



 **VOICE**
ACOUSTIC
professional german loudspeaker systems

success through quality

Company & Philosophy

Voice-Acoustic

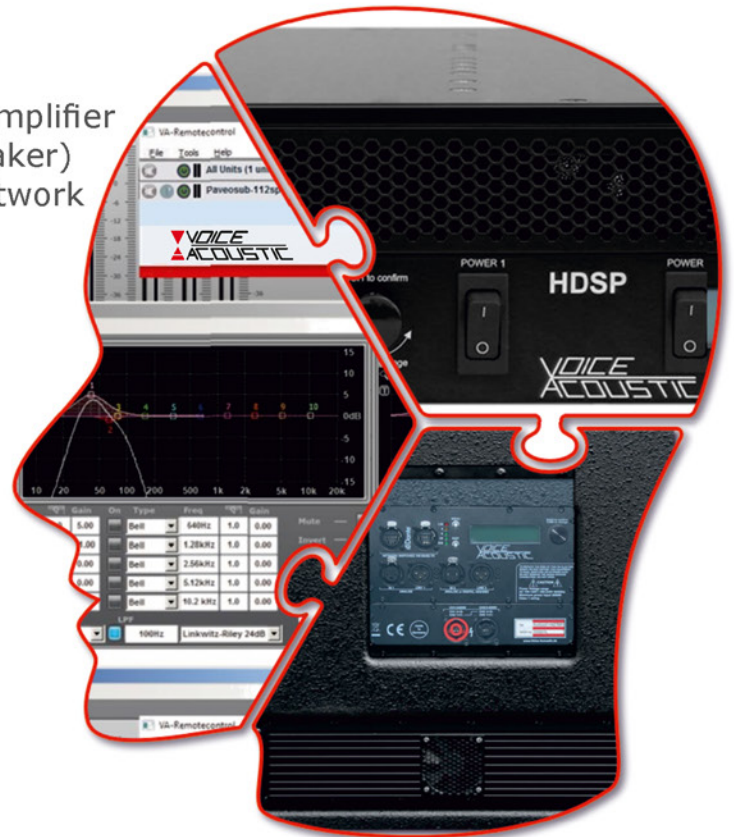
founded in 2006 in Dörverden (Germany), is a professional audio company for sound reinforcement systems. The company develops and builds professional loudspeaker solutions of outstanding quality, **MADE IN GERMANY**. The product portfolio includes innovative speaker and digital amplifier technologies for sophisticated mobile and installation applications.

Behind Voice-Acoustic is a team of German specialists, each of whom has more than 20 years of experience in the pro audio industry.



Philosophy (Pt.1)

The "BRAIN". You can combine any Voice-Acoustic top, subwoofer and system amplifier (19" HDSP rack amps and self-powered speaker) with each other and operate them in one network with the VA Remotecontrol software.



Philosophy (Pt.2)

In the self-powered speakers and HDSP amplifiers are installed identical electronic components with same power class and dsp. Through this system, all users are compatible with each other and can combine their systems. A major advantage for rental companies.

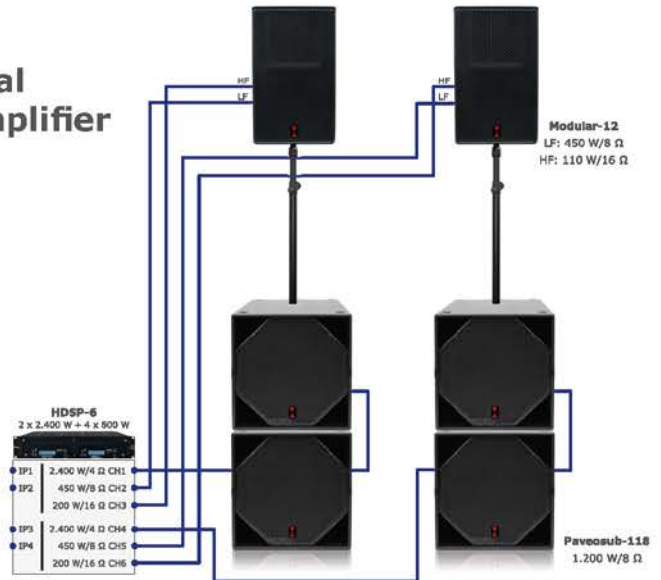
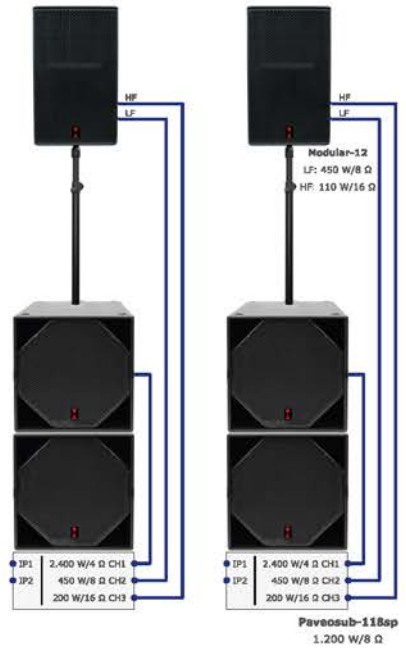
System Electronics



Internal self-powered

Compatible

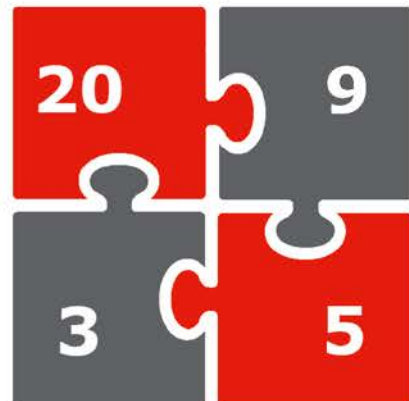
External 19" amplifier HDSP



Philosophy (Pt.3)

Combination between all components for maximum flexibility.

- ▶ 20 Mid/High Units
- ▶ 9 Subwoofer
- ▶ 3 Amp Modules
- ▶ 5 HDSP Amps



Loudspeaker Series

Ikarray-Series, Line-Array Loudspeakers



Ikarray-6

- ▶ 2x6,5"/8x1" Neodym
- ▶ hxv: 100°x10°



Ikarray-8

- ▶ 2x8"/4x1" Neodym
- ▶ hxv: 100°x5° or 100°x15°



Dante

Ikarray-12 / -12sp DDA

- ▶ 12"/1,4" Neodym
- ▶ hxv: 100°x6°

VENIA-Series, High Power Column Line-Array Loudspeakers



VENIA-6 / -6sp DDA

- ▶ 4x6,5"/3x1" Neodym
- ▶ hxv: 100°x0°/-20°



VENIA-8 / -8sp DDA

- ▶ 4x8"/4x1" Neodym
- ▶ hxv: 100°x0°/-20°

Modular-Series, Horizontal Arrayable Multipurpose Loudspeakers



Modular-10

- ▶ 10"/1" Neodym
- ▶ hxv: 90°x40° rotatable



Modular-12

- ▶ 12"/1,4" Neodym
- ▶ hxv: 90°x60° or 60x40° rotatable



Dante

Modular-15 / -15sp DDA

- ▶ 15" / 1,4" Neodym
- ▶ h x v: 90°x60° or 60x40° rotatable

Score-Series, d'Appolito Multipurpose Loudspeakers



Score-5

- ▶ 2x5"/1" Neodym
- ▶ hxv: 70°x55°



Score-8

- ▶ 2x8"/1,4" Neodym
- ▶ hxv: 90°x40° or 60x40°

Loudspeaker Series

LA-Stick-Series, Vertical Arrayable Design Column Loudspeakers



LA-Stick 4x4

- ▶ 4x4" Neodym
- ▶ hvx: 70°x (depending on angle)



LA-Stick 8x4

- ▶ 8x4" Neodym
- ▶ hvx: 70°x18°



LA-Stick 12x4

- ▶ 12x4" Neodym
- ▶ hvx: 70°x14°

Alea-Series, Ultra-Compact Design Loudspeakers



Alea-4

- ▶ 4" Neodym
- ▶ hvx: 70°x70°



Alea-5

- ▶ 5"/1" Coax Ferrit
- ▶ hvx: 100°x100°



Aleasub-10

- ▶ 10" Ferrit

CXN-Series, Stage Monitor Loudspeakers



CXN-16

- ▶ 4x8"/1,4" Neodym
- ▶ hvx: 40°x60° in monitor position

Paveosub-Serie, self-powered DDA or DA and non-self-powered Subwoofer



Paveosub-112

- ▶ 12" Neodym



Paveosub-115

- ▶ 15" Neodym



Paveosub-118

- ▶ 18" Neodym



Paveosub-218

- ▶ 2x18" Neodym

HDSP-DDA & DA Series System Amplifiers



Dante

The Voice-Acoustic HDSP-DDA amplifier series has been developed with the most demanding requirements in audio quality and reliability in mind. With the high number of output channels, it has become possible to separately filter bi and tri amping with the HDSP-DDA series cost effectively. The intelligent wide-range switching power supply automatically detects the AC input values making it possible to use anywhere in the world.

DDA stands for a new generation of DSP and input boards that can process a variety of signals: DANTE, Digital AES/EBU, AES67 and analog inputs. The signals can be looped further.

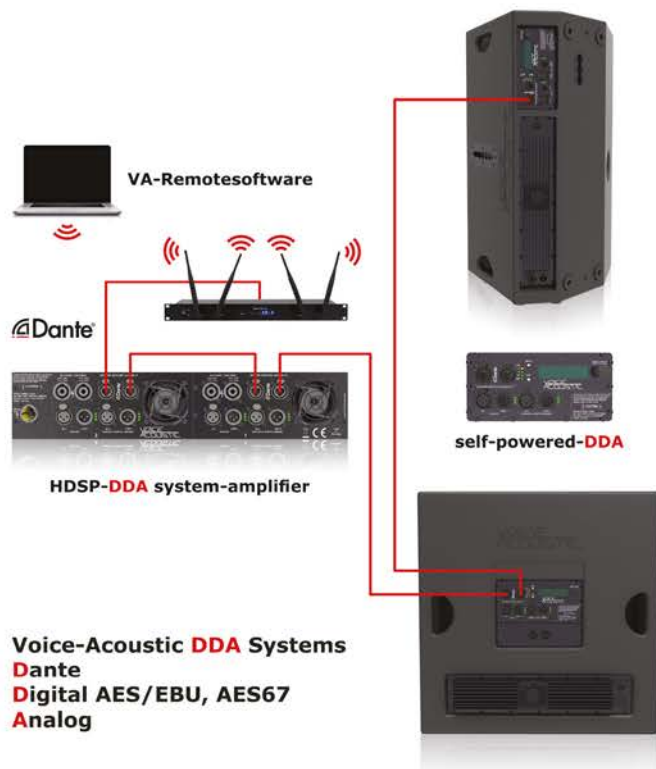
The DDA amplifiers are also available as **DA version** (Digital AES/EBU, AES67 and analog inputs) without DANTE chip.

The DANTE chip can be upgraded by a plug-on card on the DSP board. The HDSP-DA amplifier can so be converted to a DDA. The integrated loudspeaker management systems (DSP – digital signaling processor) work with a 64 bit/96 kHz sampling rate in audiophile sound quality. Premium converters offer a 120 db dynamic range and can process an input level of up to + 23 dBu. This amplifier series is specked out with the factory settings for the speakers, limiter and time alignment for the output channels. Additionally each input channel boasts 10 parametric filters (Bell, High Shelf, Low Shelf, Notch, Allpass), compressors, flexible routing, phase settings, a lengthy delay section for delays up to 275 meters, and an input limiter. The series is also equipped with enough memory to add your own presets for the use of loudspeakers from other manufacturers. The amplifiers are likewise available without Voice-Acoustic factory presets.

The LCD display on the front side enables all functions to be manually accessed from a digital rotary encoder and buttons. Our Voice-Acoustic's VA-WLAN remote software for PC or Mac offers even more convenient access to these controls. This software makes it possible to link, remotely operate and monitor up to 128 individual HDSP-DDA amplifier units or self-powered loudspeakers in one common network. Linking is accomplished fully automatically via IP-address. The connection operates bi-directionally in real-time and provides a diverse scope of system feedback (headroom, temperature, and impedance measurement).

One major advantage of Voice-Acoustic power amplifiers is their modular capability. Multiples of highly effective state-of-the-art Class-D modules are fitted with separate power supplies and separate DSP boards to endure redundancy and guarantee supreme operational safety. This easy-to-service modular style allows for simple and fast exchange of components by any electrical assistant in a short time. Compared to conventional multi-channel power amplifiers, which have to be powered with one power supply, the HDSP-DDA amplifier's modular capabilities guarantee maximum performance and lots of headroom – even in a deep base range without simultaneously influencing other channels.

The electronics have been mounted upside-down in the super sturdy 19" aluminum housing. Any dust particles will float to the floor of the box and not lay down on the platinum. All 2HE power amplifiers have identical housing and back cover plates.



Voice-Acoustic DDA Systems
Dante
Digital AES/EBU, AES67
Analog



Modell	CH	Power 4 Ohm	Power 8 Ohm	Power 16 Ohm	Technology	Power Supply, DSP-Boards, Class-D Module	Internal Presets	Analog In/Out	Digital In/Out AES/EBU	Dante, AES67 Ch
HDSP-6DDA	6	8.000 W 2x 2.400 + 4x 800	4.960 W 2x 1.580 + 4x 450	2.400 W 2x 800 + 4x 200	Dual	2	2 x 120	4	2	4
HDSP-4DDA	4	6.400 W 2x 2.400 + 2x 800	4.060 W 2x 1.580 + 2x 450	2.000 W 2x 800 + 2x 200	Dual	2	2 x 120	4	2	4
HDSP-3DDA	3	4.000 W 1x 2.400 + 2x 800	2.480 W 1x 1.580 + 2x 450	1.200 W 1x 800 + 2x 200	Single	1	120	2	1	2
HDSP-0.4DDA	4	3.200 W 4x 800	1.800 W 4x 450	800 W 4x 200	Dual	2	2 x 120	4	2	4
HDSP-0.2DDA	2	1.600 W 2x 800	900 W 2x 450	400 W 2x 200	Single	1	120	2	1	2

PD-32-6 V2 Power Distributor



Intelligent power distributor, suitable for applications in temporary and permanent installations.

For maximum operating reliability of all connected equipment and smallest possible cut-offs the PD-32-6 V2 is equipped with novel fault current management systems.

Standard power distributors have one residual-current-operated protective device (RCD) only. Each cut-off affects the whole system and all power for all devices is off. The PD-32-6 V2 features six independent circuits (RCBO) which allows to switch off only the defective circuit and all other equipments remains online – The show can go on.

Big advantage is that possible errors can be spotted more easy as only the switched off equipment has to be monitored. A multimeasuring tool is also included to make mistake spotting even more easy and faster.

The built-in Run-time counter is essential in rental business and helps checking the real run-time of your equipment and checking the right maintenance periods.

In all three versions it has a 32 A CEE input with permanently connected 2 m cable H07RN-F 5G6 and a 32 A CEE output. Further outputs are designed as 6 x Schuko hinged cover sockets, and in parallel either 6 x Neutrik powerCON, 6 x Neutrik powerCON TRUE1, or 1 x Multipin ILME 16 pin. The Schuko hinged lid sockets can optionally be replaced by Swiss T23 standard or French/Belgian Schuko.

The PD-32-6 V2 power distributor is housed in a 19"/3HE housing.

One PD-32-6 V2 can power six HDSP-6 system amplifiers. The power distributor can use the same stack-rack system as the amplifier and can connected with the internal stack rack mechanism to a tower on the special stack rack wheelboard.

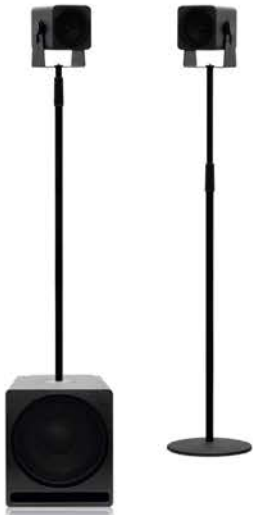


IN	32 A CEE Mennekes connector with 2 m cable (H07RN-F5G6)
OUT	1 x Output CEE 32 A 400 V Mennekes, 5p. 6 h 6 x Schuko Mennekes
Model 1	6 x Neurik powerCON TRUE1 NAC3FPX (parallel zu Schuko)
Model 2	6 x Neurik powerCON (grau) NAC3MPB-1 (parallel zu Schuko)
Model 3	1 x Multipin ILME 16 pol.
Protection	6 x RCBO C 16 A 1p./0.03 A from ABB
Other	3 x phase light 1 x multifunction measuring instrument 1 x earth screw Internal cabling cabling with 6 and 2,5 qmm wire
Body housing	19"/3 HE, 260 mm deep, strong black colored steel housing
Weight	15,6 kg

SubSat Sets HDSP powered or self-powered

Alesub-10 Media Set

- ▶ 1x Aleasub-10
- ▶ 2x Alea-4



Alesub-10 Install Set

- ▶ 2x Aleasub-10
- ▶ 4x Alea-4



SubSat-4 / -4sp Set

- ▶ 1x Paveosub-112 / -112spDDA
- ▶ 2x Alea-4 passive



SubSat-5/-5sp Set

- ▶ 1x Paveosub-112 / -112spDDA
- ▶ 2x Alea-5



SubSat-LA4/-LA4sp basic Set

- ▶ 2x Paveosub-112 / or one of them in -112sp DDA
- ▶ 2x LA-Stick 4x4



SubSat-LA4/-LA4sp Set

- ▶ 4x Paveosub-112 / or two of them in -112sp DDA
- ▶ 8x LA-Stick 4x4



SubSat-LA4/-LA4sp large Set

- ▶ 4-8x Paveosub-112 / or two(four) of them in -112sp DDA
- ▶ 8x LA-Stick 4x4



SubSat-LA8/-LA8sp Set

- ▶ 2x Paveosub-115 / or one of them in -115sp DDA
- ▶ 2x LA-Stick 8x4



SubSat-LA12/-LA12sp Set

- ▶ 2x Paveosub-118 / or one of them in -118sp DDA
- ▶ 2x LA-Stick 8x4



SubSat Sets HDSP powered or self-powered

Score-5 / -5sp Set

- ▶ 2x Paveosub-112 / or one of them in -112sp DDA
- ▶ 2x Score-2



Score-8 / -8sp basic Set

- ▶ 2x Paveosub-118 / or one of them in -118sp DDA
- ▶ 2x Score-8



Score-8 / -8sp Set

- ▶ 2x Paveosub-118 / or two of them in -118sp DDA
- ▶ 2x Score-8



SubSat-10/-10sp Set 2.1

- ▶ 1x Paveosub-115 / -115spDDA
- ▶ 2x Modular-10



SubSat-10/-10sp Set 2.2

- ▶ 2x Paveosub-115 / or one of them in -115sp DDA
- ▶ 2x Modular-10



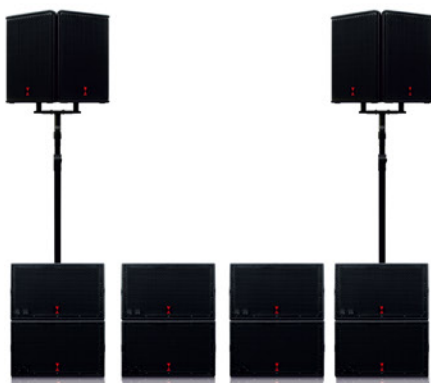
SubSat-10/-10sp Set 2.4

- ▶ 4x Paveosub-115 / or two of them in -115sp DDA
- ▶ 2x Modular-10



SubSat-10/-10sp Set 4.8

- ▶ 8x Paveosub-115 / or four of them in -115sp DDA
- ▶ 4x Modular-10
(Due to the arrayable design Modular-10 can be used in a horizontal cluster)



SubSat-12/-12sp Set 2.2

- ▶ 2x Paveosub-118 / or 2x in -118sp DDA
- ▶ 2x Modular-12



SubSat-12/-12sp Set 2.4

- ▶ 4x Paveosub-118 / or two of them in -118sp DDA
- ▶ 2x Modular-12



SubSat Sets HDSP powered or self-powered

SubSat-12/-12sp Set 4.8

- ▶ 8x Paveosub-118 / or four of them in -118sp DDA
- ▶ 4x Modular-12
(Due to the arrayable design Modular-12 can be used in a horizontal cluster)



SubSat-15/-15sp Set 2.4

- ▶ 4x Paveosub-118 / or two of them in -118sp DDA
- ▶ 2x Modular-15 / -15sp DDA



SubSat-15/-15sp Set 4.8

- ▶ 8x Paveosub-118 / or four of them in -118sp DDA
- ▶ 4x Modular-15 / or two of them in -15sp DDA
(Due to the arrayable design Modular-15 can be used in a horizontal cluster)



VENIA-6 / -6sp Set 2.2

- ▶ 2x Paveosub-118 / or one of them in -118spDDA
- ▶ 2x VENIA-6 / -6sp DDA



VENIA-6 / -6sp Set 2.4

- ▶ 4x Paveosub-118 / or two of them in -118spDDA
- ▶ 2x VENIA-6 / -6sp DDA



VENIA-6 / -6sp Set 2.6

- ▶ 6x Paveosub-118 / or three of them in -118sp DDA
- ▶ 2x VENIA-6 / -6sp DDA



VENIA-8 / -8sp Set 2.4

- ▶ 4x Paveosub-118 / or two of them in -118sp DDA
- ▶ 2x VENIA-8 / -8sp DDA



VENIA-8 / -8sp Set 2.6

- ▶ 6x Paveosub-118 / or two of them in -118sp DDA
- ▶ 2x VENIA-8 / -8sp DDA



VENIA-8 / -8sp Set 2.8

- ▶ 8x Paveosub-118 / or four of them in -118sp DDA
- ▶ or 4x Paveosub-218 / -218sp DDA
- ▶ 2x VENIA-8 / -8sp DDA



SubSat Sets HDSP powered or self-powered

Ikarray-6 / -6sp Set 2.2

- ▶ 2x Paveosub-115 / -115sp DDA
- ▶ 2x Ikarray-6



Ikarray-6 / -6sp Set 4.2

- ▶ 2x Paveosub-118 / -118sp DDA or 4x Paveosub-115 / -115sp DDA
- ▶ 4x Ikarray-6



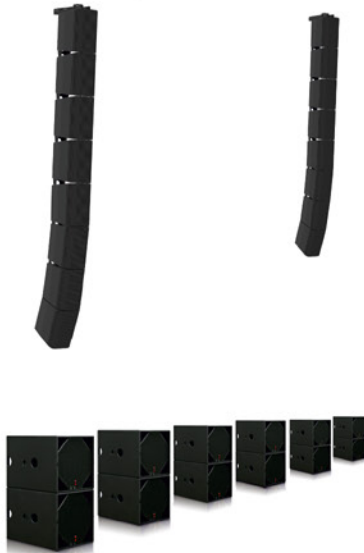
Ikarray-6 / -6sp Set 8.6

- ▶ 6x Paveosub-118 / -118sp DDA
- ▶ 8x Ikarray-6



Ikarray-6 Set 16.12

- ▶ 12x Paveosub-118
- ▶ 16x Ikarray-6



Ikarray-8 / -8sp Set 4.6/6.8

- ▶ 6/8x Paveosub-118 / or three of them in -118sp DDA
- ▶ 4/6x Ikarray-8



Ikarray-8 / -8sp Set 8.12/16

- ▶ 12-16x Paveosub-118 / or 6-8 of them in -118sp DDA
- ▶ or 6-8x Paveosub-218 / -218sp DDA
- ▶ 8x Ikarray-8



Ikarray-12 / -12sp Set 8.6

- ▶ 6x Paveosub-218 / -218sp DDA
- ▶ 8x Ikarray-12 / -12sp DDA



Ikarray-12 / -12sp Set 12.8

- ▶ 8x Paveosub-218 / -218sp DDA
- ▶ 12x Ikarray-12 / -12sp DDA



Ikarray-12 / -12sp Set 24.16

- ▶ 16x Paveosub-218 / -218sp DDA
- ▶ 24x Ikarray-12 / -12sp DDA (max. configuration 32x IK12, 24x PAV-218)



Ikarray-12 / -12sp DDA



Dante

self powered:



The Ikarray-12/12sp is an innovative 2-way bi-amping, full range line-array. This lightweight, compact unit with many intelligent detail solutions is suited for everything from small events up to large venues with many thousand listeners.

Much emphasis has been placed on constant directivity and linear frequency response even outside the mid-axis. This has been achieved on the horizontal level with one 12-incher, single mounted to give a wide dispersion without restrictions such as those caused when two transducers are placed next to each other (d'apollito effect).

The vertically optimal coupling of the elements with each other is achieved by a narrow construction distance and splitting the acoustic centers into several virtual sound sources: A special double-twin waveformer is coupled to the 1.4" tweeter, which segments the sound into 4 subranges. The double-twin waveformer makes it possible to reduce the distances between the sound sources to a minimum and to optimize the crossover frequencies and coupling. In contrast to many other arrays of this size, the Ikarray-12 has a warm and rich fundamental with powerful low-mids and enables deep separation. For many applications it can therefore be used fullrange without additional bass.

In comparison to many other arrays of this size, the Ikarray-12 has a warm sound with powerful low-mids that allow a low x-over. As a result, the Ikarray-12 can be used for many purposes without subwoofers.

With completed dimensions of only 60.5 cm, the Ikarray-12 keeps within the advantageously trucking-di-mensions and is world-wide the narrowest in the 12"/1.4" class. Used in the ground-stack position on the Paveosub-218 it exhibits an elegant silhouette and giving an optical unity.

The splaying between the individual Ikarray units is achieved by an innovative infinitely adjustable spindle mechanism. This enables more precise adjustment and optimization of acoustics than has been possible up to now with traditional locking-pin rigging systems. As an additional feature the fine adjustment of the mechanism can also be done under load.

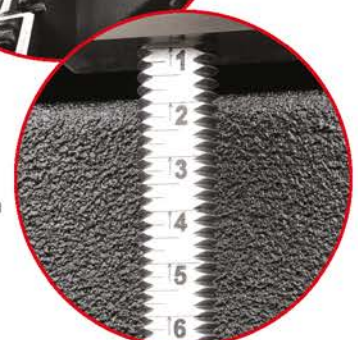
For changing an angle between the elements the complicated unloading and de-rigging of the array become unnecessary. This saves a lot of time and makes work easier. Outriggers with adjustable feet can be mounted on the rigging frame for ground stacking without subs. To create a sleek and discreet look, the line-array locking pin connection has been sunken into the loudspeaker body without extending parts.

For smaller venues with only one or two flying arrays, neither the larger rigging frame nor any other specialty parts are needed. For this purpose, the Ikarray-12 is equipped with the specially designed VA-flying tracks that click into the elegant Easy-fly mechanism – also used in the modular series.

One self-powered Ikarray-12sp can power up to three additional bi-amping units.



Frequency range	49 Hz - 18.5 kHz (- 10 dB) 62 Hz - 17 kHz (+/- 3 dB)
Coverage range	100° horizontal, 6° vertical
Powerhandling 16 Ω	LF: 400 W AES / 800 W program / 1.600 W peak HF: 110 W AES / 220 W program / 440 W peak
Sound pressure	130 dB SPL AES / 133 dB SPL program / 136 dB SPL peak
Components	LF: 1 x 12" Neodym woofer with 3" voice coil HF: 1 x 1,4" Neodym driver with 3" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT, bi-amping 1+/- HF, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 1 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x USB & Ethernet (self-powered)
Mounting	Array / Ground Stacking: Rigging frame Up to two elements among each other can flown with the Easy-fly mechanism
Dimensions/Weight	325 (h) x 605 (w) x 520 mm (d) / 27,9 kg (self-powered: 31,9 kg)
Amplifier	2-channel 3,2 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 HF	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω



Ikarray-8



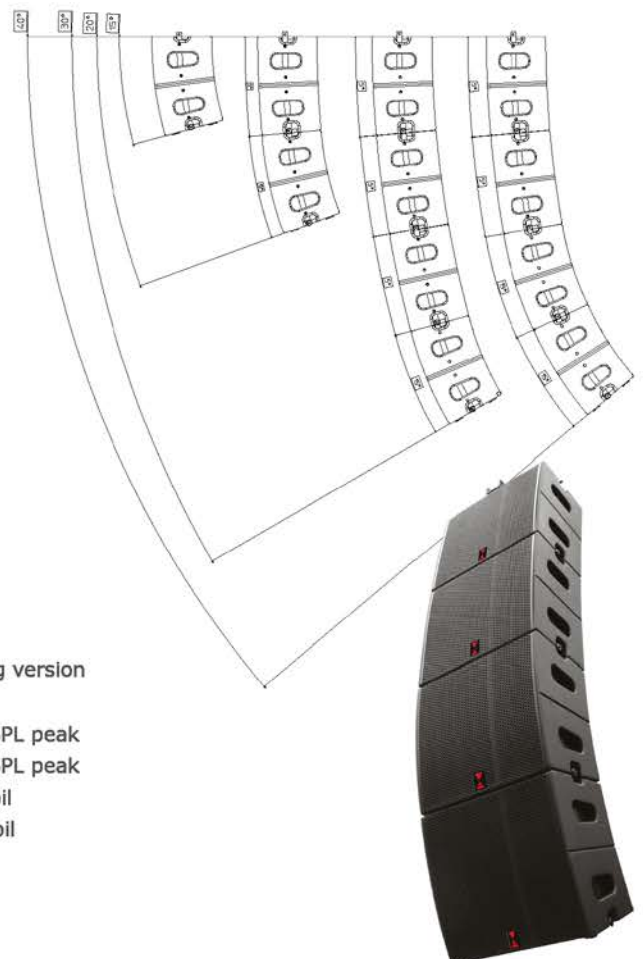
The Ikarray-8 is a novel concept plug&play line-array with incredible power density: 2 x 8" and 4 x 1" drivers are stacked vertically in a compact housing. Few elements of this system are needed to achieve acoustically effective length and great range. It closes the gap between conventional loudspeakers and line-arrays.

Contrary to conventional line-arrays there is no need for the user to deal with simulation software, splay angles, rigging hardware and DSP filters. Ikarray-8 comes precurved and elements are simply connected to each other at fixed angles. For greater flexibility and scalability array elements will be available with 5° x 100° and 15° x 100° directivity pattern. This way, several units can be connected without vertical coverage becoming too big. This results in higher achievable SPL and headroom compared to other constant curved system which are limited to fewer elements. This unique feature is patent pending. Ikarray-8 is suitable not only for smaller venues, but also for medium sized.

The continuous steel rigging system is concealed within the cabinet and there are no protruding metal parts. This imparts the system with an elegant and unobtrusive appearance, suitable for sophisticated demands in mobile and especially installation application. Stacking feet and their corresponding slots allow immediate and easy cabinet alignment and connection via ball lock bolt. 4 handles provide optimum handling. The Ikarray-8 has an innovative flight mechanism that can also be used on a tripod with the optional tripod. In both cases it can be mounted and aligned without tools.

The 8" woofers have been recessed to optimize the time alignment for the passive crossover. On the other hand the recess has been used to provide the woofers with additional horn loading. The horn flare also makes sure that criteria for a coherent wavefront are met by forming a narrow rectangular outlet.

Voice-Acoustic HDSP-Amplifiers and self-powered subwoofers contain presets for all 5° and 15° combinations and guarantee optimum performance. One Ikarray-8 is powered by a single 800 W amplifier channel. This turns Ikarray-8 into one of the most cost-effective systems available.



Frequency range 15°	80 Hz - 18 kHz (- 10 dB) 117 Hz - 16 kHz (+/- 3 dB)
Frequency range 5°	80 Hz - 19 kHz (- 10 dB) 117 Hz - 16 kHz (+/- 3 dB)
Coverage range (h x v)	100° x 15° or 100° x 5° depending on the housing version
Powerhandling 4 Ω	500 W AES / 1.000 W program / 2.000 W peak
Sound pressure 15°	131 dB SPL AES / 134 dB SPL program / 137 dB SPL peak
Sound pressure 5°	133 dB SPL AES / 136 dB SPL program / 139 dB SPL peak
Components	2 x 8" Neodym woofer with 65 mm (2,5") voice coil 4 x 1" Neodym driver with 44 mm (1,75") voice coil
Connectors	2 x Neutrik NL4 Speakon IN and OUT, 1+/-1-
Mounting	Toolless flight mechanics with tripod option
Dimensions/Weight	465 (h) x 513 (w) x 291 mm (d) / 26,2 kg

Ikarray-6



The Voice-Acoustic Ikarray-6 is a passive 2-way compact line-array system equipped with 2 x 6.5" transducer and a centrally positioned, continuous line of 8 x 1" tweeters with 100° horizontal dispersion.

The tweeter array features a slight pre-curling of the wavefront to achieve better coupling between angled array elements. To increase power handling and reduce power compression, the tweeters are mounted on a heat sink which is cooled by the airflow from the newly designed long-excursion neodymium woofers. By positioning two 6.5" transducers above each other, the effective length for long throw into the low-mids is achieved cost-effectively with just a few array elements. In addition, the design is very slim, a line-array in the favoured column format.

The sound quality of the Ikarray-6 is comparable to a high-quality studio monitor, but with concert sound level. Voices and instruments are reproduced in high resolution and smoothly over the entire dispersion range. The Ikarray sounds much more powerful and larger than its compact dimensions would suggest. Due to a low cut-off frequency, the combination with any subwoofer is possible.

Truly unique is the newly developed, innovative steel-in-steel rigging system of the Ikarray-6. It is visually hidden on the back of the speaker and allows easy adjustment of the angle from 0-10° in 1° steps. Thanks to the patented connection mechanism, no rigging hardware is required on the front or side panel of the speaker. This allowed the appearance of the Ikarray-6 to be designed in a timelessly classy style. The beautifully curved front grille with discreet mini-honeycomb perforation and large lateral R50 radii makes the speaker look very elegant even in architecturally demanding environments and can be integrated unobtrusively anywhere.

With the optional VENIA-6 X-Tension Kit, a design stand in the same housing format, the Ikarray-6 becomes a design sculpture and can thus be brought up to height in a visually appealing way when flown application is not possible. A steel base plate is available to ensure that the X-Tension stands securely. In addition, the X-Tension can also be mounted on any subwoofer with M20 threaded flange.

Due to its low weight, the Ikarray-6 can be easily handled by just one person and can also be used on a speaker stand or distance rod.

The wide range of accessories, excellent optical and acoustic properties, great flexibility and wide scalability make the Ikarray-6 system an ideal sound reinforcement tool that offers expert planners and users many possibilities.



Frequency range	57 Hz - 22,5 kHz (- 10 dB) 110 Hz - 17 kHz (- 3 dB)
Coverage range (h x v)	100° x 10°
Powerhandling 16 Ω	400 W AES / 800 W program / 1.600W peak
Sound pressure	121 dB SPL AES / 124 dB SPL program / 127 dB SPL peak
Components	2 x 6,5" Neodym woofer with 45 mm (1,8") voice coil 8 x 1" Neodym dome tweeters with 25 mm (1") voice coil
Connectors	2 x Neutrik NL4 Speakon IN and OUT, 1+/1-
Mounting	Toolless flight mechanics with tripod option
Dimensions/Weight	347 (h) x 210 (w) x 303 mm (d) / 8,9 kg

VENIA-6 / -6sp DDA



Dante

self powered DDA:



The Voice-Acoustic VENIA-6 is a passive 2-way column line array loudspeaker, equipped with 4 x 6.5" drivers and 3 x 1" compression drivers. The high-frequency drivers are coupled to a line array waveguide and produce a dispersion angle of 100° horizontally and 0°/-20° vertically via a large horn. The HF section of the VENIA series provides a vertically asymmetrical sound pressure coverage with a plane wavefront. The principle of larger line arrays is transferred to the VENIA loudspeakers in a compact column format: the high-frequency energy is bundled to cover longer distances and the near field is covered by curving with a lower energy content distributed to a larger area. The result is a very balanced level distribution across the entire listening area with very homogeneous sound distribution. This gives VENIA-6 an enormous advantage as a single loudspeaker and is also easier and faster to set up and commission than conventional line array systems. With its low crossover frequency, the VENIA-6 is also a convincing full-range stand-alone solution. With its powerful performance, it is also an elegant Main-PA in combination with several subwoofers. A stereo pair of VENIA-6s can be combined with up to six Paveosub-118. Thanks to the powerful high-frequency driver unit, the VENIA-6 always plays in a relaxed and pleasant manner, even at high volumes, and meets even the highest sonic demands. The VENIA-6's sophisticated detail solutions and extensive range of accessories allow for a wide variety of applications and installations. The integrated pole mount, the tool-free mountable Voice-Acoustic Easyfly mechanism, or the U- and C-bracket and various M10 mounting points leave nothing to be desired. For best handling in mobile operation, up to 11 u-shaped handles can be mounted vertically and horizontally on the rear. A safety cable for secondary safety can be attached with a single-stud. Two VENIA loudspeakers can be operated in head stacking configuration, which extends the range of applications. Like the other Voice-Acoustic loudspeakers, the housing is made of sturdy birch plywood of highest quality: CNC milled, grooved, screwed and waterproof glued. The surface is protected by a stable and moisture-resistant polyurea coating in black. White speakers and special colours with 2K textured paint are optional available. The Voice-Acoustic VENIA series sets a new standard in performance and design for high-performance column line array loudspeakers.

Frequency range	48 Hz - 19 kHz (- 10 dB) 80 Hz - 19,5 kHz (+/- 3 dB)
Coverage range	100° x 0°/ -20
Power handling 8Ω	800 W AES / 1.600 W program / 3.200 W peak
Sound pressure	128 dB SPL AES / 131 dB SPL program / 134 dB SPL peak
Components	LF: 4 x 6,5" Neodym woofer with 1,8" voice coil HF: 3 x 1" Neodym compression driver with 1,75" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x Dante, AES/EBU, AES67 (self-powered)
Mounting	1 x Easyfly mechanism for horizontal mounting 1 x back-facing Flying Track for safety cable 22 x M10 Mounting points 16 thereof with 5 mm steel interior angles 10 x Mounting points for bracket handle aluminum 1 x Dual-tilt stand flange 0° und 5°
Dimensions/Weight	1.050 (H) x 213 (B) x 390 mm (T) / 27,9 kg (self-powered: 32,9 kg)
Amplifier	2-channel 3,2 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 HF	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω



VENIA-8 / -8sp DDA



Dante



self powered DDA:



The Voice-Acoustic VENIA-8 is a 2-way bi-amplified column line array loudspeaker, equipped with 4 x 8" drivers and 4 x 1" compression drivers. The high-frequency drivers are coupled to a line array waveguide and produce a dispersion angle of 100° horizontally and 0°/-20° vertically via a large horn. The HF section of the VENIA series provides a vertically asymmetrical sound pressure coverage with a plane wave front. The principle of larger line arrays is transferred to the VENIA loudspeakers in a compact column format: the high-frequency energy is bundled to cover longer distances and the near field is covered by curving with a lower energy content distributed to a larger area. The result is a very balanced level distribution across the entire listening area with very homogeneous sound distribution. This gives VENIA-8 an enormous advantage as a single loudspeaker and is also easier and faster to set up and commission than conventional line array systems. Due to its low crossover frequency, the VENIA-8 can be combined with any subwoofer. With its above-average performance of almost 140 dB at a weight of just 35 kg, it is also a powerful Main-PA in combination with several subwoofers. A stereo pair of VENIA-8s can be combined with up to eight Paveosub-118. Thanks to the powerful high-frequency driver unit, the VENIA-8 always plays in a relaxed and pleasant manner, even at high volumes, and meets even the highest sonic demands. The VENIA-8's sophisticated detail solutions and extensive range of accessories allow for a wide variety of applications and installations. The integrated pole mount, the tool-free mountable Voice-Acoustic Easyfly mechanism, or the U- and C-bracket and various M10 mounting points leave nothing to be desired. For best handling in mobile operation, up to 20 u-shaped handles can be mounted vertically and horizontally on the rear. A safety cable for secondary safety can be attached with a single-stud. Two VENIA loudspeakers can be operated in head stacking configuration, which extends the range of applications. Like the other Voice-Acoustic loudspeakers, the housing is made of sturdy birch plywood of highest quality: CNC milled, grooved, screwed and waterproof glued. The surface is protected by a stable and moisture-resistant polyurea coating in black. White speakers and special colours with 2K textured paint are optional available. The Voice-Acoustic VENIA series sets a new standard in performance and design for high-performance column line array loudspeakers.



Frequency range	56 Hz - 19 kHz (- 10 dB) 72 Hz - 16 kHz (+/- 3 dB)
Coverage range	100° x 0° / -20°
Power handling	LF: 1.000 W AES / 2.000 W program / 4.000 W peak HF: 160 W AES / 320 W program / 640 W peak
Sound pressure	133 dB SPL AES / 136 dB SPL program / 139 dB SPL peak
Components	LF: 4 x 8" Neodym woofer with 2,5" voice coil, 8 Ω HF: 4 x 1" Neodym compression driver with 1,75" voice coil, 8 Ω
Connectors	2 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x Dante, AES/EBU, AES67 (self-powered)
Mounting	1 x Easyfly mechanism for horizontal mounting 1 x back-facing Flying Track for safety cable 22 x M10 Mounting points 16 thereof with 5 mm steel interior angles 14 x Mounting points for bracket handle aluminum 1 x Dual-tilt stand flange 0° und 5°
Dimensions/Weight	1.050 (H) x 213 (B) x 390 mm (T) / 27,9 kg (self-powered: 32,9 kg)
Amplifier	2-channel 3,2 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 HF	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω



The Modular-10 is a 2-way speaker passive with 10"/1" Neodym. The Modular series is extremely flexible and is innovative with its combination of array point source systems and multifunctional usable individual speakers.

As well as its use as a single full-range speaker, with high performance head with bass support and high-performance monitor on stage, the Modular series also designed to be used with multiple units next to each other, in a horizontal array design.

Any interference and associated sound interruptions between the sound sources are reduced to a minimum by using special housing geometry, suitable for the narrower beam angle of the rotatable horn. Each horn works only in its defined sound directivity. This technique allows the user an even greater range of applications with only one speaker model and is registered at the Patent Office.

„Easyfly“, (also registered with the Patent Office), is a new 'one-click' mechanism which allows tool-free hanging and precise alignment in a few seconds. The mechanism is more elegant and smaller than a conventional rigging brace.

The Modular series is equipped with inconspicuous mounting rails on two sides of the housing. This means the speaker can be hung or flown upright or horizontally, using the 'Easyfly' mechanism. At the back is a third mounting rail for the compulsory safety cable.

For accurate alignment on a stand or mounting pole, the Modular series has an internal, tilting pole socket enabling and an adjustment of +/- 18° tilt.

The Modular-10 uses a 10" chassis of the latest generation and has been specifically designed for a clean, detailed midrange with a high, undistorted sound pressure. A particularly low moving mass (mms 31 g) in conjunction with the extremely powerful neodymium driver (B/L factor 20) enable a very high sound pressure.

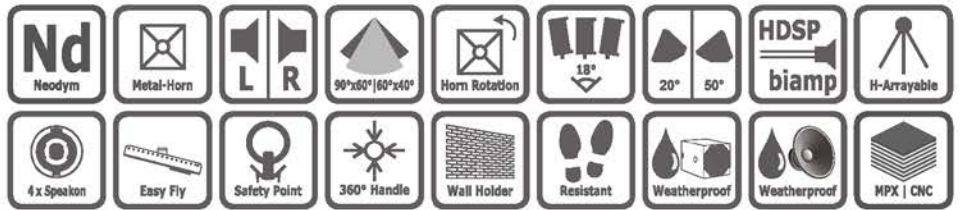
The chassis can be driven hard, and heat dissipates optimally keeping the power compression low. The magnet system use ventilation openings in. The aluminum demodulation rings in the magnet system ensure low distortion.

The Modular-10 can be installed with the 'Easyfly' mechanics, via the rear mountable tilt and swivel wall mount, or the 8 internal M10 thread points with steel angles.



Frequency range	70 Hz - 22 kHz (- 10 dB) 107 Hz - 21 kHz (+/- 3 dB)
Coverage range	90° x 40° arrayable and rotatable horn
Power handling 8 Ω	350 W AES / 700 W program / 1.400 W peak
Sound pressure	125 dB SPL AES / 128 dB SPL program / 131 dB SPL peak
Components	LF: 1 x 10" Neodym woofer with 2,5" voice coil HF: 1 x 1" Neodym driver with 1,7" voice coil
Connectors	2 x Neutrik NL4 Speakon, configuration: 1+/1- HF, 2+/2- LF, passive 1+/1-
Mounting	2 x Easyfly mechanism for vertical and horizontal Mounting 1 x back-facing Flying Track for safety cable 8 x M10 rigging points with 5 mm steel interior angles 2 x M6 point on the back side for adjustable wall holder 1 x tilting pole socket +/- 18°, tilt for a stand or mounting pole
Dimensions/Weight	520 (h) x 321 (w) x 267 mm (d) / 15,3 kg

Modular-12



The Modular-12 is a bi-amping multifunctional loudspeaker with high-quality 12"/1,4" neodymium drivers.

The Modular series is extremely flexible and is innovative with its combination of array point source systems and multifunctional usable individual speakers. As well as its use as a single full-range speaker, with high performance head with bass support and high-performance monitor on stage, the Modular series also designed to be used side by side in a horizontal array.

Any interference and associated sound interruptions between the sound sources are reduced to a minimum by using special housing geometry, suitable for the narrower beam angle of the rotatable horn. Each horn works only in its defined sound directivity. This technique allows the user an even greater range of applications with only one speaker model and is registered at the Patent Office.

"Easyfly", (also registered with the Patent Office), is a new 'one-click' mechanism which allows tool-free hanging and precise alignment in a few seconds. The mechanism is more elegant and smaller than a conventional rigging brace. The Modular series is equipped with inconspicuous mounting rails on two sides of the housing. This means the speaker can be hung or flown upright or horizontally, using the 'Easyfly' mechanism. At the back is a third mounting rail for the compulsory safety cable.

For accurate alignment on a stand or mounting pole, the Modular series has an internal, tilting pole socket enabling an adjustment of +/- 18° tilt.

The Modular-12 uses a 12" chassis of the latest generation and has been specifically designed for a clean, detailed midrange with a high, undistorted sound pressure. A low moving mass (mms 46 g) in combination with the extremely powerful neodymium drive (B/L factor 17.6) enables a high efficiency and a performance that can otherwise only be achieved with larger loudspeakers. The chassis can be driven hard, and heat dissipates optimally keeping the power compression low. This is enabled by the large 4" voice coil and elaborate ventilation openings in the magnet system. The aluminum demodulation rings in the magnet system ensure low distortion.

For installation, the Modular-12 is supplied with the "Easyfly" mechanics, 12 swivel wall brackets or the internal M12 thread points steel inner angles.

Frequency range 90°	63 Hz - 18 kHz (- 10 dB) 90 Hz - 17 kHz (+/- 3 dB)
Frequency range 60°	63 Hz - 18 kHz (- 10 dB) 90 Hz - 17 kHz (+/- 3 dB)
Coverage range	90° x 60° or 60° x 40° exchanging, arrayable and rotatable horn
Power handling	LF: 450 W AES / 900 W program / 1.800 W peak HF: 110 W AES / 220 W program / 440 W peak
Sound pressure	127 dB SPL AES / 130 dB SPL program / 133 dB SPL peak
Components	LF: 1 x 12" Neodym woofer with 3" voice coil, 8 Ω HF: 1 x 1,4" Neodym driver with 3" voice coil, 16 Ω
Connectors	2 x Neutrik NL4 Speakon, configuration: 1+/1- HF, 2+/2- LF, passive 1+/1-
Mounting	2 x Easyfly mechanism for vertical and horizontal Mounting 1 x back-facing Flying Track for safety cable 12 x M10 rigging points with 5 mm steel interior angles 2 x M6 point on the back side for adjustable wall holder 1 x tilting pole socket +/- 18°, tilt for a stand or mounting pole
Dimensions/Weight	615 (h) x 380 (w) x 310 mm (d) / 23,6 kg

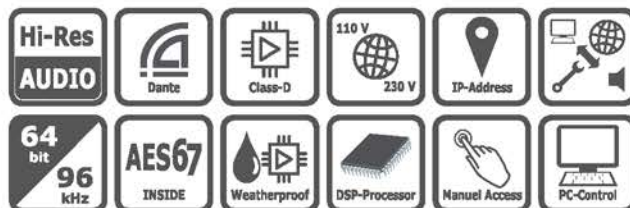


Modular-15 / -15sp DDA



Dante

self powered DDA:



The Modular-15 is a 2-way bi-amping speakers with 15"/1,4" Neodym. The Modular series is extremely flexible and is innovative with its combination of array point source systems and multifunctional usable individual speakers. As well as its use as a single full-range speaker, with high performance head with bass support and high-performance monitor on stage, the Modular series also designed to be used with multiple units next to each other, in a horizontal array design.

Any interference and associated sound interruptions between the sound sources are reduced to a minimum by using special housing geometry, suitable for the narrower beam angle of the rotatable horn. Each horn works only in its defined sound directivity.

"Easyfly", (also registered with the Patent Office), is a new 'one-click' mechanism which allows tool-free hanging and precise alignment in a few seconds. The mechanism is more elegant and smaller than a conventional rigging brace. The Modular series is equipped with inconspicuous mounting rails on two sides of the housing. This means the speaker can be hung or flown upright or horizontally, using the 'Easyfly' mechanism. At the back is a third mounting rail for the compulsory safety cable.

For accurate alignment on a stand or mounting pole, the Modular series has an internal, tilting pole socket enabling and an adjustment of +/- 18° tilt.

The Modular-15 uses a 15" chassis of the latest generation and has been specifically designed for a clean, detailed midrange with a high, undistorted sound pressure. A particularly low moving mass (mms 100g) in conjunction with the extremely powerful neodymium driver (B/L factor 26), ensures the combination of the good transmission qualities of a 12-inch model with the large membrane surface and associated sound pressure of a 15". The chassis can be driven hard, and heat dissipates optimally keeping the power compression low. This is enabled by the large 4" voice coil and elaborate ventilation openings in the magnet system. The aluminum demodulation rings in the magnet system ensure low distortion.

The Modular-15 can be subsequently converted in our factory to the self-powered version with 2-channel 3,2 kW amplifier module and DSP board.



Frequency range 60°	60 Hz - 17,6 kHz (- 10 dB) 130 Hz - 17 kHz (+/- 3 dB)
Frequency range 90°	58 Hz - 17,8 kHz (- 10 dB) 122 Hz - 16.5 kHz (+/- 3 dB)
Coverage range	90° x 60° or 60° x 40° exchanging, arrayable and rotatable horn
Power handling	LF: 850 W AES / 1.700 W program / 3.400 W peak HF: 110 W AES / 220 W program / 440 W peak
Sound pressure	129 dB SPL / 132 dB SPL / 135 dB SPL
Components	1 x 15" Neodym woofer with 4" voice coil, 8 Ω 1 x 1,4" Neodym compression driver with 3" voice coil, 16 Ω
Connectors	2 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x Dante, Digital AES/EBU, AES67 (self-powered)
Mounting	Easyfly mechanism for vertical and horizontal mounting 1 x back-facing Flying Track for safety cable 12 x M10 rigging points with 5 mm steel interior angles 1 x tilting pole socket +/- 18°, tilt for a stand or mounting pole
Dimensions/Weight	698 (h) x 431 (w) x 368 mm (d) / 27,9 kg (self-powered: 32,9 kg)
Amplifier	2-channel 3,2 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 HF	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω





The Score-5 is a compact and powerful multifunctional loudspeaker for mobile applications and installation equipped with 2 x 5"/1" drivers. The high-quality and fully phase optimized passive crossover with full equalisation allows for use with any amplifier.

The Score-5 is a fullrange system to enable speech and background music application without additional subs. Together with one of our subwoofers it turns into an elegant high-power PA.

During development great care was taken to achieve a precise 70° x 55° directivity pattern. The 55° vertical focusing is extended downward into the lowmids through a D'Appolito arrangement of the 5" woofers and their acoustic coupling. Compared with other speakers of this size, This provides the Score-5 with a farther throw and better speech intelligibility due to the higher direct sound ratio.

Parallel sidewalls and narrow front dimensions (172 mm width) make it perfect for nearfill application on stage edges or concealed in interior panelling or staircases. Cabinet angles of 25° and 55° allow for flexible monitor use. Sound technicians will appreciate the linear frequency response and neutral sound alignment which results in high gain-before-feedback and an overall easier job.

The elegant and unobtrusive multifunctional brackets can be attached horizontally or vertically with Camlock connectors within seconds. These connectors are proved and tested for rigging of Movingheads in event technology business. Via bracket and tube adapter Score-5 can be easily angled on a tilting pole socket in any direction. There are no modifications necessary for flying. The tube adapter has to be removed from the bracket and the speaker can be directly fixed to a truss. A mandatory safety with stud can be click-locked into the steel panel on the back.

The same area also provides two M6 fixing points for a rotatable and tiltable wallmount. There is another M8 thread to fix the Score-5 with the least possible gap to a truss by using a super clamp or bracket. There is even a small concealed handle on the backside for ease of use.

All these sophisticated details and the available accessories make the Score-5 an ideal tool for almost any application.



Frequency range	71 Hz - 19 kHz (- 10 dB) 139 Hz - 15,7 kHz (+/- 3 dB)
Coverage range	70° horizontal, 55° vertical
Powerhandling 12 Ω	200 W AES / 400 W program / 800 W peak
Sound pressure	114 dB SPL AES / 117 dB SPL program / 120 dB SPL peak
Components	2 x 5" Neodym LF with 32 mm (1,25") voice coil 1 x 1" Ferrit compression driver with 1" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT (durchgeschliffen), Belegung: 1+/-1-
Mounting	1 x Camlock for tilt and swivel multifunctional brackets 1 x single-stud mount in the metal connection panel for safety rope 2 x M6 threaded points for rear, adjustable wall brackets 1 x M8 thread point for mounting a rear crosspiece clamp
Dimensions/Weight	450,5 (h) x 172 (w) x 190 mm (d) / 6,1 kg



The Voice-Acoustic Score-8 is a passive 2-way system equipped with two 8" drivers transducer in D'Appolito arrangement and a 1.4" compression driver coupled to a rotatable CD horn with either 60° x 40° or 90° x 40° dispersion. With its sleek appearance, the Score-8 looks great in all mobile applications and fixed installations. It sets new standards for compact high-performance loudspeakers. The above-average performance is also achieved by the horn-loaded design of the 8" transducer. The Score-8 already achieves a sensitivity of 105 dB 1W/1m in the low/mid-range. In the high frequency range, a 1.4" horn is used, which is very large in relation to the cabinet dimensions. This ensures even higher efficiency and a perfect directivity in the upper frequency range. The vertically tight bundling in the low-mid range is also achieved by the D'Appolito arrangement with its physically determined coupling of the 8" drivers. This gives the Score-8 a long range and better speech intelligibility with more direct sound in the listening area.

Due to the horn front of the 8" drivers, the acoustical centre between woofer and tweeter is very close together. This results in a mechanical time alignment with less time offset between the 2-ways and a phase optimization in the crossover area. The Score-8 uses a newly developed 1.4" neodymium high frequency driver with an innovative composite diaphragm. The material mix of this new dome effectively minimizes unwanted resonances. This results in a detailed and excellent voice and music reproduction with a very warm, natural and clean sound image even at the highest volumes. Combined with the fast response of the 8-inch speakers, the result is an outstanding musical and impulse-focused loudspeaker that meets even the highest sound requirements.

The Score-8 features a 55° and 25° stage monitoring angle. Lying flat across, its low profile also makes it an ideal and very powerful front fill for use on the front edge of the stage. The sophisticated detailed solutions and the very extensive accessories allow a wide range of application and installation possibilities for the Score-8. With the integrated tiltable speaker flange, the tool-free mountable Easyfly mechanics or the multifunctional L-bracket, as well as U- and C-brackets and various M10, M8 and M6 mounting points, all requirements are covered. A safety cable for secondary safety can be attached to the corrosion-resistant input panel made of V2A stainless steel with a single-stud.

Like the other Voice-Acoustic loudspeakers, the housing is made of sturdy birch plywood of highest quality: CNC milled, grooved, screwed and waterproof glued. The surface is protected by a stable and moisture-resistant polyurea coating in black. White speakers and special colours with 2K textured paint are optional available.

Frequency range	65 Hz - 19 kHz (- 10 dB) 78 Hz - 17,3 kHz (+/- 3 dB)
Coverage range	90° x 40° oder 60° x 40°
Powerhandling 12 Ω	500 W AES / 1.000 W program / 2.000 W peak
Sound pressure	130 dB SPL AES / 133 dB SPL program / 136 dB SPL peak
Components	2 x 8" Neodym LF with 2,5" voice coil 1 x 1,4" Neodym compression driver with 2,4" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 1+/1-
Mounting	1 x Easyfly mechanism for vertical Mounting 1 x Camlock for tilt and swivel multifunctional brackets 1 x single-stud mount in the metal connection panel for safety rope 2 x M6 threaded points for rear, adjustable wall brackets 1 x M8 thread point for mounting a rear crosspiece clamp 6 x M10 threaded points for eye bolt and bracket mounting 1 x tilting pole socket +/- 18°, tilt for a stand or mounting pole
Dimensions/Weight	625 (h) x 262 (w) x 337 mm (d) / 19,6 kg



LA-Stick 4x4



With the LA-Stick 4x4, Voice-Acoustic has created a completely new and revolutionary species of loudspeaker: the Line-Array Stick, in short LA-Stick.

At first glance it resembles an ordinary column speaker, of which there are three types:

A basic column with a row of midrange drivers and a high-frequency waveguide either at the top or in the middle. This type of loudspeaker only finds solitary application; it cannot be variably scaled because effective coupling in the high frequency area is not possible when adding loudspeakers; they are singular sound sources.

Then there are column speakers with a continuous row of wide bands or midrange drivers. These columns can be connected to one another, but they cannot be directed. With each additional unit, the vertical directivity becomes inevitably narrower. To expand the directivity in the listener area, the boxes in a loudspeaker series are offered in a multitude of straight and bend forms. This results in a relatively high number of speaker types needed, reducing flexibility and complicating storage.

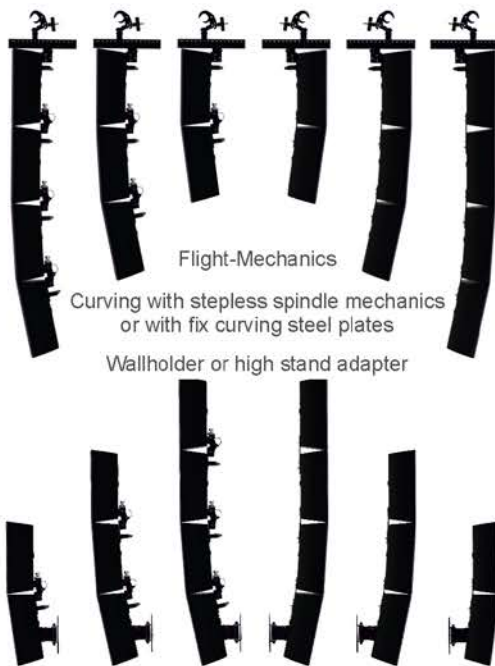
Another approach is the so-called dsp beam steering. The loudspeakers are operated in-line from top to bottom. Each transducer in the column has to have its own power amplifier channel and DSP-controller. An electric phase and time delay as well as an algorithm compiler calculate and electronically adjust the directivity. However, this technology is extremely expensive and too complicated for many users.

Large line-arrays in trapezoid-shaped boxes can be angled in order to project the narrow vertical directivity field to the listener area in a very practical way. This goal is achieved very precisely, avoiding unintended room reflections, and enhancing the amount and quality of sound. In coupling the line-arrays to a so-called coherent wavefront, interference is prevented and system range increased. This explains the line-array effect in simple terms.

The development of the LA-Stick 4x4 has made it possible to adapt this technology into a column format, incorporating many of the advantages found in a functioning line-array into compact dimensions, making it so much more user friendly. Not a column speaker but a line-array stick! Not only that, but just as with the large line-arrays, the LA-stick boasts a trapezoid-shaped base and top with an 8° slope. The inclination angle can be externally fine-tuned via a newly developed, innovative ball-bearing-mounted spindle mechanism on the back panel. This very sturdy mechanism renders the bending joints in ball-lock-pin form on the front side of the loudspeaker unnecessary. No mechanism or mounting parts are visible on the front side. With this discreet look it is easy to integrate and use the loudspeaker in each sophisticated ambiance.

Through a special woodworking method, the box sides have been given a tapered shape emphasizing their elegant appearance. With the LA-stick, depending on the desired acoustic pressure, any number of long lines can be constructed with only one loudspeaker type. This makes the LA-series the most flexible column-style loudspeaker system in the world. A construction incorporating 16 Ω output impedance allows for operation of up to 8 LA-sticks with one self-powered active base or up to 16 with one HDSP-6 power amplifier.

The next generation lightweight 4" neodymium wide-band transducers are waterproof. The LA-stick can be used in humid or high-moisture environments, even temporarily in rain. Sophisticated accessories allow for diverse applications and installation possibilities.



Frequency range	161 Hz - 18 kHz (- 10 dB) 210 Hz - 15,4 kHz (+/- 3 dB)
Coverage range	70° horizontal, vertical depending on the angle of the elements relative to each other
Power handling	120 W AES / 240 W program / 480 W peak
Sound pressure	116 dB SPL AES / 119 dB SPL program / 122 dB SPL peak
Components	4 x 4" Neodym wideband transducer with 0,75" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 1+/-
Mounting	Flying vertical by clickable mechanics and perforated rail for setting up emphasis Several elements among each other connect- and adjustable rear threaded mechanics (without any help of tools) 2 x M6 rear bolt-flange mounting for stand and distance rod operation Bolt-flange mounting 1 x M10 for tripod mounting poles and operating on the bottom Tilt adapter in various angle, instead of rear threaded mechanics Swivel bracket with raster for the fitting on the floor Swivel bracket with raster for top spots on bass and fixation in M20 flange
Dimensions/Weight	419 (h) x 119 (w) x 160 mm (d) / 3,2 kg

LA-Stick 8x4



The Voice-Acoustic LA-Stick is a design line-array stick with the highest demands on sound quality, aesthetics and functionality. The beautifully rounded loudspeaker cabinet and the curved front grille with fine mini-honeycomb perforation look elegant and also integrate into visually sophisticated architecture.

The wideband transducers have a very thin basket frame, which minimises the packing and distance between them. This allows an excellent coupling of the transducers and achieves a line array effect with vertical narrow directivity, high coverage and homogeneous sound dispersion over the entire audience. The vertically narrow dispersion minimises disturbing diffuse sound from floor and ceiling reflections and increases the direct sound component for the listener, which means that significantly better listening experiences can be achieved even in acoustically difficult rooms.

The membrane of the lightweight 4" neodymium transducer is made of waterproof high-tech fibres and has a high stiffness and very low moving mass. This provides fine resolution and nuanced, natural music reproduction up to the highest frequencies.

Speech intelligibility and gain before feedback are very high. Even untrained presenters can stand with the microphone very close to the loudspeaker without feedback.

Compared to many other column speakers, the housing of the LA-Stick is made of stable birch multiplex wood, which reduces the resonance of the cabinet. The surface is protected with a scratch- and weather-resistant polyurea coating, which makes the speaker suitable for indoor and outdoor applications. Special RAL colours are available as an option.

The enclosure design, with 8° trapezoidal top and bottom, and the innovative hardware allow all LA-Sticks to be coupled together and the vertical directivity between the loudspeakers to be infinitely adjusted. All connection and angle mechanisms are placed on the back of the loudspeaker and cannot be seen from the front. This makes the Voice-Acoustic LA-Stick series one of the most flexible and elegant column-format loudspeakers on the market, suitable for a wide range of applications.

The extensive accessories can be used for all LA-Stick models.



Frequency range

150 Hz - 19 kHz (- 10 dB)
200 Hz - 17 kHz (+/- 3 dB)

Coverage range

70° x 18°

Power handling 8 Ω

240 W AES / 480 W program / 960 W peak

Sound pressure

122 dB SPL AES / 125 dB SPL program / 128 dB SPL peak

Components

8 x 4" Neodym wideband transducer with 0,75" voice coil

Connectors

2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 1+/1-

Mounting

Flying vertical by clickable mechanics and perforated rail for setting up emphasis
Elements among each other connect- and adjustable rear threaded mechanics (without any help of tools)
2 x M6 rear bolt-flange mounting for stand and distance rod operation
Bolt-flange mounting 1 x M10 for tripod mounting poles and operating on the bottom
Tilt adapter in various angle, instead of rear threaded mechanics
Swivel bracket with raster for the fitting on the floor
Swivel bracket with raster for top spots on bass and fixation in M20 flange

Dimensions/Weight

830 (h) x 119 (w) x 160 mm (d) / 6,2 kg

LA-Stick 12x4



The Voice-Acoustic LA-Stick is a design line-array stick with the highest demands on sound quality, aesthetics and functionality. The beautifully rounded loudspeaker cabinet and the curved front grille with fine mini-honeycomb perforation look elegant and also integrate into visually sophisticated architecture.

The wideband transducers have a very thin basket frame, which minimises the packing and distance between them. This allows an excellent coupling of the transducers and achieves a line array effect with vertical narrow directivity, high coverage and homogeneous sound dispersion over the entire audience. The vertically narrow dispersion minimises disturbing diffuse sound from floor and ceiling reflections and increases the direct sound component for the listener, which means that significantly better listening experiences can be achieved even in acoustically difficult rooms.

The membrane of the lightweight 4" neodymium transducer is made of waterproof high-tech fibres and has a high stiffness and very low moving mass. This provides fine resolution and nuanced, natural music reproduction up to the highest frequencies.

Speech intelligibility and gain before feedback are very high. Even untrained presenters can stand with the microphone very close to the loudspeaker without feedback.

Compared to many other column speakers, the housing of the LA-Stick is made of stable birch multiplex wood, which reduces the resonance of the cabinet. The surface is protected with a scratch- and weather-resistant polyurea coating, which makes the speaker suitable for indoor and outdoor applications. Special RAL colours are available as an option.

The enclosure design, with 8° trapezoidal top and bottom, and the innovative hardware allow all LA-Sticks to be coupled together and the vertical directivity between the loudspeakers to be infinitely adjusted. All connection and angle mechanisms are placed on the back of the loudspeaker and cannot be seen from the front. This makes the Voice-Acoustic LA-Stick series one of the most flexible and elegant column-format loudspeakers on the market, suitable for a wide range of applications.

The extensive accessories can be used for all LA-Stick models.



Frequency range	140 Hz - 18 kHz (- 10 dB) 185 Hz - 16 kHz (+/- 3 dB)
Coverage range	70° x 14°
Power handling 5,3 Ω	360 W AES / 720 W program / 1.440 W peak
Sound pressure	126 dB SPL AES / 129 dB SPL program / 132 dB SPL peak
Components	12 x 4" Neodym wideband transducer with 0,75" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 1+/1-
Mounting	Flying vertical by clickable mechanics and perforated rail for setting up emphasis Elements among each other connect- and adjustable rear threaded mechanics (without any help of tools) 2 x M6 rear bolt-flange mounting for stand and distance rod operation Bolt-flange mounting 1 x M10 for tripod mounting poles and operating on the bottom Tilt adapter in various angle, instead of rear threaded mechanics Swivel bracket with raster for the fitting on the floor Swivel bracket with raster for top spots on bass and fixation in M20 flange
Dimensions/Weight	1.236 (h) x 119 (w) x 160 mm (d) / 9,2 kg



The aesthetic design of the Voice-Acoustic Alea-4 compact loudspeaker captivates with its high level of efficiency and linear frequency response, all packed into the smallest box dimensions. It is perfectly suited to various sound reinforcement applications, as a main or fill system. Its compact appearance allows it to be integrated into just about every stage scene. The stable swivel bracket guarantees exact alignment with the listener arena and a secure stand on stage or in fix mounting on trusses.

For permanent installations, the Alea-4 can be mounted on walls and ceilings with the swivel bracket, and expertly aligned. There is also an elegantly concealed mounting option without the bracket. The back cover plate of the loudspeaker is recessed into the box, giving a cavity behind which space is available for a wall mount and Phoenix connection terminals. The loudspeakers can be mounted on a small wall mount corner plate and secured with an inauspicious grub screw.

The box housing covers the mount and none of the mechanical parts or the mount is then visible. This fixation option is also possible for ceiling mounts, making it ideal for example in Dolby Atmos installations.

Creative designers can take full advantage of artistic elements. Speakers are not only available in all RAL and effect colors, but also offered in custom multi-color – two or three colors (according to customer wish).

The multiplex wood casing, the honeycomb front grille and the decorative stainless steel ring on the baffle board can be each ordered in different colors. Gold and chromium plating are also offered for the grille and ring – the ring can also be ennobled with Swarovski crystals (certified). Fancy customer wishes or corporate identity design can even be delivery with short delivery times.

The next generation lightweight 4" neodymium wideband transducer is water resistant. The Alea-4 can also be utilized in high moisture areas and even temporary exposure to rain. Connection is achieved with two Neutrik Speakons in addition to a parallel 4 pole Phoenix contact connector. For long-term outdoor installation, the speakers can be connected via the Phoenix contact terminal and permanently sealed from the rear side with a cover plate (only possible with the clip mount, not with the flush mount).

This palette of technical and creative possibilities affords the Alea-4 its image as a professional and universal mini sound system. The addition of a subwoofer will elevate it to a compact and light weight Mini-PA.



Frequency range	178 Hz - 19,5 kHz (- 10 dB) 217 Hz - 15,8 kHz (+/- 3 dB)
Coverage range	70° horizontal, 70° vertical
Power handling 16 Ω	30 W AES / 60 W program / 120 W peak
Sound pressure	107 dB SPL AES / 110 dB SPL program / 113 dB SPL peak
Components	1 x 4" Neodym wideband transducer with 0,75" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 1+/1- 1 x Phoenix contact terminal, 4 pole split into 2 x IN/OUT Optional 100 V transformer
Mounting	3 x M10 mounting point on the side walls Swivel bracket with raster for wall, ceiling, and floor mounting or mounting on truss means of a clamp. The bracket can also be used as a stand 1 x M6 threaded bush for safety cable in the back side Retractable mechanism for concealed wall, ceiling mount in the back side
Dimensions/Weight	134 (h) x 134 (w) x 150 mm (d) / 1,4 kg



The aesthetic design of the Voice-Acoustic Alea-5 compact loudspeaker captivates with its high level of efficiency and linear frequency response, all packed into the smallest box dimensions. It is perfectly suited to various sound reinforcement applications, as a main or fill system. Its compact appearance allows it to be integrated into just about every stage scene. The stable swivel bracket guarantees exact adjustment with the listener arena and a secure stand on stage or in fix mounting on trusses.

The 5"/1" coaxial transducer has a very wide dispersion of 100° horizontally and vertically. This makes the Alea-5 ideal for applications where a wide area needs to be covered at short distance. Speech sounds voluminous even without subwoofer support. The Alea-5 is a fully passive speaker with 8 Ohms impedance and can be driven by any amplifier even without DSP-controller.

For permanent installations, the Alea-5 can be mounted on walls and ceilings with the swivel bracket, and exact adjust. There is also an elegantly concealed mounting option without the bracket. The back cover plate of the loudspeaker is recessed into the box, giving a cavity behind which space is available for a wall mount and Phoenix connection terminals. The loudspeakers can be mounted on a small wall mount corner plate and secured with an inauspicious grub screw.

The box housing covers the mount and none of the mechanical parts or the mount is then visible. This fixation option is also possible for ceiling mounts, making it ideal for example in Dolby Atmos installations.

Creative designers can take full advantage of artistic elements. Speakers are not only available in all RAL and effect colors, but also offered in custom multi-color – two or three colors (according to customer wish). The multiplex wood casing, the honeycomb front grille and the decorative stainless steel ring on the baffle board can be each ordered in different colors. Gold and chromium plating are also offered for the grille and ring – the ring can also be ennobled with Swarovski crystals (certified). Fancy customer wishes or corporate identity design can even be delivery with short delivery times.

Connection is achieved with two Neutrik Speakons in addition to a parallel 4 pole Phoenix contact connector.

This palette of technical and creative possibilities affords the Alea-5 its image as a professional and universal mini sound system. The addition of a subwoofer will elevate it to a compact and light weight Mini-PA.



Frequency range	98 Hz - 22,5 kHz (- 10 dB) 145 Hz - 19 kHz (+/- 3 dB)
Coverage range	100° x 100°
Power handling 8 Ω	150 W AES / 300 W program / 600 W peak
Sound pressure	112 dB AES / 115 dB program / 118 dB peak
Components	1 x 5"/1" coaxial transducer with 1,5" voice coil LF / 1" voice coil HF
Connectors	2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 1+/1- 1 x Phoenix contact terminal, 4 pole split into 2 x IN/OUT
Mounting	3 x M10 mounting point on the side walls Swivel bracket with raster for wall, ceiling, and floor mounting or mounting on truss means of a clamp. The bracket can also be used as a stand 3 x M6 threaded bush for wall/ceiling holder and safety cable backside Retractable mechanism for concealed wall, ceiling mount in the back side
Dimensions/Weight	172 (h) x 172 (w) x 189 (d) / 3,5 kg

Aleasub-10



The Aleasub-10 is a subwoofer specifically designed as low frequency extension of our successful Alea-4/5. It serves all media and installation needs with its discreet yet classy modern design and satisfies even increased demand for optical appearance. Small size goes hand in hand with high efficiency, a powerful low end and very precise sound reproduction. Size and appearance allow it to blend into any location.

The 10" woofer with latest generation highpower 3" voice coil has a moisture resistant coating. Connectivity is taken care of by two Neutrik Speakon and a 4-pole Phoenix Contact connector.

Due to their uniform design all Alea speakers offer the same creative potential. Like Alea-4/5 also the Alea-10 can be custom designed with all RAL and effect colours, as well as bi- or triple-coloured. A different colour can be designated to cabinet, micromesh honeycomb grille and ornamental ring.

Grille and ornamental ring can also be coated in gold or chrome. This way it's even possible to adapt the Aleasub-10 to your own CI needs.

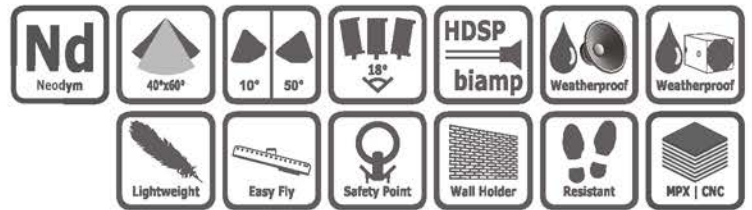
There is an optional heavy-duty bracket to mount the system on ceilings or truss. Like Alea-4/5 we offer a concealed and elegant wall mount. The back plate is recessed into the cabinet leaving space for a shallow wall mount and Phoenix Contact connectors.

For mobile use an optional handle can be attached to the back plate and rubber feet (included) fixed to positions indicated at the bottom of the cabinet.

All of these technical and visual features turn Aleasub-10 into a professional versatile tool to implement your requirements. Together with Alea-4/5 mid-high speakers it forms a compact and visually pleasing mini PA.



Lower cut-off frequency	39 Hz (- 10 dB) 49 Hz (- 3 dB)
Coverage range	Omnidirektional
Power handling 8 Ω	350 W AES / 700 W program / 1.400 W peak
Sound pressure	117 dB SPL AES / 120 dB SPL program / 123 dB SPL peak
Components	1 x 10" Ferrit Chassis with 3" voice coil
Connectors	2 x Neutrik NL4 Speakon IN/OUT (loop through), configuration: 2+/2- 1 x Phoenix contact terminal, 4 pole split into 2 x IN/OUT
Mounting	3 x M10 mounting point on the side walls 1 x M20 pole mount Swivel bracket with raster for wall, ceiling, floor mounting or mounting on truss means of a clamp Handle can be attached to the back plate (optional) Retractable mechanism for concealed wall, ceiling mount in the back side
Dimensions/Weight	363 (h) x 306 (w) x 400 mm (d) / 17,3 kg



The CXN-16 is a multi-functional bi-amping high performance monitor. It's appealing rounded shape let it integrate easily in any venue in an elegant and unobtrusive way. A small footprint and outstanding performance go hand in hand and make sure it is always a perfect choice no matter if it's a confined stage or the biggest venue. The CXN-16 has the world's best size-weight-power ratio:

540 x 540 x 360 mm, 25,5 kg, 1.000 W AES, 101 db Sensitivity.

4 x 8" equals 16" and surpasses the capabilities of standard 15" designs. Four separate 2,5" woofer voice coils plus a dedicated 3" horn driver provide much more space for heat dissipation and reduce powercompression. Amplifier power is used more efficiently.

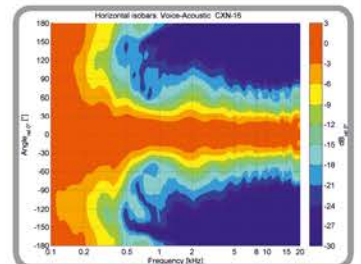
Our goal was to create a professional tool and make a sound technicians work more easy as well as giving artists on stage a reliable response and positive vibe for their performance. The symmetrical placing of the speakers creates a well centered and smooth soundfield that does not change when the artist moves around. A huge 1,4" horn allows for a very low crossover frequency and precise directivity which is vital for clarity and a detailed response. To lower frequencies this precise directivity pattern is extended by the coupling of our 4 x 8" design and results in an overall very far reach and off-axis rejection. You can pinpoint the sound where you want it.

The CXN-16 surpasses conventional coaxial designs in sound accuracy, directivity behaviour and power handling and sets a new standard. Our 8" woofers have a low moving mass and high sensitivity and react quicker than bigger speakers. Artists receive a very precise response and, more importantly, a well balanced tonal quality to avoid pitch issues and increase gain-before-feedback as much as possible.

The CXN-16 has the same width as the Paveosub-118 and it's feet are made to fit to the stacking trays of the subwoofer. Visually and mechanically they form an elegant package for drum- or DJ-monitoring. A Voice-Acoustic self powered subwoofer and drive a CXN-16 in half-powered mode.

The rugged grille is made from 2 mm steel and it's curved shaped is reinforced by welded bracings on each side and additional support in the middle on top of the horn. It is hardwearing of course.

A small tunnel on the bottom allows cabling to be routed through beneath the monitor. A tilting pole socket, the popular Easyfly mechanism and a flying track for safety cable make CXN-16 into a multi-functional tool for professionals.



Frequency range	63 Hz - 17,3 kHz (- 10 dB) 80 Hz - 14 kHz (+/- 3 dB)
Coverage range	40° x 60°
Power handling	LF: 1.000 W AES / 2.000 W program / 4.000 W peak HF: 110 W AES / 220 W program / 440 W peak
Sound pressure	131 dB SPL AES / 134 dB SPL program / 137 dB SPL peak
Components	LF: 4 x 8" Neodym woofer with 2,5" voice coil, 8 Ω HF: 1 x 1,4" Neodym driver with 3" voice coil, 16 Ω
Connectors	2 x Neutrik NL4, 1 x IN / 1 x OUT, configuration: 1+/- HF, 2+/- LF
Mounting	1 x Easyfly mechanism for vertical and horizontal Mounting 1 x back-facing Flying Track for safety cable 4 x M10 rigging points with 5 mm steel interior angles 1 x tilting pole socket +/- 18°, tilt for a stand or mounting pole Optional U-bracket for wall mounting
Dimensions/Weight	360 (h) x 540 (w) x 540 mm (d) / 25,5 kg

Paveosub-112 / -112sp DDA



self powered DDA:



Dante

The Paveosub-112 is a very compact bass reflex subwoofer intended for universal applications; as a mobile unit or in fixed installations. With a height of only 30 cm, it is the flattest 12" sub in the world and can be used where high sound pressure and deep working sound are required in constricted spaces.

The design of the flat box renders the subwoofer tilt resistant and makes for ideal use together with satellite tops on speaker rod cranks. In an upright-standing position, the Paveosub-112 forms an elegant silhouette with column loudspeakers or Line-Array-Sticks.

The 2 x 4 rubber feet on the narrow and the wide sides of the casing, each with stacking notches on opposite sides, guarantee a secure standing and no slipping. There are two integrated M20 flange nuts for mounting the Paveosub-112 in a flat-lying or upright-standing position, ensuring flexible use and an attractive look depending on the combination of top units.

The Paveosub's stacking notches have the same footprint as the Modular-10 lying in the monitor position. Additionally, both loudspeakers have the same 52 cm measurements and optically form one unit. This arrangement constitutes a professional drum fill and is also very space saving on stage.

The extremely powerful motor (B / L factor 26) of the high-quality 12" neodymium chassis guarantees fast and accurate signal reproduction with excellent transient response. The speaker features a large -4" voice coil, a sophisticated ventilation system and a lower power compression than conventional bass drivers: As a result the amplifier performance is implemented effectively and efficiency is maintained even under permanent full scale use.

The two bass reflex ports are mounted on either side. This arrangement prevents a tumbling of the additional double-suspended membrane at high x-max as the air can escape on all sides and a uniform counter pressure is produced. The box walls have also been braced with this kind of tunnel arrangement. Other internal bracings ensure maximum stability and prevent unwanted resonance.

Two round handles, accessible from all sides and a detachable front wheel board make for easy handling.

Additionally, the Paveosub-112 can be converted in factory to the self-powered DDA version including the 3-channel 4 kW amplifier module and DSP board. DDA stands for a new generation of DSP and input boards that can process a variety of signals: DANTE, Digital AES/EBU, AES67 and analog inputs. The signals can be looped further.



Lower cut-off frequency	35 Hz (- 10 dB) 41 Hz (- 3 dB)
Coverage range	Omnidirektional
Power handling 8 Ω	1.000 W AES / 2.000 W program / 4.000 W peak
Sound pressure	129 dB SPL AES / 131 dB SPL program / 134 dB SPL peak
Components	1 x 12" Neodym long excursion woofer (LF) with 4" voice coil
Dimensions/Weight	300 (h) x 520 (w) x 485 mm (d) / 23,1 kg (self-powered: 28,8 kg)
Connectors	2 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x Dante, Digital AES/EBU, AES67 (self-powered)
Fittings	2 x M20 pole mount on two sides 2 x latches on the front for detachable wheelboard
Amplifier	3-channel 4 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 & CH3	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω



Paveosub-115 / -115sp DDA



self powered DDA:



Dante

The Paveosub-115 is a very compact bass reflex subwoofer for universal applications.

With its low profile of only 36 cm and a width and depth of only 54 x 57 cm, the bass is ideal for fixed installations where a discreet appearance is required and the loudspeakers need to be integrated into the architecture as unobtrusively as possible.

In mobile use, the Paveosub-115 saves a lot of space and weight with a transport volume of only 110 litres. The two large handles can take hold from all sides and are located at the centre of gravity.

A removable and stackable front wheel board is available as an accessory for easy handling of the subwoofer, which weighs only 27 kg. The optional transport protective cover also can be used as weather protection at outdoor events.

The Paveosub-115 is equipped with a newly developed neodymium transducer with 4" voice coil that can handle 1.200 W AES. The magnet system has three demodulation rings for particularly low distortion. Massive cooling fins ensure low power compression at maximum performance. Together with a high linear excursion and a low moving mass, the subwoofer offers deep, powerful and at the same time very precise bass reproduction.

Internal bracing ensures maximum stability and prevents unwanted cabinet resonances.

The Paveosub-115 can be connected from the front via two Speakon plugs on the front side of the grille, for example to use under stage podiums or in cardioid applications. To protect against dirt and moisture, the Speakons are covered with undetachable rubber caps.

The subwoofer can be used flat or upright. On two sides there are stacking moulds, rubber feet and M20 flanges for flexible use with an attractive appearance, depending on the combined satellite loudspeakers. Standing upright, the Paveosub forms a very slim silhouette.

The stacking moulds on the top of the sub are in the same footprint as the CXN-16 stage monitor. In addition, both loudspeakers have a width of 54 cm and thus form an elegant optical unit and are a professional set for drum or DJ monitoring, for example. A self-powered Paveosub-115sp can power a CXN-16 bi-amping in half-powered mode.

The Paveosub-115 can also be converted at the factory to the self-powered version with 3-channel 4 kW power amplifier module and DSP board.



Lower cut-off frequency	34 Hz (- 10 dB) 45 Hz (- 3 dB)
Coverage range	Omnidirektional
Power handling 8 Ω	1.200 W AES / 2.400 W program / 4.800 W peak
Sound pressure	129 dB SPL AES / 132 dB SPL program / 135 dB SPL peak
Components	1 x 15" Neodym long excursion woofer (LF) with 4" voice coil
Dimensions/Weight	360 (h) x 540 (w) x 570 mm (d) / 27 kg (self-powered: 30,4 kg)
Connectors	4 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x Dante, Digital AES/EBU, AES67 (self-powered)
Fittings	2 x M20 pole mount on two sides 2 x latches on the front for detachable wheelboard
Amplifier	3-channel 4 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 & CH3	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω

Paveosub-118 / -118sp DDA



self powered DDA:



Dante

The Paveosub-118 is a lightweight heavy-vented bass reflex subwoofer for universal applications for mobile applications, and in fixed installations.

Equipped with a top-notch 18" neodymium chassis it produces a high and undistorted bass level from the most compact dimensions. The low moving mass, with a powerful driver (B/L factor of 28), for rapid and accurate signal reproduction with excellent attack and decay, is sonically superior to many other 18" speaker designs.

The chassis has a large heavy duty 4" voice coil, a sophisticated ventilation system and a lower power compression than conventional bass drivers.

The power output is effectively used and the efficiency is maintained even under permanent full power use.

The substantial bass reflex ducts are located in four corners and the resulting chimney effect achieves good heat evaporation. The tunnel cross section equals to 500 cm², representing about 43% of the membrane surface, giving lower distortion and higher efficiency. Due to the large, open ports there is no air-flow noise. Any wobble effect is inhibited by the corner arrangement, as the air escapes from all sides creating a uniform back-pressure.

The case walls are reinforced by this kind of tunnel setup again. Additional internal bracing provides stability and prevents unwanted resonances. Rubber feet and stacking cavities guarantee safe standing without slipping.

In addition to the rear mounted connectors there are two Speakon connectors in the speaker grille. These are used if the bass is located in under stage modules, or for convenient cabling or wiring of the reverse bass in cardioid bass arrays. The sockets in the grille and the back connector are protected against moisture with weather-proof capping.

For cargo securing and lashing in stacks, two certified grommets are countersunk in to the side.

On top is an integrated M20 pole socket.

The Paveosub-118 can also be subsequently converted by the factory to the self-powered version with power amplifier module and the DSP board.



Lower cut-off frequency	33 Hz (- 10 dB) 39 Hz (- 3 dB)
Coverage range	Omnidirektional
Power handling 8 Ω	1.200 W AES / 2.400 W program / 4.800 W peak
Sound pressure	131 dB SPL AES / 134 dB SPL program / 137 dB SPL peak
Components	1 x 18" Neodym long excursion woofer (LF) with 4" voice coil
Connectors	4 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x USB & Ethernet (self-powered)
Fittings	1 x M20 pole mount 2 x latches on the front for detachable wheelboard
Dimensions/Weight	540 (h) x 540 (w) x 740 mm (d) / 41 kg (self-powered: 45,8 kg)
Amplifier	3-channel 4 kW
Power output CH1 LF	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 HF	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω

Paveosub-218 / -218sp DDA



Dante



self powered DDA:



The Paveosub-218 is a heavily vented bassreflex subwoofer designed for highest quality mobile and installation application. Two premium 18" neodymium transducers make sure it can deliver powerful and distortion-free sound pressure levels while still providing a dynamic and low bass. Low moving mass coupled with a powerful neodymium motor provide precise signalreproduction with excellent transient response which sonically outclasses other 18" designs. A large format and powerful voice coil together with sophisticated cooling convert amplifier power more efficiently and keep powercompression low even at longterm maximum power.

Large format ports increase efficiency and prevent annoying vent noise across the whole performance range. The design of the ports further strengthens the cabinet's top and bottom. Additional reinforcement and bracing prevents resonances, increases rear attenuation and turns the Paveosub-218 into an extremely robust and ideal touring subwoofer. There are 8 optimized handles accessible from any direction (they even include drains !) so you won't break your back. You won't strain your back during transport and set-up due to 8 optimized handles (they even include drains !) which are easily accessible from any direction.

The subwoofer can be used horizontally or upright and provides. Stacking trays and two M20 pole mount as well as foots on the opposite side. When used upright it forms an elegant package together with the Ikarray-12 due the same 60 cm width of the system.

In addition to the rear connector panel you can find two additional Speakon connectors on the robust front grille. They provide easy access when the subwoofer is positioned under the stage floor or when cabinets are turned around for creating cardioid arrays. This way cables can be kept out of sight from the audience. The front connectors as well as the loop-through connector on the rear panel use rubber caps to protect them from moisture.

There are three options for transport:

- the cabinet can be fitted with 100 mm bluewheels on the rear side (16 x M6 fittings)
- via stackable front transport covers including wheels and butterfly latches
- a dolly can carry up to 3 subwoofers

Voice-Acoustic provides upgrades for Paveosub-218 to the self-powered version by fitting 4 kW aplifier modules and DSP board.

Lower cut-off frequency	32 Hz (- 10 dB) 36 Hz (- 3 dB)
Coverage range	Omnidirektional
Power handling 4 Ω	2.400 W AES / 4.800 W program / 9.600 W peak
Sound pressure	136 dB SPL AES / 139 dB SPL program / 142 dB SPL peak
Components	2 x 18" Neodym long excursion woofer (LF) with 4" voice coil
Connectors	4 x Neutrik NL4 Speakon IN/OUT, 2+/- LF 2 x Neutrik XLR IN/OUT (self-powered) 2 x Neutrik NL4 Speakon OUT, 1+/- HF, 2+/- LF (self-powered) 2 x Neutrik powerCON TRUE1 IN/OUT (self-powered) 1 x Dante, Digital AES/EBU, AES67 (self-powered)
Fittings	2 x M20 pole mount 2 x latches on the front for detachable wheelboard
Dimensions/Weight	600 (h) x 1.160 (w) x 770 mm (d) / 80,5 kg (self-powered: 85,2 kg)
Amplifier	3-channel 4 kW
Power output CH1	2.400 W/4 Ω, 1.580 W/8 Ω, 800 W/16 Ω
Power output CH2 and CH3	800 W/4 Ω, 450 W/8 Ω, 200 W/16 Ω



Accessories for installs and mobile

Ikkarray-12 Rigging Frame

Static calculation for max. 18pcs Ikkarray-12 Line-Array elements. Can also be used in groundstack



Outriggers rigging frame

For ground stacking Ikkarray-12 without subwoofers.



Ikkarray-12 stackboard

Stackboard for 4 x Ikkarray-12 in groundstack on a Paveosub-218



Ikkarray-12 dolly

Dolly for transport of up to 4 x Ikkarray-12



Ikkarray-12 transport cover

Transport cover for 4 x Ikkarray on the dolly



LAP-TEQ Clinometer

Measurement device for precise tilt positioning of Ikkarray12 frame



Ikkarray-8 flight mechanics

Can be rigged with truss clamps or ring nut



Ground stack adapter IK8

Mounting plate for the Ikkarray-8 flight mechanics in groundstack



Ikkarray-8 tripod option

For use a single IK8 element on a high stand



Carrying bag IK8 mechanics

Carrying bag for two flight mechanics or groundstacking adapter



Ikkarray-8 Flightcase

Heavy-duty flightcase for two Ikkarray-8/15° or 5° elements



Ikkarray-8 transport cover



Ikkarray-6 flight mechanics

Can be rigged with truss clamps or ring nut



Ground stack adapter IK6

Can be mounted on subs with M20 screw or use with adapter on a high stand



Screw-on adapter

Attachable to use IK6 ground stack adapter on a high stand



Ikkarray-6 Flightcase

Heavy-duty flightcase for eight Ikkarray-6 elements



Carrying bag IK6

Carrying bag for 2x Ikkarray-6



X-Tension Kit V6, V8

V6 for VENIA-6 and Ikkarray-6. V8 for VENIA-8



Multifunctional steel plate

Base plate for V6/V8 X-Tension. Usable for 2x speaker distance rod. Usable for 3- or 4-point truss. 78x78 cm, 41,5 kg



Bag for steel floor plate

Sturdy bag made of Codura. With cutouts for the handles



Accessories for installs and mobile

VENIA Flightcase

Available for VENIA-6, VENIA-8.
Also suitable for X-Tensions.



VENIA carrying bag

V6 bag for VENIA-6, V8 bag for
VENIA-8 or V6/V8 X-Tension



VENIA U-bracket

Available for VENIA-6, VENIA-8.



VENIA C-bracket

Available for VENIA-6, VENIA-8.



Aluminum bracket handle

Bracket handle for VENIA-6 and
VENIA-8. Can be mounted
horizontally and vertically at
any position on the backside



Headstacking connector

For connecting two VENIAs
in headstacking. Set of 4pcs.



Headstacking flying plate

Available for VENIA-6, VENIA-8.
To fly two VENIA in headstacking.
Usable with Easyfly-mechanics



Easyfly-mechanics

Tool-free flight-mechanics for
clicking and exact adjustment.
Usable for Modular-series, VENIA-
series, CXN-series, Score-8



Bag for Easyfly-Mechanics

Carrying bag for 2x Easyfly-
Mechanics with mounted self-
lock clamp and accessories.



Self-lock clamp

Usable for Easyfly-Mechanics,
Ikarray-6, Ikarray-8, LA-Stick flight-
mechanics and U- and C- brackets



Universal suspension

For suspending speakers from
high ceilings or trusses



Rotating ceiling bracket

For hanging speakers from ceilings
using steel cables or chains.
Horizontal adjustment due central
pivot axis



Wall console

To mount speakers in front of a
wall with loudspeaker flyware



Ground stack adapter IK6

140° (H), 30° (V) swivel and tilttable.
For Modular-10, Score-series, LA-
Stick-series. Max. load 25 kg



Wall mount with extension

220° (H), 30° (V) swivel and tilttable.
For Modular-10, Score-series, LA-
Stick-series. Max. load 25 kg
Positioning parallel to the wall



Speaker ceiling mount

90° (H), 45° (V) swivel and tilttable.
For mounting speakers on ceilings.
Max. load 25 kg



Wall holder swiveled, tilted

180° (H), 30° (V) swivel and tilttable.
For all loudspeakers with flange.
Max. load 25kg



Wall holder XL

180° (H), 22° (V) swivel and tilttable.
For all loudspeakers with flange.
Max. load 50kg



Wall- and Trussholder

240° (H), speaker mount for
vertical traverse systems
Max. load 50kg



Inclinable Stand Adapter

Adapter for attach speakers without
built-in flange (LA-Stick series,
Score-5) on stands or wall brackets.
30° tilt, max. load 15kg



Accessories for installs and mobile

Modular series flightcases

Heavy-duty double flightcases. Available for Modular-10, -12, -15



Transport and rain cover

2-in-1 transport bag/cover and rain protection in operation. Available for Modular-10, -12, -15, Score-8



C-bracket

Available for Score-5, Score-8, Modular-10, Modular-12



Score-8 U-bracket

U-Bracket for Score-8



L-bracket mechanics

L-Bracket with Camlock fastening. Available for Score-5, Score-8



Tripod transducer

For Score-Series L-brackets and Alea-Series U-brackets



Score-5 flightcase

Heavy-duty quad flightcase for 4x Score-5 with mounted L-bracket



Carrying bag for Score-5

Carrying bag for two Score-5 with mounted L-bracket mechanics



LA-Stick flightcase

Heavy-duty flightcase for 4x LA-Stick 4x4 or 2x LA-Stick 8x4



LA-Stick carrying bag

Suitable for 2x LA-Stick 4x4 or 1x LA-Stick 8x4



Spindle mechanics LA-Stick

For fast connecting the LA-sticks and stepless tilt angle adjustment



Tilt Adapter for LA-Stick

Adapter plates for connecting and curving the LA-Sticks under each other. Available in 0°, 4° and 8°



Fly-Mechanics LA-Stick

Tool-free flight-mechanics for exact adjustment in both axis



U-bracket LA-Stick

To mount LA-Sticks or an array of LA-Sticks directly on a subwoofer



Alea-4 quad flightcase

Heavy-duty flightcase for 4x Alea-4 with mounted U-bracket



Alea-5 double flightcase

Heavy-duty flightcase for 2x Alea-5 with mounted U-bracket



Alea carrying bag

Suitable for 4x Alea-4 or 2x Alea-5 with mounted U-bracket



Alea U-bracket

Available for Alea-4, Alea-5 and Aleasub-10



Wall holder hidden mount

Available for Alea-4, Alea-5 and Aleasub-10



Wall and ceiling holder

For Alea-5, very flexible positioning through 4 axes adjustment



Accessories for installs and mobile

CXN flightcase

Heavy-duty double flightcase for 2x CXN-16



Transport cover CXN-16

Transport cover for the CXN-16 with cutouts for the handles



Transport cover Paveosub

Transport cover for all Paveosubs. Cover for Paveosub-115, -118, -218 can be used rain protection in operation



Wheelboard Paveosub

Detachable wheelboard available for all Paveosubs. Fastening at the front by butterfly catches



Castor set

Castor set for permanent assembly at the back of the Paveosub-218



Flyware Paveosub

Suitable for Paveosub-115 and -118. Mounted on the side of the housing with M10 screws.



Flight connectors Pav115

Connectors to suspend several Paveosub-115 among each other.



Flight connectors Pav118

Connectors to suspend several Paveosub-118 among each other.



M20 distance rod

Different M20 speaker distance rods. Fix, with hand crank or telescopic



Steel base plate M20

Different M20 steel base plates for use with distance rods.
25 cm Ø, 3,5 kg (for Alea)
45 cm Ø, 10 + 5kg
55 x 55 cm, 13,5 kg
78 x 78 cm, 41,5 kg



Carrying bag for steel plate

Carrying bags for all steel base plates available



Stand fork

Stand fork for two tops. For example Modular-10 in horizontal cluster on a speaker stand or distance rod



Speaker stand

Different speaker stands with hand crank or telescopic



Carrying bag stands

Carrying bag for 2x speaker stands or distance rods. Suitable for any type



Cable Clip

Cable Clip for speaker stands/rods.



60° or 90° horn

Horns with horizontal 90° or 60° coverage for swap between the directivity. Available for Modular-series and Score-8



BAGAX stackracks

19" racks in different HE. Stackable and lockable. Complete black



BAGAX wheelboard

With stacking trays and locking system. 100mm wheels with brakes. Max. load 450 kg



Cables

High quality Speakon-, Powercon-, Schuko-, Signalcables. Self-assembled in our German workshop



Safety parts

Different safety parts for secondary protection of flown loudspeakers



VAPATO PA-Tower

Engineered and patented by Voice-Acoustic

Our target during the development of the Voice-Acoustic PA-Tower was to achieve a discreet, galable appearance with a small footprint and a maximum height of less than five meters (so that no construction book is required and only the proof of stability is sufficient).

The tower can be erected by only one person using a hand winch and a pluggable erection aid. A motor winch or chain hoist is not necessary here and therefore no power connection. By means of a stop plate on the suspension cable/load chain, no fixing is necessary for assembly the mast. With the same suspension cable/load chain, the loudspeakers are then brought up to height.

The safety factor plays a special role. Up to 400 kg of PA technology is possible at the foremost attachment point of the head section with double safety. The second independent safety device runs parallel under and behind the suspension cable/load chain and at the same time prevents the loudspeakers from turning or swinging. This is simply attached at ground level to the tower base.

In addition, the secondary fuse can also be used for vertical alignment of the loudspeakers.

All deflection pulleys of the tower are multi deflection pulleys and can be used with steel cables or chains. The front pulleys of the stop and securing point of the head section can be moved without tools (the closer to the mast, the higher the load capacity).

The tower elements are available with the usual cone connectors or Silence quick connectors. The Silence quick-release connectors enable particularly fast and quiet assembly - the usual assembly via hammer, bolt and cotter pin is replaced by a low-noise quick-release connection system.

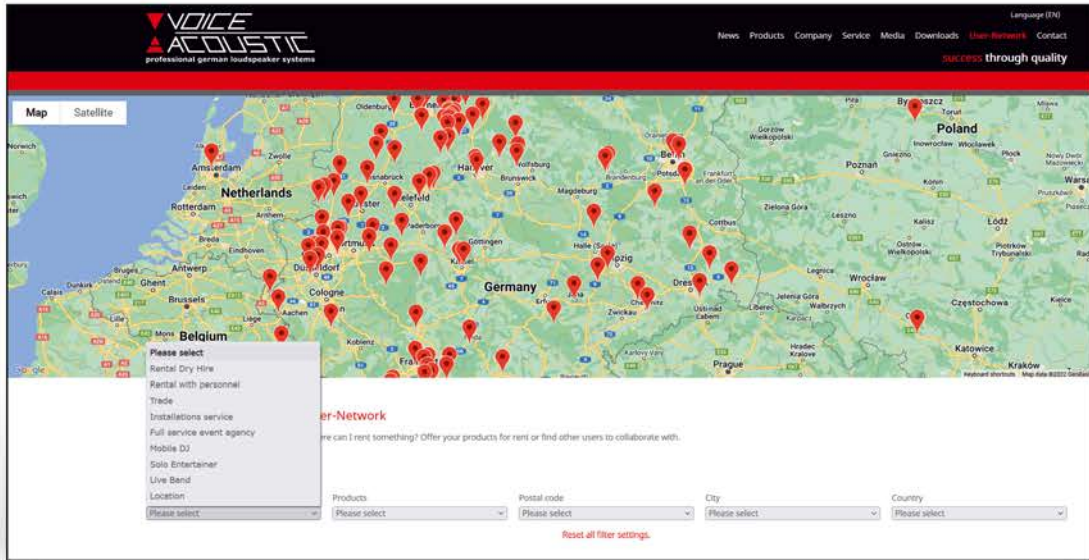


Truss system	4 conical connector truss 290-4
Construction height/lifting height	4,90 m/4,70 m with our static calculation, with construction book up to 6,5 m high.
Load capacity	Indoor without dynamic load up to 400 kg / Outdoor max. 300 kg
Floor area	164 (w) x 132 cm (d) and 174 (w) x 140 cm (d) with clip-on foot stabilizer
Ballasting	Recommendation: With indoor or operating wind a minimum ballast of approx. 60 kg
Stability	up to max. wind force of 15 m/sec with max. 1.5 m ² wind attack area

User- and Rentalnetwork

Find and be found

Thanks to the uniform system electronics, Voice-Acoustic users are compatible with each other worldwide. In our interactive rental network, we bring users and customers together.

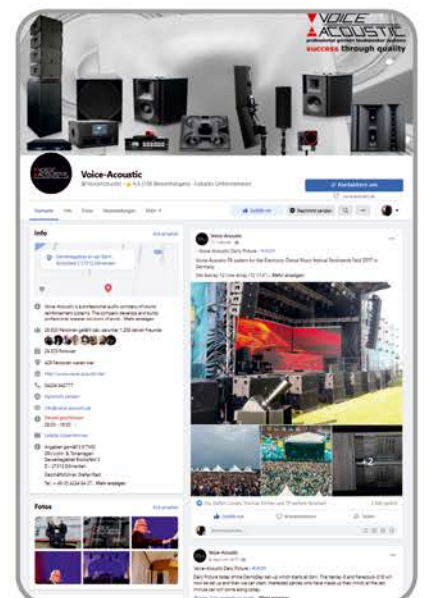
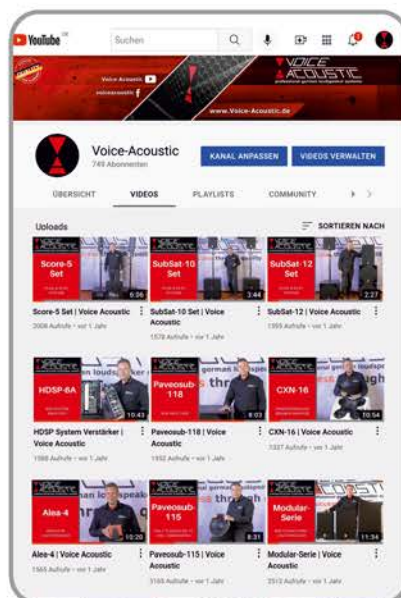
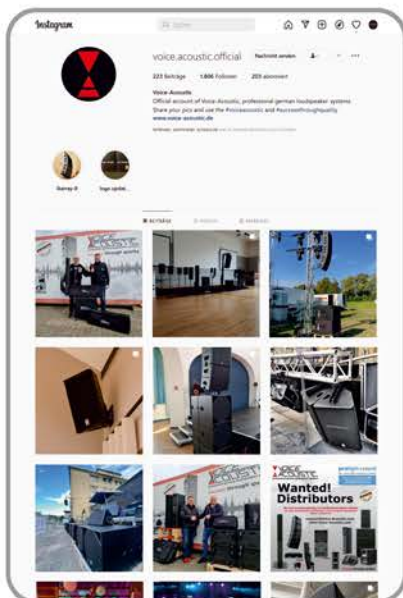


Friends help friends

You can use a search mask to find colleagues in your region and see who has which loudspeaker in their stock.

Furthermore, as a Voice-Acoustic user you can also register on our platform with your service and promote yourself, no matter if you are a rental company, installation company, event agency, mobile DJ, band or location owner. This is how your business gets additional free publicity.

Take a look into the Voice-Acoustic Community



References installations and events

When premium sound quality is required, Voice-Acoustic sound reinforcement systems are used in the world's finest venues.



Scan me and see
references where
Voice-Acoustic
systems are used.





Voice-Acoustic | group brand by SRV Distribution
Brocksfeld 3 | 27313 Dörverden / Germany | Tel. +49 (0) 4234 942777
request@Voice-Acoustic.com | www.Voice-Acoustic.com