannot be controlled by the curve but only by the length of the array and its flying angle.



New materials and design refinements are introduced into existing products without previous notice. As a logical consequence, present SOUND PROJECTS systems may differ in some respect from those presented in this brochure. Copyright 2010 SOUND PROJECTS. All rights reserved. Pictures courtesy of PAP Stavanger(N), Eurogress Aachen(D), PSK Brussels (BEL), Artex Arnhem (NL), Mediaworks Augsburg (GER), Musis Sacrum (NL), ASL Mechelen (BEL), Children of the Khmer Edinburgh (UK)