dBTechnologies

INDEX

INTRODUCING VIO SERIES

Throughout its history, dBTechnologies has set new standards in the professional audio industry, bringing the benefits of fully-powered systems and line array technology to a much wider range of users.

With VIO, dBTechnologies took a step forward, providing a complete range of powered sound reinforcement solutions able to face smoothly any professional production requirement.

Encompassing line array systems, subwoofers, point-source speakers, arrayable systems, and stage monitors, VIO range provides solutions for the most demanding tour stages and installed PAs in venues of any kind and size.

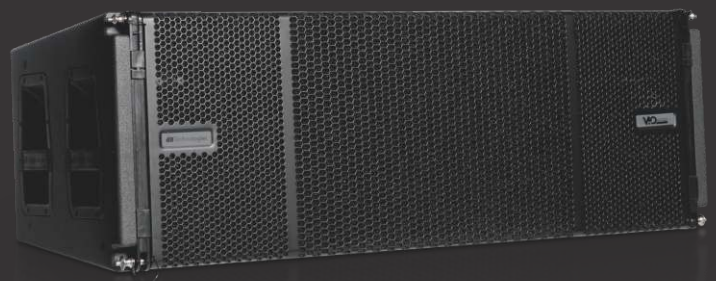
Freshly designed wooden cabinets, premium components, clever acoustic design solutions, last generation amplifying technology, cutting-edge DSP programming. All of this comes together to deliver imposing sound pressure levels, outstanding dispersion control and a detailed, clear-cut audio performance.

Aside from complete networkability, enabling every cabinet of the range to complete remote monitoring and real-time control via dBTechnologies' software Aurora Net, each VIO system has been designed keeping in mind ease of rigging and installation, as well as acoustic compatibility, allowing users to smoothly design and set up countless sound reinforcement solutions.

LINE ARRAY SYSTEMS

Since the early 2000s, dBTechnologies has set new standards in the sound reinforcement industry, bringing line array technology to a much wider range of users With VIO series, the Italian manufacturer steps up to the next level, making the most of its know-how and experience in design, acoustic efficiency and DSP programming, while keeping an eye on ease of use.
Now VIO line array family encompasses a complete range of systems, designed to fit a variety of applications, from touring to fixed installation, as well as venues of any size and scope.

VIO L212



3-WAY ACTIVE LINE ARRAY SYSTEM

3200W RMS DIGIPRO G4 AMP TECHNOLOGY

FULL RANGE SMPS WITH PFC

HORN-LOADED MIDRANGE FOR IMPROVED ACOUSTIC EFFICIENCY AND COVERAGE ACCURACY

EXCLUSIVELY DESIGNED WAVEGUIDE FOR MAXIMUM HF DIRECTIVITY CONTROL

ADVANCED DSP FEATURING LINEAR PHASE FIR FILTERS

ACOUSTIC COMPATIBILITY WITH VIO L210 USED AS DOWN-FILL

MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS (RDNET CARD INSTALLED)

NFC™ + FRONT LED IDENTIFICATION SYSTEM

SYSTEM TEST FOR QUICK TRANSDUCERS DIAGNOSTICS

IPOS INTELLIGENT POWER-ON SEQUENCE

RUBBER MAGNETIC RAINCOVER INCLUDED

ONLY 54.4 KG PER MODULE

BUILT-IN INCLINOMETER

LARGE FORMAT LINE ARRAY MODULE

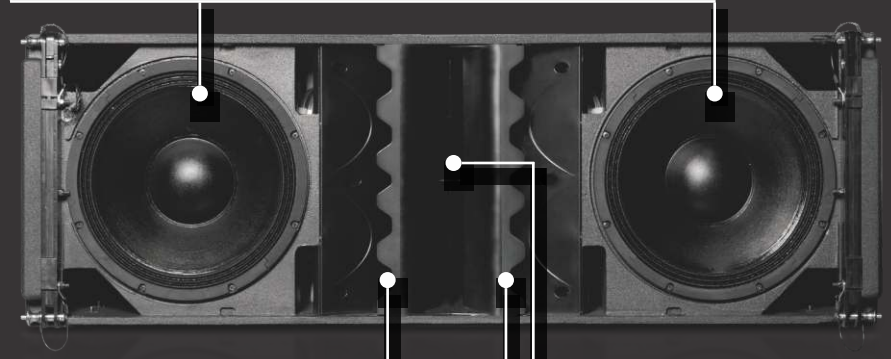
VIO L212 is the first dBTechnologies' full scale line array module designed for large touring sound reinforcement applications, concurrently providing mighty output capability, optimized coverage behaviour, alongside with rapid and easily configurable rigging solutions. dBTechnologies was able to pack great sound pressure levels into one of the most compact and lightest active 2x12" line array systems.

Speaker Type	3-Way Active Line Array Module
Usable Bandwidth [-10dB]	49.8 - 20,000 Hz
Frequency Response [-6dB]	55 - 18,600 Hz
Max SPL	One Unit: 142 dB
HF	2x 1.4", 3" v.c. - Neodymium
MF	4x 6.5", 2" v.c. - Neodymium
LF	2x 12", 3" v.c. - Neodymium
Horizontal Directivity	90°
Vertical Directivity	depends on array size and configuration
Amplifier	3200 W RMS [2x 1600 W RMS Class-D Digipro® G4]
Cooling	Convection, Internal fan
Power Supply	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)
Controller	DSP 32 bit
AD/DA Converter	24 bit/96 kHz
Limiter	Dual Active Multiband Peak, RMS, Thermal
Processing (filters)	FIR Linear phase
Signal Input	1x XLR female, balanced 1x USB Data Service
Signal Output	1x XLR male, balanced
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Expansion card	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]
Controls	1x Speaker Coupling (7 presets) 1x High pass filter Rotary Encoder (8 presets) 1x HF Compensation (8 presets) 1x System Test Button
Special Features	NFC™ and Frontal LED Identification System 380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics) Inclinometer
Housing	Multiplex plywood - Polyurea painting
Housing Design	Trapezoidal
Handles	4x handles (2 on each side)
Rain cover	Included [Rubber magnetic]
Rigging Points	3 points rigging hardware
Width x Height x Depth	1100 x 380 x 450 mm (43.31 x 14.96 x 17.72 in)
Weight	54.4 kg (119.93 lbs)

3-WAY
LINE ARRAY

Premium components sealed in a unique acoustic design

2x12" neodymium woofers (3" v.c.) placed to the outsides in a dipolar arrangement provide an accurate transient response and an extended and controlled low-end reproduction.



Acoustic efficiency

The mid-range section is mounted in the center of the cabinet in a horn-loaded configuration which dramatically contributes to the system's acoustic efficiency. Midrange frequencies are delivered by 4x 6.5" neodymium woofers (voice coil 2").

The waveguide

The 2x 1.4" neodymium compression drivers (voice coil 3") have been mounted to a waveguide which contributes to create a cylindrical wavefront, much to the advantage of the system's intelligibility and throw capabilities.

Class-D Amplifier with full-range power supply and PFC

Each VIO L212 acoustic engine is driven by 2 Digipro G4® Class-D 1600W amplifiers, providing each system with a total of 3200W RMS. The switched mode power supply is equipped with PFC (Power Factor Corrector) which greatly improves the efficiency of the system. Performances of the amplifier are very stable and consistent, regardless of the quality of the mains and fluctuations. This also grants a worldwide compatibility of the power supply (from 100V to 240V 50/60Hz) and limits power consumption. Furthermore, the power supply is 380V resistant, so the final amplifiers will be switched off in case of an undesired strike of 380V current, saving them from any damage.

Advanced pre-amplifier

The amp allows users to run **system-test** on electronics and transducers before and after use and a real time impedance control.

The preamplifier's floating audio input design grants a digital optical isolation between earth ground from the mains and the audio ground flowing into the preamplifier board. This galvanic isolation greatly improves resistance to interferences and any unwanted buzzing and noises.

The USB port allows firmware upgrades, while diagnostics analysis, and real time monitoring on system performances and failures are available on Aurora Net software

IPOS Technology

Exclusive technology of VIO L212 amplifier is IPOS (Intelligent Power-On Sequence), a circuit that controls the sequence in which the main power supplies of all units within an array ramp up. As a result, each module is switched on in a different time frame, keeping the overall system's inrush current low, even in very big PA system deployments.

Transport & Installation Accessories

DRK-212

Flybar for VIO L212. For flown and groundstacked configurations.

TF-VIO2

Transition frame for flying VIO L210 below VIO L212.

DT-VIOL212

Touring cart for 4 VIO L212 modules. [EKF-1 accessory for stack configurations not included].

DTT-VIOL212

Wooden cover top for DT-VIO L212.

DO-VIOL212

Dolly transport for one VIO L212.

DT-DRK212

Touring cart for two DRK-212 flybars and cables storage.

EFK-1

Extension feet kit for stack configuration on DT-VIOL212.

TC-VIOL212

Transport cover for 4 VIO L212 on DT-VIOL212. Waterproof

Cables

DAC-100	XLR-XLR audio cable (100 cm).
DPTC-100L	PowerCON TRUE1-PowerCON TRUE1 power link cable (100cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON.
RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm lenght. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers. EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

UNPAIRED SOUND QUALITY

Audinate Dante

The preamplifier is equipped with a modular slot for expansion cards. As a default, VIO L212 is equipped with dBTechnologies RD-Net card, for real time remote control via **Aurora Net** software.

Furthermore, the preamplifier is ready for future upgrades with Audinate Dante™ AoIP protocol. To help users in this configuration, VIO L212 comes with built-in technologies: **Near Field Communication** (NFC™) proximity sensors are used to determine the position of each box within an array.

This technology, together with a hi-brightness LED bulb on the front of the enclosure, contributes to help the user to recognize, identify and match each box physical position on the remote control software Aurora Net.

TOUR GRADE ENCLOSURE

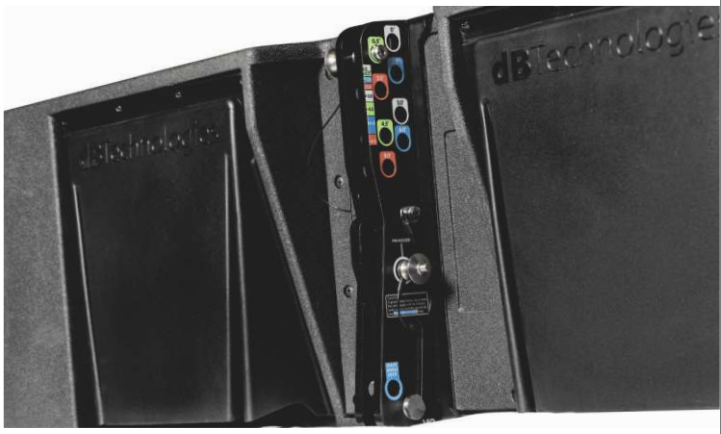
Built in plywood reinforced with a black polyurea finish, the cabinet features 2 handles per side and a magnetic raincover to protect the amp module. The overall weight of a single module is limited to only 54.4. Kg (119.93 lbs), which simplifies, speeds up and cuts set up and transport costs.

VIO L212

Smart rigging and full compatibility with VIO L210 and VIO L1610

Just like smaller systems in the VIO family, L212 comes with VIO's peculiar 3-point rigging system allowing a smooth and fast set up of the system. The 2 front links easily connect the modules from every angle. The back central rigging strand is equipped with a hook type link to set the relative splay angles determined via prediction software ranging from 0.5° to 8°. While lifting up the array, the rigging strand will automatically block the systems at the preset angles with no heavy lifting required.

A precise resolution starting from 0.5° steps helps to get smooth aiming at long distances.



Splay angles can be set directly in the dedicated transport cart DT-VIOL212 which houses 4 modules. The same cart also acts as a solid base in case of stacked configurations thanks to accessory feet kit EFK-1 .

A single-module wheel-board DO-VIOL212 is also available to ease transport of single cabinets.

The dedicated flying frame DRK-212 features 2 hooks facilitating precise inclination of the array both for positive or negative angles. DT-DRK212 is the dedicated cart allowing to transport and store 2 flying frames and several cables.

TF-VIO2 adaptor allows to rig VIO L210 as down-fill cabinets under VIO L212 arrays in order to create perfectly compatible hybrid systems.

VIO L1610

3-WAY ACTIVE LINE ARRAY SYSTEM

1600W RMS DIGIPRO G4 AMP TECHNOLOGY

FULL RANGE SMPS WITH PFC

STATE-OF-THE-ART 3-WAY SYMMETRIC ACOUSTIC DESIGN

COAXIAL MF + HF COMPRESSION DRIVER MOUNTED ON WAVEGUIDE

LOW LATENCY DSP FEATURING LINEAR PHASE FIR FILTERS

STANDALONE OR DOWNFILL FOR VIO L212 SYSTEMS

MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS (RDNET CARD INSTALLED)

NFC™ + FRONT LED IDENTIFICATION SYSTEM

SYSTEM TEST FOR QUICK TRANSDUCERS DIAGNOSTICS

INTEGRATED 3-POINT SMART RIGGING SYSTEM

RUBBER MAGNETIC RAINCOVER INCLUDED

LINE ARRAY MODULE

VIO L1610 embodies the natural evolution of the VIO family.
A game-changing 3-way active line array system, created to combine the stellar audio performance of VIO L212 with the compact size of VIO L210.
Delivering astonishing power and impressive SPLs, along with the most consistent audio performance, VIO L1610 makes the most of its 3-way design, ensuring outstanding dynamics and definition.

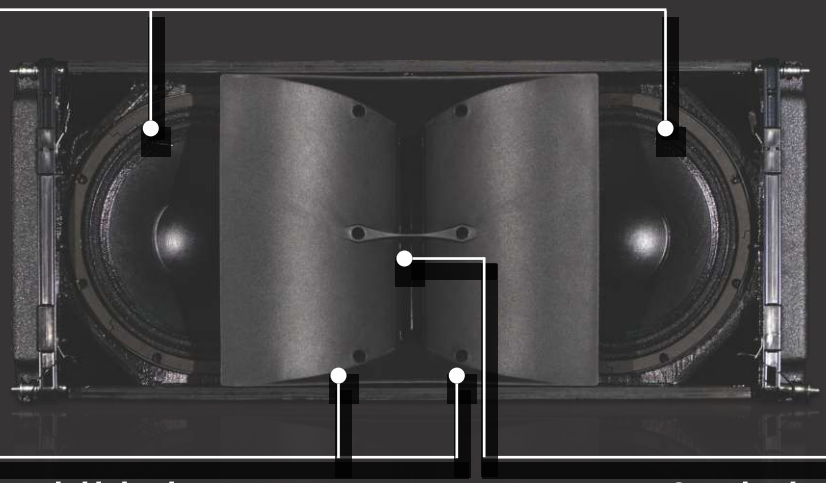
Speaker Type	3-Way Active Line Array Module
Usable Bandwidth [-10dB]	56 - 20,000 Hz
Frequency Response [-6dB]	60 - 17,000 Hz
Max SPL	One Unit: 141 dB
HF- MF	1x 1.4", 4"-2.5" v.c. - Coaxial Neodymium
LF	2x 10", 2.5" v.c. - Neodymium
Horizontal Directivity	100°
Vertical Directivity	depends on array size and configuration
Amplifier	1600 W RMS Class-D Digipro® G4
Cooling	Convection, Internal fan
Power Supply	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)
Controller	DSP 32 bit
AD/DA Converter	24 bit/96 kHz
Limiter	Dual Active Multiband Peak, RMS, Thermal
Processing (filters)	FIR Linear phase
Signal Input	1x XLR female, balanced 1x USB Data Service
Signal Output	1x XLR male, balanced
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Expansion card	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]
Controls	1x Speaker Coupling (8 presets) 1x High pass filter Rotary Encoder (8 presets) 1x HF Compensation (8 presets) 1x System Test Button
Special Features	NFC™ and Frontal LED Identification System 380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics) Inclinometer
Housing	Multiplex plywood - Polyurea painting
Housing Design	Trapezoidal
Handles	1x Side, 2 on back
Rain cover	Included [Rubber magnetic]
Rigging Points	3 points rigging hardware
Width x Height x Depth	720 x 320 x 520 mm (28.35 x 12.60 x 20.47 in)
Weight	31.3 kg (69 lbs)

3-WAY LINE ARRAY

VIO L1610

Symmetric coaxial design

2x10" woofers providing an extended LF reproduction interact with a custom coaxial transducer which encloses the high-frequency driver and the mid-range driver in a single coaxial component - 4" MF plus 2.5" HF.



Remarkable headroom

The coaxial transducer not only allows an extended low-end reproduction of the MF but guarantees a perfect off-axis coherence along with all the benefits coming from woofers' direct radiation, resulting in an enhanced headroom of the system.

Control and power

The MF+HF is mounted on an exclusively designed waveguide, resulting in a very precise directivity pattern control in the wideband, while the horn conveys a great part of the band to acoustically maximize the output performance.

Digipro G4 Amp Technology

VIO L1610 acoustic engine is driven by a Digipro G4® Class-D amplifier module featuring 1600 W RMS along with the utmost acquisitions in dBTechnologies' amp technology. In fact, the system takes advantage of a one-of-a-kind low latency processing resulting from its powerful DSP featuring linear phase FIR filters. The PSU is equipped with PFC (Power Factor Corrector) technology, a feature allowing a very stable and consistent performance of the system, regardless of the quality of the mains and power fluctuations. PFC also grants a worldwide compatibility of the power supply (from 90V to 265V 50/60Hz) and limits power consumption.

System test

The amp also allows users to run a test on electronics and transducers before, during and after use: the most useful system test ensuring real-time control over the entire PA's health and tour-grade reliability.

On-board controls

The acoustic configuration of the system in use can be also optimized via onboard controls (2 rotary encoders) allowing DSP presets for Speaker Coupling and High Frequencies compensation.

Transport & Installation Accessories

AF-VIO1

Adapter frame for flying VIO L208 below VIO S118/ VIO L210/L1610 and groundstacking VIO L208/L210/L1610 above any VIO sub.

DT-VIOL210

Touring cart for 4 VIO L210/L1610 modules and a DRK-210 flybar. Including 4 poles and a wooden lid.

DT-VIOL210L

Touring cart for 4 VIO L210/L1610 modules. Light version

DTT-VIOL210

Wooden cover top for DT-VIOL210L.

DRK-210

Flybar for VIO L210 and VIO L1610. For flown and groundstacked configurations.

FSA-VIOL210

Adapter to fly VIO L210/L1610 under VIO S118.

GSA-VIOL210

Adapter to stack VIO L210/L1610 above VIO S118.

TC-VIOL210

Transport cover for 4 VIO L210/L1610 on DT-VIOL210 or on DT-VIOL210L. Waterproof.

TF-VIO2

Transition frame for flying VIO L210/ L1610 below VIO L212.

TF-VIO1

Transition frame for flying VIO L208 below VIO L210/ L1610.

Cables

DAC-70	XLR-XLR audio cable (70 cm).
DCK-27T	Cable-Set containing 2x DAC-70 and 2x DPTC-70L.
DAC-500	XLR-XLR audio cable (500 cm).
DPTC-70L	PowerCON TRUE1-PowerCON TRUE1 power link cable (70cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON.
RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm lenght. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers. EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

ADVANCED NETWORKABILITY

Digipro G4 amp comes with a modular slot for expansion cards: as a default, VIO L1610 is equipped with dBTechnologies RDNet card for real-time remote control via Aurora Net software. Nevertheless, the system is ready for upgrades with Audinate Dante™ AoIP protocol for digital audio stream as well as real-time control purposes.

As a support for networking purposes, each VIO L1610 cabinet is equipped with a Near Field Communication (NFC™) system and a frontal LED used to recognize every single module within the remote control software Aurora Net.

TOUR GRADE ENCLOSURE

VIO L1610's cabinet is made of robust plywood coated with a black polyurea anti-scratch finish. The amp module is protected by a magnetic rubber rain cover designed to provide weatherproofing even when the cabinet is serving as a downfill mounted on a steep angle.

An impressive power/size ratio keeps the cabinet to a 31.3 kg (69 lbs) overall weight.
Side metal handles and back wooden handles have been designed to furtherly ease transport, set up, and dismantling operations.

Compatibility with VIO family

Just like any member of VIO family, VIO L1610 has been designed keeping in mind complete compatibility among VIO systems.

Although its remarkable audio performance makes VIO L1610 a powerful yet compact main PA system, both its acoustic and mechanical design makes it the perfect downfill for large VIO L212 systems.

TF-VIO2 adapter allows to easily rig VIO L1610 modules under a VIO L212 array.

VIO's smart rigging system

VIO L1610 comes with VIO series' peculiar 3-point rigging system allowing a smooth and fast set up. The 2 front links easily connect the modules. The back central rigging strand is equipped with a ring-type link allowing users to set the relative splay angles ranging from 1° to 10° thanks to 1 single pin.

Splay angles can be set directly in the dedicated transport cart DT-VIOL210L which houses 4 modules. While lifting the array, the rigging strand will automatically block the preset angles with no heavy lifting required.

The flying frame DRK-210 allows smooth flying operations and system lifting.

VIO L210

2-WAY ACTIVE LINE ARRAY SYSTEM

NETWORK READY WITH AN INTEGRATED RDNET PORT

UP TO 6 MODULES IN A SINGLE 16A 230V CIRCUIT

ALUMINIUM PHASE PLUGS FOR AN EXTREMELY CONSTANT DISPERSION

ADVANCED DSP FEATURING LINEAR PHASE FIR FILTERS FOR IMPROVED INTELLIGIBILITY

EXCLUSIVELY DESIGNED HF WAVEGUIDE FOR IMPRESSIVE THROW DISTANCE AND PHASE COHERENCE

WOODEN ENCLOSURE COATED WITH POLYUREA

SMOOTH CONFIGURATION AND SET UP OPERATIONS THANKS TO THE INTEGRATED 3-POINT RIGGING HARDWARE

LIGHTWEIGHT NEODYMIUM MAGNETS FOR ALL TRANSDUCERS

ON-BOARD DOUBLE ROTARY EQ CONTROL SYSTEM FOR PRECISE TUNING

BUILT-IN INCLINOMETER

WHITE VERSION AVAILABLE

INTRODUCTION TO VIO L210

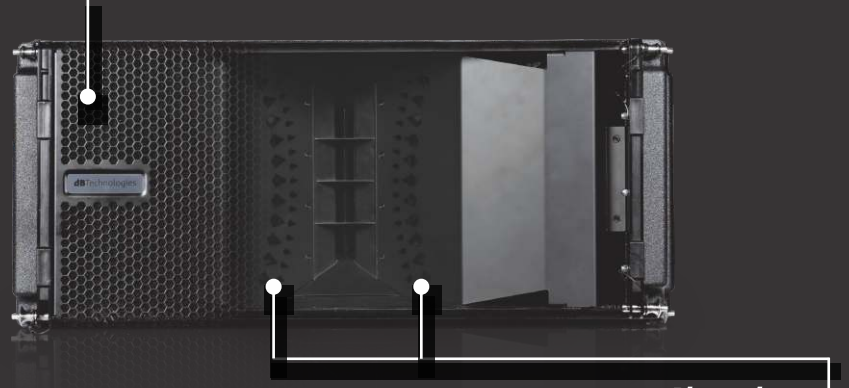
As a result of many years' experience developing solutions for powered line array systems, VIO L210 reaches the next level among dBTechnologies' speaker range aimed at larger sound reinforcement applications. The internal acoustic design and sound processing developed by dBTechnologies' R&D department merge to deliver outstanding performances in terms of sound pressure, coverage coherence, intelligibility and sound definition.

Speaker Type	2-Way Active Line Array Module
Usable Bandwidth [-10dB]	62 - 20,000 Hz (FW 1.x) / 57 - 21,000 Hz (FW 2.x)
Frequency Response [-6dB]	67 - 18,000 Hz (FW 1.x) / 62 - 20,000 Hz (FW 2.x)
Max SPL	One Unit: 135 dB
HF	1x 1.4", 3" v.c. - Neodymium, Titanium diaphragm
LF	2x 10", 2.5" v.c. - Neodymium
Phase Correction	Aluminum Phase Plug
Horizontal Directivity	100°
Vertical Directivity	depends on array size and configuration
Amplifier	900 W RMS Class-D Digipro® G3
Cooling	Convection
Power Supply	Auto-range SMPS
Controller	DSP 28/56 bit
AD/DA Converter	24 bit/48 kHz
Limiter	Dual Active Multiband Peak, RMS, Thermal
Processing (filters)	FIR Linear phase
Signal Input	1x XLR female, 1x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR male, 1x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Speaker Coupling (7 presets) 1x HF Compensation (8 presets) 1x Input Attenuation Rotary Switch
Special Features	Opto-isolated floating pre-amp Inclinometer
Housing	Multiplex plywood - Polyurea painting
Housing Design	Trapezoidal 10°
Handles	1x Side, 2 on back
Rain cover	Included
Rigging Points	Integrated rigging hardware
Width x Height x Depth	720 x 320 x 520 mm (28.35 x 12.6 x 20.47 in)
Weight	28.6 kg (63 lbs)

UNIQUE ACOUSTIC DESIGN

Functional yet unobtrusive design

Made of solid multiplex plywood coated with a black polyurea finish, the housing is fronted with a black grille which complete a sober, unobtrusive look which can easily adapt to any scenic design. The speaker's cabinet is easy to tote thanks to its 4 handles, 1 per side and 2 on the back, and its amplifier module is protected with an integrated black raincover.



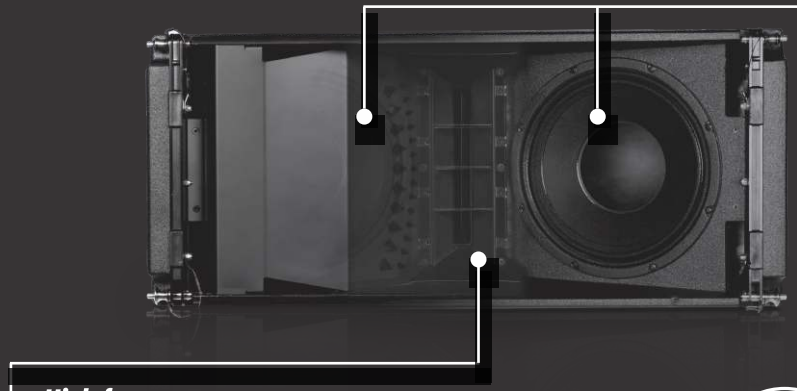
Phase plug

Acoustic enclosure is completed by two massive aluminum phase plugs located in front of both 10" woofers. Their external surface is the prosecution of the constant directivity high-frequency waveguide.

Each phase plug features 26 diamond-shaped holes essential to reduce the interference between the two LF emission points and to improve frequency and transient response.

Woofers

The two premium 10" neodymium transducers, positioned in a V form and sealed in a bass reflex enclosure, have been custom-designed to improve efficiency. In facts, their voice coils, made of copper plus aluminum coating, are designed to last even in the most demanding conditions, providing an accurate transient response and an extended low-end reproduction. Furthermore, these transducers have been specifically designed for the VIO in order to make the most of the system.



High-frequency

One single 3" voice coil compression driver (1.4" exit throat) accurately delivers high frequencies. The waveguide contributes to create a cylindrical wavefront, allowing a very precise high-frequency directivity control, much to the advantage of the system's throw-distance.

The crossover frequency between the 2 ways lows down to 950 Hz and each module guarantees a uniform 100° horizontal coverage.

Transport & Installation Accessories

AF-VIO1

Adapter frame for flying VIO L208 below VIO S118/ VIO L210/L1610 and groundstacking VIO L208/L210/L1610 above any VIO sub.

DT-VIOL210

Touring cart for 4 VIO L210/L1610 modules and a DRK-210 flybar. Including 4 poles and a wooden lid.

DT-VIOL210L

Touring cart for 4 VIO L210/L1610 modules. Light version

DTT-VIOL210

Wooden cover top for DT-VIOL210L.

DRK-210

Flybar for VIO L210 and VIO L1610. For flown and groundstacked configurations.

FSA-VIOL210

Adapter to fly VIO L210/L1610 under VIO S118.

GSA-VIOL210

Adapter to stack VIO L210/L1610 above VIO S118.

TC-VIOL210

Transport cover for 4 VIO L210/L1610 on DT-VIOL210 or on DT-VIOL210L. Waterproof.

TF-VIO2

Transition frame for flying VIO L210/ L1610 below VIO L212.

TF-VIO1

Transition frame for flying VIO L208 below VIO L210/ L1610.

Cables

DAC-70	XLR-XLR audio cable (70 cm).
DCK-27T	Cable-Set containing 2x DAC-70 and 2x DPTC-70L.
DAC-500	XLR-XLR audio cable (500 cm).
DPTC-70L	PowerCON TRUE1-PowerCON TRUE1 power link cable (70cm).
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CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

ADVANCED DSP

Advanced DSP paired with notable efficiency

The module features a 900W RMS Class D Digipro G3 highly efficient amplifier allowing the system to achieve up to 135 dB SPL. High efficiency is a key feature of the VIO L210: it is actually possible to connect up to 6 modules on a single 16A 230V circuit.

The amplifier also features an auto-range circuit and is fed via PowerCON TRUE1 waterproof connectors.

A perfectly coherent coverage is granted even at a long distance thanks to advanced sound processing with FIR filters.
The pre-amp module is also equipped with a digital optical isolation on the signal input stage, which makes the system more resistant to any interference.

Complete EQ controls

VIO L210 features a double rotary user interface to process the system manually. The first rotary is dedicated to low frequency adjustments in order to control coupling effects depending on the array dimensions. The second rotary helps to compensate for the high frequencies loss due to throw distance.

Both rotaries features several accurate presets, while the prediction software dBTechnologies Composer provides for more precise configurations. Any preset can be easily changed remotely via dBTechnologies Network.

FLYING HARDWARE

Smart rigging hardware & accessories

The VIO L210 comes with a built-in 3-point rigging system allowing a smooth and fast set up of the system. The 2 front links easily connect the modules from any angle.

The back central rigging strand is equipped with a hook type link to set the relative splay angles, determined via the prediction software dBTechnologies Composer.

While lifting up the array, the rigging strand will automatically block the system at the preset angles. Splay angles can be set directly while the system is still located on the transport cart DT-VIOL210, which houses up to 4 modules.

Flying and stacking cabinets

The dedicated flying frame DRK 210 comes with 2 hooks whose design allows to set a more precise inclination of the array. The DRK 210 can also serve as a groundstacking accessory to secure VIO L210 cabinets on a VIO S318 subwoofer. When not in use, the flying frame can be fixed and stored on the top lid of DT-VIOL210 transport cart. Even details like cables mounts, or the attachment of a laser inclinometer are included in the design.

Rotary 1 - Speaker coupling presets

Depending on the dimension of the array, the coupling effect affects frequency response. This dedicated “speaker coupling” control allows the user to attenuate the mid-low frequency according to the total number of line array cabinets.

SPEAKER COUPLING	
NUMBER OF CABINETS: 2 → 6	A
7 → 8	B
9 → 10	C
11 → 12	D
13 → 14	E
more than 15	F
Bass boost	G
service	

Rotary 2 - HF compensation presets

Being a considerable long-throw system, VIO L210 is capable to provide incredibly flat response all over the target area also thanks to the high frequencies compensation control. Choosing among the different presets, allows the user to compensate high frequencies loss due to air absorption in each cabinet.

HIGH FREQ. COMPENSATION	
FLAT	1
THROW DISTANCE m [ft]: front fill 0 → 5 [16]	2
6 [17] → 20 [66]	3
21 [67] → 30 [98]	4
31 [99] → 40 [131]	5
41 [132] → 50 [164]	6
51 [165] → 60 [197]	7
more than 61 [198]	8

VIO L208

2-WAY ACTIVE LINE ARRAY SYSTEM

DESIGNED FOR OPTIMIZED ACOUSTIC AND MECHANICAL COMPATIBILITY WITH VIO L210

NEW ACOUSTIC DESIGN FEATURING ALL-IN-ONE PHASE PLUG AND HF HORN FRONT PANEL

LOW-LATENCY PROCESSING THANKS TO POWERFUL DSP WITH LINEAR-PHASE FIR FILTERS

BUILT-IN INCLINOMETER

FULL COMPLIANCE WITH AURORA NET REMOTE CONTROL SOFTWARE

DSP PRESETS FOR MAXIMUM ACOUSTIC CUSTOMIZATION

BUILT-IN FLYING HARDWARE ALLOWING FAST & EASY SET UP AND FLYING OPERATIONS

WHITE VERSION AVAILABLE

VIO GOES COMPACT WITH L208

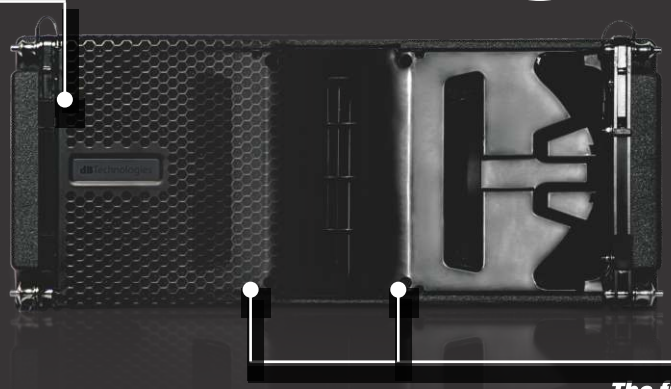
Offering lighter and faster rigging elements, featuring an unique acoustic design, combining long throw and detailed audio performance, the new VIO L208 is both a powerful yet compact stand-alone line array system, and a fully compatible down-fill for VIO L210 + VIO L208 hybrid systems, completed by VIO S Active subwoofers.

Speaker Type	2-Way Active Line Array Module
Usable Bandwidth [-10dB]	69 - 20,000 Hz (FW 1.x) / 69 - 21,000 Hz (FW 2.x)
Frequency Response [-6dB]	75 - 18,000 Hz (FW 1.x) / 75 - 20,000 Hz (FW 2.x)
Max SPL	One Unit: 133.5 dB
HF	1x 1.4", 3" v.c. - Neodymium
LF	2x 8", 2" v.c. - Neodymium
Phase Correction	All-in-one panel with phase corrector
Horizontal Directivity	100°
Vertical Directivity	depends on array size and configuration
Amplifier	900 W RMS Class-D Digipro® G3
Cooling	Convection
Power Supply	Auto-range SMPS
Controller	DSP 28/56 bit
AD/DA Converter	24 bit/48 kHz
Limiter	Dual Active Multiband Peak, RMS, Thermal
Processing (filters)	FIR Linear phase
Signal Input	1x XLR female, 1x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR male, 1x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Speaker Coupling (7 presets) 1x HF Compensation (8 presets) 1x Input Attenuation Rotary Switch
Special Features	Opto-isolated floating pre-amp Inclinometer
Housing	Multiplex plywood - Polyurea painting
Handles	1x Side, 2 on back
Rain cover	Included
Rigging Points	Integrated 3-point flying hardware
Width x Height x Depth	600 x 260 x 390 mm (25.98 x 10.23 x 15.35 in)
Weight	18.1 kg (39.9 lbs)

ULTRA-EFFECTIVE ACOUSTIC DESIGN

Compact & Lightweight

VIO L208 is a 2-way active line array system equipped with 2x 8" neodymium woofers and 1x 1.4" neodymium compression driver (3" voice coil). Everything enclosed in a sturdy wooden cabinet.

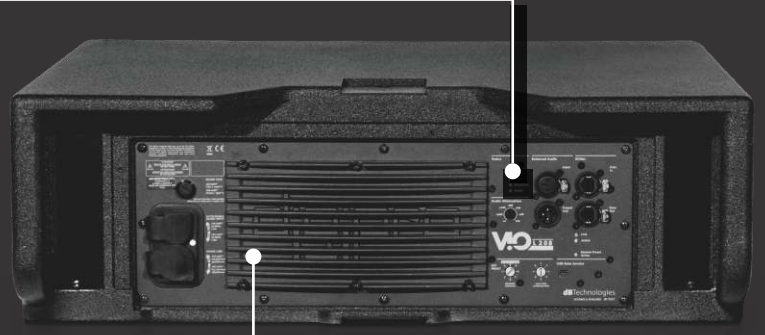


The front panel

The transducers are positioned behind an all-in-one panel which acts as a phase-plug and a HF horn. The waveguide behind this panel contributes to the creation of a cylindrical wavefront, much to the advantage of hi-freq throw distance.

FIR Filters

A perfectly coherent emission is granted thanks to advanced sound processing with FIR filters. The pre-amp module is also equipped with a digital optical isolation, guaranteeing interference-free input signal. VIO L210 features on board presets allowing users to process the system manually. Any preset can be easily changed remotely via Aurora Net control software.



Amplifier

Each module of VIO L208 is driven by a Class-D Digipro G3 900W amp module with auto-range PSU

Raincover included

The amp module is always protected from rain thanks to the integrated raincover.

Transport & Installation Accessories

AF-VIO1

Adapter frame for flying VIO L208 below VIO S118 / VIO L210 and groundstacking VIO L208/L210 above any VIO sub.

DT-VIOL208

Touring cart for 4 VIO L208 modules and a DRK-208 flybar.

DTT-VIOL208

Wooden cover top for DT-VIOL208.

DRK-208

Flybar for VIO L208.

DSA-VIOL208

Groundstack adapter for VIO L208 on VIO S118 and S118R with or without pole.

EFK-2

Groundstack extension feet kit for AF-VIO1 (maximum 6 tops).

STA-DRK

Spigot adapter for DRK-208.

TF-VIO1

Transition frame for flying VIO L208 below VIO L210.

Covers

TC-VIOL208

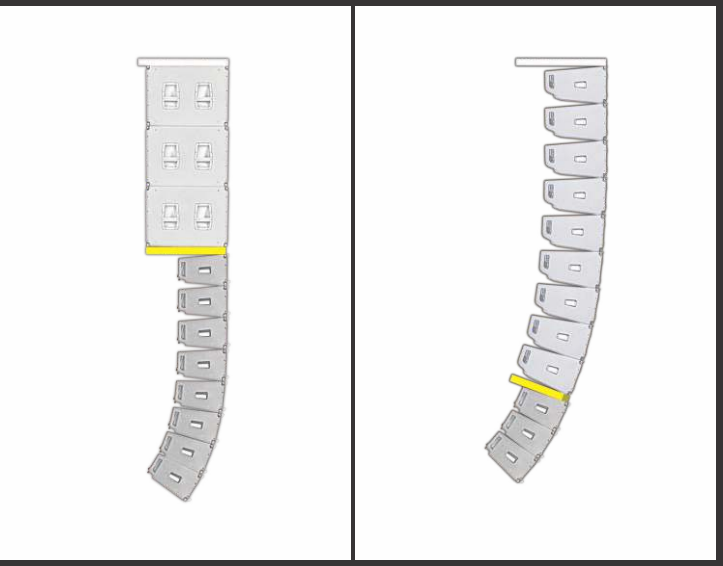
Transport cover for 4 VIO L208 on DT-VIOL208. Waterproof

Cables

DAC-70	XLR-XLR audio cable (70 cm).
DCK-27T	Cable-Set containing 2x DAC-70 and 2x DPTC-70L.
DAC-500	XLR-XLR audio cable (500 cm).
DPTC-70L	PowerCON TRUE1-PowerCON TRUE1 power link cable (70cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON.
RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm lenght. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers. EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

EASY RIGGING

The dedicated 3-point flying frame DRK-208 allows to set a precise inclination of the array and is ready to carry an optional inclinometer laser pointer. When not in use, the flybar can be easily stored in the transport cart.



HARDWARE & ACCESSORIES

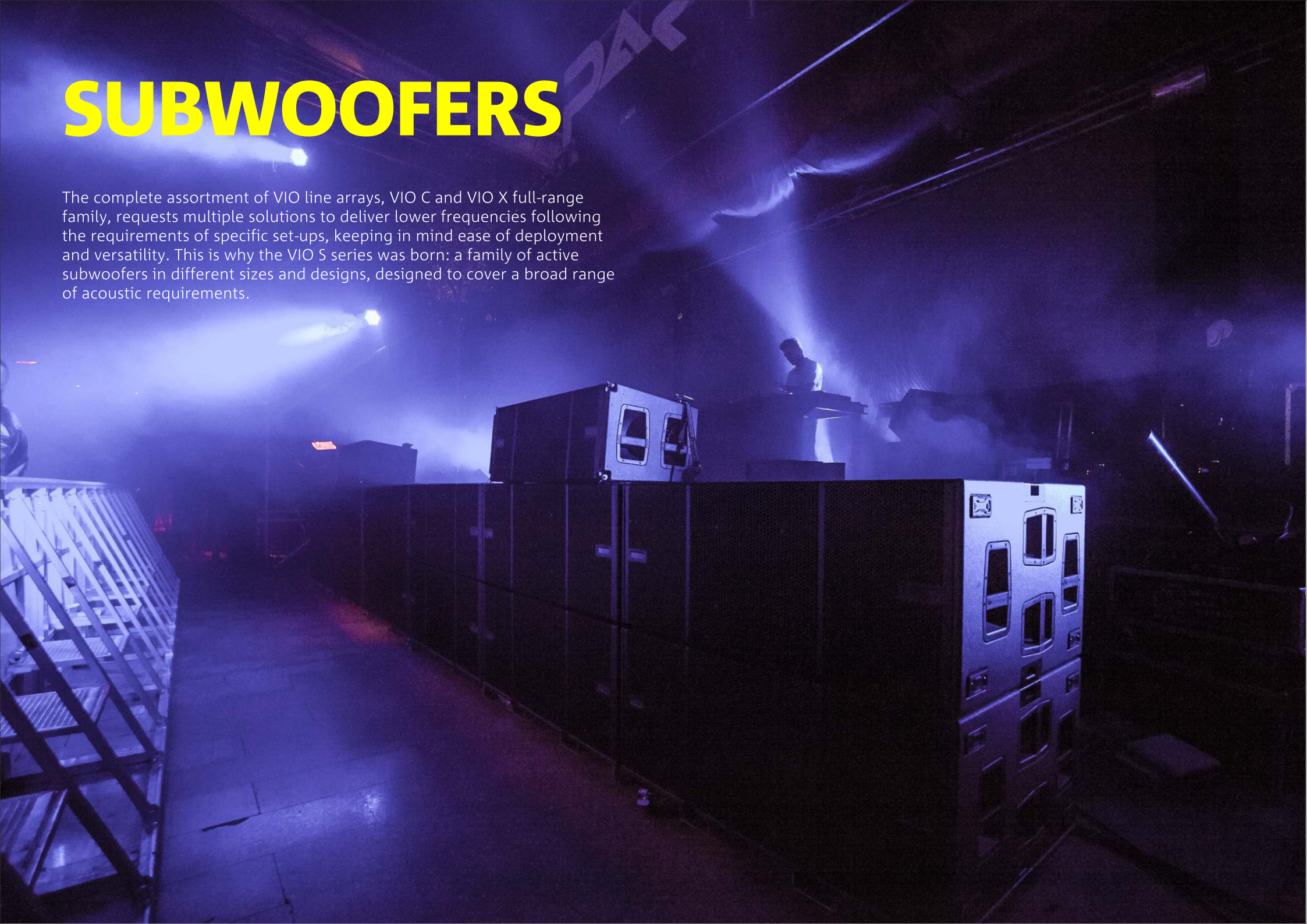
AF-VIO1 accessory enables rigging under a VIO S118 flyable subwoofer or, alternatively, as downfill in larger VIO L210 or L1610 systems. The same accessory also serves as safety interface in stacked configuration on VIO subs.

A lighter accessory transition frame TF-VIO1 allows the installation of VIO L208 under flown VIO L210 only.

Just like larger VIO L210 system, VIO 208's wooden enclosure comes with a built-in rigging system made for simplicity and speed: a back central rigging strand allows to set the relative splay angles, directly in the dedicated transport cart DT-VIOL208, able to house 4 modules plus 1 flying bar. While lifting up the array, the rigging strand will automatically block the systems at the preset angles with no need for heavy lifting.

SUBWOOFERS

The complete assortment of VIO line arrays, VIO C and VIO X full-range family, requests multiple solutions to deliver lower frequencies following the requirements of specific set-ups, keeping in mind ease of deployment and versatility. This is why the VIO S series was born: a family of active subwoofers in different sizes and designs, designed to cover a broad range of acoustic requirements.



VIO S218 VIO S218F

- 2x 18” NEODYMIUM WOOFERS
- 3200W RMS DIGIPRO G4 AMP TECHNOLOGY
- FULL RANGE SMPS WITH PFC
- SMPS 380V RESISTANT
- FREQUENCY RANGE EXTENDING DOWN TO 28 HZ (-6DB)
- OPTO-ISOLATED FLOATING PREAMP BOARD
- MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS
- ON BOARD DELAY UP TO 9.9MS
- CARDIOID STACK PRESET BUTTON
- NFC™ + FRONT LED IDENTIFICATION SYSTEM
- SYSTEM TEST FOR QUICK TRANSDUCERS DIAGNOSTICS
- IPOS INTELLIGENT POWER-ON SEQUENCE
- VIO S218F FLYABLE WITH ACCESSORIES
- RDNET CARD INSTALLED

BASS-REFLEX POWER

The perfect partner for VIO L212 and VIO L1610in larger sound reinforcement applications.
A simple, effective dual sub configuration designed to enhance the reproduction of the lowest frequencies, boosted by an advanced DSP control and complete network capability.

	VIO S218	VIO S218F
Speaker Type	Active Bassreflex Subwoofer	Active Bassreflex Flyable Subwoofer
Usable Bandwidth [-10dB]	27 Hz - Xover Dipendent	27 Hz - Xover Dipendent
Frequency Response [-6dB]	28 Hz - Xover Dipendent	28 Hz - Xover Dipendent
Max SPL	143 dB	143 dB
LF	2x 18” Neodymium	2x 18” Neodymium
Voice Coil LF	4”	4”
Directivity	Omnidirectional	Omnidirectional
Amplifier	3200 W RMS [2x 1600 W RMS Class-D Digipro® G4]	3200 W RMS [2x 1600 W RMS Class-D Digipro® G4]
Cooling	Passive convection, internal fan	Passive convection, internal fan
Power Supply	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)
Controller	DSP 32 bit	DSP 32 bit
AD/DA Converter	24 bit/96 kHz	24 bit/96 kHz
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal
Delay Option	0 - 9.9 ms internal | steps of 0.1 ms [on-board]	0 - 9.9 ms internal | steps of 0.1 ms [on-board]
Xover Frequency LF-Xover out	Selectable 60-110 Hz + Full Range (8 steps)	Selectable 60-110 Hz + Full Range (8 steps)
LF-Xover out slope	24 dB/Octave	24 dB/Octave
Signal Input	1x XLR balanced 1x USB Data Service	1x XLR balanced 1x USB Data Service
Signal Output	1x XLR balanced	1x XLR balanced
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Expansion Card	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]
Controls	1x Input Attenuation Rotary Encoder 2x Delay Rotary Encoder (0-9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid mode Switch 1x X-Over Frequency Rotary Encoder (8 steps)	1x Input Attenuation Rotary Encoder 2x Delay Rotary Encoder (0-9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid mode Switch 1x X-Over Frequency Rotary Encoder (8 steps)
Special Features	NFC™ and Frontal LED Identification System 380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics)	NFC™ and Frontal LED Identification System 380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics)
Housing	Multiplex plywood - Polyurea painting	Multiplex plywood - Polyurea painting
Additional Features	4x Eyelets for ratchet straps	Built-in brackets for flybar mounting or stacking subs
Handles	4x Side. Aluminium	2x Side. Aluminium
Rain cover	Included	Included
Rigging Points	2x Pick Points on top for DRK-210 rigging frame	2x Pick Points on top for DRK-212/210
Width x Height x Depth	1300 x 520 x 800 mm (51.18 x 20.47 x 31.5 in)	1300 x 520 x 800 mm (51.18 x 20.47 x 31.5 in)
Weight	85.6 kg (188.72 lbs)	100 kg (220 lbs.)

ULTRA-LOW FREQUENCY PUNCH

Featuring a dual 18" subwoofer pairing in a voluminous bass-reflex housing, VIO S218 encompasses a vigorous audio performance and a ultra low frequency punch, extending down to 28 Hz: the perfect bottom end addition to large VIO L212 sound reinforcement systems.

The system's acoustical potential is driven by 2 Digipro G4® Class-D amplifiers delivering a total amount of 3200 W RMS and making this sub the perfect low-end extension of VIO arrays in larger sound reinforcement applications.

The switched mode power supply is equipped with PFC (Power Factor Corrector) which greatly improves the efficiency of the system. This also grants a worldwide compatibility of the power supply (from 100V to 240V 50/60Hz) and limits power consumption. Furthermore, the power supply is 380V resistant, so the final amplifiers will be switched off in case of an undesired strike of 380V current, saving them from any damage.

The high quality multiplex housing is reinforced with a robust polyurea finishing, equipped with 4 aluminum handles per side. The amp module is always protected from the rain thanks to the integrated raincover.

Exclusive technology of VIO S318 amplifier is IPOS (Intelligent Power-On Sequence), a circuit that controls the sequence in which the main power supplies of all units within an array ramp up.

The preamplifier is equipped with a modular slot for expansion cards: as a default, VIO S218 is equipped with dBTechnologies RDNet card, for real time remote control via Aurora Net software.

The system is ready for future upgrades with Audinate Dante™ AoIP protocol.

VIO S218 comes with built-in technologies: Near Field Communication (NFC™) proximity sensors are used to determine the position of each box within an array. A LED bulb on the front of the enclosure contributes to help the user to recognize, identify and match each box on the remote control software Aurora Net.

Users can run system-test on transducers and a real time impedance control. The on-board delay module allows VIO S218 to reach a max 9.9ms delay with 0.1 ms steps. A cardioid stack preset button automatically process the sound of the backward sub in gradient inverted stack configurations, in order to reach maximum cancellation on the rear side.

The preamplifier's floating audio input design grants a digital optical isolation between earth ground from the mains and the audio ground flowing into the preamplifier board. This galvanic isolation greatly improves resistance to interferences and any unwanted buzzing and noises.

Thanks to the integrated USB port, the user will perform firmware upgrades.

Transport & Installation Accessories

AF-VIO1

Adapter frame for flying VIO L208 below VIO S118/VIO L210 and groundstacking VIO L208/L210 above any VIO sub.

DO-VIOS218

Dolly for up to 3x VIO VIO S218 stacked horizontally (wheels included).

DO-VIOS218F

Dolly for up to 3x VIO S218F Stacked horizontally (wheels included).

DRK-218F

Flybar for VIO S218F. Max 14 (double hang point) or 10 (single hang point) VIO S218F subwoofers can be hung to DRK-218F.

SWK-18 KIT

Kit consisting of 4 wheels for VIO S318 / VIO S218 back panel.

Covers

FC-VIOS2

Functional Cover for 2 subs VIO S318 / VIO S218.

TC-VIOS2

Transport cover for 1 VIO S318 / VIO S218.

Cables

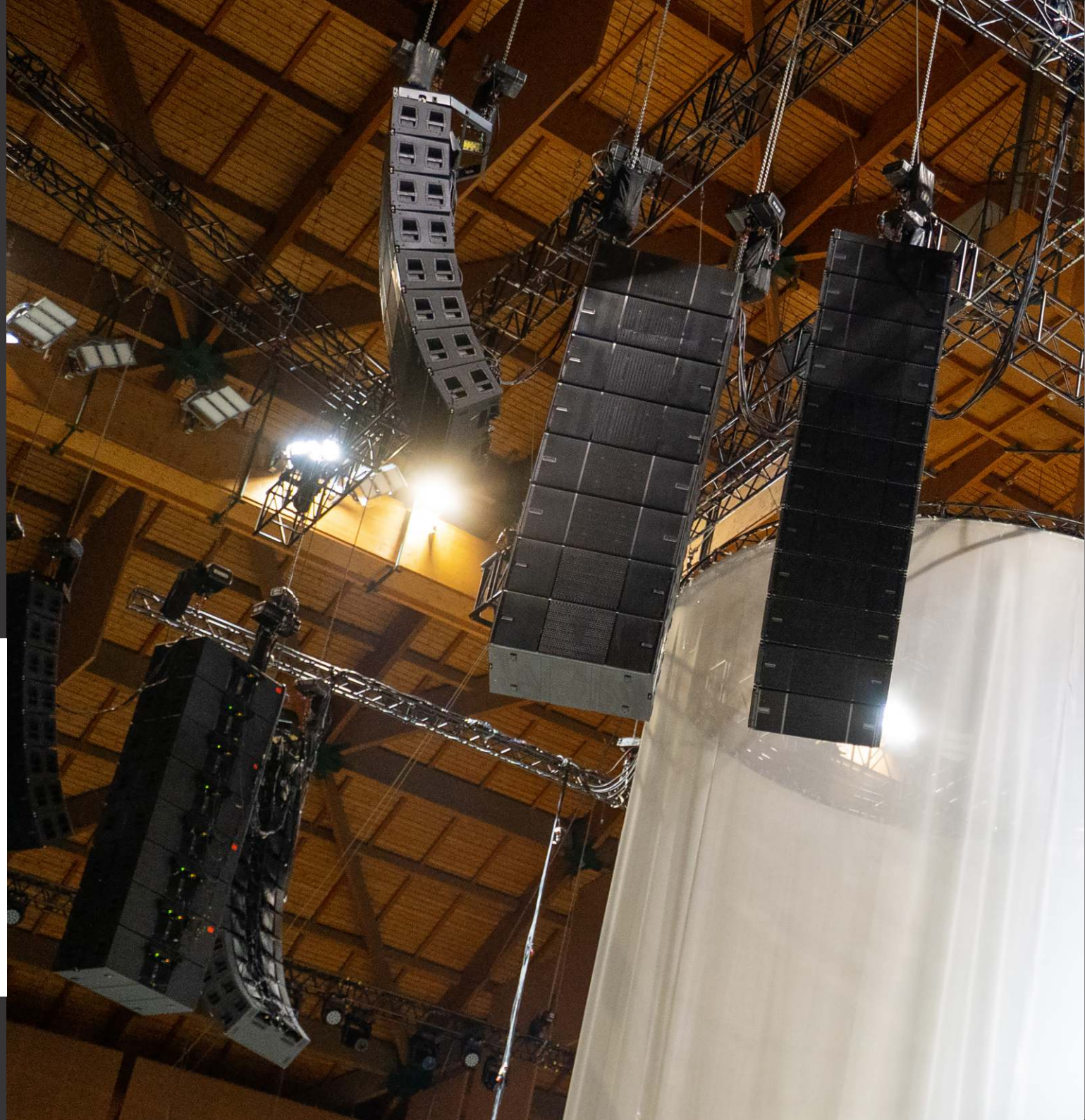
DAC-100	XLR-XLR audio cable (100 cm).
DAC-500	XLR-XLR audio cable (500 cm).
DPTC-160L	PowerCON TRUE1-PowerCON TRUE1 power link cable (160cm).
DPTC-500L	PowerCON TRUE1-PowerCON TRUE1 power link cable (500cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON
RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm lenght. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

SKY IS THE LIMIT

Packed with our most up-to-date exclusive technologies, VIO S218F widens the possibilities for low frequency reproduction in any larger VIO sound reinforcement deployment.

Now you can extend the range of action of the distinctive VIO S218 subwoofer by flying an array of VIO S218F in the air.

Up to 14 cabinets can be flown with a single DRK-218F flybar.



VIO S 318

ACTIVE TRI-AMPED 3x 18" BASSREFLEX SEMI-HORN LOADED SUBWOOFER

INTERNAL DESIGN TO MAXIMIZE IN-PHASE FRONTAL EMISSION

ON-BOARD DELAY FOR PERFECT TIME ALIGNMENT

ON-BOARD CARDIOID ARRAY CONFIGURATION PRESET

FREQUENCY RANGE EXTENDING DOWN TO 35HZ

NETWORK READY WITH AN INTEGRATED RDNET PORT

POLYUREA PAINTING ON A ROAD-RESISTANT WOODEN ENCLOSURE

TRI-AMPED ACTIVE SUBWOOFER

VIO S318 subwoofer, a one of a kind system both for its acoustic configuration and majestic output. Indeed, dBTechnologies succeded in designing an extraordinary powerful triple 18" woofer system while maximizing in-phase frontal emission and extending lower frequencies down to 35 Hz.

Speaker Type	Active Bassreflex, semi-horn loaded subwoofer
Usable Bandwidth [-10dB]	35 Hz [FW 1.x] / 33 Hz [FW 2.x] - Xover Dipendent
Frequency Response [-6dB]	39 Hz [FW 1.x] / 36 Hz [FW 2.x] - Xover Dipendent
Max SPL	143 dB
LF	3x18"
Voice Coil LF	4"
Directivity	Omnidirectional
Amplifier	2700 W RMS Class-D Digipro® G3
Cooling	Convection
Power Supply	Auto-range SMPS
Controller	DSP 32 bit
AD/DA Converter	24 bit/96 kHz
Limiter	Peak, RMS, Thermal
Delay Option	0-9.9 ms internal | steps of 0.1 ms
Xover Frequency LF-Xover out	Selectable 70-105 Hz + Full Range (8 steps)
LF-Xover out slope	24 dB/Octave
Signal Input	1 x XLR balanced, 1 x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR balanced, 1 x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Input Attenuation Rotary Encoder 2x Rotary Encoder (Delay 9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid mode Switch 1x X-Over Frequency Switch (70-105 Hz + Full-Range | steps of 5 Hz)
Special Features	Opto-isolated floating pre-amp
Housing	Multiplex plywood - Polyurea painting
Additional Features	4x Eyelets for ratchet straps
Handles	4x Side. Aluminium
Rain cover	Included
Rigging Points	2x Pick Points on top for DRK-210 rigging frame
Width x Height x Depth	1300 x 520 x 800 mm (51.18 x 20.47 x 31.5 in)
Weight	103.9 kg (229.06 lbs)

OUTSTANDING PERFORMANCE

VIO S318 is equipped with 3x18" woofers, 2 of which are half horn loaded, while the third one is a direct radiation woofer. This way, the sub combines the contribution of two different configurations.

The 3 woofers are aligned in order to achieve a perfect phase response. Its innovative acoustic design contributes in creating an unprecedented performance/dimension ratio for a triple woofer powered system.

The high quality multiplex housing is reinforced with a robust polyurea finish and equipped with 4 aluminium handles per side. The eyelets on the top of the cabinet allow to fix the DRK-210 flybar, while 4 additional eyelets allow to fasten the load during transport using ratchet straps.

The internal configuration of the 3 woofers maximizes the acoustic radiant surface, delivering a solid sound performance.

The 3 DIGIPRO G3 amplifiers deliver a total 2700 W RMS power, allowing the system to reach up to 143dB SPL. A solution combining resolute power, compact design and ease of use.

The system features an integrated delay module achieving up to 9.9 ms delay with 0.1 ms steps (a further delay can be set via RDNet remote control software). The crossover module sets both the low pass filter and the highpass filter for the integrated crossover output. The system also features an attenuation control, a polarity switch and an RDNet port for remote control.

In cardioid configurations with 3 subs, the 'cardioid' button allows to process automatically the sub facing backwards, in order to achieve the maximum cancellation. Grooves on the top of the sub facilitates the passage of the cables between the cabinets.

VIO series' simulation models for Ease Focus 3 are available at dbtechnologies.com, as well as the proprietary prediction software dBTechnologies Composer.

Transport & Installation Accessories

AF-VIO1

Adapter frame for flying VIO L208 below VIO S118/VIO L210 and groundstacking VIO L208/L210 above any VIO sub.

DO-VIOS318

Dolly for up to 3x VIO VIO S318 stacked horizontally (wheels included).

SWK-18 KIT

Kit consisting of 4 wheels for VIO S318 / VIO S218 back panel.

Covers

FC-VIOS2

Functional Cover for 2 subs VIO S318 / VIO S218.

TC-VIOS2

Transport cover for 1 VIO S318 / VIO S218.

Cables

DAC-100	XLR-XLR audio cable (100 cm).
DAC-500	XLR-XLR audio cable (500 cm).
DPTC-160L	PowerCON TRUE1-PowerCON TRUE1 power link cable (160cm).
DPTC-500L	PowerCON TRUE1-PowerCON TRUE1 power link cable (500cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON
RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm lenght. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

VIO S118R

VIO S118

ACTIVE 1x 18" BASS REFLEX SUBWOOFER

FLYABLE ACTIVE 1x 18" HORN LOADED SUBWOOFER

1600 W RMS SMPS DIGIPRO G4 AMPLIFIERS

SMPS WITH PFC

SYSTEM-TEST FOR QUICK DIAGNOSTICS

INTEGRATED FLYING HARDWARE ON VIO S118 (COMPATIBLE WITH VIO L210)

DESIGNED FOR MAXIMUM EFFICIENCY IN THE LOWER END

ON BOARD DELAY FOR PERFECT TIME ALIGNMENT

ON BOARD CARDIOID ARRAY CONFIGURATION PRESET

MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS (RDNET CARD INSTALLED)

WHITE VERSION AVAILABLE

SINGLE ACTIVE SUBWOOFERS

Two single 18" subwoofers featuring premium components and complete networkability, both designed to integrate dBTechnologies's top-range line array family with a compact solution. Horn loaded in a cabinet ready for flying applications, VIO S118 is the perfect low-end extension of VIO arrays whenever a particularly long-throw is needed, while Bass reflex VIO S118 R encompasses a powerful punch in impressively small dimensions.

	VIO S118R	***VIO S118***
Speaker Type	Active Bassreflex subwoofer	Active Horn-Loaded Flyable Subwoofer
Usable Bandwidth [-10dB]	32 Hz [FW 1.x] / 30 Hz [FW 2.x] - Xover Dipendent	36 Hz [FW 1.x] / 32 Hz [FW 2.x] - Xover Dipendent
Frequency Response [-6dB]	35 Hz [FW 1.x] / 33 Hz [FW 2.x] - Xover Dipendent	39 Hz [FW 1.x] / 35 Hz [FW 2.x] - Xover Dipendent
Max SPL	139 dB	139 dB
LF	1x 18"	1x 18", Neodymium
Voice Coil LF	4"	4"
Directivity	Omnidirectional	Omnidirectional
Amplifier	1600 W RMS Class-D Digipro® G4	1600 W RMS Class-D Digipro® G4
Cooling	Convection, internal fan	Convection, internal fan
Power Supply	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)
Controller	DSP 32 Bit	DSP 32 Bit
AD/DA Converter	24 bit 96 kHz	24 bit 96 kHz
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal
Delay Option	0 - 9.9 ms internal | steps of 0.1 ms [on-board]	0 - 9.9 ms internal | steps of 0.1 ms [on-board]
Xover Frequency LF-Xover out	Selectable 60-110 Hz + Full Range (8 steps)	Selectable 60-110 Hz + Full Range (8 steps)
LF-Xover out slope	24 dB/Octave	24 dB/Octave
Signal Input	1x XLR balanced, 1x USB Data Service	1x XLR balanced, 1x USB Data Service
Signal Output	1 x XLR balanced (link or X-over)	1x XLR balanced (link or X-over)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Expansion Card	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]
Controls	1x Input Attenuation Rotary Switch 2x Delay Rotary Encoder (9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid Mode Switch 1x X-Over Freq Rotary Encoder (8 steps) 1x System Auto-test	1x Input Attenuation Rotary Switch 1x Rotary Encoder (Delay 9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid Mode Switch 1x X-Over Freq Rotary Encoder (8 steps) 1x System Auto-test
Special Features	380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics)	380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics) NFC™ and Frontal LED Identification System
Housing	Multiplex plywood - Polyurea painting	Multiplex plywood - Polyurea painting
Handles	2x per Side, Aluminium	2x per Side, Aluminium
Pole Mount	M20 Thread	M20 Thread
Rain cover	Included	Included
Rigging Points	2x Pick Points on top to stack DRK-210	2x Pick Points on top to stack DRK-210 8x Flying Hardware (4x on top, 4x on bottom)
Width x Height x Depth	720 x 530 x 700 mm (28.34 x 20.86 x 27.56 in)	720 x 520 x 700 mm (28.34 x 20.47 x 27.56 in)
Weight	47 kg (103.62 lbs)	45.1 kg (99.42 lbs)

VIO S118R

Equipped with a 18” woofer (4” coil), this bass reflex sub has been crafted to complete with impressive low-end VIO line array systems.

The front-loaded bass-reflex configuration ensures excellent performance at both close and mid-distance. Although this sub is intended for groundstack use indoor, it can also be used as a powerful low-end extension to most VIO line array systems in larger outdoor venues.

Latest generation amplifier

Both VIO S118 & VIO S118R system’s acoustic engine is driven by a Digipro G4® 1600W Class D amplifier. The switched mode power supply is equipped with PFC (Power Factor Corrector) which greatly improves the efficiency of the system. This also grants a worldwide compatibility of the power supply (from 90V to 265V 50/60Hz) and limits power consumption. Furthermore, the power supply is 380V resistant, so the final amplifiers will be switched off in case of an undesired strike of 380V current, saving them from any damage.

Digipro G4 preamplifier features a slot module, equipped with a RDNet expansion card as default, allowing system monitoring and control via Aurora Net. Furthermore, the system is ready for Audinate Dante™ Expansion Card allowing integration in a digital audio network. The amplifier also allows users to run a real-time test on transducers, both remotely via Aurora Net, or directly on the amplifier module.

The amp module features an on board attenuation control and a delay module allowing to reach a max 9.9 ms delay with 0.1 ms steps. The on board cardioid preset process the sound of the backward sub in cardioid configurations.

VIO S118

This flyable active subwoofer, equipped with a 18” neodymium transducer, has been crafted to complete the accurate and phase coherent wave front of VIO Line Arrays with impressive low-end frequencies and vigorous SPLs.

VIO S118 also features a NFC™ system and a LED on the front grille.

dBTechnologies developed a horn loaded design, while maintaining the size of a front-loaded sub cabinet, resulting in a double advantage: smaller dimension (and weight – only 45,1 kg) and a remarkable lower frequencies response even at a long distance. This makes this sub the perfect low-end extension of VIO arrays whenever a particularly long-throw is needed.

S118’s cabinet is equipped with integrated hardware allowing 1 or more subs to be flown in a sub array or on the top of a VIO L210 array. Furthermore the subwoofer can be flown with DRK-210 flybar in inverted orientation to create flown cardioid arrays. With FSA-VIOL210 adapter it is possible to attach VIO L210, or alternatively VIO L208 with AF-VIO1 adapter frame.

Groundstacking line arrays on VIO S118 is possible thanks to dedicated accessories.

Transport & Installation Accessories

AF-VIO1

Adapter frame for flying VIO L208 under VIO S118 / VIO L210 and groundstacking VIO L208/L210 above any VIO sub.

DO-VIOS118

Dolly for up to 3x VIO S118 / S118R

DSA-VIOL208

Groundstack adapter for VIO L208 on VIO S118 and S118R.

FSA-VIOL210

Adapter to fly VIO L210 under flown VIO S118.

GSA-VIOL210

Adapter to stack VIO L210 on VIO S118.

SWK-18 KIT

Kit consisting of 4 wheels for VIO S118R back panel.

Covers

FC-VIOS1

Functional cover for 2 VIO S118R / VIO S118.

TC-VIOS1

Transport cover for VIO S118R.

Cables

DAC-70	XLR-XLR audio cable (70 cm).
DAC-500	XLR-XLR audio cable (500 cm).
DCK-27T	Cable-Set containing 2x DAC-70 and 2x DPTC-70L.
DPTC-70L	PowerCON TRUE1-PowerCON TRUE1 power link cable (70cm).
DPTC-160L	PowerCON TRUE1-PowerCON TRUE1 power link cable (160cm).
DPTC-500L	PowerCON TRUE1-PowerCON TRUE1 power link cable (500cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON.

RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm lenght. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers. EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.

VIO S115

Speaker Type	Active Bassreflex Subwoofer
Usable Bandwidth [-10dB]	36 Hz - (user frequency LPF)
Frequency Response [-6dB]	40 Hz - (user frequency LPF)
Max SPL	134 dB
LF	1x 15”
Voice Coil LF	4”
Directivity	Omnidirectional
Amplifier	900 W RMS Class-D Digipro® G3
Cooling	Convection
Power Supply	Auto-range SMPS
Controller	DSP 32 bit
AD/DA Converter	24 bit/96 kHz
Limiter	Peak, RMS, Thermal
Delay Option	0-9.9 ms internal | steps of 0.1 ms
Xover Frequency LF-Xover out	Selectable 70-105 Hz + Full Range (8 steps)
LF-Xover out slope	24 dB/Octave
Signal Input	1 x XLR balanced, 1 x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR balanced, 1 x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Input Sensitivity Rotary Encoder 1x X-over Selection Rotary Encoder 1x Delay Selection Encoder 1x Polarity Selection Switch 1x X-out Mode Selection Switch 1x On-LED 1x Status-LED 1x Signal-LED 1x Limiter-LED 3x RDNet Status-LED
Special Features	Opto-isolated floating pre-amp
Housing	Multiplex plywood - Polyurea painting
Pole Mount	1x M20 on Top, 1x M20 on Right Side
Handles	1x Side. Aluminium
Rigging Points	16x M10
Width x Height x Depth	650 x 420 x 550 mm (25.6 x 16.5 x 21.7 in)
Weight	32.8 kg (72.3 lbs)

FLYABLE SINGLE 15” SUBWOOFER

900W RMS SMPS AMPLIFIER

HORIZONTAL OR VERTICAL USE

COMPLETE NETWORKABILITY VIA RDNET

VIO S115

Driven by a Digipro G3 900 W RMS amp, and provided with the advanced VIO DSP, the acoustic engine is enabled to impressive SPLs and complete networkability and remote control in real time via RDNet protocol and Aurora Net software.

For ease of use, basic DSP functions such as delay, crossover frequency and low-pass filters can be accessed via onboard controls on the back panel.

The most compact subwoofer in VIO family, VIO S115 is a single 15” cabinet designed as the perfect low-end complement for VIO X full range PAs, both in stacked or flown configurations.

VIO S115 is equipped with a premium 15-inch neodymium woofer loaded in a bass-reflex configuration. Its limited size and reduced weight make it the most compact cabinet of the VIO family, designed as a solution for low frequencies in sound reinforcement systems with full range VIO X tops, especially for the very compact VIO X205 and VIO X206.

M10 threads and dedicated brackets and flybars ease installation or flown set ups, and many more configurations that will suit any installation requirement.

The single DRK-1 and the double DRK-2 flybars allow users to create sub arrays, double sub arrays, or sub + top arrays with VIO X206 used in line array mode.

The cabinet design also features M20 pole mounts on the top and side, so it is possible for users to set up stacked PAs with vio x tops using the sub vertically or horizontally.

Accessories

DRK-1

Flybar for VIO S115

DRK-2

Double-hanging flybar for VIO S115

TC-S115

Transport cover for VIO S115

LP-4

Link plate for VIO S115

LP-5

Link plate for VIO X206 and VIO S115

RC-1

Rain cover for VIO S115

CONSTANT CURVATURE ARRAY SPEAKERS

VIO C is a complete series of 2-way active line-source speakers designed to upgrade the arrayable loudspeaker concept to a brand-new level.
Based on the concept of constant curvature array, VIO C systems have been designed to create both vertical or horizontal line-source arrays.
VIO C's peculiar acoustic design, together with its agile rigging system, and complete networkability, makes countless configurations possible, allowing for the most flexible coverage options as well as the powerful and pure acoustic performance that distinguishes all VIO cabinets.

VIO C Series

2-WAY ACTIVE LINE-SOURCE SPEAKERS

1600W RMS DIGIPRO® G4 AMP TECHNOLOGY

HORIZONTAL SCALABLE LINE SOURCE AND VERTICAL CONSTANT CURVATURE ARRAY CONFIGURATION POSSIBLE

OLED USER-FRIENDLY INTERFACE

FULL RANGE SMPS WITH PFC

NEODYMIUM COMPONENTS

ADVANCED DSP FEATURING LINEAR PHASE FIR FILTERS

EXCLUSIVELY DESIGNED WAVEGUIDE FOR MAXIMUM HF DIRECTIVITY CONTROL

FULLY NETWORKABLE VIA AURORA NET

ACCESSORIES COMPATIBLE FOR ALL MODELS

2-WAY ACTIVE LINE-SOURCE SPEAKERS

Available in 3 different models, respectively equipped with 12”, 15”, and 2x 12” woofers, VIO C allows users to design scalable PAs for the broadest range of venues and applications, from installed PA systems to sound reinforcement for live music and touring.
The smoothest deployment is granted by the exclusively designed rigging system based on quick-release plates, allowing for easy and rapid set-up operations.
In addition to all the above, a system of infrared ports, plus the modular slot equipped with RDNet card on every single enclosure, allows for monitoring and control in real-time of the system in use.

	VIO C12	***VIO C15***	***VIO C212***
Speaker Type	2 Way Active Cluster Loudspeaker	2 Way Active Cluster Loudspeaker	2 Way Active Cluster Loudspeaker
Usable bandwidth [-10dB]	52 - 19,000 Hz	42 - 19,000 Hz	46 - 19,000 Hz
Frequency Response [-6dB]	55 - 18,000 Hz	46 - 18,000 Hz	51 - 18,000 Hz
Max SPL	139 dB	140 dB	141 dB
HF	1x 1.4”	1x 1.4”	1x 1.4”
Voice Coil HF	3” Neodymium	3” Neodymium	3” Neodymium
LF	1x 12”	1x 15”	2x 12”
Voice Coil LF	3.5” Neodymium	3.5” Neodymium	3” Neodymium
Directivity (HxV)	22.5° x 55° (+20°/-35°)	22.5° x 45° (+15°/-30°)	22.5° x 55° (+20°/-35°)
Amplifier	1600 W RMS Class-D Digipro® G4	1600 W RMS Class-D Digipro® G4	1600 W RMS Class-D Digipro® G4
Cooling	Convection + Internal Fan	Convection + Internal Fan	Convection + Internal Fan
Power Supply	Full-range SMPS with PFC	Full-range SMPS with PFC	Full-range SMPS with PFC
Controller	DSP 32 bit	DSP 32 bit	DSP 32 bit
AD/DA Converter	24 bit/96 kHz	24 bit/96 kHz	24 bit/96 kHz
Limiter	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal
Processing	FIR Linear Phase Filters	FIR Linear Phase Filters	FIR Linear Phase Filters
Signal Input	1x XLR female, balanced 1x USB Data Service	1x XLR female, balanced 1x USB Data Service	1x XLR female, balanced 1x USB Data Service
Signal Output	1x XLR male, balanced	1x XLR male, balanced	1x XLR male, balanced
Expansion Card	RDNet Card (1x RJ45 Link IN, 1x RJ45 Link) Dante Card [Optional]	RDNet Card (1x RJ45 Link IN, 1x RJ45 Link) Dante Card [Optional]	RDNet Card (1x RJ45 Link IN, 1x RJ45 Link) Dante Card [Optional]
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	OLED Display + rotative knob w/switch	OLED Display + rotative knob w/switch	OLED Display + rotative knob w/switch
Special Features	IR Positiong System on top and both sides Opto-isolated floating pre-amp 380V Resistant SMPS IPOS Intelligent Power-On Sequence Inclinometer	IR Positiong System on top and both sides Opto-isolated floating pre-amp 380V Resistant SMPS IPOS Intelligent Power-On Sequence Inclinometer	IR Positiong System on top and both sides Opto-isolated floating pre-amp 380V Resistant SMPS IPOS Intelligent Power-On Sequence Inclinometer
Housing	Wooden Cabinet, Polyurea painting	Wooden Cabinet, Polyurea painting	Wooden Cabinet, Polyurea painting
Handles	2 on back + 1x side	2 on back + 1x side	2 on back + 1x side
Rain Cover	Included	Included	Included
Rigging Points	Corner quick link (1x LP-1 included)	Corner quick link (1x LP-1 included)	Corner quick link (1x LP-1 included)
Pole Mount	Ø36 mm	Ø36 mm	Ø36 mm
Width x Height x Depth	379 x 787 x 495 mm (14.92 x 30.98 x 19.48 in)	436 x 892 x 630 mm (17.16 x 35.11 x 24.80 in)	379 x 1132 x 495 mm (14.92 x 44.56 x 19.48 in)
Weight	31.8 kg (70.1 lbs)	40.6 kg (89.5 lbs)	41.7 (91.9 lbs)

UNIQUE ACOUSTIC DESIGN

Equipped with premium neodymium components, every model in VIO C series features a waveguide, whose design is based on that of VIO line array systems, plus a vertical asymmetrical horn.

This peculiar acoustic design enables the system to deliver the most constant and precise dispersion pattern.

Any single VIO C enclosure precisely provides a horizontal coverage of 22.5 ° since the speaker has been conceived in order to work side by side with other units.

When matching companion cabinets, users can easily set up scalable horizontal or vertical clusters, adapting the VIO C to the venue and application in use.

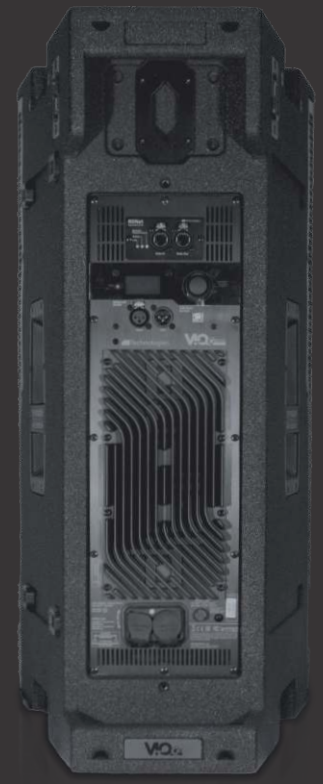
VIO C clusters can be rapidly assembled thanks to the LP-1, a metal link plug accessory (1 is included in each VIO C unit) which links the rigging points placed on the corners of each cabinet. A very user-friendly device allowing to secure two units side by side in seconds.

The whole series is equipped with the latest generation 1600 W RMS Class D Amp module Digipro G4, the same amp technology driving top-notch VIO family systems. The 380 V shock-resistant SMPS features PFC, allowing the system to run smoothly in any country in the world, regardless of the input voltage.

Complete networkability functions are granted by RDNet, allowing for real-time monitoring and control of the system in use via Aurora Net. Each VIO C unit is equipped by default with a modular RDNet card slot. Nevertheless, the preamplifier is ready for future upgrades with Audinate Dante card.

The on-board OLED display shows the pairing status of the cluster in use and allows to manually get some of the DSP functions.

Enclosures are made of plywood reinforced by a black polyurea finish. A removable raincover is included in each cabinet which is also equipped with 2 side and 2 back handles easing transport and setup.



Accessories

DRK-C

Flybar for hanging 2 VIO C speakers side by side.

DRKL-3

Link for DRK-C when flying 3 VIO C speakers or 2 rows of 3 VIO C speakers in horizontal array.

DRKL-4

Link for DRK-C when flying 4 VIO C speakers or 2 rows of 4 VIO C speakers in horizontal array.

DRK-CCA

Flybar for up to 4 VIO C12 or 4 VIO C15 in vertical array configuration.

LP-1

Link plug for VIO C Series.

TC-VIOC12, 15, 212

Transport cover available for VIO C12, VIO C15 and VIO C212.

MAXIMUM FLEXIBILITY

Featuring an exclusively designed waveguide as well as an asymmentrical horn, any single VIO C enclosure precisely provides a horizontal 22,5° angle coverage pattern. When matching companion cabinets, users can easily set up scalable horizontal clusters, adapting the VIO C to the venue and application in use. Thus, a 3-cabinet side-by-side configuration delivers roughly a 67° horizontal pattern, a 4-cabinet cluster reaches a 90° horizontal angle, and so forth.

VIO C series scalability goes far beyond that. IThanks to the acoustic design allowing for asymmetrical vertical dispersion, users can easily head-stack a second set of VIO C12 or VIO C15 speakers on top, creating two rows of horizontal clusters, for the great benefit of sound pressure level. The vertical beam is adjustable via software, in order to adapt the coverage to the venue.

IR Positioning System

Infrared ports are placed on top and both sides of each cabinet so that the speakers can recognize the size and configuration of the system when linked together horizontally or vertically. The on-board OLED display shows the pairing status of the cluster in use.

A set of accessories allows for multiple configurations.

The DRK C flybar is designed for horizontal clusters in combination with DRK L3 or DRKL4 link bars, depending on the number of speakers in use.

The DRK CCA fly bar has been designed for vertical array in a constant curvature configuration: up to 4 C12s or 4 C15s are flyable in this mode.

POINT SOURCE SPEAKERS

Boasting an impressive feature set comprising premium neodymium components, impressive SPL, advanced DSP featuring Linear Phase FIR filters, complete networkability via RDNet protocol, multifunctional multiplex housings equipped with rigging points and rails, VIO X is the perfect point source completion for VIO family in a wide range of applications.

VIO X Series

2-WAY ACTIVE LOUDSPEAKER SERIES

3 MODELS: 10, 12 AND 15”

NEODYMIUM COMPONENTS

DIGIPRO G3 AMP 900W RMS

ADVANCED DSP FEATURING LINEAR PHASE FIR FILTERS

FULLY NETWORKABLE VIA AURORA NET

ON BOARD HQ AND HPF DSP PRESETS

POINT-SOURCE COMPLETION

dBTechnologies presents VIO X, an original series of professional active 2-way speakers combining impressive output, advanced DSP features and complete networkability via Aurora Net software.
Conceived as a point-source completion for the VIO family, the new VIO X series provides in facts a broad spectrum of professional applications as well as flexible configuration options.

	VIO X10	VIO X12	VIO X15
Speaker Type	2 Way Active Loudspeaker	2 Way Active Loudspeaker	2 Way Active Loudspeaker
Usable bandwidth [-10dB]	73 - 21,400 Hz [FW 1.x] 65 - 21,400 Hz [FW 2.x]	62 - 22,000 Hz [FW 1.x] 60 - 22,000 Hz [FW 2.x]	55 - 22,000 Hz [FW 1.x] 50 - 22,000 Hz [FW 2.x]
Frequency Response [-6dB]	82 - 20,000 Hz [FW 1.x] 70 - 21,400 Hz [FW 2.x]	79 - 21,000 Hz [FW 1.x] 65 - 21,000 Hz [FW 2.x]	72 - 21,000 Hz [FW 1.x] 60 - 21,000 Hz [FW 2.x]
Max SPL	130 dB	132 dB	133.5 dB
HF	1x 1”	1x 1.4”	1x 1.4”
Voice Coil HF	1.75”	2.5” Neodymium	2.5” Neodymium
LF	1x 10”	1x 12”	1x 15”
Voice Coil LF	2.5” Neodymium	3” Neodymium	3” Neodymium
Directivity (HxV)	90° x 40°	60° x 40°	60° x 40°
Horn	Rotatable Horn	Rotatable Horn	Rotatable Horn
Amplifier	900 W RMS Class-D Digipro® G3	900 W RMS Class-D Digipro® G3	900 W RMS Class-D Digipro® G3
Cooling	Convection	Convection	Convection
Power Supply	Auto-range SMPS	Auto-range SMPS	Auto-range SMPS
Controller	DSP 28/56 bit	DSP 28/56 bit	DSP 28/56 bit
AD/DA Converter	24 bit/48 kHz	24 bit/48 kHz	24 bit/48 kHz
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal
Processing	FIR Linear Phase Filters	FIR Linear Phase Filters	FIR Linear Phase Filters
Signal Input	1x XLR balanced, 1x RJ45 Link (RDNet) 1x USB Data Service	1x XLR balanced, 1x RJ45 Link (RDNet) 1x USB Data Service	1x XLR balanced, 1x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR balanced, 1x RJ45 Link (RDNet)	1x XLR balanced, 1x RJ45 Link (RDNet)	1x XLR balanced, 1x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Rotary Encoder (8x EQ, HPF presets) 1x Input sensitivity potentiometer 1x Mic / line switch	1x Rotary Encoder (8x EQ, HPF presets) 1x Input sensitivity potentiometer 1x Mic / line switch	1x Rotary Encoder (8x EQ, HPF presets) 1x Input sensitivity potentiometer 1x Mic / line switch
Special Features	Opto-isolated floating pre-amp	Opto-isolated floating pre-amp	Opto-isolated floating pre-amp
Housing	Wooden Cabinet, Polyurea painting	Wooden Cabinet, Polyurea painting	Wooden Cabinet, Polyurea painting
Handles	1x (top)	1x (top), 2x (side)	1x (top), 2x (side)
Wedge Angle	Monitor use 50°	Monitor use 50°	Monitor use 50°
Rigging points	12x M10 Thread + 4x Fast lock pins	12x M10 Thread + 4x Fast lock pins	12x M10 Thread + 4x Fast lock pins
Pole Mount	Ø36 mm	Ø36 mm	Ø36 mm
Width x Height x Depth	280 x 550 x 375 mm (11.02 x 21.65 x 14.76 in)	340 x 650 x 445 mm (13.38 x 25.5 x 17.51 in)	400 x 750 x 475 mm (15.74 x 29.52 x 18.7 in)
Weight	16.6 kg (36.59 lbs)	20.7 kg (45.63 lbs)	25.4 kg (55.99 lbs)

PROFESSIONAL & FLEXIBLE

The series encompasses 3 models: all equipped with a specially designed rotatable horn facilitating a clear and constant directivity.

VIO X10, featuring 1x 10" woofer (2.5 v.c) and a 1" compression driver (1.75" v.c.)

VIO X12, featuring 1x 12" woofer (3" v.c.) and 1x 1.4" compression driver (3" v.c.)

VIO X15, featuring 1x 15" woofer (3" v.c) and 1x 1.4" compression driver (3" v.c.)

All cabinets are powered by on board Digipro G3 900 W RMS providing majestic sound pressure levels in compact size and very limited weight. Advanced sound processing featuring Linear Phase FIR Filters allows VIO Xs to deliver an extremely coherent audio performance, standing out for its intelligibility and clarity from every listening position.

A feature-mix boosting high-end audio performance as well as advanced versatility. As a matter of facts, VIO X cabinets serve impressively as a stand alone PA system that can be stacked, flown or wall-mounted, as a full range PA or in combination with VIO S118 and VIO 118R subwoofers, but also act as the perfect side-fill, delay or stage monitoring system in larger VIO sound reinforcement applications.

The robust wooden enclosure allows horizontal use for monitoring purposes and is provided with a 36mm pole mount, and rigging points facilitating fixed installations with dedicated vertical and horizontal brackets.

On board presets let users adapt High Pass Filters to the chosen application, as well as dedicated EQ presets for Wedge or Fullrange mode. Last but not least, VIO X is equipped with RDNet port allowing monitoring and full remote control in real time via Aurora Net software (Windows and Mac).

Accessories

RC-M1

Amplifier magnetic rain cover.

WB-VIOX10H

Horizontal wall bracket for VIO X10.

WB-VIOX12H

Horizontal wall bracket for VIO X12.

WB-VIOX15H

Horizontal wall bracket for VIO X15.

WB-VIOX10V

Vertical bracket for VIO X10. 36mm pole mount included.

WB-VIOX12V

Vertical bracket for VIO X12. 36mm pole mount included.

WB-VIOX15V

Vertical bracket for VIO X15. 36mm pole mount included.

FC-VIOX10, 12, 15

Functional cover available for VIO X10, VIO X12 and VIO X15.

VIO X310

VIO X315

- *3 WAY TRI-AMPED ACTIVE POINT SOURCE*
- *COAXIAL MID-HIGH TRANSDUCER*
- *1400 W RMS DIGIPRO G4 AMP TECHNOLOGY*
- *OUTSTANDING SPL UP TO 138 DB*
- *SYMMETRIC DESIGN FOR VIO X310*
- *EXTENDED LOW-END RESPONSE FOR VIO X315*
- *FLYABLE WITH ACCESSORIES*
- *NEODYMIUM COMPONENTS*
- *LINEAR PHASE FIR FILTERS*
- *FULL-RANGE SMPS WITH PFC*
- *MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS (RDNET CARD INSTALLED)*
- *SYSTEM TEST FOR QUICK TRANSDUCERS DIAGNOSTICS*

THE 3-WAY TRI-AMPED DESIGN

Introducing VIO X300 series, the evolution of our premium line VIO X: powerful, tour-grade, three-way tri-amped point source speakers for public address in large venues.

VIO X310 and VIO X315 are both self-powered point source speakers capable of delivering outstanding sound pressure levels for the size, and they render stellar acoustic performance thanks to premium components, a three-way tri-amplified design and state of the art electronics.

	VIO X310	***VIO X315***
Speaker Type	3 Way Active Loudspeaker	3 Way Active Loudspeaker
Usable bandwidth [-10dB]	53 - 19,800 Hz	34 . 19,200 Hz
Frequency Response [-6dB]	57 - 19,200 Hz	37 - 18,000 Hz
Max SPL	138 dB	137 dB
HF/MF	1x 1.4”	1x 1.4”
Voice Coil HF/MF	4”- 2.5” v.c. Coaxial Neo	4”- 2.5” v.c. Coaxial Neo
LF	2x 10”	1x 15”
Voice Coil LF	2.5” v.c Neo	4” v.c Neo
Directivity	90° x 40° [H x V]	90° x 50° - 5° tilted down [H x V]
Amplifier	1400 W RMS Class-D Digipro® G4	1400 W RMS Class-D Digipro® G4
Cooling	Convection	Convection
Power Supply	Full range SMPS with PFC	Full range SMPS with PFC
Controller	DSP 32 bit	DSP 32 bit
AD/DA Converter	24 bit/96 kHz	24 bit/96 kHz
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal
Processing	FIR Linear Phase Filters	FIR Linear Phase Filters
Signal Input	1 x XLR balanced, 1 x RJ45 Link (RDNet), 1x USB (Data Service)	1 x XLR balanced, 1 x RJ45 Link (RDNet), 1x USB (Data Service)
Signal Output	1x XLR balanced, 1 x RJ45 Link (RDNet)	1x XLR balanced, 1 x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x input Rotary Encoder (8x presets) 1x Ready LED 1x Mute/Prot LED 1x Signal LED 1x Limiter LED 1x Frontal LED 1x Button and 1x LED System Test	1x input Rotary Encoder (8x presets) 1x Ready LED 1x Mute/Prot LED 1x Signal LED 1x Limiter LED 1x Frontal LED 1x Button and 1x LED System Test
Housing	Wooden Cabinet, Polyurea painting	Wooden Cabinet, Polyurea painting
Handles	1x on top / 1x on bottom	3 (1x side, 1 on top)
Rigging points	flyable with bracket	12x M10 Thread
Pole mount	/	D36mm
Width x Height x Depth	300 x 780 x 430 mm (11.8 x 30.7 x 16.9 in)	420 x 820 x 520 mm (16.5 x 32.3 x 20.5 in)
Weight	28 kg (61.5 lbs)	39.5 kg (87.1 lbs)

3-way Tri-amped Design

The MF-HF coaxial component mounted in both VIO X310 and VIO X315 utilize the same transducer used in the VIO L1610 line array module: it's a 4" voice coil plus 2.5" voice coil coaxial driver, an heavy-duty and high-fidelity transducer reproducing from 500Hz up.

When it comes down to detailed mid-range reproduction, a compression driver diaphragm is much quicker and more accurate than a similar sized woofer. Furthermore, because of the compact dimensions, this content can be easily dispersed through a horn, just like you would do with an HF driver, for improved control over the sonic pattern.

These characteristics result in an incredibly faithful and meticulous reproduction of the most critical frequency range, essential for clear-cut intelligible vocals and instrument separation in your mix.

Since a great portion of the frequency content is horn loaded, not only is the sound pressure level impressive due to the acoustic loading, but also directivity control is maximized.

Last but not least, the sum of all these acoustic design choices combined with cutting edge class-D amplifiers and DSP processing result in remarkable sound pressure levels, as high as 137dB.
The two speakers share the same coaxial MF-HF transducer but differ in size due to the different components handling the low-end reproduction.

VIO X310 is equipped with 2x 10" neodymium woofers in a dipole configuration, so the speaker benefits from all the advantages of this arrangement such as a very prominent directivity control for low-mids and a precise, fast, and extended response of the bottom end.

The Coaxial mid-high frequency compression driver is mounted behind a 90° by 40° rotatable horn, and all the components are arranged around the center of this point source, resulting in a symmetrical dispersion.

VIO X315 is equipped with a single high performance 15" neodymium woofer, capable of providing loud, precise, wide band performances, with no compromises. The goal was to develop a real full-range PA system, with an astounding wide frequency response, reaching as low as 37Hz.

In this model, the mid-hi coaxial transducer is placed behind a 90°x50° horn which has been designed with a slight tilt downwards (around 5°) to optimize the coverage in average venues.

Electronics and processing

Modern tour requirements include a very reliable design and extended use of technology to adapt the PA to any venue: VIO X300 series takes advantages of the entire range of available upgrades derived from the VIO series development in the last years.

VIO X300 makes the most of the acoustic design, delivering an astounding SPL and allowing for full bandwidth capabilities.

All of the above great advantages come with the ease of use of any other conventional active point source speaker. Thanks to specific brackets and M10 threads, VIO X300 series can be utilized as fills in larger setups, such as a full range under balcony or delay system in fixed installations. Equally VIO X300 can be deployed as a compact, complete standalone 3-way system for any audience.Lastly, VIO X300 can cover large, open air sound reinforcement setups, serving as high SPL fills, or powerful standalone PAs for the most demanding applications.

The series is equipped with a 1400W RMS Class-D Digipro G4 power amplifier, a 4-channel amplifier able to drive each component individually, with dedicated FIR filters enabled sound processing for low, mid and high frequencies. This amp has been specially designed for VIO X300 series and allows for complete networkability via Aurora Net thanks to RDNet ports. A modular card slot is ready for future I/O and remote-control upgrades.

A Power Factor Corrections enabled PSU ensures extreme adaptability to any environment while an integrated System Test checks for any possible transducer failure during the show. Also, a frontal LED light will always allow to determine the position of any remote controlled VIO X3 enclosure at any time via Aurora Net Software, the same suite used to access the speakers' advanced processing instances, such as delay up to 560ms and up to 16 EQ filters.

Accessories

HB-3X10

Horizontal bracket for VIO X310.

RC-X3

Rain Cover for VIO X310 and VIO X315.

TC-VIOX310

Transport Cover for VIO X310.

TC-VIOX315

Transport Cover for VIO X315.

VB-3X10

Vertical Bracket for VIO X310

VIO X206

60°x90° VERSION
WITH ROTATABLE HORN

ARRAYABLE 100°x15° VERSION WITH WAVEGUIDE

900W RMS ACTIVE 2-WAY SPEAKER

HF 1x 1" NEO - LF 2x 6.5"

COMPLETE NETWORKABILITY VIA RDNET

MAXIMUM VERSATILITY IN TOUR GRADE APPLICATIONS OR FIXED INSTALLATIONS

DSP PRESET SWITCH ON BOARD TO MATCH THE COVERAGE PATTERN IN USE

WIDE ACCESSORIES CHOICE FOR MULTIPLE APPLICATIONS

IN A CLASS OF ITS OWN

VIO X206 not only packs the best of the VIO X line's sonic performance into an ultra-compact cabinet but also brings versatility to a new level by serving as both a point source speaker and a line array system.
The ultimate solution for complementing VIO PA systems and setting up compact high-performance stand-alone systems, meeting the requirements of both the production and integration world.

Speaker Type	2 Way Active Loudspeaker
Usable bandwidth [-10dB]	66 - 19,500 Hz / 66 - 18,000 Hz [VIO X206-100]
Frequency Response [-6dB]	70 - 18,000 Hz / 70 - 17,500 Hz [VIO X206-100]
Max SPL	131 dB
HF	1x 1" exit Neodymium
Voice Coil HF	1.75"
LF	2x 6.5"
Voice Coil LF	1.75"
VIO X206 Directivity	60° x 90° [rotatable horn]
VIO X206-100 Directivity	100° x 15° [H x V]
Amplifier	900 W RMS Class-D Digipro® G3
Cooling	Convection
Power Supply	Auto-range SMPS
Controller	DSP 32 bit
AD/DA Converter	24 bit/96 kHz
Limiter	Peak, RMS, Thermal
Processing	FIR Linear Phase Filters
Signal Input	1x XLR balanced, 1x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR balanced, 1x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Input Sensitivity Rotary Encoder (10x presets) 1x Horn Model Selection Switch 1x HF Correction Switch 1x On-LED 1x Status-LED 1x Signal-LED 1x Limiter-LED 3x RDNet Status-LED
Housing	Wooden Cabinet, Polyurea painting
Handles	2 Integrated
Rigging points	2x M10 Threaded Nut (on top and bottom)
Width x Height x Depth	210 x 650 x 270 mm (8.3 x 25.6 x 10.6 in)
Weight	17.3 kg (38.14 lbs)

UNIQUE ACOUSTIC DESIGN

VIO X206
rotatable horn version
90° x 60° dispersion

VIO X206 is equipped with 2x 6.5" neodymium transducers, and a 1" compression driver, driven by a Digipro class D 900 Watts RMS power amplifier, which, just like any other product in the VIO family, is equipped with RDNet, allowing for remote control with Aurora net software.

Point source or line array

The system is available in 2 models providing different coverage patterns.

VIO X206 features a horn allowing for a 60x90° dispersion. VIO X206-100, instead, features a waveguide providing a 100x15°dispersion, allowing the system to operate in line array mode.

Both VIO X206 horn and VIO X206-100 waveguide are removable, meaning that users can easily replace them, adapting their VIO X206 systems to the venue and application in use.

A firmware preset button on board optimizes the behavior of the DSP to the application in use.

VIO X206-100
arrayable version with waveguide
100° x 15° dispersion

Line array mode

VIO X206 100x15° version is suitable to be mounted in line array mode thanks to LP-5 link plate, which also enables users to set different splay angles. The same accessory allows to hook up VIO S115 flyable subwoofers to the array as well. In addition to the standard DRK-1 flybar for single VIO X206 arrays, the dual DRK-2 flybar allows flying at the same time 2 arrays of VIO X206, or VIO S115 subs, or even tops and subs together.

Accessories

DRK-1

Flybar for VIO X206.

DRK-2

Double-hanging flybar for VIO X206 and VIO S115.

FC-206

Functional cover for VIO X206.

HB-2X6

Horizontal bracket for VIO X206.

Accessories

HK-6090

60x90° horn kit for VIO X206.

HK-15100HW

Waveguide kit for VIO X206.

LP-2

Link plate for VIO X206.

LP-3

60°-link plate for VIO X206.

LP-5

Link plate for VIO X206 and VIO S115.

RC-1

Rain cover for VIO X206.

SA-2X6

Speaker stand adapter for VIO X206.

VB-2X6

Vertical bracket for VIO X206.

ENHANCED SETUP SPEED

With SB-2X6, configuring precise angles for a line array setup takes just seconds. This accessory guarantees optimal sound dispersion by adapting the shape of the array to any venue. With SB-2X6 you can unlock the capabilities of DRK-2X6 and DT-2X6 for VIO X206 speakers.

The DRK-2X6 offers flexibility for any application, making it an indispensable accessory for professional installations and touring applications. Works both for Line Array Configurations and Groundstack ones.

The DT-2X6 touring cart is built to stack up to 6x VIO X206 speakers securely plus DRK-2X6 flybar, providing unmatched convenience during transport.

SB-2X6, DT-2X6, and DRK-2X6 - each crafted with precision to enhance your sound, simplify your setup, and unleash VIO X206 full potential.

Accessories

DT-2X6

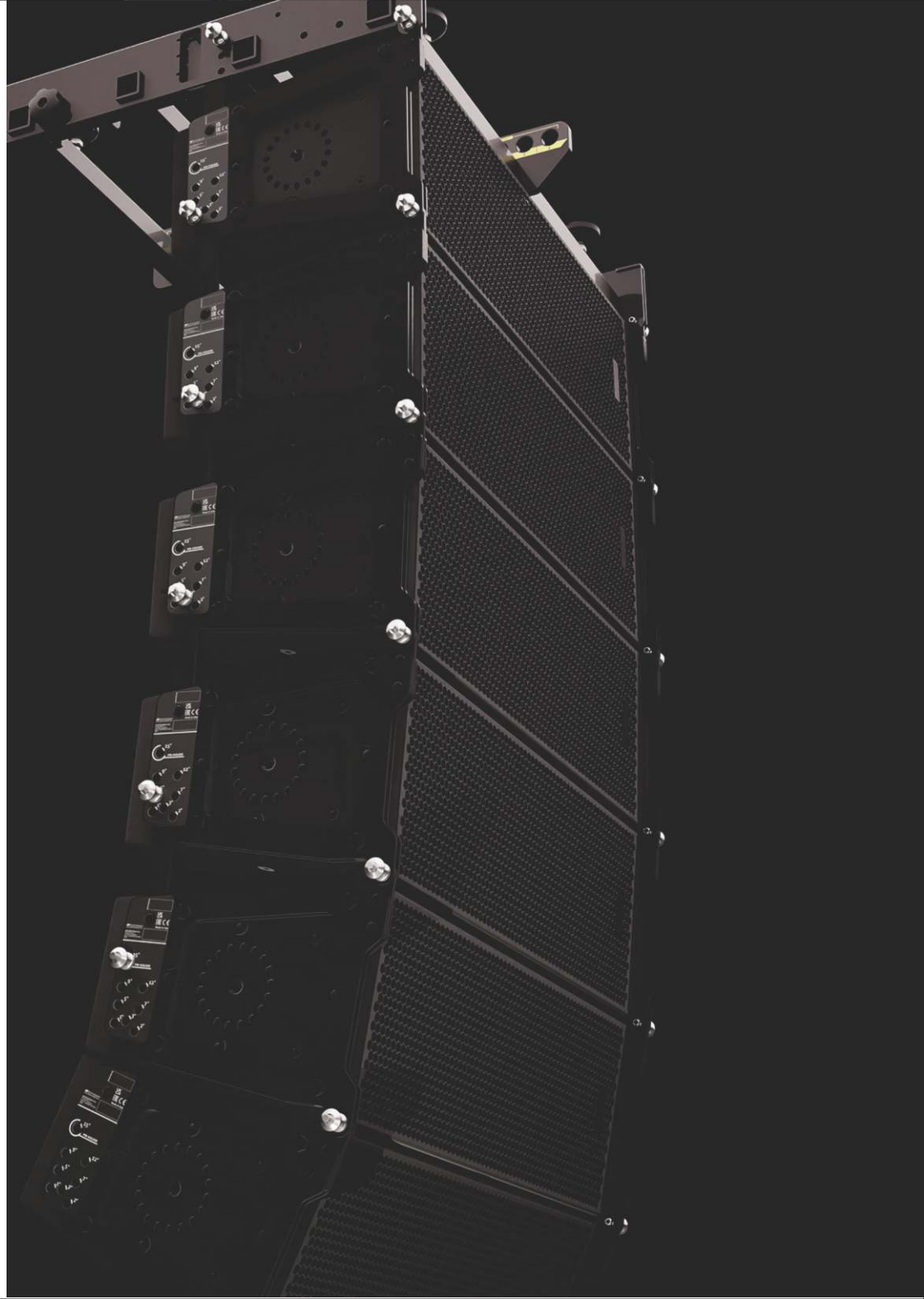
Touring cart for stacking up to 6 VIO X206.
Only with SB-2X6

DRK-2X6

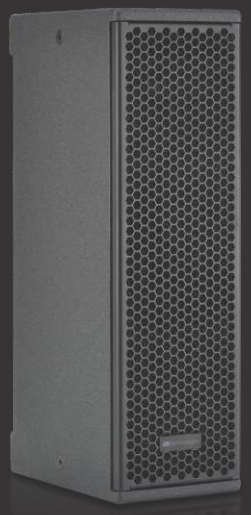
Flybar for VIOX206 flown or stack mounting.
Only with SB-2X6

SB-2X6

Brackets for VIOX206 speakers transport and flown or stack mounting



VIO X205



Speaker Type	2 Way Active Loudspeaker
Usable bandwidth [-10dB]	75 - 21,000 Hz
Frequency Response [-6dB]	80 - 20,000 Hz
Max SPL	126 dB
HF	1x 1"
Voice Coil HF	1.4"
LF	2x 5"
Voice Coil LF	1"
VIO X205-60 Directivity	60° x 60°
VIO X205-100 Directivity	100° x 100°
Amplifier	400 W RMS Class-D Digipro® G3
Cooling	Convection
Power Supply	Auto-range SMPS
Controller	DSP 28/56 bit
AD/DA Converter	24 bit/48 kHz
Limiter	Peak, RMS, Thermal
Processing	FIR Linear Phase Filters
Signal Input	1x XLR balanced, 1x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR balanced, 1x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Rotary Encoder (8x EQ presets) 1x Input Attenuation Rotary Switch 1x On-LED 1x Status-LED 1x Signal-LED 1x Limiter-LED
Housing	Wooden Cabinet, Polyurea painting
Wedge Angle	Monitor use 5°
Rigging points	2x M10 Threaded Nut (on top and bottom)
Width x Height x Depth	150 x 485 x 240 mm (5.9 x 19 x 9.4 in)
Weight	7.8 kg (17.2 lbs)

400 W RMS ACTIVE 2-WAY SPEAKER

LF 2x 5" (1" V.C.), HF 1x 1" (1.4" V.C.)

AVAILABLE WITH 60° x 60° OR 100° x 100° COVERAGE

MAXIMUM VERSATILITY IN TOUR-GRADE APPLICATIONS OR FIXED INSTALLATIONS

MOST COMPACT RDNET CONTROLLED CABINET

A revolution in VIO X family: newly born VIO X205 condenses the powerful and detailed sound of the ultimate dBTechnologies point source series into a small, ultra-performing cabinet.

Being the most compact system allowing complete remote control via RDNet, VIO X205 acts as the most precise and versatile unit in any tour-grade application as well as in fixed installations. In facts, VIO X205 is available in 2 models, providing a 60°x60° or 100°x100° dispersion pattern.

60° x 60°

100° x 100°

VIO X205 is a 2-way speaker equipped with 2x5" (1" voice coil) and 1x1" driver (1.4" voice coil). The 400 W RMS DigiproG3 amplifier powers a cabinet able to deliver up to 126 dB despite its very compact dimensions: only 150 x 485 x 240 mm (WxHxD).

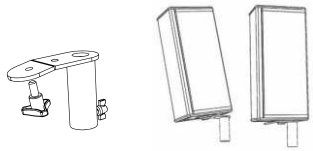
Keeping in mind the needs of the most demanding professionals, VIO X205 is available in 2 models featuring 2 different constant directivity horns allowing a 60° x 60° (for VIO X205-60) or 100° x 100° (for VIO X205-100) dispersion pattern. This means that each user will be able to choose the model that best fits his project as full-range PA, fixed installation, FOH monitoring, front-fill in large sound reinforcement systems, etc.

Advanced sound processing featuring Linear Phase FIR Filters allows VIO X205 to deliver an extremely coherent audio performance, standing out for its intelligibility and clarity from every listening position. On-board presets let users adapt High Pass Filters to the chosen application.
Just like other cabinets in the VIO X family, 205 is enabled for real time monitoring and remote control via RDNet protocol and Aurora Net software (Windows and Mac). The cabinet is also provided with on-board controls to set High Pass Filters as well as Input sensitivity.

This solid wooden cabinet is reinforced with a polyurea finish and features M10 threaded nuts on top and bottom allowing installation with accessories WB-VIOX205H (horizontal bracket) or WB-VIOX205V (vertical bracket). The cabinet can be easily installed on pole thanks to SA-VIOX205 pole mount adaptor (35mm) allowing 2 tilt options. Functional cover FC-VIOX205 is also available as an accessory.

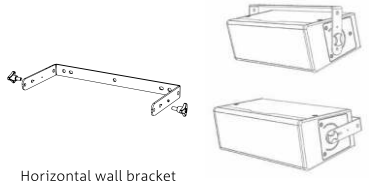
Accessories

SA-VIOX205



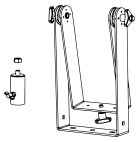
Speaker stand adpter for VIO X205.

WB-VIOX205H



Horizontal wall bracket for VIO X205.

WB-VIOX205V



Vertical bracket for VIO X205. 36mm pole mount included.

FC-VIOX205

Functional cover for VIO X205.

WEDGES

The VIO family would not be complete without a focused assortment of professional stage monitors.
dBTechnologies presents VIO W, a selection of monitors that share the best of VIO technology, an original acoustic design, and special attention to cabinet design and aesthetic effect on stage.
Each model in the VIO W series has been tailored to different production needs, from touring to system integration.

VIO W15T

ACTIVE 2-WAY COAXIAL STAGE MONITOR

NEODYMIUM TRANSDUCERS

1600W RMS CLASS-D AMPLIFIER

ROTATABLE HORN

ADVANCED DSP FEATURING LINEAR PHASE FIR FILTERS

FULL RANGE SMPS WITH PFC

MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS (RDNET CARD INSTALLED)

NFC™ + FRONT LED IDENTIFICATION SYSTEM

SYSTEM TEST FOR QUICK TRANSDUCERS DIAGNOSTICS

EXCLUSIVE FRONT-REAR GRILLE DESIGN

COAXIAL STAGE MONITOR

With VIO W15T, the perfect touring wedge goes VIO.
A powerful yet multiskilled stage monitor, able to keep up with VIO premium line array series on the most challenging live music stages. Making the most of its coaxial acoustic design, along with tour-grade amp technology and electronics, VIO W15T is the perfect stage companion for the most demanding musicians, while allowing for complete networkability and remote control in real-time.

Speaker Type	2-Way Coaxial Active Stage Monitor
Usable Bandwidth [-10dB]	49 - 17,000 Hz
Frequency Response [-6dB]	55 - 16,000 Hz
Max SPL	137.5 dB
HF	1x 1.3", 3" v.c. - Coaxial Neodymium
LF	1 x 15", 3" v.c. - Coaxial Neodymium
Horizontal Directivity	80°
Vertical Directivity	60°
Amplifier	1600 W RMS Class-D Digipro® G4
Cooling	Convection, Internal fan
Power Supply	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)
Controller	DSP 32 bit
AD/DA Converter	24 bit/96 kHz
Limiter	Dual Active Multiband Peak, RMS, Thermal
Processing (filters)	FIR Linear phase
Signal Input	1x XLR female, balanced 1x USB Data Service
Signal Output	1x XLR male, balanced
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Expansion card	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]
Controls	1x Switch Flat/Service User 1x System Test Button 1x On-LED 1x Status-LED 1x Signal-LED 1x Limiter-LED
Special Features	NFC™ and Frontal LED Identification System 380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics)
Housing	Wooden Cabinet, Polyurea painting
Handles	1 (+ 2 recessions x side)
Rigging Points	2x M10 with rotatable points
Width x Height x Depth	650 x 360 x 490 mm (25.59 x 14.17 x 19.29 in)
Weight	29 kg (63.9 lbs)

PERFECT TOURING COMPANION

VIO W15T is a self-powered box, equipped with a top-notch class D Digipro G4 amplifier, delivering 1600 Watts RMS. Its powerful DSP takes advantage of FIR filters, allowing for very flat frequency and phase response, together with great feedback rejection, and impressive SPL capability up to 137 dB.

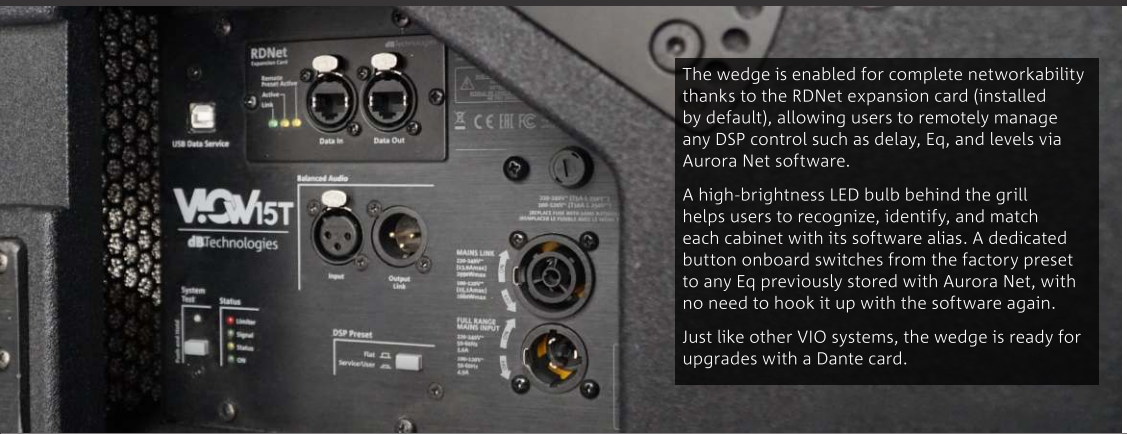
VIO amp technology comes with several benefits. First of all, the Power Factor Corrector granting the utmost reliability, regardless of the input voltage. A 380 Volt resistant power supply makes the wedge shock-resistant. Plus, a real-time impedance control allows for a check of transducers' health via Aurora Net software or via the onboard System Test button.

VIO W15T is equipped with a coaxial component encompassing a 15" neodymium woofer and a 3" neodymium driver. HF reproduction is routed through a horn allowing for a sharp 80x60° dispersion pattern.

Users can easily rotate the horn, which reverses the dispersion angle and adapts the wedge to different applications.

The minimal surrounding grille design makes VIO W15T look great on stage. The preamp module is flush-mounted on the side panel so that no connectors are visible. Furthermore, the preamp position allows for side-stacking of two wedges with no gap, while leaving enough room for cables.

A dedicated multifunctional bracket allows for different uses when needed, enabling the wedge for pole, truss, and wall mounting applications.



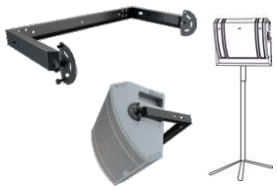
The wedge is enabled for complete networkability thanks to the RDNet expansion card (installed by default), allowing users to remotely manage any DSP control such as delay, Eq, and levels via Aurora Net software.

A high-brightness LED bulb behind the grill helps users to recognize, identify, and match each cabinet with its software alias. A dedicated button onboard switches from the factory preset to any Eq previously stored with Aurora Net, with no need to hook it up with the software again.

Just like other VIO systems, the wedge is ready for upgrades with a Dante card.

Accessories

WB-VIOW15T

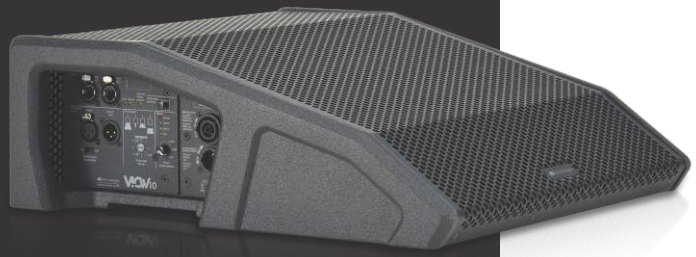


Bracket for VIO W15T, wall or pole mounted.

CABLES

CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-170	CAT6-CAT6 link cable (170cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
DPTC-100L	PowerCON TRUE1-PowerCON TRUE1 power link cable (100cm).
DPTC-120L	PowerCON TRUE1-PowerCON TRUE1 power link cable (120cm).
DPTC-160L	PowerCON TRUE1-PowerCON TRUE1 power link cable (160cm).
DPTC-500L	PowerCON TRUE1-PowerCON TRUE1 power link cable (500cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON.

VIO W10



ACTIVE 2-WAY WEDGE MONITOR

INNOVATIVE ULTRA-SLIM DESIGN

HEIGHT 165 MM ONLY

400 W RMS CLASS-D AMPLIFIER

ANTI-FEEDBACK ACOUSTIC CONFIGURATION

VARIABLE ACOUSTIC FOCUS

REMOTE CONTROL VIA RDNET

EXCLUSIVE FRONT-REAR GRILLE DESIGN

Speaker Type	2-Way Active Wedge Monitor
Usable Bandwidth [-10dB]	58 - 15,000 Hz
Frequency Response [-6dB]	68 - 14,000 Hz
Max SPL	126 dB
HF	4x 4", 1" v.c. - Neodymium
LF	1x 10", 2.5" v.c.
Horizontal Directivity	Dependent on Focus Preset
Vertical Directivity	Dependent on Focus Preset
Amplifier	400 W RMS Class-D Digipro® G3
Cooling	Passive Convection
Power Supply	Auto-range SMPS
Controller	DSP 28/56 bit
AD/DA Converter	24 bit/48 kHz
Limiter	Peak, RMS, Thermal
Processing (filters)	FIR Linear phase
Signal Input	1x XLR female, 1 x RJ45 Link (RDNet) 1x USB Data Service
Signal Output	1x XLR male, 1 x RJ45 Link (RDNet)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Rotary Encoder (8 presets) 1x Input Sensitivity Encoder 1x Mic / line switch 1x On-LED 1x Status-LED 1x Signal-LED 1x Limiter-LED
Housing	Wooden Cabinet, Polyurea painting
Handles	1 on left side
Width x Height x Depth	450 x 165 x 480 mm (17.71 x 6.49 x 18.89 in)
Weight	13.7 kg (302 lbs)

VIO W10 is an ultra-slim wedge speaker designed to be discreetly integrated in broadcast studios, theatre stages, congress facilities and wherever an unobtrusive and versatile wedge is needed.

The 2-way system is equipped with 4x 4" neodymium HF speakers and 1x 10" woofer, placed in an exclusive anti-feedback acoustic configuration. The cabinet is driven by a 400 W RMS Digipro G3 amplifier and full remote control is enabled via RDNet and Aurora Net software.

VIO W10's wooden cabinet comes with a black polyurea finish and an exclusive front-rear-grille design which contributes to a peculiar yet discreet look, with a special attentioxn to details. In facts, an integrated handle is hidden on left side to ease transport and a special groove carved on bottom side facilitates the passage of cables under the cabinet, allowing a clean and tidy look on stage.

Focus preset

Digital Sound Processing allows a variable acoustic focus via on-board presets or via software. As a matter of fact, user can easily adapt the wedge performance to the application, choosing among 4 different options: default, close narrow, close wide, far.

Professional Active Speakers

CEC HORN TECHNOLOGY (ASYMMETRICAL VERTICAL COVERAGE)

DIGITAL STEERING COVERAGE

ELEMENT POSITION DETECTION (IR PORT)

SPEAKERS WITH NEODYMIUM MAGNET

OLED DSP INTERFACE

UNIQUE SPEAKER LOCK SYSTEM

Cutting-edge technology with inspired ideas

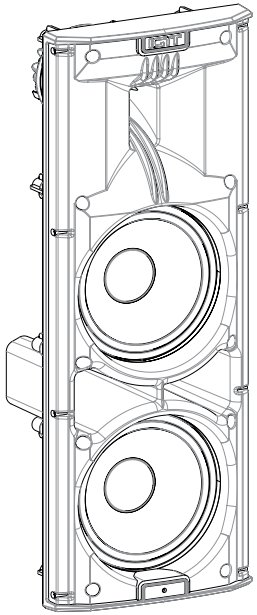
The current panorama of active speakers with digital processing offers a significant amount of products with more or less advanced technologies and cutting-edge features. But It's only when those technologies are combined with inspired ideas that products are really able to change the scenario. That's exactly what INGENIA represents: a new synthesis of knowledge in acoustics, mechanics, power electronics, DSP programming and innovative materials combined to realize a simple idea: a range of portable active speakers compact, modular, flyable, with a user-friendly interface, able to recognize the presence of a second stacked speaker or a subwoofer and automatically setup to ensure best coverage, acoustic coherence and high sound pressure.

INGENIA is not a simple active speaker, not a column system, not a conventional line array. INGENIA is simply INGENIA: a new way of thinking about sound reinforcement in any kind of situation.

Professional Active Speakers

INGENIA Series

The INGENIA series consists of four models with a power ranging from 400W to 900W. They are equipped with premium low frequencies transducers: 6.5" for IG1T and IG4T, 8" for IG2T and 10" for IG3T. Compression drivers range from 1" for IG1T and IG2T to 1.4" for IG3T and IG4T.



CEC

CEC - Controlled Energy Coverage: new horn concept

The horn of INGENIA is horizontally symmetric and vertically asymmetric. The horizontal dispersion is wide and constant; the vertical dispersion is narrow in the upper part and wide in the lower. This is because the INGENIA speakers are designed to work in single or stacked configuration with the two horns coupled one upon the other by overturning the upper speaker on the lower one.

Digipro® G3 Amp Modules

All models comes with the new generation of exclusive digital amplifiers Digipro® G3, which deliver a power that you can't expect from such a small amplifier. They also features an exceptionally lightweight design, SMPS technology with PSU auto-range and a very remarkably efficiency so that there is no need of cooling fans.

User-Friendly Interface

The INGENIA series is incredibly simple to set up. Just connect the speaker to mains through the new Neutrik® NAC3PX on rear panel, connect the audio using the balanced XLR connectors, select MIC or LINE input, adjust the volume and you're done. Leave everything else to the powerful DSP.

Configuration Wizard

The advanced interface guides the user since he turns on the speaker, asking for information on the use and the type of configuration he is going to use. The system automatically sets up, in order to quickly meet the demand. Of course he can change all the choices made at any time by either restarting the wizard, or manually changing the specific parameter.
The system even allows you to choose from a variety of configurations with one or more INGENIA speakers and combinations with one or more subwoofers, choosing among several dBTechnologies subwoofer presets.

Professional Active Speakers

INGENIA

A powerful processing

Behind the simple interface there is a cutting-edge processing, which manages mixer, power amplifiers, coverage steering and customize many other functions such as EQs, levels as well as all input devices. The OLED display, visible even in the sunlight, is mounted behind an elegant smoked screen and provides all the necessary information to the total system control. All editing operations are carried out through a single rotary encoder with switch, making them extremely easy and error-free.

As mentioned above, the INGENIA is equipped with the new Neutrik® NAC3PX mains connector that provides a safe connection with secure locking system. The integrated USB mini port allows the user upgrade the firmware of the INGENIA, ensuring that the speaker is always updated to the latest version (download from www.dbtechnologies.com).

Digital steering coverage

This is not the first time that dBTechnologies R&D designs speakers with asymmetric horns. Even on the famous OPERA series were adopted technical solutions of this type, but now the mechanical design of the waveguide is supported by a sophisticated processing in order to steer the coverage depending on the presence or not of the second speaker. The result is to ensure maximum intelligibility and transparency in the whole frequency range.

EPD

EPD - Element Position Detection

But now some questions arise: how to instruct the DSP of INGENIA that there is a speaker on it, that this speaker is the right one and that is correctly stacked? Infrared technology offers the solution.

Infrared Communication

The INGENIA speakers are equipped with an 'infrared-core handle' on top, which contains a system of infrared communication. When a second INGENIA speaker is stacked on another, there is a quick exchange of information between the two DSPs: the first becomes the master, the second the slave.

Self-rotating display

Since the INGENIA speakers are made to work in 'reversed stacked configuration', the OLED display is equipped with a self-rotation device that feels when the speaker is upside down, ensuring maximum intelligibility in every position, thanks to an integrated accelerometer.

This infrared detection system does not suffer the presence of sunlight, so it can be used safely in any outdoor environment without any lack of communication.

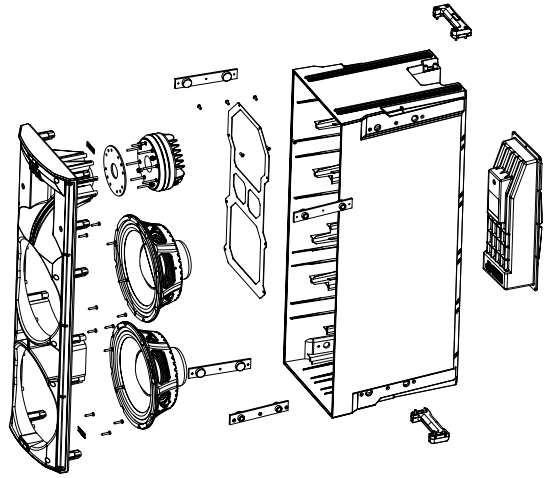
Control Mirroring

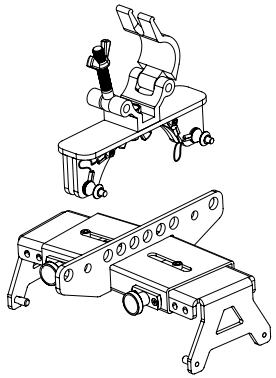
When two INGENIAs are used in stacked configuration, the speakers work as a unique system. Volume and DSP processing are unified. In other words, when the user turns the volume up or down on the master speaker, this change will automatically be mirrored on the slave.

Lightweight and heavy-duty enclosure

The housing is made with a new type of reinforced polypropylene that has a very elegant look and a fine finish. The enclosure surface is then immune to knocks and scratches and fully resistant to water and moisture. Internally, there is an aluminium reinforcing structure that, in addition to dampen vibrations and enhance the acoustic characteristics of the speaker, greatly improves the box toughness. Finally there is a hardware metal reinforcement for the flybar hidden inside the cabinet.

A magnetic rain cover is also available, in order to rapidly protect the speaker from rain, especially in outdoor events, whether the speaker is upright or upside down.





Speakers with neodymium magnet

All transducers in the INGENIA series feature neodymium magnets, improving reliability, performance and contributing to contain the overall weight of these modules. The weights, despite the huge technology contained in these speakers, range from 10.8Kg (23.81lbs.) of IG1T to 20.8Kg (45.86lbs.) of IG3T, making the INGENIA absolutely portable and easy to handle.

Flying configuration

All INGENIA speakers are equipped with a pole-mounting hole (D36mm). But in addition to the use on pole or speaker stand, there is a new flybar (DRK-IG) adaptable to all speakers of the series. This bar allows the user to hang up to two speakers in vertical array. Of course in this case two linking plugs are needed. Then the user will choose the appropriate processing preset and the DSP will set up everything so that you get all benefits of a line source system. Finally there is an additional accessory to mount the flybar to truss couplers and thus locking the aiming even in case of wind.

Unique speaker lock system

The locking system of the INGENIA is extremely rugged and reliable and the LP-IG accessory fits all the 4 INGENIA models. Moreover, to ensure the speakers to be perfectly aligned before locking the clamps, there are some feet and recessions on the top and the bottom of the enclosure. This solution avoids incorrect operations in any way and ensures perfect alignment, maximum safety and a longer life of the mechanical parts.

	IG1T	IG2T	IG3T	IG4T
Speaker Type	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
Frequency Response [- 10dB]	85 - 20.000 Hz	59- 20.000 Hz	53 - 20.000 Hz	74- 20.000 Hz
Frequency Response [- 6dB]	92 - 19.200 Hz	63- 19.200 Hz	57- 19.200 Hz	88 - 19.200 Hz
Max SPL	128 dB	128 dB	132 dB	132 dB
HF	1"	1"	1.4"	1.4"
HF voice coil	1.4"	1.4"	3"	3"
Directivity (HxV)	100° x 80° (+15°/- 65°)	100° x 80° (+15°/- 65°)	110° x 90° (+20°/- 70°)	110° x 90° (+20°/- 70°)
HF Type	Neodymium compression driver	Neodymium compression driver	Neodymium compression driver	Neodymium compression driver
Horn	Vertical asymmetric	Vertical asymmetric	Vertical asymmetric	Vertical asymmetric
Crossover Frequency	2100 Hz	1900 Hz	1100 Hz	1100 Hz
LF	2x 6.5"	2x 8"	2x 10"	4x 6.5"
LF voice coil	1.5"	2"	2.5"	1.5"
LF Type	Neodymium	Neodymium	Neodymium	Neodymium
Amp Technology	Digipro® G3	Digipro® G3	Digipro® G3	Digipro® G3
Amp Class	Class-D	Class-D	Class-D	Class-D
RMS Power	400 Watt	400 Watt	900 Watt	900 Watt
Peak Power	800 Watt	800 Watt	1800 Watt	1800 Watt
Controller	DSP 28/56 bit	DSP 28/56 bit	DSP 28/56 bit	DSP 28/56 bit
AD/DA converter	24bit/48kHz	24bit/48kHz	24bit/48kHz	24bit/48kHz
DSP Settings	Acoustic correction, HPF, Anti-feedback filters, delay	Acoustic correction, HPF, Anti-feedback filters, delay	Acoustic correction, HPF, Anti-feedback filters, delay	Acoustic correction, HPF, Anti-feedback filters, delay
Limiter	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal
User Interface	OLED display + rotative knob w/switch	OLED display + rotative knob w/switch	OLED display + rotative knob w/switch	OLED display + rotative knob w/switch
Self-rotating display	Yes	Yes	Yes	Yes
Positioning	EPD (Element Position Detection)	EPD (Element Position Detection)	EPD (Element Position Detection)	EPD (Element Position Detection)
Advanced Features	Yes	Yes	Yes	Yes
Input	1 x Combo (XLR + TRS) 1 x PowerCON TRUE1	1 x Combo (XLR + TRS) 1 x PowerCON TRUE1	1 x Combo (XLR + TRS) 1 x PowerCON TRUE1	1 x Combo (XLR + TRS) 1 x PowerCON TRUE1
Output	1 x XLR link 1 x PowerCON TRUE1	1 x XLR link 1 x PowerCON TRUE1	1 x XLR link 1 x PowerCON TRUE1	1 x XLR link 1 x PowerCON TRUE1
USB connector	mini USB	mini USB	mini USB	mini USB
Housing	Polypropylene PP reinforced	Polypropylene PP reinforced	Polypropylene PP reinforced	Polypropylene PP reinforced
Grille	FULL /Invisible screws	FULL/Invisible screws	FULL/Invisible screws	FULL/Invisible screws
Flyable	Yes	Yes	Yes	Yes
Handles	1x on top / 1x on bottom	1x on top / 1x on bottom	1x on top / 1x on bottom	1x on top / 1x on bottom
Pole Mount	Standard D36mm	Standard D36mm	Standard D36mm	Standard D36mm
Width	195 mm (7.68 in)	228 mm (8.98 in)	280 mm (11.02 in)	195 mm (7.68 in)
Height	536 mm (21.10 in)	646 mm (25.43 in)	806 mm (31.73 in)	956 mm (37.64 in)
Depth	271 mm (10.67 in)	315 mm (12.40 in)	393 mm (15.47 in)	271 mm (10.67 in)
Weight	10.8Kg (23.81 lbs.)	12.8Kg (28.22 lbs.)	20.8Kg (45.86 lbs.)	18.2Kg (40.12 lbs.)

Line array technology has revolutionized sound reinforcement, particularly for large venues and events. Arraying several speaker cabinets vertically is a far more effective method of delivering and directing sound. Line array's signal levels do not drop off as steeply with increasing distance as is the case with conventional systems. What's more, their patterns of throw are very wide despite the systems' lean configurations. Until recently this technology saw limited use mainly in large, elaborate, and costly projects and installations. But with arrival of DVA, true line array technology is now available for a wide range of portable and permanent sound reinforcement applications.

Factoring all the many different parameters and users' needs into the design equation, the dBTechnologies team of engineers developed a line array system that is easy to configure, exceedingly light, and tremendously versatile. What's more, the managed to take all these vital criteria into account without imposing limits on curving capacity and the number of arrayed components. Called DVA, this system makes the most of line array technology's considerable audio benefits.

Leveraging state-of-the-art technologies, materials, and many years experience developing powered speaker systems, dBTechnologies has turned up a line array series that raises the performance bar for handling, versatility, and return on investment.

dBTechnologies has a competitive edge. Our engineers' deep insight into power electronics, DSP programming, acoustics, mechanics, materials, and manufacturing practices enables us to independently develop innovative solutions in each of these areas. Such comprehensive R&D proficiency puts us in a unique position: we are able to transform inspired ideas into premium-quality products that deliver outstanding performance at an unrivalled price-point.

The DVA series stands as a shining example of this all-around ability. Nowhere are the benefits of integrated amps, active crossovers, and processor-driven control more apparent than in DVA three-way line array units.

3-WAY ACTIVE / *Line Array Module*

DVA T12

The global group of dBTechnologies companies develops and manufactures individual speaker components autonomously, and often specifically for the given application. We do not subscribe to the practice of equalizing and optimizing speakers with elaborate technology to bring them up to our standards. Instead, it has been our long-standing policy to build from the bottom up components with specs tailored to deliver the best audio performance for the application.

DVA T12 is a step up the evolutionary ladder from the successful DVA T4 line array system. Although it provides more power and has greater range, its active three-way design makes it just as easy to set up and install as its predecessor.

■ ***Full of*** *Technology*

LONG-THROW SYSTEM

FULLY POWERED 3-WAY UNIT

FREELY SCALABLE TO SETUPS OF ANY SIZE

LOSSLESS SIGNAL PATH WITH NO NEED FOR SPEAKER CABLES

SEQUENTIALLY CONFIGURABLE ARRAY SEGMENTS

HIGH-END DIGITAL CONTROLLER (DSP) ON BOARD

NETWORK-READY WITH AN INTEGRATED RDNET PORT

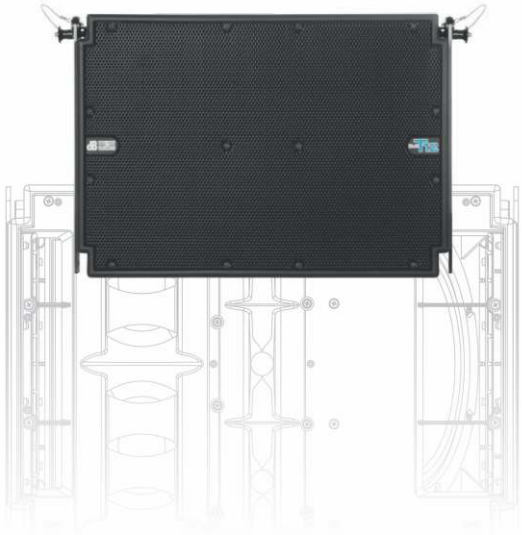
HARDWARE COMPATIBLE WITH DVA T8 AND T4 SYSTEMS

DVA T12

DVA T12

The DVA T12 features state-of-the-art neodymium speakers and high-performance digital amps with total of 1,410W output power.

In combination with top-drawer DSP and premium quality AD-DA converter, it delivers high-definition sonic images with massive SPL for large sound reinforcement applications.



Weighing just 29kg (63.93 lbs), this remarkably compact unit belies its unobtrusive look by enabling you to set up very powerful line arrays that deliver extraordinary performance.

Technical Data

Speaker Type: 3-Way Active Line Array Module

Acoustical data

Frequency Response [- 6dB]: 60 - 19.000 Hz
Max SPL: One Unit: 136 dB
HF: 3x1"
Voice Coil HF: 1.4"
MF: 2x 6.5"
Type MF: Neodymium Sealed Basket Phase Plug Horn Loaded
Voice Coil MF: 2"
LF: 12"
Type LF: Neodymium
Voice Coil LF: 3"
Directivity: 100x10° Single unit

Amplifier

Amp Technology: Digipro® G2
Amp Class: Class-D
RMS Power: 1410 W
Peak Power: 2820 W
HF Amp: 350 W RMS (700 W Peak)
MF Amp: 350 W RMS (700 W Peak)
LF Amp: 710 W RMS (1420 W Peak)
Cooling: Convection

Processor

Controller: DSP 28/56 bit
AD/DA Converter: 24 bit/96 kHz
System Presets: 9 (8x HF/Low-mid correction)
Limiter: Dual Active Limiter Multiband RMS, Peak, Thermal
Crossover Frequency MF-HF: 1800 Hz
Slope MF-HF: 24 dB/Octave
Crossover Frequency LF-MF: 420 Hz
Slope LF-MF: 24 dB/Octave

Input/Output Section

Signal Input: 1x XLR fem. Bal.
Signal Output: 1x XLR male. Bal.
Network: RDNet remote control RJ45 connector IN/OUT
Power Socket: 1x PowerCon In 1x PowerCon Out
Voltage Range: 90 - 240 V~

Mechanics

Housing: Polypropylene PP Aluminium reinforced
Housing Design: Trapezoidal 10°
Rain cover: Included
Rigging Points: Integrated rigging hardware
Width: 580 mm (23.2 in)
Height: 386 mm (15.44 in)
Depth: 430 mm (17.2 in)
Weight: 29.9 kg (63.93 lbs)

Ground stacks

DRK-10 and DRK-20 harnesses can also serve to stack cabinets on the ground when rigging points are unavailable or the ceiling is too low. A special bracket adjusts the inclination down to 7.5°. The DRK-10/20 fits perfectly on an upright DVA S30 subwoofer. Equipped with two receptacles for quick-release pins, it is readily attached without tools.

The DVA S30 subwoofer sports two 18" speakers, a bass reflex horn, a 3000W power amp, and an internal DSP. (To learn more about it, see the chapter entitled Active Subwoofer).

✦ LINE ARRAY BENEFITS IN GROUND-STACKED CONFIGURATIONS

Compatible with DVA T8

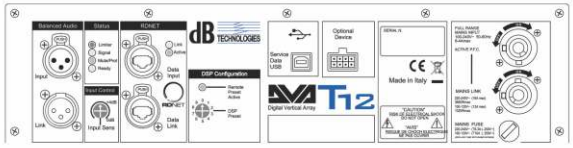
DVA T12 and DVA T8 series housings and rigging hardware are compatible.

This means DVA T8 units may be flown right below a T12 array for use as down-fills in large PA systems.

✦ COMPATIBLE DVA T8'S MAY SERVE AS FAR-FILL EXTENSIONS

Simple system configuration & networked remote control

Presets containing gain structure and EQs for the near-field/mid-field and far-field positions can be easily selected using the rear mounted rotary encoder or via RDNet protocol with Aurora Net software. This application also allows complete surveillance and control of the system assuring best performance and total safety.



3-WAY ACTIVE / *Line Array Module*

DVA T8

DVA T8 is the most advanced incarnation of a string of successful line array systems that started with the DVA T4. Loaded with state-of-the-art neodymium woofers, the DVA T8 features a high-performance digital power amp with 700W RMS total output, a high-end 28/56-bit DSP, and premium-quality AD-DA converters.

These superior components come together to deliver superior audio quality and high SPL. Remarkably easy to handle, this lightweight, 14.2kg line array's powerful performance belies its look of subdued elegance and small footprint.

It's hard to believe that something so petite can pack such a mighty punch.

■ ***Full of*** *Technology*

3-WAY ACTIVE WITH A 700W/RMS DIGITAL POWER AMP

HIGH-END 56-BIT DSP ON BOARD

96 KHZ SAMPLING RATE

NETWORK-READY WITH AN INTEGRATED RDNET PORT

SIX MODULES CONNECTED TO ONE 16A PHASE PLACE

LOSSLESS SIGNAL PATH WITH NO NEED FOR SPEAKER CABLES

ACOUSTICALLY COMPATIBLE WITH THE DVA T12

MECHANICALLY COMPATIBLE WITH THE DVA T12

DVA T8

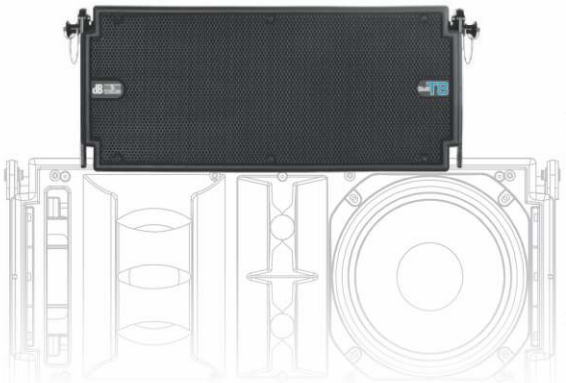
DVA Series

▶ DVA T8

Top Performance Paired with Total Control

The DVA T8 is a fully active, three-way speaker system equipped with the same innovative technologies that feature so prominently in the DVA T12.

Its power supply, DSP, power amps, woofers and drivers were all developed and painstakingly tuned specifically for the dBTechnologies team of engineers.



Precise directivity

The DVA T8 sports constant directivity horns, HF drivers, and midrange woofers optimized to deliver a uniform 100°-by-15° coverage pattern. It makes the most of two acoustical effects to help distribute SPL evenly.

One is the vector addition of individual horns' output; the other is cylindrical wave formation. These two effects come together to create a uniform coverage pattern that is easily adapted to different venues by varying the length of the array and adjusting the splay between individual components.

+ UNIFORM COVERAGE PATTERN
+ EVENLY DISTRIBUTED SPL

■ *Technical Data*

Speaker Type: 3-Way Active Line Array Module

■ *Acoustical data*

Frequency Response [- 6dB]: 66 - 18.000 Hz
Max SPL: One Unit: 132 dB
HF: 2x 1"
Voice Coil HF: 1.4"
MF: 1x 6.5"
Type MF: Neodymium Sealed Basket Phase Plug Horn Loaded
Voice Coil MF: 2"
LF: 8"
Type LF: Neodymium
Voice Coil LF: 2.5"
Directivity: 100x15° Single unit

■ *Amplifier*

Amp Technology: Digipro® G2
Amp Class: Class-D
RMS Power: 700 W
Peak Power: 1400 W
HF Amp: 175 W RMS (350 W Peak)
MF Amp: 175 W RMS (350 W Peak)
LF Amp: 350 W RMS (700 W Peak)
Cooling: Convection

■ *Processor*

Controller: DSP 28/56 bit
AD/DA Converter: 24 bit/96 kHz
System Presets: 9 (8xHF and Low-mid correction)
Limiter: Dual Active Limiter Multiband RMS, Peak, Thermal
Crossover Frequency MF-HF: 1900 Hz
Slope MF-HF: 24 dB/Octave
Crossover Frequency LF-MF: 400 Hz
Slope LF-MF: 24 dB/Octave

■ *Input/Output Section*

Signal Input: 1x XLR fem. Bal.
Signal Output: 1x XLR male. Bal.
Network: RDNet remote control RJ45 connector IN/OUT
Power Socket: 1x Powercon In + 1x Powercon Out
Voltage Range: 90 - 240 V~

■ *Mechanics*

Housing: Polypropylene PP Metal reinforced
Housing Design: Trapezoidal 15°
Rain cover: Included
Rigging Points: Integrated rigging hardware
Width: 580 mm (23.2 in)
Height: 240 mm (9.6 in)
Depth: 327 mm (13.08 in)
Weight: 14.2 kg (31.3 lbs)

DVA T8

Extraordinary dynamic range and natural sound

The DVA T8's signal processors and AD/DA converters were engineered to achieve transcendent sound quality with great fidelity and dynamic range with 56-bit digital signal processing at a sampling rate of 96 kHz.

DSPs equalize every signal path, aligning phases and time, and handle loads with digital peak, RMS, and thermal limiters to maximize operating safety, power management and performance even at threshold levels.

- EXCELLENT AUDIO SPECS
- PERFECT SYSTEM EQUALIZATION

Easy setup - configuration at the touch of a button

The DVA T8's DSP offers eight system presets that adapt the unit to its assigned task in the array.

They adjust the gain structure and EQ for the near-field/midfield and far-field positions to compensate for high frequencies absorbed by air as well as for low/midrange frequency coupling as the array length increases. No further manual adjustments are necessary. All presets may be selected using the rear-mounted rotary encoder or downloaded from a PC using RDNet software.

- SIMPLEST SYSTEM CONFIGURATION
- VERY FAST SETUP

SMPS with PFC for consistently superb performance

The DVA T8's power supply consists of independent networked devices. Incorporating the latest IT technology, it was engineered to maximize operating safety, efficiency, and performance.

The main 750W power supply provides plenty of juice to the power amps and features PFC (power factor correction). A secondary power supply feeds the microcontrollers and the DSP, and serves to ramp up check routines and the main power supply. The smart IPOS™ (Intelligent Power-On Sequence) circuit keeps the overall system's inrush current low.

- WIDE-RANGE 90-TO-240V SMPS POWER SUPPLY WITH PFC
- IPOS™ CIRCUIT FOR LOW INRUSH CURRENT

Handling, Stacking and Flying Cabinets

The DVA T8 comes with built-in rigging hardware. The splay between enclosures may be adjusted in incrementally from 0° to 15°. The DRK-10 harness holds up to 16 flown T8 units. At just 14.2 kg, the DVA T8 is exceptionally light so an array with six elements weighs less than 100 kg. This is an advantage greatly appreciated by everyone who handles and transports the array.

A single person can rig up and fly the system, even from trusses and towers rated to handle lighter loads.

- VERY LIGHT POINT LOAD
- PRECISE ALIGNMENT
- DRK-10 HARNESS FLIES UP TO 16 UNITS

HIGH PERFORMANCE / *Subwoofer Systems*

DVA SUBS

DVA bass bins are loaded with state-of-the-art, high-performance subwoofers.

Equipped with powerful woofers, featuring voice coils ranging to up to 4" diameters, these units' load handling capacity is extremely high, and their transient response is remarkably faithful.

The dual ventilation system minimizes heat buildup and power compression while helping to maximize loading handling capacity and reliability.

The woofers feature a fiberglass-reinforced diaphragm, an exceedingly robust triple-roll surround, and a geometrically optimized cone. All this culminates in peak-to-peak excursion capabilities ranging up to 48 mm.

Full of *Technology*

VARIABLE CROSSOVER FREQUENCIES

These subwoofers are driven by digipro® G2 digital power amps with up to 3000W output. Digipro® G2 technology is so very efficient that it does not require fans. With no moving parts to tend to, these amps are altogether maintenance-free.

PRECISE LIMITER FUNCTIONS

Equipped with PFC switched-mode power supplies, they are largely impervious to line voltage fluctuations, which is a tremendous asset in a touring rig.

ON BOARD DELAY FOR PERFECT TIME ALIGNMENT

Our network-enabled DVA subwoofers are designated by an "N" in the product name. They feature a premium-quality DSP boasting excellent audio specs with variable crossover frequencies, precise limiter functions and adjustable delay settings for perfect time alignment.

PRESET FOR CONFIGURING CARDIOID SYSTEMS

A special preset makes it easy to set up cardioid systems with enhanced directivity. Settings are readily adjusted using the rear-mounted rotary encoder. The DSP also provides an X-Over output for connecting satellites (in stereo on S08 and S09 units).

SETTINGS ACCESSIBLE VIA A ROTARY ENCODER

Factory-equipped with an RDNet port, these subwoofers are ready for integration into elaborate, remotely controlled and monitored DVA T12 sound reinforcement systems via RJ45 inputs and outputs that connect the units to the RDNet hub.

X-OVER OUT

Made of sturdy multiplex covered in robust black textured lacquer, the subwoofer housing is fronted with a rugged speaker grille. The enclosure is easy to tote with its comfortable carrying handles.

RDNET NETWORK PORT

Optional dust covers protect it on the go. With 16 threaded bushings each on their rear panels, the S09, S10, S30N, S1518N, 1521N and S20 bins are ready to accept Blue Wheels. Retrofitted with the appropriate fly kit, S09, S10, 1518N and 2585N subwoofers are easily rigged and flown.

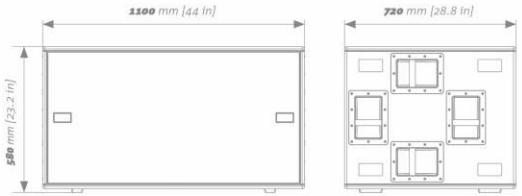
DVA S30 N

DVA S30 N Subwoofer, 2x 18" Bassreflex Horn Loaded

Featuring a dual 18" subwoofer pairing in a bass reflex housing, the DVA S30 packs a muscular, ultra lowfrequency punch.

It delivers very powerful performance indeed with a range extending down to the lowest frequencies.

This sub-bass powerhouse is the perfect addition to large PAs and an excellent complement to DVA T12 mid-/high-range units in stacked arrays.



Bass reflex horn housing

This sophisticated hybrid design brings together the benefits of bass reflex and horn systems in a compact housing engineered to render low frequencies with high SPL.

The two baffle boards are arrayed in the form of a V. They guide the central bass reflex channel's sound energy into the horn's port. This funneling action is smooth and uniform, greatly increasing its range.

The high-quality multiplex housing is covered in robust black textured lacquer and equipped with eight carrying handles.

On the back is a transport dolly that removes easily via quick-release pins to keep the wheels from rattling.

Technical Data

Speaker Type: Active Bassreflex-Horn Subwoofer

Acoustical data

Frequency Response [+/-3dB]: 30 - 120 Hz
Max SPL: 141 dB
Directivity: Omnidirectional,
Cardiod Option with DSP setup
LF: 2x18"
Voice Coil LF: 4"

Amplifier

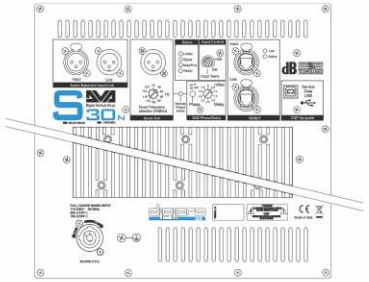
Amp Technology: Digipro® G2
Amp Class: Class-D
Power Supply: 3 kW SMPS with PFC
RMS Power: 3000 W
Peak Power: 6000 W
Cooling: Convection

Processor

Controller: DSP 28/56 bit
AD/DA Converter: DSP 24 bit/96 kHz
System Presets: X-Over, Delay
Phase: 0, 180°
Limiter: RMS, Peak, Thermal
Delay Option: 0-4.5 ms internal
Crossover Frequency LF-HF: 75-120Hz|steps of 5Hz
LF-Xover out slope: 24 dB/Octave

Mechanics

Housing: Multiplex plywood
Housing Design: Rectangular
Handles: 4x Per Side
Accessory: Dolly, Wheels 100mm,
Dust Cover, Rain Cover
Rigging Points: 2xPick Points on top to fix
DRK10/20 rigging frames
Width: 1100 mm (44 in)
Height: 580 mm (23.2 in)
Depth: 720 mm (28.8 in)
Weight: 83 kg (182.98 lbs)



DVX DM28

Stage Monitor

Unlike conventional multifunctional speakers, the DVX DM is a prograde 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 on-board 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.

Specially designed, rotatable high-frequency horns provide very clean and constant directivity. By rotating the horn, the directivity of high frequencies can be adjusted, no matter if the cabinet is mounted horizontally or vertically.

A great and professional feature for fixed install purposes or when a multifuntional speaker is used as stage monitor.

Technical Data

Speaker Type: 2-Way Active Stage Monitor

Acoustical data

Frequency Response [- 10dB]: 60 - 20.000 Hz
Frequency Response [- 3dB]: 70 - 19.000 Hz
Max SPL: 130 dB
HF: 1"
Type HF: Neodymium Compression Driver
Voice Coil HF: Titanium 1.75"
Directivity: 60/40x90°
Horn: Asymmetrical
LF: 2x8"
Type LF: Neodymium
Voice Coil LF: 2.5"

Amplifier

Amp Technology: Digipro®
Amp Class: Class-D
RMS Power: 750 W
Peak Power: 1500 W
Cooling: Convection

Processor

Controller: DSP 24 Bit/48 kHz
System Presets: Flat, Monitor
Limiter: RMS, Peak, Thermal, Multiband
Crossover Frequency MF-HF: 1600 Hz
Slope MF-HF: 24 dB/Octave

Mechanics

Housing: Multiplex plywood
Housing Design: Low Profile Multifunctional
Angles Up: 30°, 60°
Width: 480 mm (19.2 in)
Height: 265 mm (10.6 in)
Depth: 418 mm (16.72 in)
Weight: 14 kg (30.86 lbs)

DVX DM12

Technical Data

Speaker Type: 2-Way Active Stage Monitor

Acoustical data

Frequency Response [- 10dB]: 55 - 20.000 Hz
Frequency Response [- 3dB]: 68 - 19.000 Hz
Max SPL: 131 dB
HF: 1.4"
Type HF: Neodymium Compression Driver
Voice Coil HF: Titanium 2.5"
Directivity: 40x90°
Horn: CD Horn Aluminium
Rotatable Horn: YES
LF: 12"
Type LF: Neodymium
Voice Coil LF: 3"

Amplifier

Amp Technology: Digipro®
Amp Class: Class-D
RMS Power: 750 W
Peak Power: 1500 W
Cooling: Convection

Processor

Controller: DSP 24 Bit/48 kHz
System Presets: Flat, Monitor
Limiter: RMS, Peak, Thermal, Multiband
Crossover Frequency MF-HF: 1350 Hz
Slope MF-HF: 24 dB/Octave

Mechanics

Housing: Multiplex plywood
Housing Design: Low Profile Multifunctional
Angles Up: 35°, 55°
Rigging Points: 6x M10 4x Quick-Release Pins
Width: 660 mm (14.8 in)
Height: 305 mm (25 in)
Depth: 378 mm (15.8 in)
Weight: 17.5 kg (55.12 lbs)

DVX DM15

Technical Data

Speaker Type: 2-Way Active Stage Monitor

Acoustical data

Frequency Response [- 10dB]: 50 - 20.000 Hz
Frequency Response [- 3dB]: 59 - 19.000 Hz
Max SPL: 132 dB
HF: 1.4"
Type HF: Neodymium Compression Driver
Voice Coil HF: Titanium 2.5"
Directivity: 40x60°
Horn: CD Horn Aluminium
Rotatable Horn: YES
LF: 15"
Type LF: Neodymium
Voice Coil LF: 3.5"

Amplifier

Amp Technology: Digipro®
Amp Class: Class-D
RMS Power: 750 W
Peak Power: 1500 W
Cooling: Convection

Processor

Controller: DSP 24 Bit/48 kHz
System Presets: Flat, Monitor
Limiter: RMS, Peak, Thermal, Multiband
Crossover Frequency MF-HF: 1320 Hz
Slope MF-HF: 24 dB/Octave

Mechanics

Housing: Multiplex plywood
Housing Design: Low Profile Multifunctional
Angles Up: 35°, 55°
Rigging Points: 6x M8
Width: 734 mm (29.36 in)
Height: 338 mm (13.52 in)
Depth: 442 mm (17.68 in)
Weight: 21 kg (46.3 lbs)

FLEXSYS FMX

FLEXSYS **FMX10**
FLEXSYS **FMX12**
FLEXSYS **FMX15**

Coaxial Active Stage Monitors

ACTIVE 2-WAY STAGE MONITOR

COAXIAL CONFIGURATION

LINEAR PHASE FIR FILTERS

ULTRA-PRECISE DIRECTIVITY

ROTATABLE HORN (90°x60° OR 60°x90° DISPERSION)

FRONT-REAR GRILLE DESIGN

INTEGRATED HANDLE ON BOTTOM SIDE

FIR FILTERS
DSP PROCESSING

Coaxial Active Stage Monitors

Active Coaxial Stage Monitors

A new generation for flagship wedge Flexsys; FMX series encompasses a range of tailored monitoring solutions featuring coaxial design, precise dispersion pattern, last-generation sound processing with linear phase FIR Filters and maximum adaptability to the needs of every performer.

FMX is an active 2-way coaxial stage monitor series available in 3 models (10", 12" and 15") equipped with 800 Peak (for FMX 10) or 1200 Peak (for FMX 12 and 15) Class D amplifiers.

The wedge's coaxial acoustic design, together with its custom horn design and its advanced DSP featuring linear phase FIR filters, provides an even, highly-intelligible sound.

In facts, FMX's horn design allows a very precise dispersion pattern (60° horizontal and 90° vertical) which can be easily reversed (90° horizontal and 60° vertical) by rotating the horn, adapting the wedge to the habits of the user.

Moreover, 8 on-board presets optimize EQ for different needs making FMX a skilfull yet easy-to-use tool for performers of every kind.

All wedges of the series feature a peculiar front-rear grille design, a single handle integrated on the bottom side of the plywood cabinet and a 36mm pole mount on side panel which further enhance FMX's versatility.

	FLEXSYS **FMX10**	FLEXSYS **FMX12**	FLEXSYS **FMX15**
Speaker Type	2-Way Active Coaxial Stage Monitor	2-Way Active Coaxial Stage Monitor	2-Way Active Coaxial Stage Monitor
Frequency Response [- 10dB]	57 - 19.000 Hz	52 - 19.000 Hz	46 - 19.000 Hz
Max SPL	125 dB	128 dB	128 dB
HF	1"	1"	1"
HF voice coil	1"	1.3"	1.3"
Directivity	60° x 90°	60° x 90°	60° x 90°
Horn	rotatable	rotatable	rotatable
LF	10"	12"	15"
LF voice coil	2"	2"	2"
Amp Class	Class-D	Class-D	Class-D
Peak Power	800 W	1200 W	1200 W
Controller	DSP 28/56 bit	DSP 28/56 Bit	DSP 28/56 Bit
AD/DA Converter	24bit/48kHz	24bit/48kHz	24bit/48kHz
System Presets	8 presets	8 presets	8 presets
Limiter	Peak, Thermal, RMS	Peak, Thermal, RMS	Peak, Thermal, RMS
Advanced DSP Function	FIR Filters	FIR Filters	FIR Filters
Crossover Frequency	1800 Hz	1740 Hz	1740 Hz
Slope LF-HF	24dB/oct	24dB/oct	24dB/oct
Housing	Plywood	Plywood	Plywood
Housing Design	Multifunctional	Multifunctional	Multifunctional
Handles	1 integrated on bottom side	1 integrated on bottom side	1 integrated on bottom side
Pole mount	Ø 36 mm	Ø 36 mm	Ø 36 mm
Width	390 mm (15.35 in)	465 mm (18.30 in)	500 mm (19.68 in)
Height	268 mm (10.55 in)	297 mm (11.69 in)	340 mm (13.38 in)
Depth	411 mm (16.18 in)	444 mm (17.48 in)	500 mm (19.68 in)
Weight	11.3 kg (24.9 lbs)	13.9 kg (30.6 lbs)	16.9 kg (37.2 lbs)

Professional Active Speakers

1200 W PEAK POWER

NEWLY DESIGNED ASYMMETRICAL HORN

ADVANCED DSP WITH FIR PROCESSING

2 INPUT CHANNELS (MIC-LINE/MIC-INSTR)

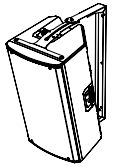
SELECTABLE OUTPUT CHANNEL (LINK CH1/MIX CH 1+2)

8 EQ PRESETS

FIR FILTERS
DSP PROCESSING

Being for many years dBTechnologies' flagship, the celebrated Opera series left a powerful footprint in sound reinforcement history. Now dBTechnologies makes the history evolve, getting back to basics with these three brand new 10", 12" and 15" professional powered speakers.

Exceptional power and a unique acoustic design combined in order to deliver a vigorous yet pristine sound, successfully adaptable to both playback and live music applications. With new OPERA series, dBTechnologies succeded once again in packing leading edge DSP processing, advanced design features and user friendliness in an unrivalled cabinet in its price range.



Unrivalled power and design at the service of performers

Opera's asymmetrical horn, which dramatically contributed to the success of the series, has been completely redesigned in order to obtain both an asymetrical vertical dispersion and a double horizontal dispersion, ensuring an optimized throw pattern.

All 3 models of the series are equipped with a powerful Class D 600 W amplifier featuring advanced DSP processing where FIR filters allow the systems to deliver a coherent audio performance, uniform and crystal-clear from every listening position, thanks to an extremely flat phase responce.

Professional Active Speakers

A stellar audio performance sets the stage for success

All models features 2 input channels (allowing live performers to use the system both for vocals and instruments or vocals and playback music), 2 selectable output channels (LINK CH 1 or MIX CH 1+2) and 8 preset equalizations which adapts to the most different environments, making OPERA the perfect companion for the discerning performer.

The new functional yet polished design features a full grille, a top and a side handle easing monitoring purposes. The cabinet comes with an integrated pole mount cup allowing stacked configurations with dBTechnologies bass bins.

	OPERA 10	OPERA 12	OPERA 15
Speaker Type	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
Frequency Response [- 10dB]	58 - 20.000 Hz	52 - 20.000 Hz	50 - 20.000 Hz
Max SPL	128 dB	129 dB	130 dB
HF	1" Exit, 1.4" v.c.	1" Exit, 1.4" v.c.	1" Exit, 1.4" v.c.
Type HF	Compression driver	Compression driver	Compression driver
Horizontal Directivity	110° (85° up / 120° down)	110° (85° up / 120° down)	110° (85° up / 120° down)
Vertical Directivity	85° (+25° / -60°)	85° (+25° / -60°)	85° (+25° / -60°)
Horn	Asymmetrical Horn	Asymmetrical Horn	Asymmetrical Horn
LF	10", 2" v.c.	12", 2" v.c.	15", 2" v.c.
Amp Technology	SMPS dual range	SMPS dual range	SMPS dual range
Amp Class	Class-D	Class-D	Class-D
RMS Power	600 W	600 W	600 W
Peak Power	1200 W	1200 W	1200 W
Controller	DSP 28/56 bit	DSP 28/56 bit	DSP 28/56 bit
AD/DA Converter	24 bit / 48 kHz	24 bit / 48 kHz	24 bit / 48 kHz
System Presets	Rotary Encoder (8 presets)	Rotary Encoder (8 presets)	Rotary Encoder (8 presets)
Crossover Frequency	2000 Hz	2000 Hz	2000 Hz
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal
Advanced DSP Function	Linear Phase FIR filters	Linear Phase FIR filters	Linear Phase FIR filters
Signal Input	1x Combo (XLR-Jack 6.3 mm) MIC/Line 1x Combo (XLR-Jack 6.3 mm) MIC/Inst	1x Combo (XLR-Jack 6.3 mm) MIC/Line 1x Combo (XLR-Jack 6.3 mm) MIC/Inst	1x Combo (XLR-Jack 6.3 mm) MIC/Line 1x Combo (XLR-Jack 6.3 mm) MIC/Inst
Signal Output	1x XLR Male (Ch1 Link/Mix OUT) Selectable	1x XLR Male (Ch1 Link/Mix OUT) Selectable	1x XLR Male (Ch1 Link/Mix OUT) Selectable
Housing	Polypropylene	Polypropylene with Internal Frame	Polypropylene with Internal Frame
Grille	Full grille	Full grille	Full grille
Handles	1x Side, 1x Top	1x Side, 1x Top	1x Side, 1x Top
Rigging Points	2x M10 on Top + 1x M10 on Back	2x M10 on Top + 1x M10 on Back	2x M10 on Top + 1x M10 on Back
Pole Mount	D36 mm	D36 mm	D36 mm
Angles Up	Monitor use 45°	Monitor use 45°	Monitor use 45°
Width	300 mm (11.81 in)	350 mm (13.78 in)	420 mm (16.54 in)
Height	552 mm (21.73 in)	642 mm (25.28 in)	722 mm (28.43 in)
Depth	301 mm (11.85 in)	349 mm (13.74 in)	419 mm (16.50 in)
Weight	12.3 kg (27.12 lbs.)	14.3 kg (31.53 lbs.)	18.3 kg (40.34 lbs.)

2-Way Active Speakers

MAXIMUM EFFICIENCY UP TO 126.5 dB SPL

INNOVATIVE HORN DESIGN FOR UNIFORM AND EXTENDED COVERAGE

COMPACT FEATHERWEIGHT

CLEAN AND CONTEMPORARY DESIGN ENHANCING PORTABILITY

3 HANDLES

DOUBLE STAGE MONITOR ANGLE

PRESET EQ FLAT / BOOST

2-Way Active Speakers

Maximum amp efficiency for an assertive SPL

B·Hype series aims to provide a professional sonic performance to all kind of users, combining an extremely efficient CLASS D amplifier with aggressive sound pressure levels while delivering the most accurate sound reproduction.

Faithful and loud

The internal acoustic design features an innovative asymmetrical horn ensuring a uniform throw pattern. What's more, dBTechnologies team crafted an accurate digital sound processing, allowing users to choose between 2 preset EQ: FLAT or BOOST. This way, all B·Hype models deliver the most faithful sound performance while boosting any background music.

Sharp design and enhanced portability

B·Hype's featherweight cabinets (from 14 to 38 lbs) come with a clean and contemporary full grille design, enhancing both portability (3 handles, 1x side and 1 on top) and multifuncionality. Each cabinet can be used horizontally as a stage monitor (on both sides) and features a pole mount cup in order to be used on tripods or stacked on dBTechnologies Subs.

	B·HYPE **8**	B·HYPE **10**	B·HYPE **12**	B·HYPE **15**
Speaker Type	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
Frequency Response [- 10dB]	65 - 20.000 Hz	55 - 20.000 Hz	55 - 20.000 Hz	51 - 20.000 Hz
Frequency Response [- 6dB]	70 - 19.600 Hz	70 - 19.600 Hz	61 - 19.500 Hz	57 - 19.700 Hz
Max SPL	120 dB	121 dB	126 dB	126.5 dB
HF	1" CD, 1" v.c.	1" CD, 1" v.c.	1" CD, 1" v.c.	1" CD, 1" v.c.
LF	8", 1.5" v.c.	10", 1.5" v.c.	12", 2" v.c.	15", 2" v.c.
Horizontal Dispersion	asymmetrical 85° up / 120° down	asymmetrical 85° up / 120° down	asymmetrical 85° up / 120° down	asymmetrical 85° up / 120° down
Vertical Dispersion	85° (+25°/-60°)	85° (+25°/-60°)	85° (+25°/-60°)	85° (+25°/-60°)
Crossover Frequency	2300 Hz (24 dB/oct.)	2300 Hz (24 dB/oct.)	2100 Hz (24 dB/oct.)	2100 Hz (24 dB/oct.)
Amp Technology	Class-D	Class-D	Class-D	Class-D
Peak Power	260 Watt	260 Watt	400 Watt	400 Watt
Controller	DSP 28/56 bit	DSP 28/56 bit	DSP 28/56 bit	DSP 28/56 bit
AD/DA Converter	24 bit / 48 kHz	24 bit / 48 kHz	24 bit / 48 kHz	24 bit / 48 kHz
System Presets	Flat, Processed	Flat, Processed	Flat, Processed	Flat, Processed
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal
Housing	Polypropylene PP	Polypropylene PP	Polypropylene PP	Polypropylene PP
Handles	3 (2 on sides, 1 on top)	3 (2 on sides, 1 on top)	3 (2 on sides, 1 on top)	3 (2 on sides, 1 on top)
Angles Up	Monitor use 45°	Monitor use 45°	Monitor use 45°	Monitor use 45°
Pole Mount	Ø36 mm	Ø36 mm	Ø36 mm	Ø36 mm
Width	243 mm (9.57 in)	295 mm (11.61 in)	350 mm (13.77 in)	415 mm (16.34 in)
Height	443 mm (17.44 in)	544 mm (21.42 in)	645 mm (25.40 in)	725 mm (28.54 in)
Depth	231 mm (9.09 in)	283 mm (11.14 in)	330 mm (12.99 in)	391 mm (15.39 in)
Weight	6.6 kg (14.55 lbs.)	9 kg (19.84 lbs.)	13.9 kg (30.46 lbs.)	17.4 kg (38.36 lbs.)

Active Subwoofers

SUB 915 & SUB 918

ACTIVE BASS-REFLEX SUBWOOFERS

900W RMS DIGIPRO G3 AMP

UP TO 134 dB SPL

REAL TIME CONTROL VIA RDNET

ON-BOARD DELAY CONTROL

ON-BOARD CROSSOVER POINT CONTROL

DESIGNED TO WORK VERTICALLY OR HORIZONTALLY

INTEGRATED TOP-EDGE HANDLES

2x M20 THREADS ON TOP AND SIDE

Active Subwoofers

Complete control of low end power

Designed for ground stacked applications, SUB 900 is the perfect choice whenever a powerful lower extension is required.

Indeed, both models of the series are equipped with high-performance components housed into a bass reflex design and a CLASS D 900 W RMS amplifier.

This is why these cabinets ensures a deep, full-bodied sound in every kind of applications.

SUB 900 are equipped with a single premium woofer (15" for SUB 915 and 18" for SUB 918). A 900 W RMS Class D Digipro G3 power amplifier ensures advanced efficiency as well as forcible sound pressure levels (up to 134 dB for SUB 918).

Not only, thanks to networking capability, users are allowed to complete control of low end frequencies of their PAs. In facts, dBTechnologies' SUB 900 are ready for full remote control via RDNet and software Aurora Net.

	SUB 915	SUB 918
Speaker Type	Active Subwoofer	Active Subwoofer
Frequency Response [- 10dB]	45 to Cut Frequency (Xover dependent)	42 to Cut Frequency (Xover dependent)
Max SPL	133 dB	134 dB
LF	15"	18"
LF voice coil	4"	4"
Amp Technology	Digipro G3®	Digipro G3®
Amp Class	Class-D	Class-D
Peak Power	1800 W	1800 W
Controller	DSP 28/56 bit	DSP 28/56 bit
AD/DA Coverters	24 bit/48 kHz	24 bit/48 kHz
Limiter	Peak, Thermal, RMS	Peak, Thermal, RMS
Crossover Frequency	Variable (70Hz - 80Hz - 90Hz - 100Hz - 110Hz)	Variable (70Hz - 80Hz - 90Hz - 100Hz - 110Hz)
Controls	1x Subwoofer Attenuation Control 1x Delay Rotary 1x Xover Rotary 1x Polarity switch	1x Subwoofer Attenuation Control 1x Delay Rotary 1x Xover Rotary 1x Polarity switch
Signal Input	1x XLR Female 1x RJ45 Link (RDNet) 1x USB (data service)	1x XLR Female 1x RJ45 Link (RDNet) 1x USB (data service)
Signal Output	1x XLR Male 1x RJ45 Link (RDNet)	1x XLR Male 1x RJ45 Link (RDNet)
Housing	Plywood	Plywood
Handles	2 (1x side)	2 (1x side)
Pole mount	2x M20 (1 on top + 1 on side)	2x M20 (1 on top + 1 on side)
Width	620 mm (24.4 in)	720 mm (28.3 in)
Height	457 mm (17.9 in)	530 mm (20.8 in)
Depth	620 mm (24.4 in)	690 mm (27.1 in)
Weight	34.8 kg (76.7 lbs.)	41.8 kg (92.1 lbs.)

RDNet remote control

First in dBTechnologies' SUB series, both SUB 915 and SUB 918 are enabled for real time monitoring and remote control via RDNet protocol and Aurora Net software, allowing advanced subwoofer configurations and with perfect low-end matches with dBTechnologies' full-range systems enabled to RDNet communications.

Both models of the family also feature on-board controls for attenuation, a polarity switch and DSP controls for a delay up to 4.5 milliseconds with 0.5 milliseconds steps (while a maximum 21 ms delay is allowed via Aurora Net). A second rotary allows to set crossover frequency from 70 to 110 Hz.

Compact and sturdy cabinet

The robust plywood cabinet encases high-end performances in limited weight (34.8 kg for SUB915 and 41.8 kg for SUB918) and features 2 integrated handles on the top edges, while the back side is equipped with wheels mounting for smooth transportation.

What is more, being designed for both vertical or horizontal use, 2 M20 mounts on the top and side panels allow to mount on the sub any full-range speaker using a standard M20 threaded pole.

SUB 612, 615 & 618

1200 W PEAK CLASS D AMP

STEREO OR MONO BALANCED INPUT

LINK OR X-OVER BALANCED STEREO OUTPUT MODE

COMPACT AND STURDY WOOD CABINET

LIGHTWEIGHT

POLARITY SWITCH

FLAT OR BOOST MODE SWITCH

Active Subwoofers

Low end precision

SUB 600 series has been designed to create complete PA systems making the most of dBTechnologies portable full range systems.

Able to deliver outstanding sound pressure levels in spite of their compact housing, SUB 600s provide a clean, impressively precise low-end reproduction. All models features a 600W RMS Class D Power Amplifier with SMPS and are equipped with respectively 12", 15" or 18" premium transducers.

Sub 600s' remarkable audio performance allows users to build most of the PA systems with 1 single sub and 2 full range speakers, avoiding any external processing or crossover thanks to a balanced Xover signal to left and right speakers. Controls on the amp panel allow user to operate with Mono or Stereo audio feed, activate polarity inversion and choose Outputs link mode (True Bypass or Xover). Whenever a further punch is needed, a low-frequencies boost EQ can be set thanks to the Sub Mode switch.

The series comes with a full grille design in a lightweight wood cabinet strengthened with a hardwearing, scratch-resistant black covering. Carved side handles enhance portability. The design of the top side eases subs stacking in larger systems and features a M20 pole mount thread to stack full-range speakers.

	SUB 612	SUB 615	SUB 618
Speaker Type	Active Bass-reflex Subwoofer	Active Bass-reflex Subwoofer	Active Bass-reflex Subwoofer
Frequency Response [- 10dB]	46 - 123 Hz	42 - 124 Hz	35 - 130 Hz
Max SPL	129 dB	131 dB	133 dB
Directivity	Omnidirectional	Omnidirectional	Omnidirectional
LF	12"	15"	18"
LF voice coil	1.5"	2.5"	2.5"
Amp Technology	SMPS digital amplifier	SMPS digital amplifier	SMPS digital amplifier
Amp Class	Class-D	Class-D	Class-D
Peak Power	1200 W	1200 W	1200 W
Controller	28/56 bit DSP	28/56 bit DSP	28/56 bit DSP
Limiter	Peak, Thermal, RMS	Peak, Thermal, RMS	Peak, Thermal, RMS
Controls	Subwoofer level, Outputs mode, Polarity, Subwoofer mode	Subwoofer level, Outputs mode, Polarity, Subwoofer mode	Subwoofer level, Outputs mode, Polarity, Subwoofer mode
Signal Input	2x XLR	2x XLR	2x XLR
Signal Output	2x XLR	2x XLR	2x XLR
Housing	Plywood	Plywood	Plywood
Handles	1 on top	2 (1x side)	2 (1x side)
Pole mount	D36 mm on top	D36 mm on top	D36 mm on top
Width	360 mm (14.72 in)	430 mm (16.92 in)	500 mm (19.69 in)
Height	550 mm (21.65 in)	580 mm (22.83 in)	625 mm (24.60 in)
Depth	525 mm (20.67 in)	600 mm (23.62 in)	690 mm (27.17 in)
Weight	19.8 kg (43.65 lbs.)	25.5 kg (56.22 lbs)	31.1 kg (68.57 lbs)

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