2008

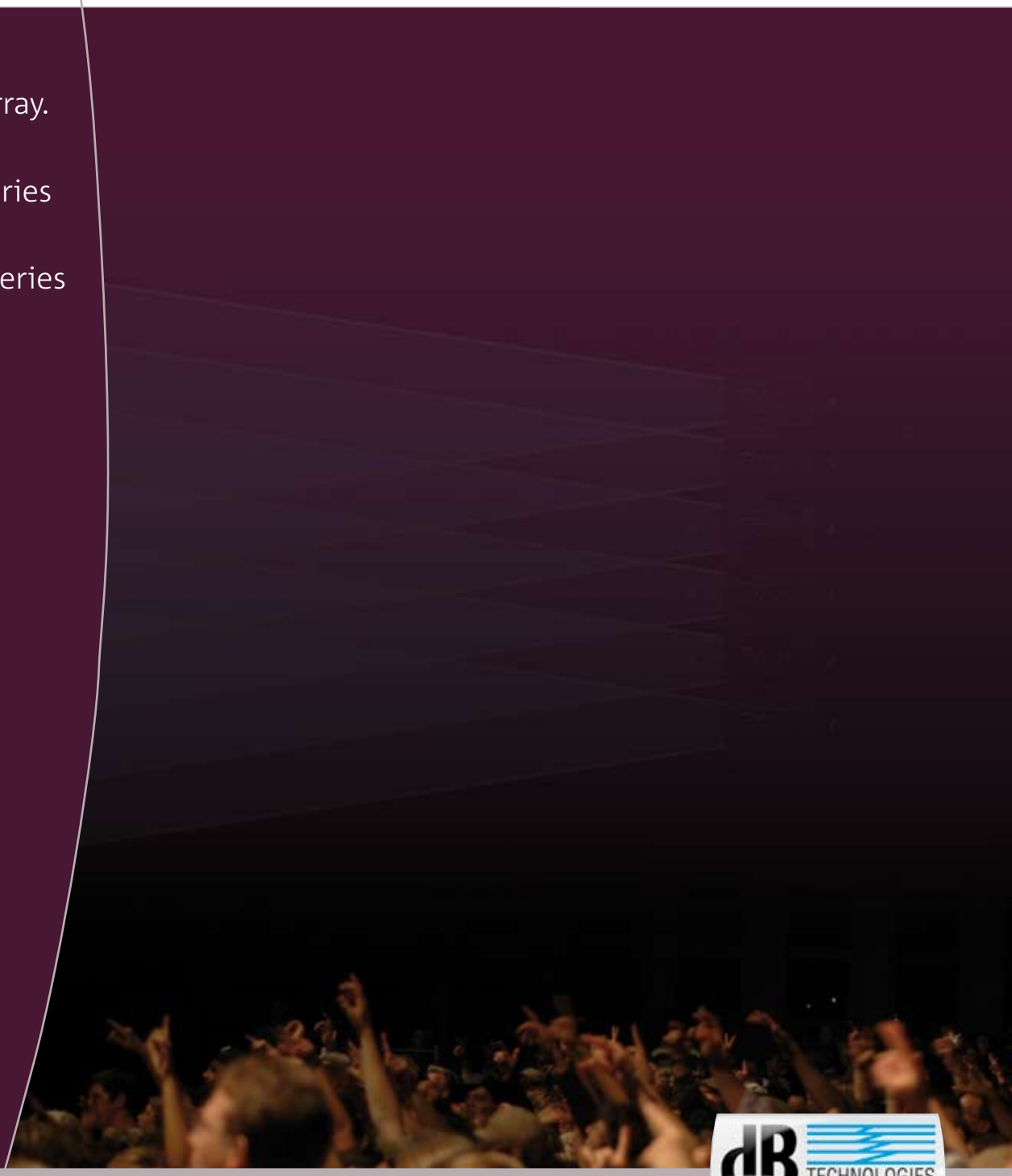
Professional Sound Reinforcement

DVA.
Digital Vertical Array.

DVX.
Active Speaker Series

Arena Pro.
Passive Speaker Series

HPA Series.
Amplifier



dB TECHNOLOGIES
THE SOUND OF EXPERIENCE

DVA.
Digital Vertical Array.

Digital Vertical Array 03
Premium components 04
Advanced amplification 06
Flying, stacking, handling 08
S10 & S20 subwoofer 10
Systems 12
Accessories 13

digipro®
Class-D power amp technology

digipro® 14

DVX.
Active Speaker Series

Features 16
DVX D12 18
DVX D15 19
DVX systems & accessories 20
DVX DM28 21
DVX DM12 22
DVX DM15 23

Arena Pro.
Passive Speaker Series

Features 25
Arena 8 Pro 26
Arena 10 Pro 27
Arena 12 Pro 28
Arena 15 Pro 29
Arena SW15 Pro 30
Arena SW18 Pro 31
Arena Pro systems 32
Arena Pro accessories 33

HPA Series.
Amplifier

Features 34

DSX24.
Digital speaker controller

Features 35

The sound of experience

A.E.B. Industriale SRL, the manufacturer of dBTechnologies products is shaped by the engineering and the spirit of the owner and founder Arturo Vicari. The passion for audio and technology is the key to success for dBTechnologies, from research & development to production and distribution.

Our worldwide network of production and distribution, coordinated through our head office in Bologna/Italy, guarantees a cost effective production and a superb customer service.

When developing our products, it is vital to us to be able to offer an innovative, flexible and reliable product which suits highest professional demands, all for an affordable price. High investments into R&D enable us to fulfil the professional demands of our customers. With innovative ideas and high motivation, our young R&D team around head designer Claudio Ottani works day and night to provide you with the most outstanding products using our well known audio design.

Quality management is one of the top priorities of dBTechnologies. With the utmost care for quality during the manufacturing process and several audio tests over many hours with the finished product, we guarantee a continuously high quality and reliability.

We are very sure that we can offer you one of the best products on the market. See, feel and hear for yourself! Check our products out with the most dynamic and fragile instrument of the world - your own voice. You will be convinced!



DVA. Digital Vertical Array.

Since the 90's the Line-Array technology has changed sound reinforcement drastically. The vertical arrangement of speakers in an enclosure offers a high influence to soundspreading and reduces in comparison to ordinary soundsystems the loss of signal in relation to distance combined with a slim structure and broad sound distribution.

DVA makes this technology, which up to recently was only provided in high profile projects and installations, available for a broad range of budget orientated applications. All relevant criteria like weight, acoustic handling including purchase price and additional costs in form of transport and flying accessories have been well considered.

Despite above mentioned features, the DVA is not limited in terms of curving and maximum amount of possible Array-Elements, like products of competitors in recent history in this segment. Specially the individual curving, optimised to the demands of the event, enables the acoustic advantages and shows the flexibility of DVA.

dBTechnologies designed a Line Array which sets new standards in handling, flexibility and profitability by using most modern technology and materials, with a vast amount of knowledge and experience in building active loudspeaker systems

The DVA T4 Line-Array element has a sensational weight of only 13,2kg. The obvious advantage for handling and transport also makes flying possible where under normal circumstances the trussing is not strong enough to support also flying of the audio devices - an Array of 8 T4 Tops therefore weights less than 120 kg.



Premium components

Most competitors are forced to buy the heart of a loudspeaker system, the speakers itself, from an outside manufacturer. dBTechnologies produces its own components mostly specially designed for the appropriate project. The company follows therefore a long tradition to use components which are custom tailored from the start rather than using material which has to be costly acoustically bended. The result is an outstanding performance and the typically faithful and natural sound reproduction which dBTechnologies is known for.

Together with the renowned sister company RCF, custom tailored components have been developed, which are outstanding for this product segment. The finest materials like Neodymium and Mylar have been used to give this system an incredible performance with high SPL, low distortion and an even lower weight.



Constant Directivity.

The DVA T4 Top is equipped with a constant directivity horn for the High and Mid section and offers a nominal coverage angle of 100°x15°. The CD-Horn provides high flexibility and a good natured attitude if for instance the Array is not aligned correctly.

The DVA uses apart from the formation of cylindrical waves (very much depending on the number of T4 elements) the vector summing of the individual horns. This means that with growing distance to the source (if set up correctly) the listener perceives more and more vector sums of the single elements.

However it has to be considered, that the fewer elements are used to spread the sound to a specific area, the stronger must be the curving of them. That's how the effect of optimised SPL distribution is managed.







State-of-the-Art Drivers.

The build in 1”Neodymium- Drivers are equipped with a 1.4” Mylar-Membrane which allow a very quick response and provide a linear frequency range at a surprisingly low weight. This driver was specially designed for the use with Line-Arrays. Its compact measurements allow very close proximity which is a main factor for minimum interference.





High Efficiency.

The 6.5“ Neodymium-Midrange speaker has a sealed basket to provide an optimized volume capacity including high sensitivity and superb sound reproduction. It also has a horn exit including phase plug for defined and linear sound emission.





Reliability.

The 8“ Neodymium-Woofer is equipped with a high power 2.5“ voice coil to provide superior sound pressure level in a very compact size.

Advanced amplification.



dBTechnologies is known for its active loudspeaker systems at an exceptional price/value relation. The DVA-System underlines this philosophy more than ever. Especially with a 3-way Line-Array element the advantages of integrated processor controlled amping and active crossover circuitry are expressed to the maximum.





Also available in white.

DVA T4. Technical data

Acoustic data

Frequency Range	80 – 19.000 Hz (+-3dB)
SPL peak	128 dB
Horizontal Dispersion nom.	100°
Vertical Dispersion nom.	15° single Cabinet
High	2 x RCF 1“ Neodym with 1,4“ voice coil
Mid	1 x RCF 6,5“ Neodym with 1,5“ voice coil with hornexit and phaseplug
Woofer	1 x RCF 8“ Neodym with 2,5“ voice coil

Input section

Input	XLR fem. sym.
Parallel Output	XLR male
Input Sens.	0dB

Soundprocessing

Type	Analog Devices 24-Bit, 48 KHz
X-Over frequency	400 Hz, 1800 Hz / 24 dB/ Oct.
Time Alignment	Yes
Protection Circuitry	single channel switch off at fault powerreduction at overheating
Limiter	Digital multibandcompressor-/limiter and analog limiter
System Presets	8 setups, HF/Low-Mid correction

Amplification

Type	Digital Class-T™ with variabler clock freq.
PSU	PFC switchmode supply
Power	220 Watts/RMS LOW
	100 Watts/RMS MID
	100 Watts/RMS HIGH
Cooling	convection (fanless)
Mains	Powercon In/Out 85V – 265 V automatic

Weight & Dimensions

Depth	327mm
Height	240mm
Width	580mm
Weight	13,2kg
Housing	Polypropylen
Flying	integrated flyware
Handles	2
Wheels	optional wheel kit
Grill	metal grill with acoustic foam
Colour	black/white
Accessories	DSA-4 stand adopter for 3 DVA T4
	DRK-10 rigging kit for 16 DVA T4

Digital amping with analog sound.

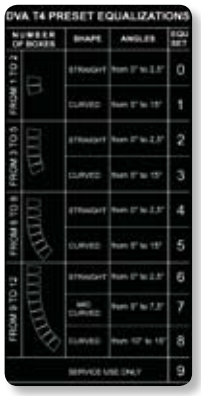
A peculiarity are the digital amp modules of the T4. They are Class-T™ build technology which compared to ordinary digital amps have a much smoother reproduction of high frequencies. The result is an accurate and natural sound reproduction with almost no difference to an analog drive also in the high frequency range.

Innovative amping.

The DVA T4 has an integrated active PFC-Switchmode supply. It is very lightweight and has an efficiency of almost 90%, which enables up to 8 DVA T4 to be driven safely on only one 230V/16A wire. The supply works on voltages from 85-260V, so it will accept all different mains worldwide, even under the worse conditions.







Highest security

In addition to the integrated multiband compressor/limiter, the analog input stage of the T4 provides analog limiters per signal path for a maximum of signal and operational safety. The build in DSP monitors, besides the acoustic management, also the complete power amp section.
Any fault within the 3-Way amp circuitry can be detected and only the faulty channel will be muted to avoid unwanted noise. Also the temperature of the power amps is controlled by the DSP. In case pre-set temperature limits are reached the amp does not switch of. The inputs will be regulated down by 3,6 or 9dB depending how hot the amp gets. The system will stay operational in most cases.

Easy setup.

Different sound setups for ideal audio results within the Array are build into the DVA T4. To compensate the HF absorption of the air, the setups are mainly adjusting the high frequencies to Near/Mid or Farfield.

Latest technology.

The DVA T4 has an integrated active PFC-Switchmode supply. It is very lightweight and has an efficiency of almost 90%, which enables up to 8 DVA T4 to be driven safely on only one 230V/16A wire. The supply works on voltages from 85-260V, so it will accept all different mains worldwide, even under the worse conditions..

Incredible dynamics.

The digital amp of the DVA T4 offers DPP™ Digital Power Processing and a Multiband Compressor/Limiter with individual characteristics per signal path. It has got a wide range of dynamic reserves with headroom for the Mid/High section of up to 22dB. In addition to the wide dynamics this innovative circuitry makes sure that the signal stays acceptable even if the system is pushed to the limit.

All the above mentioned features stand for an extremely powerful loudspeaker system. Not only the audio performance but the low weight of only 13,2kg per DVA T4 Line-Array element is a big advantage of the modern concept and technology. It is easy to handle and allows quick setup even in difficult environments.





Flying, stacking, handling





Ultra leightweight.

The DVA T4 comes with precisely engineered flying hardware. The hardware in combination with the extremely low weight of a T4 top allows easy and fast setup of the whole system. The curving can be adjusted in steps of 2.5° within a range of 0° and 15°.

For an optimum of performance the system should be principally flown. The DRK-10 flying frame holds up to 16 T4. For professional handling the frame is well balanced and the angle of inclination can be corrected with the upper rear flying rails.

Groundstacking.

In case there are no possibilities to fly the system or the ceiling of the venue is not high enough, the DRK-10 can be used for groundstacking too. A special bracket provides an inclination up to 7.5°.

The DRK-10 fits exactly onto the surface of an upright positioned DVA S20 subwoofer and can be mounted by two M10 threads on top of the sub.



Transport.

For an easy transport of 3-4 DVA T4 elements, the DTF-4 dolly is optionally available. In this case, the Array is directly fixed by the flypins onto the dolly. A separate fixture for the flybar is integrated. The DWK-4 is fitted with four Bluewheels and can be equipped either with a protection cover or, after dismantling the wheels, mounted onto the bottom of a flight case.

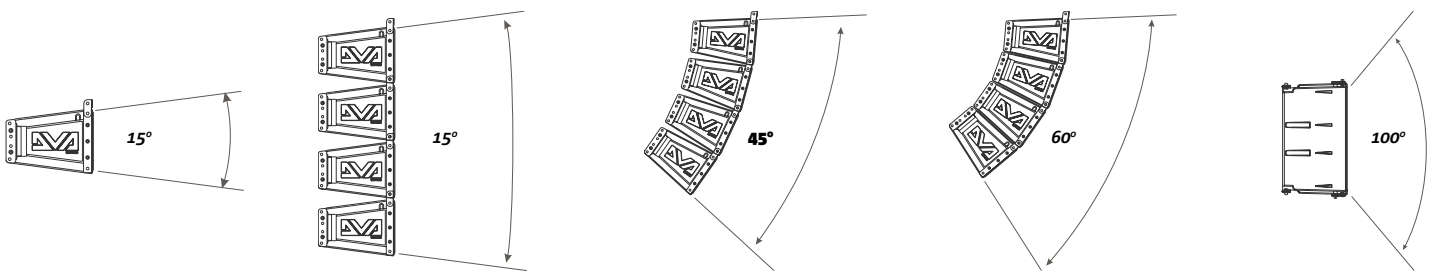
This frame can also be used for groundstacking for 1 to 4 DVA modules, for example for upward sound distribution to the stand of a football stadium or as a nearfill at front stage.





Rigging-Tower.

For Arrays of a maximum of 8DVA T4 tops, dBTechnologies offers with the DRL-45 an optional, compact and cost effective rigging tower. The tower takes up to 300kg and offers a maximum height of 4.50m.
A flight case for the DRL-45 is included.



S10 & S20 subwoofer

S10 & S20 subwoofer.

A remarkably versatile 18" subwoofer featuring band-pass design, the DVA S10 delivers true, tight, and punchy bass response that supports and blends beautifully with DVA T4 mid-/high-range units' signal. It offers utmost flexibility, courtesy of its integrated M20 pole mount and an optional SRK-10 rigging hardware retrofit.

Featuring a dual 18" subwoofer pairing in a bass reflex housing, the DVA S20 delivers powerful performance, rendering frequencies as low as 35 hertz assertively and with impressive authority. It is the perfect sub-bass provider for DVA S10/T4 systems and an excellent complement to DVA T4 mid-/high-range units in stacked arrays.



S10



S20



RCF precision woofer.

The DVA S10 and S20 subwoofer are equipped with powerful RCF Precision woofers with neodymium magnets and a 4" voice coil for extremely high sound pressures. Double ventilation provides an optimum of cooling, a minimum of power compression at high reliability.

The woofers are fibreglass reinforced and have a triple-roll coil embedded in a perfect edging with constant geometry. This combination makes an extreme peak-to-peak steering of up to 48 mm possible.

DVA S10 Technical data

Acoustic data

Frequency Range	40Hz–90Hz or 120 Hz (+-3dB)
SPL peak	136 dB
Woofer	1 x RCF 18" Neodym with 4" voice coil

Input section

Input	XLR fem. sym.
Parallel Output	XLR male
X-Over Output	XLR male
Input Sens.	+4dBu bis –2dBu

Soundprocessing

Type	analog
X-Over frequency	90Hz oder 120Hz
Time Alignment	optional
Protection Circuitry	RFI, thermal
Limiter	analog limiter
Phasereverse Switch	Yes

Amplification

Type	Class-D
PSU	Switchmode supply
Power	1000 Watt/RMS
Cooling	convection (fanless)
Mains	Powercon In/Out 110V/230V switchable

Weight & dimensions

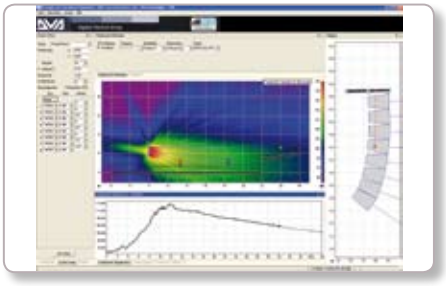
Depth	720mm
Height	640mm
Width	515mm
Weight	46kg
Housing	birch multiplex
Flying	Optional with S10 Fly Kit
Handles	6
Wheels	prepared for 4 wheels
Grill	metal grill
Colour	black
Accessories	SDD Digital Delay Modul S10 Fly-Kit

Incredible power.

The S20 Subwoofer is fi tted with a 2000 W/RMS digital amplifier, the S10 Subwoofer with 1000W/RMS. This extremely high power output is delivered by a comparatively low weight Class-D switch mode power amp.
Thanks to the high power level, 138 dB SPL are not a problem. Despite this incredible power, this amplifier does not need a cooling fan, which allows the S10 and S20 also to be working in an installation environment.







Easy to setup

Further features of the S10 and S20 are a switchable active crossover with crossover frequencys of 90Hz and 120Hz and a phase reverse switch. Optionally available is the delay module SDD to adjust time alignment of a fl own T4 Array or to correct the signal if the subwoofer is put in front of stage, but the Array is in line with the ground support of the stage.
A Powercon with slave out connects the S10 and S20 to the mains*. The X-Over output provides the signal for the T4 tops.

* Not S20

Made for touring.

The housing are made out of rigid birch multiplex wood and is covered with black paint.
Four integrated handles cater for an easy transport of the unit, 16 threads at the back of the S10 and S20 are ready to take on a set of four Blue Wheels. For stacking purposes, two wooden rails have been fi tted to the bottom of the sub.

DVA setup mit EASE Focus

EASE Focus makes configuring a DVA system so much easier because this software simulates the system in the virtual realm. Flown arrays with S10 subwoofers or stacked arrays with S10 and S20 bins are readily visualized. It can depict several audience target zones at the same time to map out more intricate venues comprising different coverage areas such as arenas, bleachers, and balconies.

Color 2D graphics provide an easily understood view of throw patterns and sound pressure levels so you can configure the array for the best possible results. It also offers you easy access to key rigging parameters such as the height of the rigging frame, the choice of pick points, the array's curvature, total weight, and system preset selections.

DVA S20 Technical data

Acoustic data

Frequency Range	35Hz–90Hz or 120 Hz (+-3dB)
SPL peak	138 dB
Woofer	2 x RCF 18“ Neodym with 4“ voice coil

Input section

Input	XLR fem. sym.
Parallel Output	XLR male
X-Over Output	XLR male
Input Sens.	+4dBu bis –2dBu

Soundprocessing

Type	analog
X-Over frequency	90Hz oder 120Hz
Time Alignment	optional
Protection Circuitry	RFI, thermal
Limiter	analog limiter
Phasereverse Switch	Yes

Amplification

Type	Class-D
PSU	switchmode supply
Power	2000 Watt/RMS
Cooling	convection (fanless)
Mains	Powercon In/Out 110V/230V switchable

Weight & dimensions

Depth	700mm
Height	580mm
Width	1100mm
Weight	69kg
Housing	birch multiplex
Handles	8
Wheels	prepared for 4 wheels
Grill	metal grill
Colour	black
Accessories	SDD Digital Delay Modul



Flown DVA S10s with six DVA T4 mid-/high-range units

The combination of DVA S10 subwoofers and DVA T4 mid-/high-range units in a flown array packs a mighty fullrange punch with serious SPL. This setup is the preferred configuration in venues where you are unable to place bass bins on the floor or where you wish to cover bleachers or balconies.



DVA S10 and S20 ground stack with four DVA T4 mid-/high-range units

Even if a venue lacks the rigging points required to fly an array, you can set up ground stacks with DVA S10 and S20 subwoofers and still enjoy the benefits of DVA T4 line array technology.



DVA S10 paired with a DSA-4 holding three DVA T4 mid-/high-range units

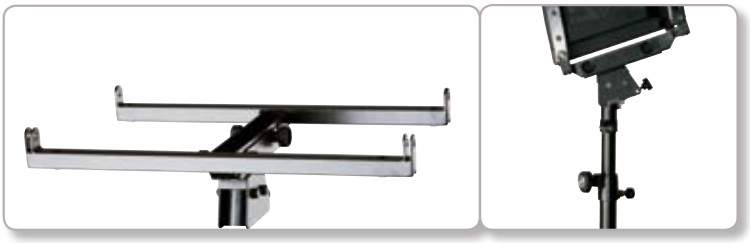
The combination of a DVA S10 subwoofer and a DSA-4 pole mount adaptor holding up to three DVA T4 mid-/high-range units is a great solution for smaller applications and for delay zone sound reinforcement. The continuously adjustable DSA-4 adaptor lets you aim the mid-/high-range units



DVA S10 cardioid bass setup with the SDD module

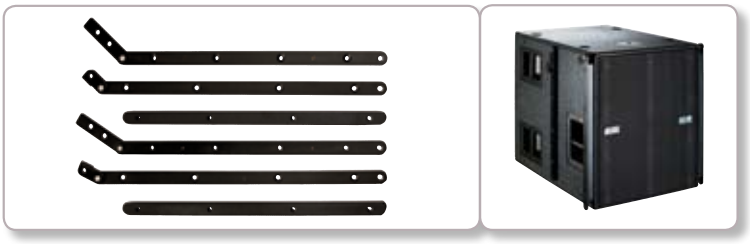
A cardioid setup comprising the SDD module and three DVA S10 subwoofers on each side keeps levels down on stage and affords you far greater control over low-frequency coverage in the audience area. Never before has this innovative solution – which until today entailed much effort and audio gear – been so easy to achieve with such professional results.

Accessories



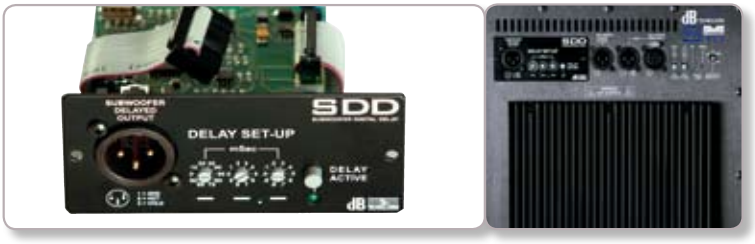
DSA-4 Pole Mount Adaptor

The DSA-4 Pole Mount Adaptor holds up to three DVA T4 modules on single pole. A set screw adjusts the tilt angle smoothly rather than in stepped increments, enabling ultra-precise alignment. A scale on the side of the adaptor indicates the selected angle. Paired with an S10 subwoofer, this adaptor makes it so easy to set up three-way systems for smaller applications.



SRK-10 Fly Kit for S10 subwoofer

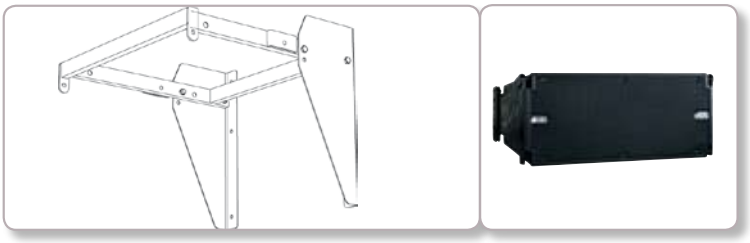
Retrofitted with the optional SRK-10 Fly Kit, the DVA S10 subwoofer is easily rigged to a DRK-10 harness and flown alongside DVA T4 mid-/high-range units.



SDD module

Readily retrofitted for S10 and S20 subwoofers, the Subwoofer Digital Delay compensates for timing differences between flown arrays and stacked subwoofers, particularly when subwoofers are sited in front of the array. Three countersunk knobs adjust delay time.

The SDD module comes with a Bypass switch that disables the delay function, and an XLR output that connects further subwoofers to the SDD module. Combining the SDD module with S10 subwoofers also lets you set up a cardioid bass system that attenuates rearward directed sound waves and bundles low-frequency sound waves radiated forward.



Wall mount DWB-3

The DWB-3 wall mount is designed specifically to attach cabinets to walls for fixed installation. It accommodates up to three DVA T4 mid-/high-range units.

Class-D power amp technology



digipro® digital power

Power Densitiy

digipro® Class-D power amp technology packs huge performance and operating efficiency into a lightweight solution that leaves a very small footprint. With its remarkable 1:1 power-output-to-weight ratio, this technology brings highest performance capability to compact speaker systems. What's more, it is also phenomenally easy to handle.
digipro® - the high-End Powerpack.

Audiophile Performance

Power amps need a great deal of headroom to render natural audio events as authentically as possible. It takes a high-voltage power supply to provide this kind of headroom.

digipro® delivers exceedingly high performance ranging up to 1000W/RMS, providing the dynamic range required for faithful, true-to-nature reproduction of every input signal. This power, paired with an ultra fast attack and truly realistic transient response, yields impressive audio performance that rivals that of very elaborate and expensive tube circuits. With a high pulse frequency of 500 KHz, this technology is able to deliver high-definition, high-fidelity audio signals with richly detailed yet natural-sounding top end.

Full-fledged Class-D for Full-blown Efficiency

In contrast to many other so-called "digital" power amps that merely run on a clocked switched-mode power supply, **digipro®** is a full-fledged Class-D power amp that operates on the principle of pulse width modulation (PWM). This technology is tremendously efficient with more than 90% yield. Components remain very cool because so little energy is lost in the form of heat. No fans are necessary. What's more, components last longer and operate more reliably courtesy of the reduced thermal load.

Maximum performance

digipro® power amps come with highly advanced, ultra efficient switched-mode power supplies (SMPS) with active power factor correction (PFC). They provide all the juice amps need to deliver peak performance even when mains power quality is poor, for example, when low power feeds at live events cause voltages to dip. This makes SMPS far superior to conventional power supplies. SMPS:

- Operates in the range of 95 V to 265 V
- Conditions power when line voltages fluctuate

Power and intelligence

digipro® technology synchronizes power stages and control circuits, creating an intelligent, responsive protection and supervision system. An integrated processor controls the ongoing interaction between the audio signal, switched-mode power supply, and PWM output stages, and processes key information concerning the status of the internal signal flow from the input to the speakers.

- **digipro®** monitors impedance and shuts down in case of short-circuit.
- Thermal limiters attenuate performance if the unit runs hot.
- Peak and RMS limiters protect speakers.

Digital 2-Way Active Speaker



DVX

Digital 2-Way Active Speaker

The DVX series pairs dBTechnologies' new **digipro®** power amp technology and state-of-the-art RCF neodymium speakers to raise the bar several notches for sound pressure, performance, and response. Boasting an impressive feature set comprising high quality input board, multifunctional birch multiplex housings equipped with rigging points and rails, flexible configuration options, and an unrivalled price-to-performance ratio, DVX systems are discerning professionals' go-to solutions for a vast range of applications.

Alongside the two D12 and D15 multifunctional two-way systems, the DVX line also comprises the three DM28, DM12, and DM15 low-profile stage monitors. All models feature high-quality RCF loudspeaker chassis equipped with neodymium magnets to reduce weight. Innovative, high-performance dBTechnologies **digipro®** power amps deliver impressive 750W/RMS each to drive these advanced speakers.

Setting new reference standards for digital high-performance amps, **digipro®** technology packs a great deal performance into a remarkably light package with a small footprint. These efficient amps do not require fans because they generate little heat. Small and light yet very powerful, they can drive even compact systems to deliver high performance, faithful dynamic response unprecedented in its true-to-nature accuracy, and extremely muscular low end. All DVX Series models feature highly efficient switched-mode power supplies with power factor correction. This PFC ensures the devices get the juice they need to perform at their peak even under challenging conditions, for example, when dealing with low voltage supplies at live events.

Specially designed, rotatable high-frequency horns provide very clean and constant directivity. All high-frequency horns are made of aluminum to help keep their drivers cool.

The integrated audio controller carries out various tasks involved in controlling **digipro®** power amps, serving as an active equalizer, x-over, high-pass filter, as well as performing audio setup tasks, aligning phases and delay time, and controlling the limiter to ensure utmost reliability and operating safety.

All DVX Series models come in a professional-grade birch multiplex housing equipped with PowerCon mains connectors and a rugged metal grille backed with laminated acoustic foam rubber. D12 and D15 models feature high-quality aluminum grips, a pole mount, and a rigging system. DM12 and DM15 monitors are also equipped with a pole mount.



Versatile and robust

- High-quality housings made of multiplex coated with a rugged black textured finish
- Professional-grade M10 threaded rigging points and rails
- Professional mounting accessories optionally available



High-quality RCF® speaker components

- RCF PRECISION neodymium woofer with double-wound voice coils for highest load-handling and minimum power compression
- RCF PRECISION neodymium high-frequency Direct Drive driver and high-quality tweeter cones made of Mylar or titanium
- Rotatable high-frequency horns painstakingly engineered for excellent directivity and made of aluminum to keep drivers cool



EASD™ - Entire Active System Design

- State-of-the-art **digipro®** power amp technology for peak power and performance with convection cooling
- Switched-mode power supplies with PFC for highest efficiency and reliability
- Integrated controllers enabling fast setup and affording excellent system protection

Digital 2-Way Active Speaker



DVX Multifunctional Systems

Designed with a user-first focus in mind, the new DVX Series carries on where the popular DVA Line Array left off. Catering to PA hire and sound reinforcement companies, as well as musicians and everyone else seeking affordable audio equipment that delivers premium performance and excellent return on invest, DVX components are state-of-the-art public address tools for mobile applications and fixed installation.

DVX-D models boast excellent technical specifications and the most advanced technology, paired with remarkable flexibility. DVX-D rigs may be configured as fullrange systems and as combinations of mid-/high-range units and subwoofers. These cabs can even be used as monitors, side-fills, and delay lines, making them the Swiss Army knife of PA systems. Event service providers are sure to love the flexibility of universal tools that may be rigged up and flown, or set vertically or horizontally. And their remarkable ease of use makes them perfect candidates for dry hire: Even novices can quickly set them up and put them to good use. DVX-D satisfies all the needs of discerning musicians, bands, and others looking for an excellent mobile or fixed audio system.

Featuring top-drawer speaker components, rotatable CD horns, multifunctional enclosures including rigging appointments, and the latest digital power amps with switched-mode power supplies offering PFC, the DVX-D line is the solution of choice for demanding professionals.



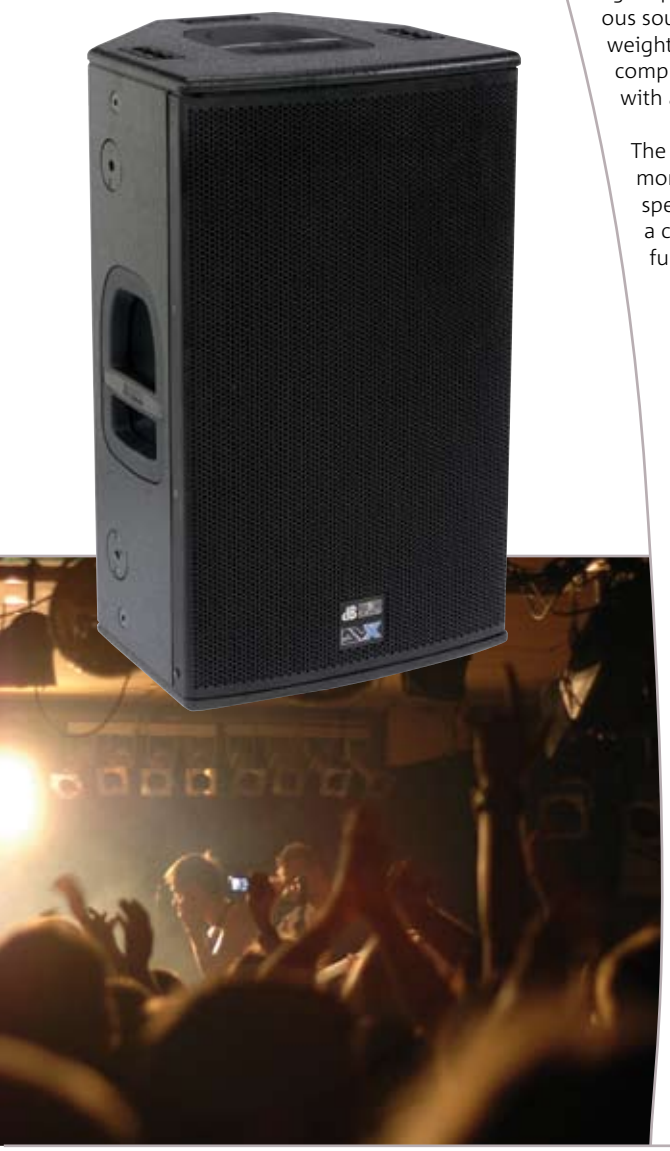


DVX DM Stage Monitors: High-End - Low Profile

Professionals expect a great deal from a stage monitoring system. It must deliver very dynamic response, yet remain feedback proof up to very high signal levels, and be inconspicuous so it does not obstruct the audience's view of the artist. Active DM models were developed specifically to meet these demanding requirements for monitors.

The housings' low-profile design is unobtrusive, fitting in on every stage. The entire speaker system and circuitry have been fine-tuned specifically to deliver premium performance for this application. Three models are available to satisfy different user requirements.

DVX D12 **Active 12“/1.4“, 2-way multifunctional speaker cabinet**

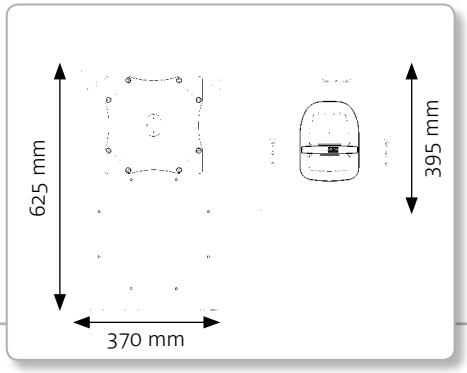


Configured as a classic 12“/1.4“ 2-way system, the DVX D12 is a compact, astonishingly light enclosure offering very flexible application options. Its integrated, high-performance **digipro®** digital power amp delivers exceedingly dynamic response, crisp and tight low end, and tremendous sound pressure. Loaded with high-quality speakers sporting neodymium magnets to reduce weight, it provides high-end audio performance with maximum reliability and minimum power compression. A 1.4” driver with a 2” voice coil designed to handle highest loads renders vocals with amazing accuracy across medium-to-longer throw distances.

The housing’s multifunctional design incorporates rigging points and a slanted panel serving monitoring purposes. The onboard controller even provides a special monitor setup that specifically adapts the enclosure’s performance for use as a monitor. This DSP also acts as a controller, providing active equalizer, x-over, limiter, and phase and time alignment functions. The DVX D12 is the perfect match for the DVA Series subwoofers.



equipped with digipro® digital power



DVX D12 Technical data

▸ Audio data

Frequency response	55 Hz - 20 kHz (-10 dB)
Frequency response	68 Hz - 19 kHz (+-3 dB)
Max SPL:	131 dB
Bass/midrange woofer:	12“ RCF neodymium, 3“ voice coil
High frequency driver:	1.4“ RCF neodymium compression driver, 2.5“ titanium voice coil
Horn:	60° x 40° aluminum CD horn
Rotatable:	Yes

▸ Amp and processor

Power supply:	1000-watt switched-mode power supply with PFC
HF amp:	Class-D 250 W/RMS
Bass amp:	Class-D 500 W/RMS
Cooling:	Convection, fan-free
System presets:	FOH, Monitor
Limiter:	RMS, thermal limiters
X-over frequency:	1350 Hz, 24 dB/octave

▸ Input section

Signal input:	XLR fem. balanced
Signal link:	XLR male balanced
Input sensitivity:	Max. -3dBu
Mains:	PowerCon Input and Link

▸ Hardware

Enclosure:	Multiplex coated with textured black lacquer
Handles:	Two aluminium side grips and one on top
Pole mount:	36 mm
Angles up:	45° for monitoring applications
Grille:	1,5mm metal backed with acoustic foam rubber
Rigging points:	6x rails, 6 x M10 and 4x 10mm quick-release
Dimensions (W x H x D):	370 x 395 x 625 mm 14.5“ x 15.5“ x 24.6“
Weight:	22 kg, 48.4 lbs
Optional accessories:	Mounting yoke, Gig bag

DVX D15 **Active 15“/1.4“ two-way multifunctional speaker cabinet**

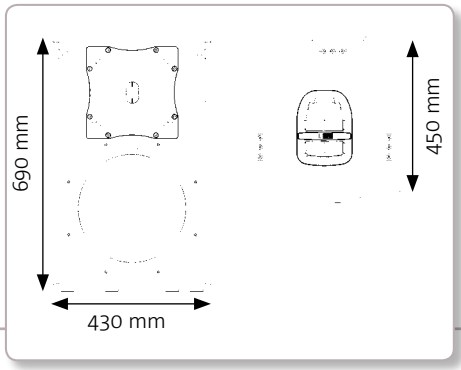


A two-way system featuring 15“/1.4“ speakers, the DVX D15 is the enclosure of choice for use as a fullrange FOH speaker or a powerful drum monitor. It delivers punchy, assertive bass response without requiring an added subwoofer. Its integrated, high-performance **digipro®** digital power amp delivers very high sound pressure levels, exceedingly dynamic response, and tight, clean low-end response. Loaded with high-quality speakers sporting neodymium magnets to reduce weight, it provides premium audio performance with maximum reliability and minimum power compression.
A 1.4” driver with a 2,5” voice coil designed to handle highest loads renders vocals with a powerful, assertive punch, easily throwing signals across medium-to-longer distances.

The housing’s multifunctional design incorporates rigging points and a slanted panel serving monitoring purposes. The onboard controller even provides a special monitor setup that specifically adapts the enclosure’s performance for use as a monitor. It also serves as a controller for an active equalizer, x-over, limiter, and phase and delay time alignment. The DVX D15 is the perfect match for DVA Series subwoofers.



equipped with digipro® digital power



DVX D15 Technical data

▸ Audio data

Frequency response	49 Hz - 20 kHz (-10 dB)
Frequency response	57 Hz - 19 kHz (+-3 dB)
Max SPL:	132 dB
Bass/midrange woofer:	15“ RCF neodymium 3,5“ voice coil
High frequency driver:	1.4“ RCF neodymium compression driver, 2.5“ titanium voice coil
Horn:	60° x 40° aluminum CD horn
Rotatable:	Yes

▸ Amp and processor

Power supply:	1000-watt switched-mode power supply with PFC
HF amp:	Class-D 250 W/RMS
Bass amp:	Class-D 500 W/RMS
Cooling:	Convection, fan-free
System presets:	FOH, Monitor
Limiter:	RMS, thermal limiters
X-over frequency:	1320 Hz, 24 dB/octave
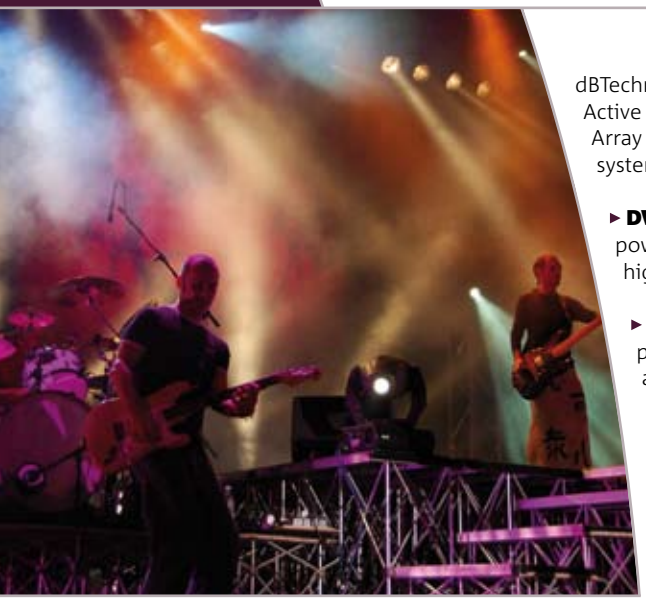
▸ Input section

Signal input:	XLR fem. balanced
Signal link:	XLR male balanced
Input sensitivity:	Max. -3dBu
Mains:	PowerCon Input and Link

▸ Hardware

Enclosure:	Multiplex coated with textured black lacquer
Handles:	Two aluminium side grips, one on top
Pole mount:	36 mm
Angles up:	45° for monitoring applications
Grille:	1,5mm Metal backed with acoustic foam rubber
Rigging points:	6x rails, 6 x M10 and 4x 10mm quick-release
Dimensions (W x H x D):	430 x 690 x 450 mm 16.9“ x 27.2“ x 17.7“
Weight:	25 kg, 55 lbs
Optional accessories:	Mounting yoke, Gig bag

DVX Systems & accessories



dBTechnologies has taken the active speaker a step up the evolutionary ladder with the Entire Active System Design – or EASD™ for short. Now DVX models may be combined with DVA Line Array active DVA S10 and DVA S20 subwoofers to create full-fledged active sound reinforcement system that require no added controllers.

- **DVX D12-S10:** Comprises two DVX 12 cabs and four DVA S10 bins for 5500 W/RMS total power output. This remarkably flexible and versatile active PA features a 12“/1.4“ mid-/high-range unit and an 18“ band-pass subwoofer rated for 1000 W/RMS

- **DVX D15-S20:** Comprises two DVX 15 cabs and two DVA S20 bins for 5500 W/RMS total power output. Able to deliver extremely powerful sub-bass response, this active PA features a 15“/1.4“ mid-/high-range unit and two 18“ bass reflex subwoofers rated for 2000 W/RMS



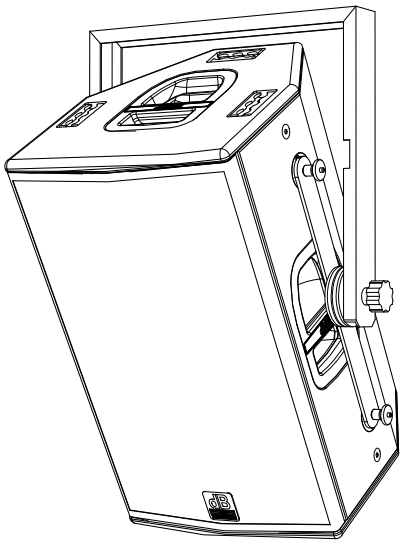
DVX D12-S10



DVX D15-S20

Mounting yokes for DVX D12 and DVX D15.

The DTF12 /DTF15 mounting yokes serves to rig up and fly DVX 12 and DVX 15 enclosures. Quick-release pins attach the mounting yokes to enclosures’ side panels - no further tools necessary and no more hassles tightening and loosening eyebolts. This is a tried-and-true rigging method borrowed from line arrays, used for the first time in the DVX-D Series. Hand-wheels at the suspension bracket’s sides set the tilt angle, locking them in place to prevent unintentional adjustments.
A half-coupler or truss clamp attaches the suspension bracket to the truss.



Gig bags.

Robust padded gig bags tailored to suit each DVX model are available.

DVX DM28 **Active 2x8“/ 1“ stage monitor**



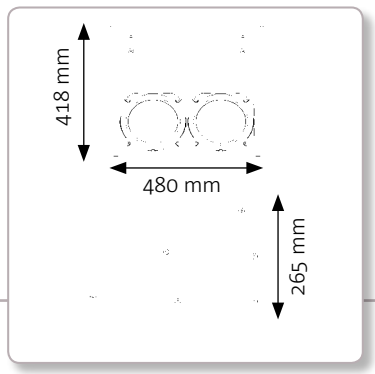
The DVX DM28 excels at rendering speech and vocals. Users’ search for natural response, dynamic balance, and high SPL in a compact, inconspicuous package ends with this stage monitor. The ultra low-profile enclosure sports two 8“ RCF® neodymium woofers with large 2.5“ voice coils that go about their business of rendering signals with impressive precision. In contrast to cabinets loaded with simple 8” speakers, the DVX DM28 packs a mighty low-midrange punch. What’s more, it responds far faster to transients in the signal, rendering each attack with awesome accuracy and power. Offering far greater dynamic range, it outperforms standard 12“ systems by.

A combination of asymmetrical CD horn (90° x 60°(40°)) and precision-matched 1“ RCF® neodymium compression driver efficiently couples high frequencies. The digipro® digital power amp featuring a PFC switched-mode power supply and the speakers are fine-tuned to minimize the risk of feedback, ensuring the DVX DM28 remains remarkably feedback resistant even at peak SPL. Made of rugged multiplex and coated with tough black lacquer, its light low-profile enclosure sets up at two different angles. The integrated controller acts as the enclosure’s controller, serving as an active equalizer, active x-over with phase and delay time alignment, and controlling the onboard limiter.





equipped with digipro® digital power



DVX DM28 Technical data

► Audio data

Frequency response	70 Hz - 20 kHz (-10 dB)
Frequency response	89 Hz - 19 kHz (+-3 dB)
Max SPL:	130 dB
Bass/midrange woofer:	2x 8““ RCF neodymium, 2.5“ voice coil
High frequency driver:	1“ RCF neodymium compression driver, 1.75“ voice coil
Horn:	90° x 60° (40°) CD horn
Rotatable:	-

► Amp and processor

Power supply:	1000-watt switched-mode power supply with PFC
HF amp:	Class-D 250 W/RMS
Bass amp:	Class-D 500 W/RMS
Cooling:	Convection, fan-free
System presets:	Fullrange, Monitor
Limiter:	RMS, thermal limiters
X-over frequency:	1600 Hz, 24 dB/octave

► Input section

Signal input:	XLR fem. balanced
Signal link:	XLR male balanced
Input sensitivity:	Max. - 3dBu
Mains:	PowerCon Input and Link

► Hardware

Enclosure:	Multiplex coated with textured black lacquer
Handles:	Two side grips
Pole mount:	-
Angles up:	30° and 60°
Grille:	1,5mm metal backed with acoustic foam rubber
Rigging points:	-
Dimensions (W x H x D):	480 x 265 x 418 mm 18.9“ x 10.4“ x 16.4“
Weight:	14 kg, 30.8 lbs
Optional accessories:	Gig bag

DVX DM12 **Active 12“/ 1.4“ stage monitor**

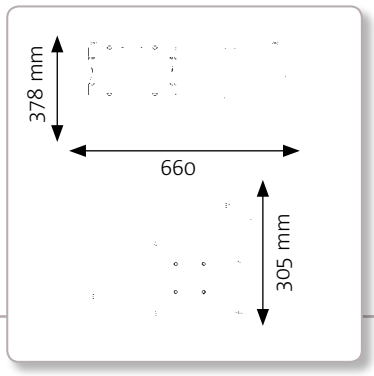


The DVX DM12 is an active bi-amped stage monitor. Powerful, assertive, and engineered for professional applications, it is the perfect choice for midsized to large stages. Featuring a discrete, unobtrusive design, the ultra low-profile enclosure sports a high-performance 12“ RCF® neodymium woofer paired with a 1.4“ RCF® neodymium compression driver and rotatable aluminum CD horn precision matched for on-stage monitoring. Unlike conventional multifunctional speakers, the DVX DM 12 is a pro-grade performer developed specifically for use as a floor monitor. Optimized to resist feedback even at extremely high levels, it delivers the true-to-nature response and dynamic balance that today’s artists demand. The integrated **digipro®** digital power amps deliver the requisite output. The switched-mode power supplies with PFC ensure touring rigs get all the juice they need to perform at their peak even when a venue’s mains power is weak and voltage is low. The onboard controller encompasses an active equalizer, active x-over including phase and time alignment, limiters, and switchable system presets that adapt the monitor’s performance to suit the given application.

Made of rugged multiplex and coated with tough black lacquer, the cabinet sets up at two different angles. It is also equipped with a pole mount, enabling the DVX DM12 to be set on a tripod or speaker pole.



equipped with digipro® digital power





DVX DM12 Technical data

▸ Audio data

Frequency response	55 Hz - 20 kHz (-10 dB)
Frequency response	68 Hz - 19 kHz (+-3 dB)
Max SPL:	131 dB
Bass/midrange woofer:	12“ RCF neodymium, 3“ voice coil
High frequency driver:	1.4“ RCF neodymium compression driver, 2.5“titanium voice coil
Horn:	40° x 90° aluminum CD horn
Rotatable:	Yes

▸ Amp and processor

Power supply:	1000-watt switched-mode power supply with PFC
HF amp:	Class-D 250 W/RMS
Bass amp:	Class-D 500 W/RMS
Cooling:	Convection, fan-free
System presets:	FOH, Monitor
Limiter:	RMS, thermal limiters
X-over frequency:	1400 Hz, 24 dB/octave

▸ Input section

Signal input:	XLR fem. balanced
Signal link:	XLR male balanced
Input sensitivity:	Max. -3dBu
Mains:	PowerCon Input and Link

▸ Hardware

Enclosure:	Multiplex coated with textured black lacquer
Handles:	Two side grips
Pole mount:	36 mm
Angles up:	35° x 55°
Grille:	1,5mm metal backed with acoustic foam rubber
Rigging points:	6x M8
Dimensions (W x H x D):	660 x 305 x 378 mm 25.9“ x 12“ x 14.9“
Weight:	17.5 kg, 38.5 lbs
Optional accessories:	Gig bag

DVX DM15 **Active 15“/ 1.4“ stage monitor**

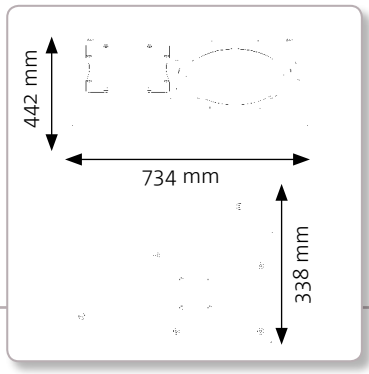
The DVX DM15 is a low-profile stage monitor. Unobtrusive yet very muscular, it is designed for sound reinforcement applications that require powerful low-end performance without added subwoofers. It sports a high-performance RCF® 15 neodymium woofer and a 1.4 RCF® neodymium compression driver, coupled to an aluminum“ CD horn. This combination’s response across the human voice’s full range is impressively assertive.

Paired with high-output **digipro®** digital power amps in a bi-amped configuration, the DVX DM15 belies its unobtrusive look with performance that is far from understated, delivering plenty of power to cover midsized to large stages. An onboard controller manages the entire system, serving as an active equalizer, active x-over with phase and time alignment, and limiter. The DSP also offers switchable system presets that adapt the monitor’s performance to suit the given application.

Made of rugged multiplex and coated with tough black lacquer, the cabinet sets up at two different angles. It is also equipped with a pole mount, enabling the DVX DM15 to be set on a tripod or speaker pole.



equipped with digipro® digital power





DVX DM15 Technical data

▸ Audio data

Frequency response	50 Hz - 20 kHz (-10 dB)
Frequency response	59 Hz - 19 kHz (+-3 dB)
Max SPL:	132 dB
Bass/midrange woofer:	15“ RCF neodymium 3.5“ voice coil
High frequency driver:	1.4“ RCF neodymium compression driver, 2,5“ titanium voice coil
Horn:	40° x 60° aluminum CD horn
Rotatable:	Yes

▸ Amp and processor

Power supply:	1000-watt switched-mode power supply with PFC
HF amp:	Class-D 250 W/RMS
Bass amp:	Class-D 500 W/RMS
Cooling:	Convection, fan-free
System presets:	FOH, Monitor
Limiter:	RMS, thermal limiters
X-over frequency:	1350 Hz, 24 dB/octave

▸ Input section

Signal input:	XLR fem. balanced
Signal link:	XLR male balanced
Input sensitivity:	Max. -3dBu
Mains:	PowerCon Input and Link

▸ Hardware

Enclosure:	Multiplex coated with textured black lacquer
Handles:	Two side grips
Pole mount:	36 mm
Angles up:	35° x 55°
Grille:	Metal backed with acoustic foam rubber
Rigging points:	6x M8
Dimensions (W x H x D):	734 x 338 x 442 mm 28.9“ x 13.3“ x 17.4“
Weight:	21 kg, 46.2 lbs.
Optional accessories:	Gig bag

Passive speakers



ARENA PRO Serie

The ARENA PRO series is a line of passive speaker cabinets comprising four high-quality two-way enclosures loaded with 1" and 1.4" compression drivers, as well as two high-performance subwoofers. Equipped with an extensive feature set, these enclosures are well-suited for diverse mobile applications and fixed installations. All mid-/high-range units come in a multifunctional multiplex housing equipped with a pole mount, a slanted rear panel enabling convenient monitoring, and up to twelve professional-grade M8 or M10 rigging points.

Loaded with high-quality speakers made of Premium RCF® components and ND series neodymium compression drivers, all models are engineered to handle considerable loads, deliver high sound pressure levels, and satisfy professional demands. They also sport aluminum CD (constant directivity) high-frequency horns designed especially for this line. Shaped symmetrically to enable 90° rotation, these horns are adjustable, easily aligned to suit the given sound reinforcement situation.

Remarkably light and equipped with ergonomic grips handles, these cabinets are easily handled. Coated with robust black textured paint, all models also sport a rugged grille backed with acoustic foam rubber.









Versatile and robust

- High-quality multifunctional housings made of multiplex coated with a rugged black textured finish
- Professional-grade M8/M10 threaded rigging points
- Professional Speakon connectors, Parallel Output included
- Protective cover included (ARENA 8/10/12/15 PRO)
- Subwoofer's threaded M20 base ready to accept a pole mount

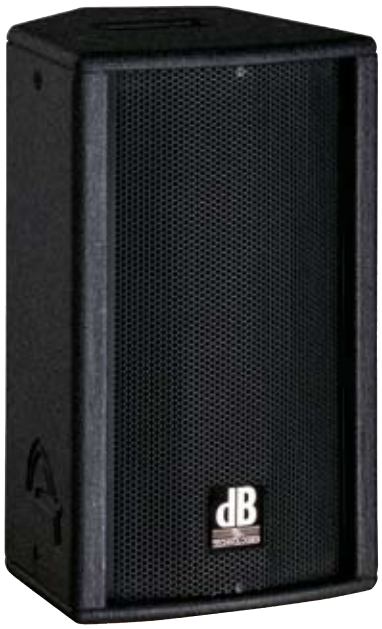
High-quality RCF® speaker components

- Rotatable high-frequency, wide-dispersion horns painstakingly engineered for excellent directivity and made of aluminum to keep drivers cool
- RCF PRECISION woofer with double voice coils (excepting the 8" model) for highest load-handling and minimum power compression; the SW 18 PRO also features a neodymium magnet
- RCF PRECISION neodymium high-frequency Direct Drive driver and high-quality tweeter cones made of Mylar or titanium
- High-quality passive voice crossovers featuring PTC tweeter protection
- With Dynamic Horn Processing DHP™ Bi-Amp performance of Arena 12 and 15 PRO is achieved with only one amplifier channel. This reduces costs, rackspace and controlling.

Easy mounting and transport

- Professional accessories optionally available
- Subwoofer ready to accept professional-grade casters

ARENA 8 PRO **8“/1“ two-way loudspeaker**



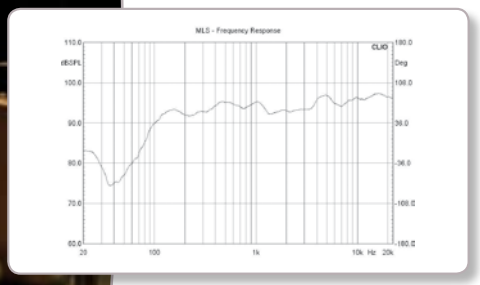
The ARENA 8 PRO is an exceedingly compact yet surprisingly powerful speaker designed to render speech and background and other music. Loaded with a high-quality 8“ RCF woofer and a 1“ RCF neodymium compression driver with a rotatable aluminum 90° x 70° CD horn, it is very articulate, providing great speech intelligibility despite its compact dimensions and light weight of just 10.9 kg.

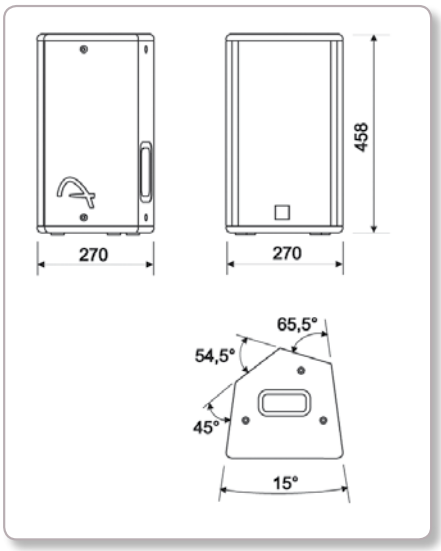
This enclosure is rated for 300 watts RMS nominal power-handling capacity, 125 dB maximum SPL, and 8 ohms impedance. Two Speakon connectors are available, one of which may be used as a parallel output.

Made of multiplex coated with a robust black textured finish, the multifunctional housing is equipped with a grip on the top panel, a pole mount, and 12 M8 rigging points. A stable metal grille backed with laminated acoustic foam rubber protects the speakers.









ARENA 8 PRO Technical data

▸ Audio data

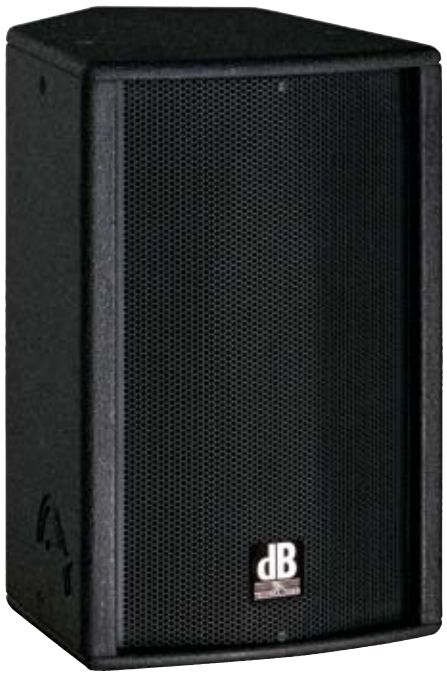
Power handling (nominal)*:	300 W RMS
Power handling (program):	600 W
Power handling (peak):	900 W
Impedance:	8 ohms
Sensitivity 1W@1m:	94 dB
Max SPL:	125 dB
Frequency response -10 dB:	75 Hz - 20 kHz
Frequency response +-3 dB:	100 Hz - 19 kHz
Low/mid woofer:	8“ RCF, 2“ voice coil
High frequency driver:	1“ RCF neodymium compression driver, 1.5” voice coil
High frequency protection:	PTC
Horn:	90° x 70°, rotatable aluminum horn
Crossover frequency:	1800 Hz, 18 dB/octave

▸ Hardware

Enclosure:	Multiplex, structured black paint
Handles:	One top-mounted grip
Pole mount:	36 mm
Angles up:	45° for monitor applications
Grille:	Metal backed with acoustic foam rubber
Connectors:	Two Speakon NL 4s, pin 1+ = +, 1- = -
Rigging points:	Twelve M8 threaded shafts
Dimensions (W x H x D):	270 x 458 x 270 mm, 10.63“ x 18“ x 10.63“
Weight:	10.9 kg, 23.98 lbs
Optional accessories:	WB A810 pivoting wall mount bracket WB A08 U wall mount TE M8 eyebolt set

* RMS when operated in the range of 20Hz to 20kHz; pink noise spectrum; peak power handling measured over two hours with a +6 dB crest factor

ARENA 10 PRO **10“/1“ two-way loudspeaker**

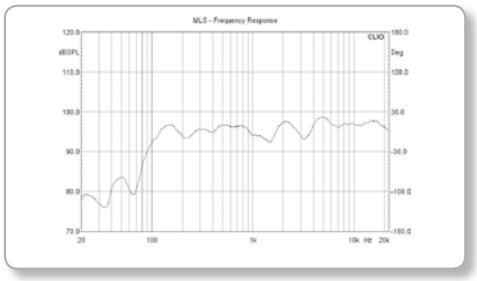


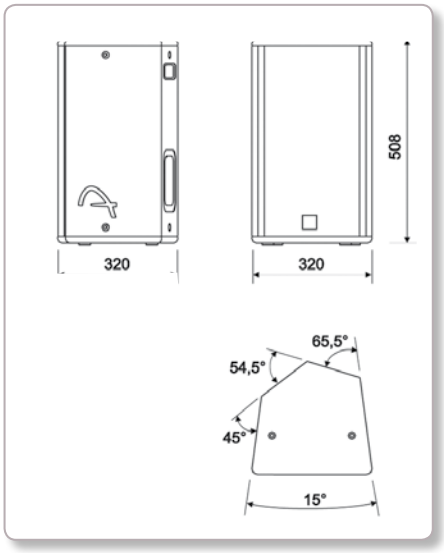
The ARENA 10 PRO is a highly versatile, inconspicuous two-way speaker cabinet well-suited for use in speech reinforcement applications where quality matters, and for fullrange applications requiring lower-level bass response. Employed as a compact floor monitor, it provides dynamic and precise voice reinforcement with considerable sound pressure.

Loaded with a high-quality 10“ RCF woofer and a 1“ RCF neodymium compression driver with a rotatable aluminum 90° x 70° CD horn, it is easily aligned to suit the given sound reinforcement situation. This enclosure is rated for 300 watts RMS nominal power-handling capacity, 127 dB maximum SPL, and 8 ohms impedance. Two Speakon connectors are available, one of which may be used as a parallel output.

Weighing just 14.2 kg, the multiplex enclosure is equipped with ten M8 rigging points for easy, fast installation. A stable metal grille backed with laminated acoustic foam rubber protects the speakers. The Arena SW15 PRO subwoofer is an excellent choice if you wish to supplement this enclosure’s low-end response.







ARENA 10 PRO Technical data

▸ Audio data

Power handling (nominal)*:	300 W RMS
Power handling (program):	600 W
Power handling (peak):	900 W
Impedance:	8 ohms
Sensitivity 1W@1m:	96 dB
Max SPL:	127 dB
Frequency response -10 dB:	70 Hz - 20 kHz
Frequency response +-3 dB:	90 Hz - 19 kHz
Low/mid woofer:	10“ RCF, 2“ voice coil
High frequency driver:	1“ RCF neodymium compression driver, 1.5” voice coil
High frequency protection:	PTC
Horn:	90° x 70°, rotatable aluminum horn
Crossover frequency:	1800 Hz, 18 dB/octave

▸ Hardware

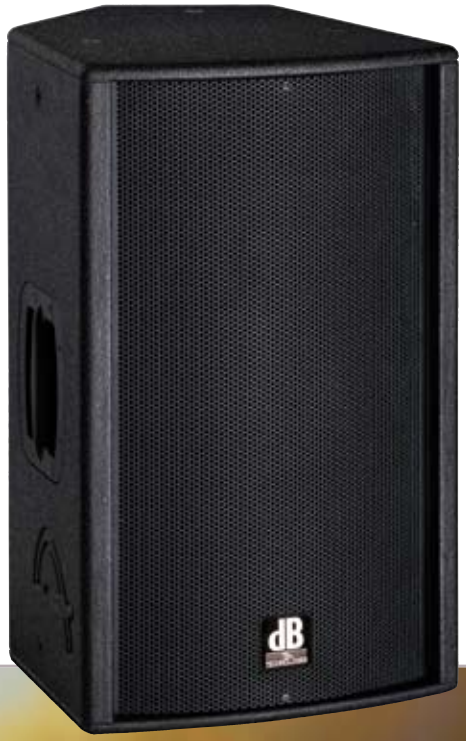
Enclosure:	Multiplex, structured black paint
Handles:	One rear-mounted grip
Pole mount:	36 mm
Angles up:	45° for monitor applications
Grille:	Metal backed with acoustic foam rubber
Connectors:	Two Speakon NL 4s, pin 1+ = +, 1- = -
Rigging points:	Ten M8 threaded shafts
Dimensions (W x H x D):	320 x 508 x 320 mm 12.63“ x 20“ x 12.6“
Weight:	14.2 kg, 31.24 lbs
Optional accessories:	WB A810 pivoting wall mount bracket WB A10 U wall mount TE M8 eyebolt set

* RMS when operated in the range of 20Hz to 20kHz; pink noise spectrum; peak power handling measured over two hours with a +6 dB crest factor

ARENA 12 PRO **12“/1.4“ two-way loudspeaker**

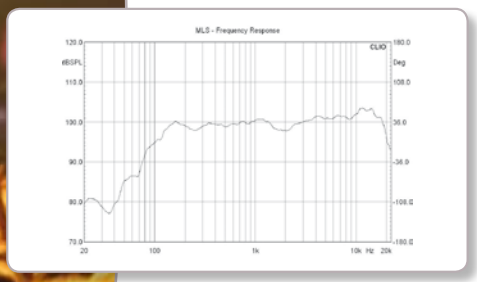
The ARENA 12 PRO is a high-performance, two-way loudspeaker loaded with a premium-quality 12“ woofer and 1.4“ HF driver - excellent components enabling versatile deployment for professional applications. The enclosure excels at rendering live signals, courtesy of its outstanding dynamic response and very high sound pressure levels. The painstakingly tuned 1.4“ driver accurately renders even the finest nuances of instruments and voices with great detail, definition, and amazingly true response, making this your first-choice stage monitor.

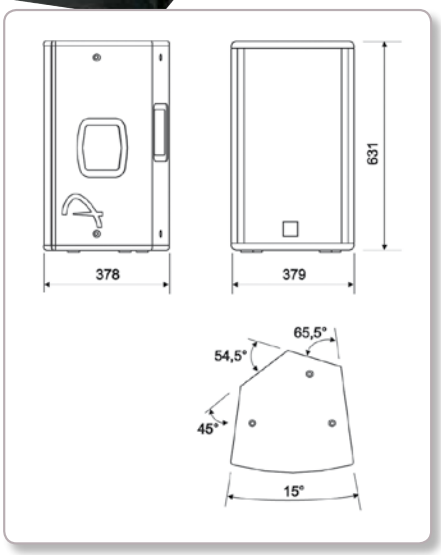
Loaded with a powerful 12“ RCF woofer and a 1.4“ RCF neodymium compression driver, its rotatable aluminum 90° x 40° CD horn may be aligned to suit the sound reinforcement scenario. The enclosure‘s power handling capacity is 500 watts RMS, its maximum SPL is 133 dB at 1W@1m, and its impedance is 8 ohms. Two Speakon connectors are available, one of which may be used as a parallel output. Weighing 22.1 kg, the multiplex enclosure is equipped with twelve M10 rigging points for easy, fast installation. A stable metal grille backed with laminated acoustic foam rubber protects the speakers.
Paired with an ARENA SW18 PRO subwoofer, this enclosure displays all its ample audio powers, including finely contoured low-mids with accurate low-frequency differentiation as well as punchy yet clear midrange and top end for medium-to-long-throw applications.











ARENA 12 PRO Technical data

▸ Audio data

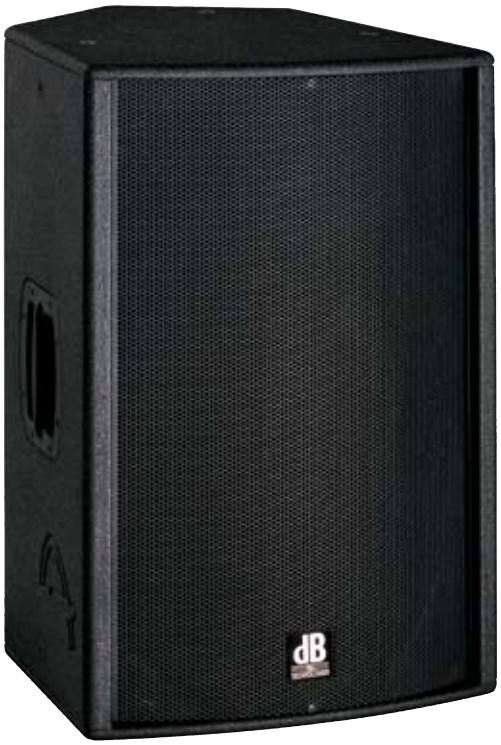
Power handling (nominal)*:	500 W RMS
Power handling (program):	1000 W
Power handling (peak):	1500 W
Impedance:	8 ohms
Sensitivity 1W@1m:	100 dB
Max SPL:	133 dB
Frequency response -10 dB:	60 Hz - 20 kHz
Frequency response +-3 dB:	90 Hz - 19 kHz
Low/mid woofer:	12“ RCF, 3“ voice coil
High frequency driver:	1.4“ RCF neodymium compression driver, 2.5” voice coil
High frequency protection:	PTC
Horn:	90° x 40°, rotatable aluminum horn
Crossover frequency:	1400 Hz, 18 dB/octave

▸ Hardware

Enclosure:	Multiplex, structured black paint
Handles:	Two side grips
Pole mount:	36 mm
Angles up:	45° for monitor applications
Grille:	Metal backed with acoustic foam rubber
Connectors:	Two Speakon NL 4s, pin 1+ = +, 1- = -
Rigging points:	12 x M10
Dimensions (W x H x D):	379 x 631 x 378 mm 14.92“ x 24.84“ x 14.88“
Weight:	22.1 kg, 48.62 lbs
Optional accessories:	WB A12 U wall mount TE M10 eyebolt set

* RMS when operated in the range of 20Hz to 20kHz; pink noise spectrum; peak power handling measured over two hours with a +6 dB crest factor

ARENA 15 PRO **15“/1.4“ two-way loudspeaker**

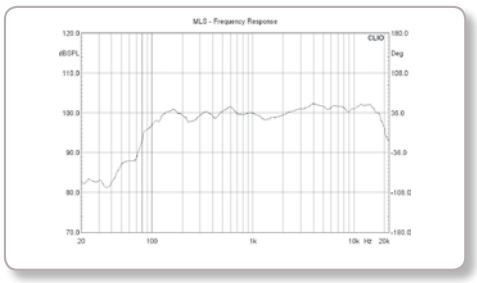


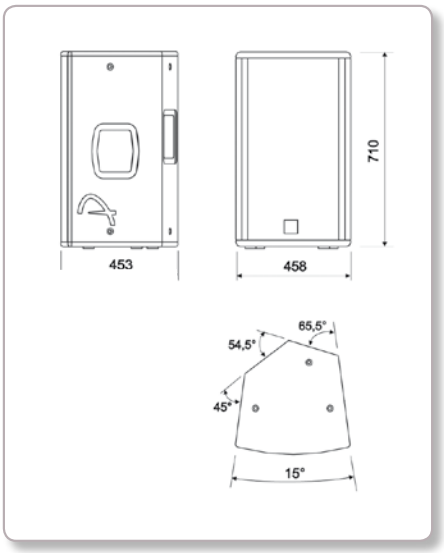
The ARENA 15 PRO is a high-performance, two-way fullrange cabinet with a 15“ woofer and a 1.4“ HF driver. Tuned to deliver truest response, it delivers powerful performance even when used as the main means of sound reinforcement without a connected subwoofer. Equally impressive are its great dynamic range, precise response, and high max sound pressure level of 133 dB. It is indeed an excellent fullrange FOH enclosure and a powerful floor monitor.

Loaded with a powerful 15“ RCF woofer and a 1.4“ RCF neodymium compression driver, its rotatable aluminum 90° x 40° CD horn may be aligned to suit the sound reinforcement scenario. The enclosure‘s power handling capacity is 500 watts RMS, its maximum SPL is 133 dB at 1W@1m, and its impedance is 8 ohms. Two Speakon connectors are available, one of which may be used as a parallel output.

Weighing 26.2 kg, the multiplex enclosure is equipped with twelve M10 rigging points for easy, fast installation. A stable metal grille backed with laminated acoustic foam rubber protects the speakers.







ARENA 15 PRO Technical data

▸ Audio data

Power handling (nominal)*:	500 W RMS
Power handling (program):	1000 W
Power handling (peak):	1500 W
Impedance:	8 ohms
Sensitivity 1W@1m:	100 dB
Max SPL:	133 dB
Frequency response -10 dB:	60 Hz - 20 kHz
Frequency response +-3 dB:	70 Hz - 19 kHz
Low/mid woofer:	15“ RCF, 3“ voice coil
High frequency driver:	1.4“ RCF neodymium compression driver, 2.5” voice coil
High frequency protection:	PTC
Horn:	90° x 40°, rotatable aluminum horn
Crossover frequency:	1400 Hz, 18 dB/octave

▸ Hardware

Enclosure:	Multiplex, structured black paint
Handles:	Two side grips
Pole mount:	36 mm
Angles up:	45° for monitor applications
Grille:	Metal backed with acoustic foam rubber
Connectors:	Two Speakon NL 4s, pin 1+ = +, 1- = -
Rigging points:	12 x M10
Dimensions (W x H x D):	458 x 710 x 453 mm 18.03“ x 27.95“ x 17.83“
Weight:	26.2 kg, 57.64 lbs
Optional accessories:	WB A15 U wall mount TE M10 eyebolt set

* RMS when operated in the range of 20Hz to 20kHz; pink noise spectrum; peak power handling measured over two hours with a +6 dB crest factor

ARENA SW15 PRO **15“ subwoofer system**

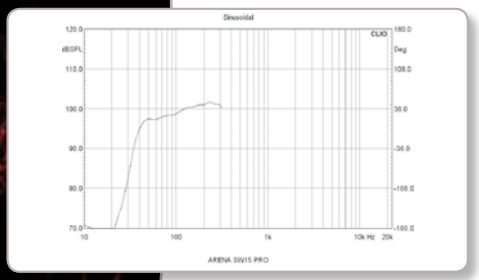
The ARENA SW15 PRO is a compact, high-performance subwoofer housed in a bass reflex enclosure. Its impulse response is amazingly true, rendering low-end frequencies with hair-trigger precision in a tight, finely contoured sonic image. Deployed to stand alone or in a double stack, it is an excellent choice for FOH applications. What‘s more, its powerful punch makes it your subwoofer of choice for drum fills.

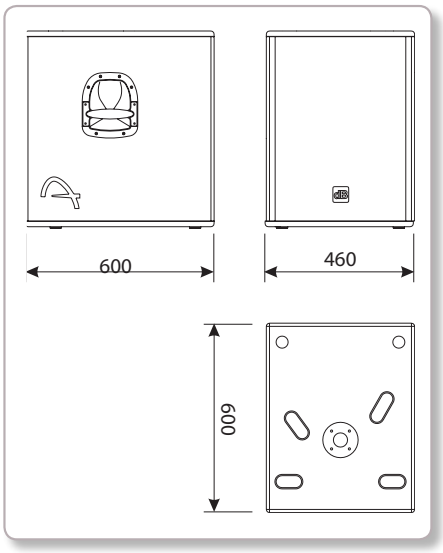
Loaded with a 15“ RCF PRECISION woofer featuring a 3“ inside/outside voice coil, its power handling capacity is 500 watts RMS. Its maximum SPL is 132 dB at 1W@1m, and its impedance is 8 ohms. Two Speakon connectors are available, one of which may be used as a parallel output. Made of multiplex coated with a robust black textured finish, the housing offers an M20 threaded shaft for a mounting pole, routed cups on the top panel designed to take another enclosure‘s feet for stacking, and threaded shafts on the rear panel that accept casters. A stable metal grille backed with laminated acoustic foam rubber protects the speakers.

The ARENA SW15 PRO is the perfect counterpart to ARENA 10 PRO and 12 PRO fullrange speakers for configuring powerful active three-way satellite systems.









ARENA SW15 PRO Technical data

▸ Audio data

Power handling (nominal)*:	500 W RMS
Power handling (program):	1000 W
Power handling (peak):	1500 W
Impedance:	8 ohms
Sensitivity 1W@1m:	99 dB
Max SPL:	132 dB
Frequency response -10 dB:	35 Hz - x-over
Frequency response +-3 dB:	40 Hz - x-over
Bass woofer:	15“ RCF, 3“ voice coil
Recommended crossover frequency:	active, LP: 100 - 130 Hz, 24 dB/octave HP: 30 Hz, 12 dB/ octave (subsonic)

▸ Hardware

Enclosure:	Multiplex, structured black paint
Handles:	Two side-mounted grips
Pole mount:	M20
Casters:	Threaded shafts on the rear panel, ready for casters
Grille:	Metal backed with acoustic foam rubber
Connectors:	Two Speakon NL 4s, pin 1+ = +, 1- = -
Dimensions (W x H x D):	460 x 600 x 600mm, 18.11“ x 23.62“ x 23.62“
Weight:	34.8 kg, 76.56 lbs
Optional accessories:	100 mm caster set Protective cover

* RMS when operated in the range of 20Hz to 20kHz; pink noise spectrum; peak power handling measured over two hours with a +6 dB crest factor

ARENA SW18 PRO **18“ subwoofer system**

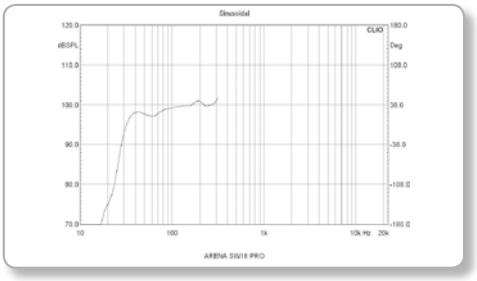
The ARENA SW18 PRO is a powerful high-capacity 18“ subwoofer housed in a bass reflex enclosure with a low limiting frequency of 35 Hz. Developed specifically to provide a big low-end boost for high-performance fullrange speakers, this bass bin‘s hallmarks include remarkably dynamic performance and a powerful punch even at very low frequencies.

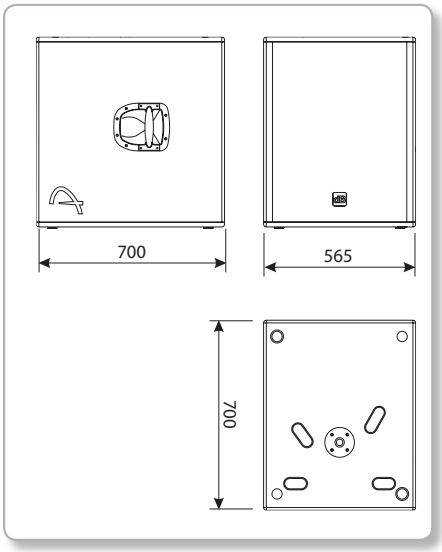
Loaded with a premium 18“ RCF PRECISION neodymium woofer featuring a 4“ voice coil and neodymium magnets for minimal power compression, its power handling capacity is 1000 watts RMS. Its maximum SPL is 134 dB at 1W@1m at 8 ohms impedance. Two Speakon connectors are available, one of which may be used as a parallel output.



Made of multiplex coated with a robust black textured finish, the housing offers an M20 threaded shaft for a mounting pole, routed cups on the top panel designed to take another enclosure‘s feet for stacking, and threaded shafts on the rear panel that accept casters. A stable metal grille backed with laminated acoustic foam rubber protects the speakers.

Paired with ARENA 12 PRO or 15 cabinets, the ARENA SW18 PRO serves to create powerful three-way PA systems that deliver persuasive performance for professional applications.





ARENA SW18 PRO Technical data

▸ Audio data

Power handling (nominal)*:	1000 W RMS
Power handling (program):	2000 W
Power handling (peak):	3000 W
Impedance:	8 ohms
Sensitivity 1W@1m:	98 dB
Max SPL:	134 dB
Frequency response -10 dB:	28 Hz - x-over
Frequency response +-3 dB:	35 Hz - x-over
Bass woofer:	18“ RCF neodymium woofer, 4“ voice coil
Recommended crossover frequency:	aktiv, LP: 100 - 130 Hz, 24 dB/oktave HP: 25 Hz, 12 dB/ oktave (Subsonic)

▸ Hardware

Enclosure:	Multiplex, structured black paint
Handles:	Two side grips
Pole mount:	M20
Casters:	Threaded shafts on the rear panel, ready for casters
Grille:	Metal backed with acoustic foam rubber
Connectors:	Two Speakon NL 4s, pin 1+ = +, 1- = -
Dimensions (W x H x D):	565 x 700 x 700mm 22.24“ x 27.56“ x 27.56“
Weight:	43.2 kg, 95 lbs
Optional accessories:	100 mm caster set

* RMS when operated in the range of 20Hz to 20kHz; pink noise spectrum; peak power handling measured over two hours with a +6 dB crest factor

Systems



- ***PRO 15-218:***
  Comprises 2x ARENA 15 PRO,
  4x ARENA SW18 PRO,
  ASX18 active crossover or DSX24
  Total power output 4,800 W/RMS



- **PRO 12-218:**
  Comprises 2x ARENA 12 PRO,
  4x ARENA SW18 PRO,
  ASX18 active crossover or DSX24
  Total power output 4,800 W/RMS

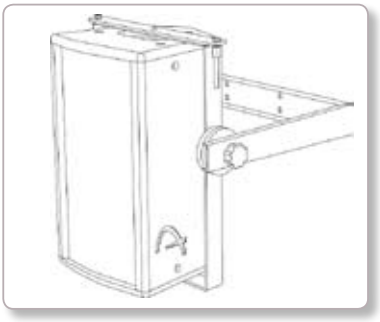


- **PRO 12-215:**
  Comprises 2x ARENA 12 PRO,
  4x ARENA SW15 PRO,
  ASX18 active crossover or DSX24
  Total power output 3,000 W/RMS



- **PRO 10-15:**
  Comprises 2x ARENA 10 PRO,
  2x ARENA SW15 PRO,
  ASX18 active crossover or DSX24
  Total power output 1,600 W/RMS

Accessories & applications



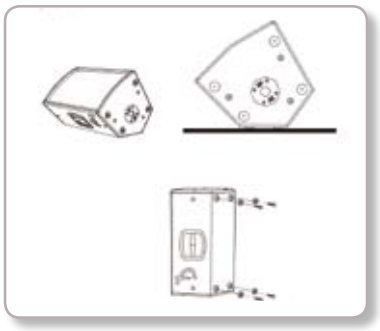
- WB A08 Arena 8 PRO Wall Mount
- WB A10 Arena 10 PRO Wall Mount
- WB A12 Arena 12 PRO Wall Mount
- WB A15 Arena 15 PRO Wall Mount
- WB A810 Arena 8/10 PRO Wall Mount, pivoting
- TE M10: Set with three rigging eyebolts with M10 thread
- TE M8: Set with three rigging eyebolts with M8 thread



ASX18

- Active two-way crossover
- Variable crossover frequency
- 2 x XLR/ Jack input
- 2 x HF XLR output
- 2 x LF XLR output

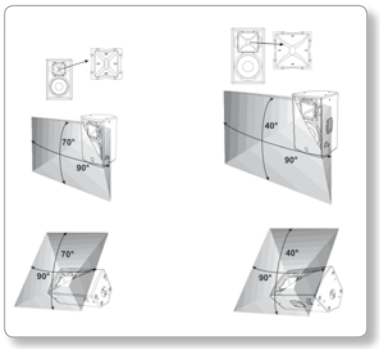
Applications



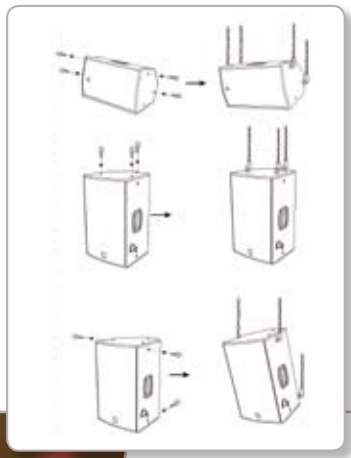
- **As a stage monitor**
  Four more rubber feet may be attached to the slanted panel for monitoring purposes.



- **As a fullrange system**
  on a speaker stand



- **Rotable CD-horns**
  ARENA PRO speakers feature excellent high-frequency, constant directivity horns designed especially for this line. Shaped symmetrically, these horns may be rotated 90° to align them suit the given requirements.



- **Flown**



HPA Series

Amplifier



dBTechnologies' HPA series power amps deliver high performance and quality at an astonishingly affordable price. Designed for professional use in touring racks as well as for fixed installation, the series comprises four Class-(HD) models that deliver 2x 510 W/RMS to 2x 1050 W/RMS at 4 ohms. Featuring Class-(HD) technology with and weighing just 14 kg, the flagship HPA 3100L power amp delivers up to 3400 W/RMS output. It comes with a PFC switched-mode power supply.

Engineered for utmost ease of use, these amps offer connection options - XLR inputs for patching in signals as well as Speakon ports for connecting speaker systems. What's more, their extensive protective circuits ensure reliable, safe operation.



HPA 1000 / HPA 1400 / HPA 2800



HPA 3100L

HPA features

- 4 models ranging from 2x 510 W/RMS to 2x 1200 W/RMS at 4 ohms
- Class-(HD) technology to minimize thermal load and maximize efficiency
- Fast response and dynamic sonic image with lowest distortion factors
- Easy to configure in mono/stereo/bridge modes
- Extensive protective circuits ensure high reliability and operating safety
- Front panel signal and clip and protect LED indicators
- Operable at 2 ohms
- Speakon connectors
- 2 HU, 19", low weight for easy transportation
- Switchable limiter

	HPA 1000	HPA 1400	HPA 2800	HPA 3100 L
Power output, stereo, RMS @ 2 ohms	-	-	2x 1400 W	2x 1700 W
Power output, stereo, RMS @ 4 ohms	2x 510 W	2x 740 W	2x 1050 W	2x 1200 W
Power output, stereo, RMS @ 8 ohms	2x 330 W	2x 440 W	2x 680 W	2x 800 W
Power output, bridged, RMS @ 4 ohms	-	-	1x 2800 W	1x 3400 W
Power output, bridged, RMS @ 8 ohms	1x 1020 W	1x 1480 W	1x 2100 W	1x 2400 W
Amp class	Class-HD	Class-HD	Class-HD	Class-HD
Power supply	Conventional	Conventional	Conventional	SMPS
Frequency response	20 - 2000 Hz	20 - 20000 Hz	20 - 20000 Hz	20 - 20000 Hz
THD @ 1 kHz	0.05%, 1 dB below clip	0.05%, 1 dB below clip	0.05%, 1 dB below clip	0.05%, 1 dB below clip
Damping factor @ 8 ohms	>300	>300	>300	>1000
Slew rate	50V/µs	50V/µs	50V/µs	55V/µs
Signal-to-noise ratio	105 dB	105 dB	106 dB	108 dB
Input sensitivity	26 dB / 32 dB / 1.4 V	26 dB / 32 dB / 1.4 V	26 dB / 32 dB / 1.4 V	26 dB / 32 dB / 1.4 V
Input impedance	20 kOhms bal./ 10 kOhms unbal.	20 kOhms bal. 10 kOhms unbal.	20 kOhms bal. 10 kOhms unbal.	20 kOhms bal. 10 kOhms unbal.
Protective circuits	Temp., DC, RFI, short-circuit	Temp., DC, RFI, short-circuit	Temp., DC, RFI, short-circuit	Temp., DC, RFI, short-circuit
Inputs	2x XLR male/female	2x XLR male/female	2x XLR male/female	2x XLR male/female
Outputs	2x Speakon	2x Speakon	2x Speakon	2x Speakon
Cooling	Temperature-controlled fan	Temperature-controlled fan	Temperature-controlled fan	Temperature-controlled fan
Dimensions (W x H x D)	482 x 89 mm x 402	482 x 89 mm x 402	482 x 89 mm x 402	482 x 89 mm x 420
Rack height	2 HU	2 HU	2 HU	2 HU
Weight	15 kg	17 kg	21 kg	14 kg

DSX24 Digital speaker controller

featuring a USB interface

The DSX24 is a versatile digital controller well suited for use in touring racks as well as for fixed installation. Featuring two inputs and four outputs, this unit delivers excellent performance in combinations with two-way active stereo systems comprising subwoofers and mid-/high-range units that see such widespread on stages all over the world.

An extensive set of signal processing tools such as delay times ranging up to 3000 msec and four parametric EQs & shelving filters for each input/output enables users to precision-tune speaker systems to suit the given venue and operating conditions. Each output features a variable digital limiter to protect speaker components. The integrated USB interface allows users to remotely manage and control the system conveniently and quickly using a PC. With the benefit of controller software, users can easily create presets for dBTechnologies speakers as well as custom configurations and load these programs to the DSX24.

Users with a preference for analog handling will love the hands-on controls. They afford direct access to key parameters by simply pushing a button or twisting a knob on the front panel. A blue backlit display with 2x32 characters and LED level meters above each input and output afford users a clear view of the unit's performance.





DSX24 features

- 2 inputs/ 4 outputs
- Big 2x32 character, blue LCD display and 6-segment LED meter for each channel
- 48-kHz/ 32-bit signal processing with > 108 db (A) dynamic range
- 3000 msec delay
- 4 parametric EQs for inputs and outputs
- X-over section and freely configurable signal routing
- Precision-adjustable digital limiter for each output
- 30 storable presets
- USB interface and software for programming and exchanging data

DSX 24 Technical data

Acoustical data

Inputs/ outputs:	2/4
Display:	Blue LCD, 2x32 characters
Control features	Parameter jog-wheel, Mute and Edit buttons for each channel
Read-outs:	4-segment LED; signals and limit meters for each channel
Signal input:	XLR female, balanced
Signal output:	XLR male, balanced
Sample rate:	48 kHz/ 32 bits
Dynamic range:	> 110 dB(A)
Frequency range:	20 Hz to 22 kHz, +/- 0.5 dB

Signal processing

Input level:	Adjustable from -80 to +12 dB via front panel knobs
Peak output level:	+ 22 dBu
Delay:	up to 3000 ms
Input EQ:	4 param./channel and shelving
Output EQ:	4 param./channel and shelving
EQ gain:	+/- 20 dB, in 0.5 dB steps
EQ bandwidth:	Octave or Q (quality)
Signal routing:	Freely selectable A, B, A+B Matrix
X-Over:	HP & LP freely configurable with 12, 18, 24 and 48 dB dB/octave Bessel, Butterworth, Linkwitz Riley
Limiter:	Adjustable THD and freely selectable Attack, Hold, and Release times
PC interface:	USB for remote control and data inter-change
Presets:	30 freely programmable presets
Mains:	90V - 240 V AC via an IEC connector
Dimensions (W x H x D):	19“ x 17.3“ x 10.6“
Weight:	7.7 lbs

THE SOUND OF EXPERIENCE

2008

Professional Sound Reinforcement

USA:

dBTechnologies USA, Inc.
PMB #129
Hampton 03843
New Hampshire, USA
Tel.: ++603-9264602
Fax: ++603-9264606

England:

dBTechnologies UK Ltd.
Unit 1 The Ridgeway Trading Estate.
Ridgeway, Iver. SL0 9HX
Tel: ++44 1753 655566
Fax: ++44 1753 655516
sales@dbtechnologiesuk.co.uk
www.dbtechnologies.com

Your dealer

A.E.B. Industriale Srl.

VIA BRODOLINI, 8 - 40056 CRESPELLANO (BO) ITALY
Tel.:+ 39 051969870 - Fax: + 39 051969725
www.dbtechnologies.com - e-mail: info@dbtechnologies.com

www.dbtechnologies.com

dB TECHNOLOGIES
THE SOUND OF EXPERIENCE