

# Professional Audio **2017**





AEB Industriale s.r.l, founded in 1974 in Bologna, Italy, operates in the Professional Audio market under the brand dBTechnologies and is part of Pro Audio industry leader RCF Group.

AEB Industriale headquarters are located in Bologna where all dBTechnologies products are designed and developed.

Over the years, thanks to a policy of considerable investments in R&D, design and manufacturing technologies, dBTechnologies products

have gained substantial recognition for some groundbreaking technological innovations, as well as their inherent standards of quality.

In particular, dBTechnologies has been one of the industry's trailblazer in active speaker & digital amplifier technologies, while giving a major emphasis to details and design.

A constant research on new materials and technologies, together with the ability to create unique design solutions, are the key ingredients for an ever-

increasing market share and success.

In January 2016, the brand was distributed in more than 100 countries worldwide, providing installation companies, rental companies, sound designers and musicians with audio equipment combining Made in Italy design with top-quality sound performance.

**dBTechnologies**



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# INGENIA Series

INGENIA **IG1T**  
INGENIA **IG2T**  
INGENIA **IG3T**  
INGENIA **IG4T**

## Professional Active Speakers



### **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.

### IG1T

2-way Active Speaker 2x6.5" neo woofers, 1" comp. driver, 400W digipro® G3, 56 bit DSP, OLED display with control knob, digital steering coverage, infrared EPD (Element Position Detection) system. Flyable (with optional accessories). Dimensions: 195x536x271mm (7.68x21.10x10.67in), Weight 10,6Kg [23.37 lbs.]

### IG2T

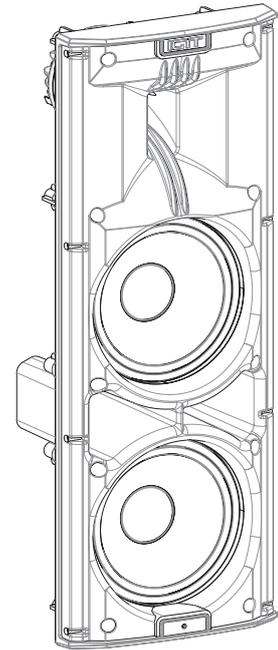
2-way Active Speaker 2x8" neo woofers, 1" comp. driver, 400W digipro® G3, 56 bit DSP, OLED display with control knob, digital steering coverage, infrared EPD (Element Position Detection) system. Flyable (with optional accessories). Dimensions: 228x646x315mm (8.98x25.43x12.40in), Weight 12.8Kg [28.22 lbs.]

### IG3T

2-way Active Speaker 2x10" neo woofers, 1.4" comp. driver, 900W digipro® G3, 56 bit DSP, OLED display with control knob, digital steering coverage, infrared EPD (Element Position Detection) system. Flyable (with optional accessories). Dimensions: 280x806x393mm (11.02x31.73x15.47in), Weight 22.24Kg [49 lbs.]

### IG4T

2-way Active Speaker 4x6.5" neo woofers, 1.4" comp. driver, 900W digipro® G3, 56 bit DSP, OLED display with control knob, digital steering coverage, infrared EPD (Element Position Detection) system. Flyable (with optional accessories). Dimensions: 195x956x271mm (7.68x37.64x10.67in), Weight 19.4Kg [42.77 lbs.]





## **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.



## **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.

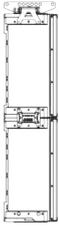
As mentioned above, the INGENIA is equipped with the new Neutrik® NAC3PX mains connector that provides a safe connection with secure locking system.

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](http://www.dbtechnologies.com)).

# Professional Active Speakers

## 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

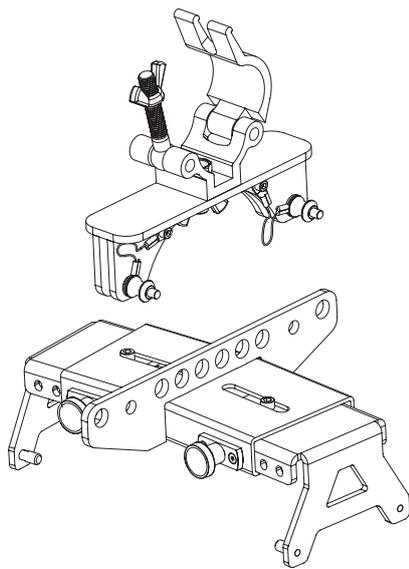
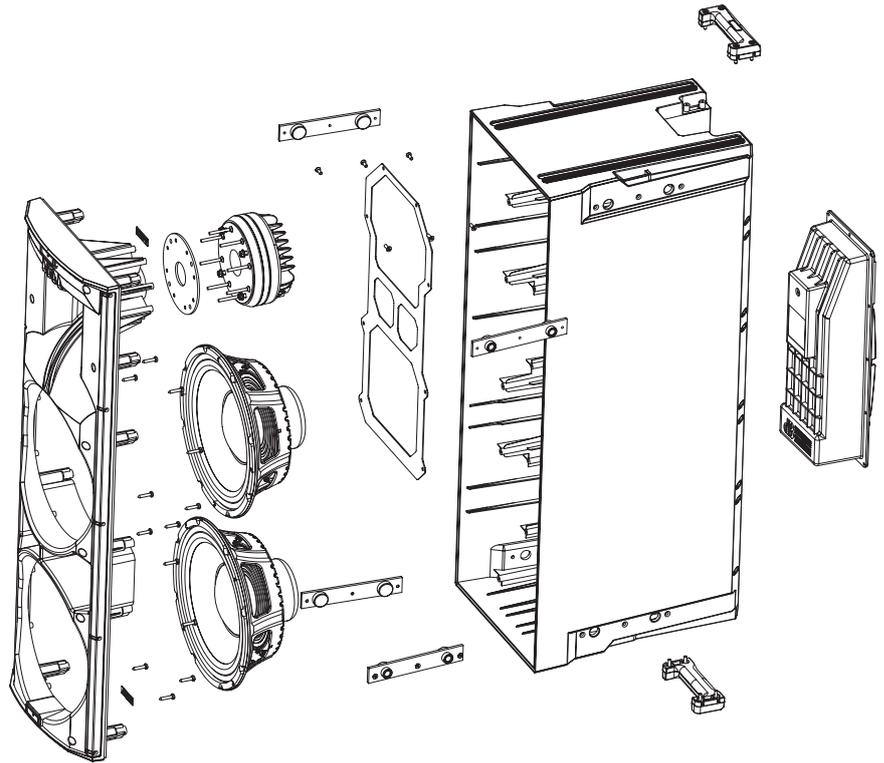
When two INGENIAS are used in stacked configuration, the speakers work as a unique system. Volume and DSP processing are unified. In other words, when the user turns the volume up or down on the master speaker, this change will automatically be mirrored on the slave.



## 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 fly-bar 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 10.6Kg (23.37lbs.) of IG1T to 22.24Kg (49.03lbs.) 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 fly bar (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 fly-bar 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.



# Professional Active Speakers

	IG1T	IG2T	IG3T	IG4T
<b>Speaker Type</b>	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
<b>Frequency Response [- 10dB]</b>	85 - 20.000 Hz	59 - 20.000 Hz	53 - 20.000 Hz	74 - 20.000 Hz
<b>Frequency Response [- 6dB]</b>	92 - 19.200 Hz	63 - 19.200 Hz	57 - 19.200 Hz	88 - 19.200 Hz
<b>Max SPL</b>	128 dB	128 dB	132 dB	132 dB
<b>HF</b>	1"	1"	1.4"	1.4"
<b>HF voice coil</b>	1.4"	1.4"	3"	3"
<b>Directivity (HxV) [- 6dB]</b>	100 x 80° (+15°/- 65°)	100 x 80° (+15°/- 65°)	110 x 90° (+20°/- 70°)	110 x 90° (+20°/- 70°)
<b>HF Type</b>	Neodymium compression driver	Neodymium compression driver	Neodymium compression driver	Neodymium compression driver
<b>Horn</b>	Vertical asymmetric	Vertical asymmetric	Vertical asymmetric	Vertical asymmetric
<b>Crossover Frequency</b>	2100 Hz	1900 Hz	1100 Hz	1100 Hz
<b>LF</b>	2x6.5"	2x8"	2x10"	4x6.5"
<b>LF voice coil</b>	1.5"	2"	2.5"	1.5"
<b>LF Type</b>	Neodymium	Neodymium	Neodymium	Neodymium
<b>Amp Technology</b>	Digipro® G3	Digipro® G3	Digipro® G3	Digipro® G3
<b>Amp Class</b>	Class-D	Class-D	Class-D	Class-D
<b>RMS Power</b>	400 Watt	400 Watt	900 Watt	900 Watt
<b>Peak Power</b>	800 Watt	800 Watt	1800 Watt	1800 Watt
<b>Controller</b>	DSP 56 bit	DSP 56 bit	DSP 56 bit	DSP 56 bit
<b>AD/DA converter</b>	24bit/48kHz	24bit/48kHz	24bit/48kHz	24bit/48kHz
<b>DSP Settings</b>	Acoustic correction, HPF, Anti-feedback filters, delay			
<b>Limiter</b>	Dual Active Peak, RMS, Thermal			
<b>User Interface</b>	OLED display + rotative knob w/button			
<b>Self-rotating display</b>	Yes	Yes	Yes	Yes
<b>Positioning</b>	EPD (Element Position Detection)			
<b>Advanced Features</b>	Yes	Yes	Yes	Yes
<b>Input</b>	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
<b>Output</b>	1 x XLR link 1 x PowerCON TRUE1			
<b>USB connector</b>	mini USB	mini USB	mini USB	mini USB
<b>Housing</b>	Polypropylene PP reinforced	Polypropylene PP reinforced	Polypropylene PP reinforced	Polypropylene PP reinforced
<b>Grille</b>	FULL /Invisible screws	FULL /Invisible screws	FULL /Invisible screws	FULL /Invisible screws
<b>Flyable</b>	Yes	Yes	Yes	Yes
<b>Handles</b>	1x on top / 1x on bottom			
<b>Pole Mount</b>	Standard D36mm	Standard D36mm	Standard D36mm	Standard D36mm
<b>Width</b>	195 mm (7.68 in)	228 mm (8.98 in)	280 mm (11.02 in)	195 mm (7.68 in)
<b>Height</b>	536 mm (21.10 in)	646 mm (25.43 in)	806 mm (31.73 in)	956 mm (37.64 in)
<b>Depth</b>	271 mm (10.67 in)	315 mm (12.40 in)	393 mm (15.47 in)	271 mm (10.67 in)
<b>Weight</b>	10.8Kg (23.81 lbs.)	12.8Kg (28.22 lbs.)	20.8Kg (45.86 lbs.)	18.2Kg (40.12 lbs.)

ES 1203  
ES 503  
ES 802



## ES 1203

**TRI-AMPED DIGITAL ACTIVE STEREO SYSTEM**

**2400 W PEAK POWER**

**LAST GENERATION DIGIPRO G4 AMP WITH PFC**

**USER-FRIENDLY DSP INTERFACE**

**3 CONFIGURATION MODES  
(MONO, STEREO OR DOUBLE COLUMN)**

**ON-BOARD 5 CHANNEL MIXER**

**BLUETOOTH® AUDIO RECEIVER**

**DIGITAL STEERING PRESETS (FAR/NEAR)**

**3 INPUT CHANNEL MODES (MIC/INSTR/LINE)**

**CUSTOMIZABLE BALANCED OUTPUT CHANNEL  
(LINK OUT/AUXILIARY)**

**ULTRA-WIDE COVERAGE**

ES is the first dBTechnologies' Entertainment System series: complete plug-and-play column systems, equally multifunctional, portable, space-saving and user-friendly.

Now ES family grows stronger with ES 1203, a complete stereo sound system encompassing its predecessors' versatility with striking SPLs (the system features a 2400W last-generation power amp) and an impressively coherent throw pattern.



# Tri-Amp Entertainment Stereo System

## The most powerful complete PA system

ES1203 is a 3-amped stereo sound system composed by 2 passive wooden tops and one active wooden subwoofer equipped with 2x12" woofers.

The sub hosts last-generation Digipro® G4 2400W Peak Amp. A powerful DSP (controlled by an intuitive user interface placed on the top of the sub) manages all function of the 5-channel on-board digital mixer, as well as the system configurations.

## Ultra-wide coverage

Each top satellite is equipped with 4x 4" mid-woofers, whose alignment allows an asymmetrical vertical coverage (thanks to the Logarithmic Curved Column Array technology). The unique design of phase plugs widens the horizontal coverage and guarantees a perfect intelligibility. Moreover, on board DSP allows users to choose among 3 Configuration Modes (Mono, Stereo or Double Column) and 2 different Steering Modes (Far and Near). This way, the system adapts to all kind of environments and guarantees the best throw pattern.



## ES 1203

<b>Speaker Type</b>	3-amped Stereo System with two full-range tops and one semi-horn loaded subwoofer
<b>Frequency Response [-10dB]</b>	35 - 20.000 Hz
<b>Max SPL</b>	132 dB
<b>MF-HF</b>	8x 4", v.c. 1"
<b>MF-HF Type</b>	Neodymium
<b>LF</b>	2x 12", v.c. 2.5"
<b>LF Type</b>	Ceramic
<b>Directivity</b>	97x60°
<b>Amp Technology</b>	Digipro® G4
<b>Amp Class</b>	Class-D
<b>Peak Power</b>	2400 W
<b>Controls</b>	1x OLED Display with rotary encoder w/button 1x Audio signal monitoring LED 1x USB port (service data)
<b>Power Supply</b>	Full-range with PFC
<b>Power Connection</b>	VDE socket
<b>Cooling</b>	Convection
<b>Controller</b>	DSP 56 bit
<b>Converter AD/DA</b>	24 Bit/48 kHz
<b>Limiter</b>	Peak, RMS, Thermal
<b>Crossover Frequency LF-MF</b>	160 Hz
<b>Digital Steering</b>	Far/Near
<b>Input Channels</b>	1x Mic/Instrument Combo (XLR/Jack) 2x Mic/Line Combo (XLR/Jack) 1x Bluetooth® built-in receiver
<b>Mix Output</b>	1x XLR balanced output
<b>Housing (Subwoofer)</b>	Plywood with full metal grille
<b>Housing (Tops)</b>	Plywood with full metal grille
<b>Pole Mount</b>	Ø36 mm (M20 thread)
<b>Handles on subwoofer</b>	1x on top, 1x lateral side
<b>Dimensions WxHxD (Tops)</b>	110x460x160 mm - 4.33x18.11x6.30 in
<b>Dimensions WxHxD (Subwoofer)</b>	360x680x545 mm - 14.17x26.77x21.46 in
<b>Weight (1 Top)</b>	3.3Kg - 7.27lbs.
<b>Weight (Subwoofer)</b>	29.3Kg - 64.59lbs.

## Fast-lock top speakers connection

Top satellites can be used separately in a Stereo configuration (placed on tripods or installed with WB-44 accessory) or connected together in a Mono Configuration: the enclosure of the



two satellites embeds a metal lock connection system, which assures perfect top-to-top matching without the risk of incorrect assembly and includes the electrical connection between the two tops. One of the two satellites receives the powered signal from the subwoofer through a 4-poles male Speakon™ connector and relaunch the audio to the other top.

### **On-board 5-channel Mixer**

ES1203 features an on board 5 channel mixer: the first channel features a Mic/Instrument balanced/unbalanced combo connector with an adjustable anti-feedback filter, impedance compensation and microphone gain with 3 positions (0, +10, +20dB). The second and third channels are Mic/Line inputs with balanced/unbalanced combo connector. This allows the system to manage up to 3 mic lines at a time.

The balanced Aux/Mix output can be used as a direct link, or, alternatively, as an Aux output. In this case, you can actually feed a stage monitor or another speaker for which a custom separate mix is needed. When in double column mode, this output acts as a source of a second ES system providing left or right content.



### **Integrated Stereo Audio Bluetooth® Module**

ES1203 is equipped with a built-in Bluetooth® module, which receives stereo audio from devices such as mobile phones, tablets or any other audio device with a Bluetooth® connection. The system manages the Bluetooth® audio autonomously as a separate channel.

### **User Friendly OLED display**

ES1203 is incredibly simple to set up. Users are guided step-by-step to configure the system according to the application thanks to the advanced graphical interface. In fact, the OLED display allows to enter the heart of the system, recall configuration presets, adjust levels, EQ and create a pre/post gain mix for different purposes. A rotary encoder with a switch allows to control any operation easily and quickly.

### **A Powerful Subwoofer**

The semi-horn loaded subwoofer houses 2x 12" woofers and the amp module, and the OLED display with system controls. In addition to the input connectors and controls of the user-interface, there are two Speakon outputs and the power connector. The enclosure, sturdy and stylish, is made of plywood coated with a durable scratch-resistant black coat, which makes it truly road-ready. The dolly DO-ES1203 allows to transport the system quickly and smoothly.

### **Clean and elegant in Mono Mode**

When used in Mono mode, the system can be completed with DP-ES1203, a designed wooden pole which levels out the overall design resulting in an elegant, unobtrusive look which perfectly fits permanent installations.

The ES 1203 bundle is composed by a subwoofer with its cover, two tops with bag, a D35mm pole, 2 Speakon cables (2.5 mt and 7 mt), power supply cable.



# Tri-Amp Entertainment Stereo System

ES 503



## Bluetooth®

ES 503 is the first born of brand new Entertainment System series, specifically created by in order to pack its long time active speaker expertise into a multifunctional, portable, space-saving, user-friendly yet powerful system.

A complete 3-element system which adapts to several uses (and thousands of different users), thanks to a built-in digital mixer, an OLED display user interface and a Bluetooth® audio receiver.



## ES 503

<b>Speaker Type</b>	3-amped Stereo System with two full-range tops and one subwoofer
<b>Frequency Response [-10dB]</b>	37 - 15.000 Hz
<b>Max SPL</b>	121 dB
<b>MF-HF</b>	8x 3"
<b>MF-HF Type</b>	Neodymium
<b>LF</b>	12"
<b>Directivity</b>	95x65°
<b>Amp Technology</b>	Digipro® G3
<b>Amp Class</b>	Class-D
<b>Power Amp</b>	1000 W
<b>Controls</b>	1x OLED Display with rotary encoder w/button 1x Audio signal monitoring LED 1x USB port (service data)
<b>Power Supply</b>	SMPS with PSU Auto-range
<b>Power Connection</b>	VDE socket
<b>Cooling</b>	Convection
<b>Controller</b>	DSP 56 bit
<b>Converter AD/DA</b>	24 Bit/48 kHz
<b>System Presets</b>	Factory presets + User defined
<b>Limiter</b>	Dual Active, Peak, RMS, Thermal
<b>Crossover Frequency LF-MF</b>	206 Hz
<b>Mic/Instrument Channel</b>	1x Combo (XLR/Jack) balanced/unbalanced input
<b>Line Channels</b>	2x Combo (XLR/Jack) balanced/unbalanced inputs
<b>Media Channel</b>	1x Bluetooth® built-in receiver
<b>Mix Output</b>	1x XLR balanced output
<b>Housing (Subwoofer)</b>	15mm Black Painted Birch Plywood
<b>Housing (Tops)</b>	Polypropylene PP
<b>Pole Mount</b>	Ø25 mm (M20 thread)
<b>Handles on subwoofer</b>	1x lateral side
<b>Dimensions WxHxD (Tops)</b>	95x360x137 mm – 3.74x13.98x5.39 in
<b>Dimensions WxHxD (Subwoofer)</b>	465x400x430 mm - 18.3x15.7x16.9 in
<b>Weight (1 Top)</b>	1.9Kg – 4.19lbs.
<b>Weight (Subwoofer)</b>	16.4Kg – 36.16lbs.

ES503 is a 1000W 3-amped sound system composed by 2 slave 4x 3" full-range tops and 1 master 12" subwoofer. The sub hosts a Digipro® G3 amp module with auto-range PSU and a 3-channels mixer with Bluetooth connection. A powerful DSP manages all function of the on-board digital mixer, making the ES503 a real gem in terms of sound performance and versatility.

The ES503 bundle is composed by a subwoofer, two tops, a D25mm pole and a Speakon/Speakon cable to connect the sub to the top. The speaker pole is splittable in two segments for easy transport.

The system also provides a large group of accessories, such as 2 D25mm tripod stands with a dedicated transport bag, a bag to carry 2 tops and a D25mm pole, a bag for the 12" subwoofer, a trolley, a cable kit with two 7m Speakon/Speakon cables. A stereo kit comprising 2 tripods + 2 7m Speakon/Speakon cables and a transport kit comprising 1 sub bag + 1 top bag + 1 trolley are also available.

## ES 1203 and ES 503 System Configurations

Both ES1203 and ES503 allows 3 different configurations suitable for hundreds of different occasions:

Option 1: **SINGLE COLUMN MODE**, 1x stand pole

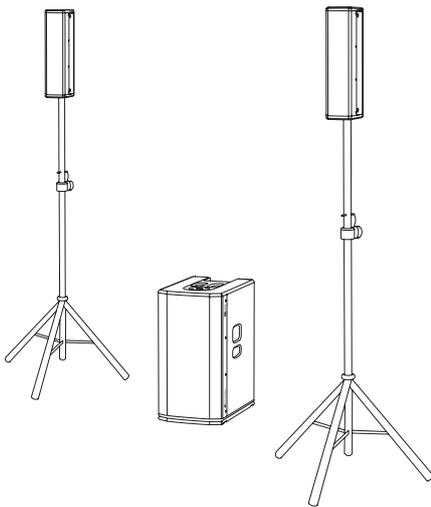
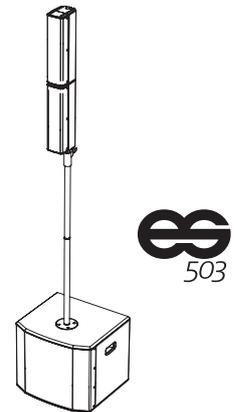
Option 2: **SINGLE STEREO MODE**, 2x tripod or 1x stand pole and 1x tripod

Option 3: **DOUBLE COLUMN MODE**, Double Column Mode 2 ES1203 or ES503 systems in single column mode



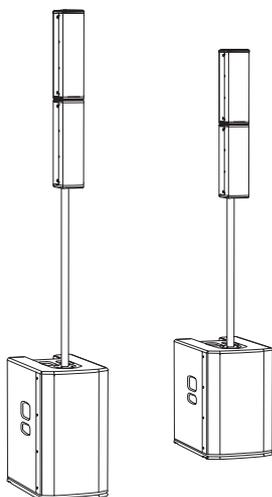
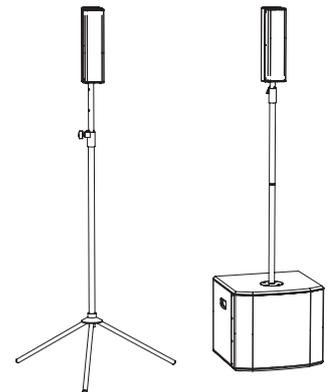
### Option 1: SINGLE COLUMN MODE, 1x stand pole

In the first option the two satellites are connected top-on-top and are placed on the subwoofer through the supplied pole. The system is used in mono so all inputs are routed to both outputs in mono. Of course the user can adjust volumes, 3-band EQ and send a second mix with different levels to the AUX/MIX output.



### Option 2: SINGLE STEREO MODE 2x tripods or 1x stand pole and 1x tripod

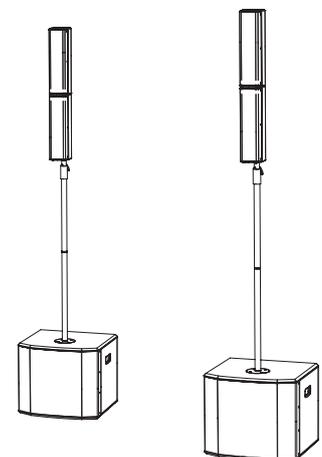
This second option implies the use of two tripods and two Speakon-Speakon cables to connect the subwoofer to the tops placed on tripods. The system is in stereo: The Mic/Instrument input is assigned to both channels; CH1/LINE L (and Bluetooth® L) is assigned to Output L; CH2/LINE R (and Bluetooth® R) is assigned to Output R. Of course the user can adjust volumes and EQ. He can also prepare a second mix with different levels for the AUX / MIX output.



### Option 3: DOUBLE COLUMN MODE, 2x ES 1203 or ES 503 in single column mode

The third option uses two ES 1203 or 503 systems in single column mode: one of the two becomes the master for the second, feeding the signal thanks to the integrated balanced output channel.

This way, both system are driven by the master's on-board mixer and any setup is guided through the master's OLED display.

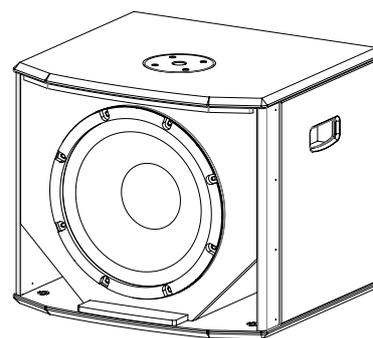


# Bi-Amp Entertainment Portable System

## ES 802

ES 802 is a bi-amped system combining power, extremely coherent coverage, excellent acoustic performance, easy transport and set up.

The powerful DSP and the particular flexibility of the inputs also ensure a great versatility; that's why ES 802 is the perfect solution for performers requiring small-sized plug and play systems providing a lusty acoustic performance.



### Great versatility

The 2 satellites of ES 802 have been designed using 4x 3" transducers ensuring a coherent coverage in every environment. The subwoofer houses a particularly powerful amplification section (1200 W for ES 802) and is equipped with a 12" woofer, ensuring a low frequencies consistency which you wouldn't expect from such a compact system.

The powerful DSP of ES 802 system provides 8 configurations, allowing to digitally equalize the audio signal according to different usage needs. The system allows to input both a connection from a mixer (line level) and a microphone connection. The balanced "LINK" output allows to create bigger ES systems or to feed the mix to any other system.

## ES 802

<b>Speaker Type</b>	bi-amped system with two full-range tops and one subwoofer
<b>Frequency Response [-10dB]</b>	35 - 15.000 Hz
<b>Max SPL</b>	124 dB
<b>HF</b>	8x 3"
<b>HF Type</b>	Neodymium Woofers with phase plug
<b>LF</b>	1x 12"
<b>Directivity [HxV]</b>	95x65°
<b>Amp Technology</b>	Digipro® G3
<b>Amp Class</b>	Class-D
<b>Power Amp</b>	1200 W
<b>Controls</b>	1x Encoder (8 preset equalisations)
<b>Power Supply</b>	SMPS with PSU Auto-range
<b>Power Connection</b>	VDE socket
<b>Cooling</b>	Convection
<b>Controller</b>	DSP 56 bit
<b>Converter AD/DA</b>	24 Bit/48 kHz
<b>System Presets</b>	8 Factory presets + User defined
<b>Limiter</b>	Dual Active, Peak, RMS, Thermal
<b>Crossover Frequency LF-HF</b>	206 Hz
<b>Mic/Instrument Channel</b>	1x Combo (XLR/Jack) balanced/unbalanced input
<b>Line Channels</b>	1x RCA stereo input
<b>Mix Output</b>	1x XLR balanced output
<b>Housing (Subwoofer)</b>	15mm Black Painted Plywood
<b>Housing (Tops)</b>	Polypropylene PP
<b>Pole Mount</b>	Ø25 mm (M20 thread)
<b>Handles on subwoofer</b>	1x lateral side
<b>Dimensions WxHxD (Tops)</b>	95x360x137 mm – 3.74x13.98x5.39 in
<b>Dimensions WxHxD (Subwoofer)</b>	465x400x430 mm - 18.3x15.7x16.9 in
<b>Weight (1 Top)</b>	1.9Kg – 4.19lbs.
<b>Weight (Subwoofer)</b>	16.4Kg – 36.16lbs.



# LVX Series

LVX **XM12**  
LVX **XM15**  
LVX **8**  
LVX **10**  
LVX **12**  
LVX **15**

## Professional Digital Active Speakers & Monitors

### LVX XM12 & LVX XM15

#### Compact, powerful & road ready

LVX tour series family grows bigger with LVX XM professional stage monitors. Just like the other members of the LXV family, these active wedges respond to all those live music and touring requirements where sound reinforcement systems must be lightweight, portable, road resistant and easily adaptable to different stage necessities.

Equipped with heavy duty components and featuring an advanced coaxial horn design, LVX XMs wedge deliver a powerful yet clear sound quality in spite of their compact design, raising the bar for intelligibility, definition and ease of use.



#### Enhanced coaxial horn design

LVX XM's design enhance the benefits of coaxial horn wedges concept. dBTechnologies designed a horn that not only shape high frequencies' directivity, but also acts as a phase plug for the woofer, boosting and lighting up the vocal band thanks also to the advanced DSP featuring FIR filters processing.

As a result, not only the horn contributes to deliver a bright audio performance with a uniform throw pattern, but it also reduces the overall dimensions of the system and protects the internal components, reinforcing the cabinet structure.

# Active Coaxial Stage Monitors



## 8 preset equalizations for all stage requirements

LVX XM monitors feature an advanced DSP offering eight variable presets in order to easily adapt to different stage requirements and to the varying demands of vocalists, instrumentalists as well as audio playback applications.

The cabinets are constructed in sturdy plywood with a black PVC coating and comes with 2 integrated side handles allowing easy transport and stage set up operations. A pole mount cup on one side allow to put the system on a pole for vertical use (eg. as drummer monitoring or for audio playback applications).



### LVX XM12



### LVX XM15

Speaker Type	2-Way Coaxial Active Stage Monitor	2-Way Coaxial Active Stage Monitor
<b>Frequency Response [- 6dB]</b>	69 - 17.800 Hz	58 - 17.800 Hz
<b>Max SPL</b>	127 dB	128 dB
<b>HF</b>	1" Exit, 1.4" v.c.	1" Exit, 1.4" v.c.
<b>Directivity [H x V]</b>	90 x 70°	90 x 70°
<b>LF</b>	12", 2.5" v.c.	15", 2.5" v.c.
<b>Amp Technology</b>	Digipro® G3	Digipro® G3
<b>Amp Class</b>	Class-D	Class-D
<b>RMS Power</b>	600 W	600 W
<b>Peak Power</b>	1200 W	1200 W
<b>Power Supply</b>	SMPS with PSU Auto-range	SMPS with PSU Auto-range
<b>Power Connection</b>	PowerCon In / Link	PowerCon In / Link
<b>Cooling</b>	Convection	Convection
<b>Controller</b>	DSP 56 bit	DSP 56 bit
<b>Converter AD/DA</b>	24 bit/48 kHz	24 bit/48 kHz
<b>System Presets</b>	8 positions	8 positions
<b>Limiter</b>	Peak, Thermal, RMS	Peak, Thermal, RMS
<b>Advanced DSP Function</b>	Linear Phase FIR filters	Linear Phase FIR filters
<b>Controls</b>	Rotary 8 positions, MIC/LINE switch	Rotary 8 positions, MIC/LINE switch
<b>Mains Connections</b>	PowerCON in/link	PowerCON in/link
<b>Signal Input</b>	1x Combo IN (XLR/Jack)	1x Combo IN (XLR/Jack)
<b>Signal Output</b>	1x XLR link OUT	1x XLR link OUT
<b>USB Connector</b>	mini USB B-Type (service only)	mini USB B-Type (service only)
<b>Housing</b>	Plywood with black PVC cover	Plywood with black PVC cover
<b>Grille</b>	Metal black painted	Metal black painted
<b>Handles</b>	2, chassis-integrated	2, chassis-integrated
<b>Pole mount</b>	D36 mm	D36 mm
<b>Width</b>	515 mm (20.28 in)	640 mm (25.19 in)
<b>Height</b>	460mm (18.11 in)	460 mm (18.11 in)
<b>Depth</b>	370 mm (14.57 in)	370 mm (14.57 in)
<b>Weight</b>	20.1 kg (44.31 lbs)	22.3 kg (49.16 lbs)



## LVX 8, LVX 10, LVX 12 & LVX 15

### **Excellent pedigree. Fit for every time**

LVX active loudspeakers series is the answer to all those fixed installations and live music requirements where sound reinforcement systems must be lightweight, stylish, portable, powerful and in line with the highest professional standards. Coming from the experience gained in designing touring products as the renowned DVX series, the new LVX series offers smart solutions with a special attention to the needs of fixed and portable installations.

### **Advanced Technology**

The LVX series uses DIGIPRO® series digital amplifiers with powers ranging from 400W (LVX 8 and 10) to 800W PRG (LVX 12 and 15). These highly efficient amplifiers provide high power, limited weight and are totally silent due to the low thermal dissipation and no cooling fans required.

The digital preamp with DSP controls audio crossover, frequency response, dual active peak-RMS-thermal limiter, and acoustic alignment. A selector enables to select one of two different equalizations - "FLAT" or "PROCESSED" - to provide the right sound in any occasion.



### **Elegance yet strength**

The enclosure is made of robust 12mm plywood with a look very elegant and refined. The scratch-resistant finishes are available in both black and white. All models are equipped with handles for easy transport. The LVX 8 and 10 have a single handle on top; the LVX 12 and 15, in addition to the handle on the top, have a pair of handles on sides. In case of installation where you want to keep as much as possible a stylish and sober look, the white installation version of all the four models comes without the pole mount cup and the handles, providing a very transparent look.

A D36mm pole mount cup on the bottom allows all LVX speakers to be placed on poles or tripods, so as to be used as portable sound systems for any live music applications.



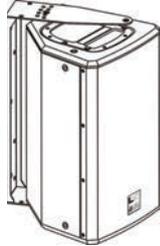
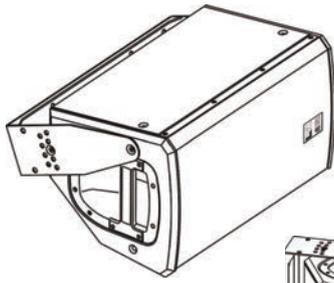
### **Impeccable Sound**

The voicing of these speakers is very linear and designed to for any audio content, such as speech, background or live music, multimedia contents, etc., respecting their characteristics and dynamic response, and with a high level of performance. Four models available: LVX 8, 10, 12 and 15.

The dispersion of the constant directivity horn is symmetric and rotatable in order to keep the same coverage in case of horizontal use. This is particularly valued even in case of use as a stage monitor, configuration possible thanks to the rear angle of 45°.

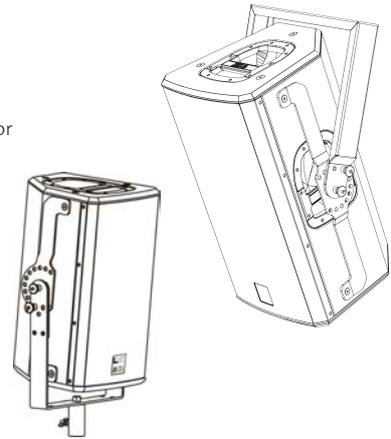


# Digital Active Speakers



## Versatility at its maximum level

There are two types of wall-mounting brackets: one for vertical installation, especially studied for live applications or truss mounting, with variable pan-tilt options (a pole mount cup is included as a stand adapter). The second is suggested for horizontal permanent installations, where you can easily change tilt position.



LVX 8

LVX 10

LVX 12

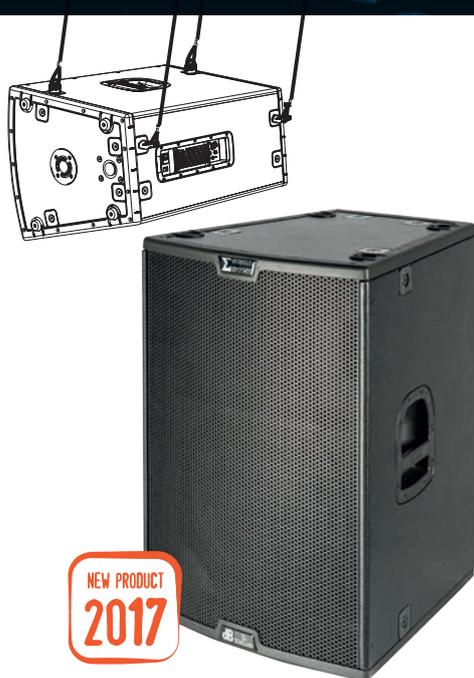
LVX 15

Speaker Type	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
<b>Frequency Response [- 10dB]</b>	65 - 20.000 Hz	60 - 20.000 Hz	55 - 20.000 Hz	49 - 20.000 Hz
<b>Frequency Response [- 6dB]</b>	80 - 19.000 Hz	70 - 19.000 Hz	62 - 19.000 Hz	54 - 19.000 Hz
<b>Max SPL</b>	121 dB	125 dB	127 dB	128 dB
<b>HF</b>	1", 1.5" v.c.	1", 1.5" v.c.	1", 1.5" v.c.	1", 1.5" v.c.
<b>Directivity</b>	90 x 70°	90 x 70°	90 x 40°	90 x 40°
<b>Horn</b>	Rotatable CD Horn	Rotatable CD Horn	Rotatable CD Horn	Rotatable CD Horn
<b>LF</b>	8", 1.5" v.c.	10", 2" v.c.	12", 2" v.c.	15", 2" v.c.
<b>Amp Technology</b>	Digipro® G2	Digipro® G2	Digipro® G2	Digipro® G2
<b>Amp Class</b>	Class-D	Class-D	Class-D	Class-D
<b>PRG Power</b>	400 W	400 W	800 W	800 W
<b>Peak Power</b>	800 W	800 W	1600 W	1600 W
<b>Controller</b>	DSP 56 bit	DSP 56 bit	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24bit/48kHz	24bit/48kHz	24bit/48kHz	24bit/48kHz
<b>System Presets</b>	Flat, Processed	Flat, Processed	Flat, Processed	Flat, Processed
<b>Limiters</b>	Dual Active Peak, RMS, Thermal			
<b>Crossover Frequency LF-HF</b>	2050 Hz	2050 Hz	1800 Hz	1800 Hz
<b>Slope MF-HF</b>	24 dB/Octave	24 dB/Octave	24 dB/Octave	24 dB/Octave
<b>Housing</b>	Multiplex	Multiplex	Multiplex	Multiplex
<b>Angles Up</b>	Monitor use 40°	Monitor use 40°	Monitor use 45°	Monitor use 45°
<b>Handles</b>	1x top side, recessed	1x top side	3 (1x top side, 1x side)	3 (1x top side, 1x side)
<b>Rigging points</b>	10 x M8	12 x M8	12 x M10	12 x M10
<b>Pole mount</b>	D36 mm	D36 mm	D36 mm	D36 mm
<b>Width</b>	260 mm (10.24 in)	300 mm (11.8 in)	360 mm (14.17 in)	430 mm (16.93 in)
<b>Height</b>	420 mm (16.54 in)	480 mm (18.9 in)	610 mm (24 in)	680 mm (26.77 in)
<b>Depth</b>	260 mm (10.24 in)	300 mm (11.8 in)	360 mm (14.17 in)	430 mm (16.93 in)
<b>Weight</b>	10.1 kg (22.27 lbs)	13.5 kg (29.76 lbs)	17 kg (37.5 lbs)	20.7 kg (45.64 lbs)

# Σ SIGMA Series

SIGMA **S115**  
SIGMA **S115F**  
SIGMA **S215**  
SIGMA **S118**  
SIGMA **S218**

## Digital Active Speakers & Subs



NEW PRODUCT  
2017

### SIGMA S115/F

#### 2-Way Active Speaker 15"/1.4", 1000 W

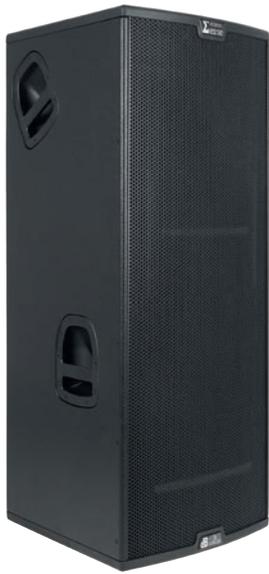
This active 15"/1.4" two-way system is musicians and DJs' first choice in a full-range FOH speaker. The S115's reach is remarkable thanks to its assertive midrange, prominent top end, and constant directivity at high sound pressure levels. SIGMA S115F is a flyable version of the same system, featuring 16 pickpoints for MA 10x35 eyebolts on top, bottom, rear and both lateral sides of the speaker.

### SIGMA S115/F

### SIGMA S215

<b>Speaker Type</b>	2-Way Active Speaker	Quasi 3-Way Active Speaker
<b>Frequency Response [-10dB]</b>	54 - 19.600 Hz	45 - 20.000 Hz
<b>Max SPL</b>	135 dB	137 dB
<b>HF</b>	1.4", 2.84" v.c.	1.4", 2.84" v.c.
<b>Type HF</b>	Compression driver	Compression driver
<b>Directivity</b>	60 x 40°	60 x 40°
<b>Horn</b>	Rotatable CD horn	Rotatable CD horn
<b>LF</b>	15", 3" v.c.	2x 15" (1 *with phase plug), 3" v.c.
<b>Amp Technology</b>	Digipro® G2	Digipro® G2
<b>Amp Class</b>	Class-D	Class-D
<b>PRG Power</b>	1000 W	1400 W
<b>Controller</b>	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24bit/48kHz	24bit/48kHz
<b>System Presets</b>	Flat, Boost	Flat, Boost
<b>Limiter</b>	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal
<b>Crossover Frequency</b>	1100 Hz - 24 dB/Octave	1100 Hz - 24 dB/Octave
<b>Signal Input</b>	XLR	XLR
<b>Signal Output</b>	XLR Link Out	XLR Link Out
<b>Housing</b>	Plywood	Plywood
<b>Handles</b>	2 (1x side)	4 (2x side)
<b>Rigging points</b>	16 (only SIGMA S115F)	
<b>Pole mount</b>	D36mm on bottom	
<b>Width</b>	509 mm (20.04 in)	509 mm (20.04 in)
<b>Height</b>	765 mm (30.19 in)	1215 mm (47.83 in)
<b>Depth</b>	533 mm (20.98 in)	533 mm (20.98 in)
<b>Weight</b>	33 kg (72.75 lbs)	50 kg (110.23 lbs)

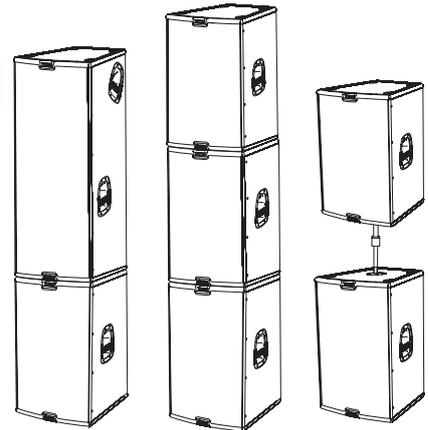
# Digital Active Speakers & Sub



## SIGMA S215

### Quasi 3-Way Active Speaker 2 x 15"/1.4", 1400 W

Many venues demand high SPL and low-ranging response. However, a full-range enclosure is often the only viable option for some of these applications. Loaded with two 15" woofers designed to handle considerable loads, the S215 is the solution of choice for such scenarios.



## SIGMA S118

### Active Subwoofer 18", 1400 W

The S118 is a powerful, active 18" subwoofer housed in a bassreflex enclosure. Designed specifically to provide low-frequency support for highperformance S115 full-range speakers, it packs a mighty low-ranging bass punch. S118 and S115 enclosures have the same width so they are easily stacked to set up professional-grade PA systems.

### Engineered for portability

Musicians and DJs who provide their own backline need a reliable sound system that sets up in a flash and is easily tweaked without a lot of fuss. It has to respond directly and predictably to every mix.

Live gigs need resilient speakers with lots of load handling and saying power in order to operate at high levels for hours on end. The rig has to deliver tight, punchy bass response that gets people dancing as well as assertive mids and a sparkling top end. And it has to be easy to handle. The SIGMA line does all this and more.



## SIGMA S218

### Active Subwoofer 2x 18", 2700 W

The new SIGMA S218 is an active bass reflex subwoofer that comes as the perfect matching for SIGMA S115 F, ensuring the best behaviour as a full-range cluster both for live and installed applications.

It is equipped with two 18" woofers (4" voice coil) and a CLASS D Digipro G3 2700 W PRG Power. The double input and output allows a mono or stereo configuration. On-board Phase and Delay controls allows to precisely configure the system in every situation to make the most of a powerful yet precise PA system.

## SIGMA S118 SIGMA S218

Speaker Type	Active Bassreflex Subwoofer	Active Bassreflex Subwoofer
<b>Frequency Response [- 10dB]</b>	38 - 110 Hz	42 - 120 Hz
<b>Max SPL</b>	134 dB	138 dB
<b>LF</b>	18", 4" v.c.	2x 18", 4" v.c.
<b>Amp Technology</b>	Digipro® G2	Digipro® G3
<b>Amp Class</b>	Class-D	Class-D
<b>PRG Power</b>	1400 W	2700 W
<b>Controller</b>	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24bit/48kHz	24bit/48kHz
<b>Limiter</b>	Peak, RMS, Thermal	Peak, RMS, Thermal
<b>Crossover Frequency</b>	80-100 Hz (Switchable)	90-120 Hz (Switchable)
<b>Signal Input</b>	XLR	2x XLR
<b>Signal Output</b>	1x XLR X-Over Out/ Link Out	2x XLR X-Over Out/ Link Out
<b>Housing</b>	Plywood	Plywood
<b>Handles</b>	2 (1x side)	4 (2x side)
<b>Pole mount</b>	M20 on top	M20 on top
<b>Width</b>	509 mm (20.04 in)	509 mm (20.04 in)
<b>Height</b>	815 mm (32.09 in)	1215 mm (47.83 in)
<b>Depth</b>	533 mm (20.98 in)	533 mm (20.98 in)
<b>Weight</b>	38 kg (83.78 lbs)	59.8 kg (131.84 lbs)

FLEXSYS **F212**  
FLEXSYS **F315**  
FLEXSYS **FM8**  
FLEXSYS **FM10**  
FLEXSYS **FM12**

## Digital Active Speakers & Monitors



### Flexibility and ease of use

When greater SPL and low-ranging response are needed, the right solutions are FLEXSYS F212 and F315. The first model is characterized by a pair of 12" woofers (driven by the same amp channel) with a phase-plug in front of the upper one, which avoids the overlapping of vertical phases that normally occur in this type of configuration and ensures a correct horizontal coverage of the medium frequencies. Furthermore, the trapezoidal-shaped housing (20° angle) allows the side-by-side setup of several speakers in cluster configuration. The FLEXSYS F315 is, however, a 3-way acoustic design (2-way electrically) with a 15" woofer a 6" midrange and a 1" compression driver. The result is a speaker particularly suitable to FOH purposes.

### FLEXSYS F212

### FLEXSYS F315

	FLEXSYS F212	FLEXSYS F315
<b>Speaker Type</b>	Quasi 3-Way Active Speaker	3-Way Bi-Amp Active Speaker
<b>Frequency Response [-10dB]</b>	55 - 20.000 Hz	47 - 20.000 Hz
<b>Frequency Response [-3dB]</b>	65 - 19.000 Hz	60 - 19.000 Hz
<b>Max SPL</b>	132 dB	131 dB
<b>HF</b>	1"	1"
<b>Type HF</b>	Neodymium compression driver	Neodymium compression driver
<b>Directivity</b>	60° x 40°	90° x 40°
<b>Horn</b>	Rotatable CD Horn	CD horn
<b>MF</b>		6.5", 2.5" voice coil, hornloaded
<b>LF</b>	2x12" (with phase plug)	15"
<b>Amp Technology</b>	Digipro <sup>®</sup>	Digipro <sup>®</sup>
<b>Amp Class</b>	Class-D	Class-D
<b>RMS Power</b>	1000 W	1000 W
<b>Peak Power</b>	2000 W	2000 W
<b>Controller</b>	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24bit/48kHz	24bit/48kHz
<b>System Presets</b>	Flat, Clustered	Flat, Processed
<b>Limiter</b>	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal
<b>Crossover Frequency</b>	LF-HF: 1800 Hz	LF-MF: 750 Hz; MF-HF: 2000 Hz
<b>Slope MF-HF</b>	24dB/oct	24dB/oct; 18dB/oct
<b>Housing</b>	Multiplex	Multiplex
<b>Width</b>	360 mm (14.17 in)	440 mm (17.32 in)
<b>Height</b>	930 mm (36.61 in)	880 mm (34.65 in)
<b>Depth</b>	500 mm (19.68 in)	500 mm (19.68 in)
<b>Weight</b>	31.5 kg (69.45 lbs)	31 kg (68.34 lbs)

# Digital Active Speakers & Monitors

## Active Coaxial Stage Monitors

A revolution in live sound reinforcement, the Flexsys FM Series comprises a range of tailored monitoring solutions featuring innovative technologies.

Housed in compact multifunctional enclosures, these units raise the bar for intelligibility, definition, and ease of use. They are the discerning user's first choice when nothing less than the best on-stage monitoring will do.



### Remarkably resistant to feedback

These newly developed coaxial speakers deliver extraordinary sound quality that defies the compact design of their housings.

Engineered for precise directivity and uniform throw patterns, they provide the same satisfying audio experience at every listening position, with far greater resistance to feedback.

### DSP with eight presets for easy adaptation to varying requirements

FM Series monitors feature a powerful DSP that offers a crossover, digital multiband limiters, phase correction, and eight variable presets to adapt the monitor to the varying demands of vocalists, instrumentalists, and audio playback applications.



## FLEXSYS **FM8** FLEXSYS **FM10** FLEXSYS **FM12**

2-Way Active Coaxial Stage Monitor	2-Way Active Coaxial Stage Monitor	2-Way Active Coaxial Stage Monitor	Speaker Type
85 - 20.000 Hz	78 - 20.000 Hz	70 - 20.000 Hz	<b>Frequency Response [-3dB]</b>
117 dB	120 dB	126 dB	<b>Max SPL</b>
1"	1"	1"	<b>HF</b>
1"	1"	1.3"	<b>HF voice coil</b>
Compression driver	Compression driver	Compression driver	<b>Type HF</b>
60° x 60°	60° x 90°	60° x 90°	<b>Directivity</b>
CD horn	CD horn	CD horn	<b>Horn</b>
8" coaxial	10" coaxial	12" coaxial	<b>LF</b>
2"	2"	2"	<b>LF voice coil</b>
Digipack®	Digipack®	Digipack®	<b>Amp Technology</b>
Class-D	Class-D	Class-D	<b>Amp Class</b>
200 W	400 W	600 W	<b>PRG Power</b>
400 W	800 W	1200 W	<b>Peak Power</b>
DSP 56 Bit	DSP 56 Bit	DSP 56 Bit	<b>Controller</b>
24bit/48kHz	24bit/48kHz	24bit/48kHz	<b>AD/DA Converter</b>
8 presets	8 presets	8 presets	<b>System Presets</b>
Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal	<b>Limiter</b>
LF-HF: 1950 Hz	LF-HF: 1950 Hz	LF-HF: 1850 Hz	<b>Crossover Frequency</b>
24dB/oct	24dB/oct	24dB/oct	<b>Slope MF-HF</b>
Multiplex with H.E.T coating, reinforced	Multiplex with H.E.T coating, reinforced	Multiplex with H.E.T coating, reinforced	<b>Housing</b>
Multifunctional, Low Profile	Multifunctional, Low Profile	Multifunctional, Low Profile	<b>Housing Design</b>
2 monitor angles	2 monitor angles	2 monitor angles	<b>Angles Up</b>
280 mm (11.02 in)	370 mm (14.57 in)	450 mm (17.72 in)	<b>Width</b>
290 mm (11.42 in)	290 mm (11.42 in)	290 mm (11.42 in)	<b>Height</b>
410 mm (16.14 in)	410 mm (16.14 in)	410 mm (16.14 in)	<b>Depth</b>
9.8 kg (21.61 lbs)	12.8 kg (28.22 lbs)	17 kg (37.48 lbs)	<b>Weight</b>

# OPERA Series

OPERA 10  
OPERA 12  
OPERA 15

**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)**

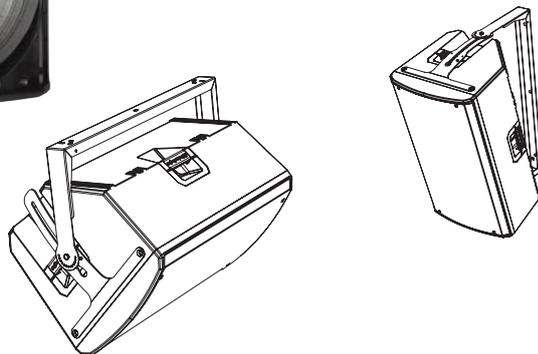
**8 EQ PRESETS**

## Professional Active Speakers



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 succeeded 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 asymmetrical 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 response.

# 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
<b>Speaker Type</b>	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
<b>Frequency Response [- 10dB]</b>	58 - 20.000 Hz	52 - 20.000 Hz	50 - 20.000 Hz
<b>Frequency Response [- 3dB]</b>	70 - 19.600 Hz	67 - 19.600 Hz	46 - 19.600 Hz
<b>Max SPL</b>	128 dB	129 dB	130 dB
<b>HF</b>	1" Exit, 1.4" v.c.	1" Exit, 1.4" v.c.	1" Exit, 1.4" v.c.
<b>Type HF</b>	Compression driver	Compression driver	Compression driver
<b>Horizontal Directivity</b>	110° (85° up / 120° down)	110° (85° up / 120° down)	110° (85° up / 120° down)
<b>Vertical Directivity</b>	85° (+25° / -60°)	85° (+25° / -60°)	85° (+25° / -60°)
<b>Horn</b>	Asymmetrical Horn	Asymmetrical Horn	Asymmetrical Horn
<b>LF</b>	10", 2" v.c.	12", 2" v.c.	15", 2" v.c.
<b>Amp Technology</b>	Amp SMPS Power supply dual range	Amp SMPS Power supply dual range	Amp SMPS Power supply dual range
<b>Amp Class</b>	Class-D	Class-D	Class-D
<b>RMS Power</b>	600 W	600 W	600 W
<b>Peak Power</b>	1200 W	1200 W	1200 W
<b>Controller</b>	DSP 56 bit	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24 bit / 48 kHz	24 bit / 48 kHz	24 bit / 48 kHz
<b>System Presets</b>	Rotary Encoder (8 presets)	Rotary Encoder (8 presets)	Rotary Encoder (8 presets)
<b>Crossover Frequency</b>	1800 Hz	1800 Hz	1800 Hz
<b>Limiters</b>	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal
<b>Advanced DSP Function</b>	Linear Phase FIR filters	Linear Phase FIR filters	Linear Phase FIR filters
<b>Signal Input</b>	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
<b>Signal Output</b>	1x XLR Male (Ch1 Link/Mix OUT) Selectable	1x XLR Male (Ch1 Link/Mix OUT) Selectable	1x XLR Male (Ch1 Link/Mix OUT) Selectable
<b>Housing</b>	Polypropylene	Polypropylene with Internal Frame	Polypropylene with Internal Frame
<b>Grille</b>	Full grille	Full grille	Full grille
<b>Handles</b>	1x Side, 1x Top	1x Side, 1x Top	1x Side, 1x Top
<b>Rigging Points</b>	2x M10 on Top + 1x M10 on Back	2x M10 on Top + 1x M10 on Back	2x M10 on Top + 1x M10 on Back
<b>Pole Mount</b>	D36 mm	D36 mm	D36 mm
<b>Angles Up</b>	Monitor use 45°	Monitor use 45°	Monitor use 45°
<b>Width</b>	300 mm (11.81 in)	350 mm (13.78 in)	420 mm (16.54 in)
<b>Height</b>	552 mm (21.73 in)	642 mm (25.28 in)	722 mm (28.43 in)
<b>Depth</b>	301 mm (11.85 in)	349 mm (13.74 in)	419 mm (16.50 in)
<b>Weight</b>	12.3 kg (27.12 lbs.)	14.3 kg (31.53 lbs.)	18.3 kg (40.34 lbs.)

# **B·HYPE** Series

B-Hype **8**  
B-Hype **10**  
B-Hype **12**  
B-Hype **15**

## **2-Way Active** Speakers

NEW PRODUCT  
2017

**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 multifunctionality.

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
<b>Frequency Response [- 10dB]</b>	65 - 20.000 Hz	55 - 20.000 Hz	55 - 20.000 Hz	51 - 20.000 Hz
<b>Frequency Response [- 6dB]</b>	70 - 19.600 Hz	62 - 19.600 Hz	61 - 19.500 Hz	57 - 19.700 Hz
<b>Max SPL</b>	120 dB	121 dB	126 dB	126.5 dB
<b>HF</b>	1" CD, 1" v.c.	1" CD, 1" v.c.	1" CD, 1" Neod. v.c.	1" CD, 1" Neod. v.c.
<b>LF</b>	8", 1.5" v.c.	10", 1.5" v.c.	12", 2" v.c.	15", 2" v.c.
<b>Horizontal Dispersion</b>	asymmetrical 85° up / 120° down			
<b>Vertical Dispersion</b>	85° (+25°/-60°)	85° (+25°/-60°)	85° (+25°/-60°)	85° (+25°/-60°)
<b>Crossover Frequency</b>	2300 Hz (24 dB/oct.)	2300 Hz (24 dB/oct.)	2100 Hz (24 dB/oct.)	2100 Hz (24 dB/oct.)
<b>Amp Technology</b>	Class-D	Class-D	Class-D	Class-D
<b>Peak Power</b>	260 Watt	260 Watt	400 Watt	400 Watt
<b>Controller</b>	DSP 56 bit	DSP 56 bit	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24 bit / 48 kHz			
<b>System Presets</b>	Flat, Processed	Flat, Processed	Flat, Processed	Flat, Processed
<b>Limiter</b>	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal	Peak, RMS, Thermal
<b>Housing</b>	Polypropylene PP	Polypropylene PP	Polypropylene PP	Polypropylene PP
<b>Handles</b>	3 (2 on sides, 1 on top)			
<b>Angles Up</b>	Monitor use 45°	Monitor use 45°	Monitor use 45°	Monitor use 45°
<b>Pole Mount</b>	Ø36 mm	Ø36 mm	Ø36 mm	Ø36 mm
<b>Width</b>	243 mm (9.57 in)	295 mm (11.61 in)	350 mm (13.77 in)	415 mm (16.34 in)
<b>Height</b>	443 mm (17.44 in)	544 mm (21.42 in)	645 mm (25.40 in)	725 mm (28.54 in)
<b>Depth</b>	231 mm (9.09 in)	283 mm (11.14 in)	330 mm (12.99 in)	391 mm (15.39 in)
<b>Weight</b>	6.6 kg (14.55 lbs.)	9 kg (19.84 lbs.)	13.9 kg (30.46 lbs.)	17.4 kg (38.36 lbs.)

# SUB

Series

SUB 15H  
 SUB 18H  
 SUB 615  
 SUB 618  
 SUB 28D  
 SUB 12D

## Active Subwoofers

dBTechnologies presents a complete family of active subwoofers (Sub H, Sub 600 and SUB D series) suitable for mid-sized to small venues. Compact systems conveying a deep, enveloping sound and excellent low-end performances even at a close listening distance.

### SUB 15H & SUB 18H

dBTechnologies new H Series subwoofers offer remarkable specifications and user-friendliness.

With 1000W PRG (1400W Peak Power) and a high-performance 15" woofer with 3" coil, the Sub 15H is especially suited for small to mid-sized events, where high performance needs to be packaged into compact size.

Whenever a lower extension is required, the perfect choice is the new Sub 18H, equipped with a 1500W PRG (2000W Peak Power) power amplifier and a high-performance 18" woofer with 4" coil.



Thanks to their unique configuration, called **Hybrid Horn-Loading**, boxes can be tuned to the lowest frequencies to improve system efficiency and convey a deep, enveloping sound.

Unlike conventional horn loaded systems, 15H and 18H subs ensure excellent efficiency even at close listening distance, which makes them suited for use even in small venues.

The new 15H sub offers stereo inputs with selectable link or crossover outputs, a crossover frequency switch at 90 or 120 Hz, a phase inversion switch and **built-in delay up to 4.5 ms** (adjustable in 0.5 ms steps).

The delay helps you to improve the correct coupling with the whole line-up of dBTechnologies full-range speakers, and make advanced subwoofer configurations without the help of any external processor (**Cardioid** or **End-Fire** or **Straight Line**).

The subs also feature a mini USB port to update system firmware and retrieve a telemetry log file that provides information on abnormal events, usage time and amplifier status.

# Active Subwoofers



The latest-generation digital amplifier Digipro™ G3 ensures excellent performance and low energy consumption thanks to its highly efficient, yet very lightweight system. The auto-range digital power supply allows it to operate both on 110V~ and on 220V~.

The new 56 Bit DSP with 24 Bit/48KHz A/D conv. provides sound performance above all expectations and perfect system control even under the most extreme operating conditions, thanks to its advanced limiting functions.

The PVC faced birch plywood speaker box is extra resistant also thanks to polypropylene edges that protect it from scratching or impacts during transport. This unique Hybrid Enclosure Technology offers outstanding strength and durability, making

your speaker truly road-ready, with their exclusives Aluminum heavy-duty handles.

The M20 threaded mount on the top end of the box permits any type of full-range speaker to be installed using a standard pole with M20 thread.

DS2-S mini pole is also available as an option to adapt any dBTechnologies speaker to 15H and 18H subs.



## SUB 15H

## SUB 18H

	SUB 15H	SUB 18H
<b>Speaker Type</b>	Semi Horn-loaded Active Subwoofer	Semi Horn-Loaded Active Subwoofer
<b>Frequency Response [- 10dB]</b>	35 - 150 Hz	28 - 150 Hz
<b>Max SPL</b>	133 dB	134 dB
<b>LF</b>	15"	18"
<b>LF voice coil</b>	3"	4"
<b>Amp Technology</b>	Digipro G3®	Digipro G3®
<b>Amp Class</b>	Class-D	Class-D
<b>PRG Power</b>	1000 W	1500 W
<b>Peak Power</b>	1400 W	2000 W
<b>Power supply</b>	700 W SMPS with PSU Auto-range (110V~ and 220V~)	1000 W SMPS with PSU Auto-range (110V~ and 220V~)
<b>Controller</b>	DSP 56 bit	DSP 56 bit
<b>AD/DA Converters</b>	24 bit/48 kHz	24 bit/48 kHz
<b>Limiters</b>	Dual Active, Multiband, RMS/Peak, Thermal	Dual Active, Multiband, RMS/Peak, Thermal
<b>Crossover Frequency</b>	90 or 120 Hz, 24dB/Octave	90 or 120 Hz, 24dB/Octave
<b>Controls</b>	X-Over frequency selection, Delay (up to 4.5 ms), Phase inversion switch	X-Over frequency selection, Delay (up to 4.5 ms), Phase inversion switch
<b>Signal Input</b>	2x XLR	2x XLR
<b>Signal Output</b>	2x XLR X-Over Out/Link Out	2x XLR X-Over Out/Link Out
<b>Housing</b>	Birch plywood, Black PVC cover	Birch plywood, Black PVC cover
<b>Handles</b>	2 (1x side)	2 (1x side)
<b>Pole mount</b>	M20 (aluminium)	M20 (aluminium)
<b>Width</b>	524 mm (20.63 in)	524 mm (20.63 in)
<b>Height</b>	511 mm (20.12 in)	711 mm (27.99 in)
<b>Depth</b>	695 mm (27.36 in)	695 mm (27.36 in)
<b>Weight</b>	31.5 kg (69.45 lbs.)	41.4 kg (91.27 lbs.)

**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**

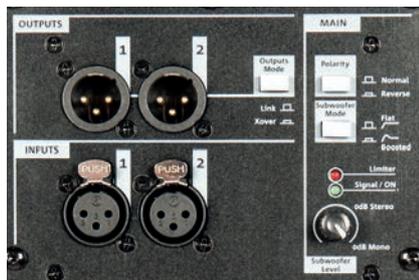
**POLARITY SWITCH**

**FLAT OR BOOST MODE SWITCH**

### 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. Both models features a 600W RMS Class D Power Amplifier with SMPS and are equipped with respectively 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 615

### SUB 618

	SUB 615	SUB 618
<b>Speaker Type</b>	Active Bass-reflex Subwoofer	Active Bass-reflex Subwoofer
<b>Frequency Response [- 10dB]</b>	42 - 124 Hz	35 - 130 Hz
<b>Max SPL (1m)</b>	131 dB	133 dB
<b>Directivity</b>	Omnidirectional	Omnidirectional
<b>LF</b>	15"	18"
<b>LF voice coil</b>	2.5"	2.5"
<b>Amp Technology</b>	SMPS digital amplifier	SMPS digital amplifier
<b>Amp Class</b>	Class-D	Class-D
<b>Peak Power</b>	1200 W	1200 W
<b>Controller</b>	DSP 24 bit/48 kHz	DSP 24 bit/48 kHz
<b> Limiter</b>	Peak, Thermal, RMS	Peak, Thermal, RMS
<b>Crossover Frequency</b>	90 Hz, 24dB/Octave	90 Hz, 24dB/Octave
<b>Controls</b>	Subwoofer level, Outputs mode, Polarity, Subwoofer mode	Subwoofer level, Outputs mode, Polarity, Subwoofer mode
<b>Signal Input</b>	2x XLR	2x XLR
<b>Signal Output</b>	2x XLR X-Over Out/Link Out	2x XLR X-Over Out/Link Out
<b>Housing</b>	Plywood	Plywood
<b>Handles</b>	2 (1x side)	2 (1x side)
<b>Pole mount</b>	D36 mm on top	D36 mm on top
<b>Width</b>	430 mm (16.92 in)	500 mm (19.69 in)
<b>Height</b>	580 mm (22.83 in)	625 mm (24.60 in)
<b>Depth</b>	600 mm (23.62 in)	690 mm (27.17 in)
<b>Weight</b>	25,5 kg (56.22 lbs)	31.1 kg (68.57 lbs)

# Active Subwoofers

## SUB 28D

### Active 2x8" Subwoofer

We engineered the SUB 28 D to provide low-end reinforcement for compact satellites such as dBTechnologies L and K Series speakers.

This light and lean enclosure houses two 8" woofers driven by a 800W digital power amp and an on-board digital stereo x-over. Setting up mono and stereo satellite systems is a piece of cake with this amp and DSP on board.



## SUB 12D

### Active 12" Subwoofer

Equipped with a 800W digital power amp, the SUB 12 D is the perfect complement to 8" or 10" speaker systems for users looking to set up small but assertive satellite systems that deliver exceptional performance.

Featuring compact dimensions and the innovative H.E.T™ housing, this unit is easy to transport and set up. Connecting satellites is an exercise in convenience thanks to an integrated digital crossover (DSP) with adjustable frequency.



## SUB 28D

## SUB 12D

Speaker Type	Active Bandpass Subwoofer	Active Bandpass Subwoofer
Frequency Response [- 10dB]	45 - 150 Hz	40 - 150 Hz
Max SPL	125 dB	127 dB
Directivity	Omnidirectional	Omnidirectional
LF	2x 8"	12"
LF voice coil	1.5"	2.5"
Amp Technology	Digipack™	Digipack™
Amp Class	Class-D	Class-D
Peak Power	800 W	800 W
Controller	DSP 24 bit/48 kHz	DSP 24 bit/48 kHz
Phase	0, 180°	0, 180°
Limiter	Dual Active Limiter	Dual Active Limiter
Crossover Frequency	110 Hz, 24dB/Octave	90 Hz, 24dB/Octave
System Presets	Flat, Boost	Flat, Boost
Signal Input	2x XLR	2x XLR
Signal Output	2x XLR X-Over Out/Link Out	2x XLR X-Over Out/Link Out
Housing	Multiplex with H.E.T coating, reinforced	Multiplex with H.E.T coating, reinforced
Handles	2 (1x side)	2 (1x side)
Pole mount	D36 mm on top	D36 mm on top
Width	290 mm (11.42 in)	390 mm (15.35 in)
Height	520 mm (20.47 in)	520 mm (20.47 in)
Depth	505 mm (19.88 in)	505 mm (19.88 in)
Weight	19.5 kg (42.99 lbs)	24 kg (52.91 lbs)



# MINIBOX Series

MINIBOX L80D  
MINIBOX L160D  
MINIBOX K300  
MINIBOX K162  
MINIBOX K70

## Compact Active Speakers

### MINIBOX L SERIES

#### L80D: Mini Box, Great Talent

MINIBOX L80D collects the technological heritage of the renowned MINIBOX L160D in a smaller and handy format. It is the ideal answer to all those musical and multimedia applications where a very compact, powerful and high-performance speaker is needed. Two 4" phase-corrected woofers, one equipped with a coaxial 1" dome tweeter, deliver astonishingly high sound pressure levels for their size and an amazingly transparent and articulate sonic image.

#### Technically evolved

The 80W Class-D Digipro® power amp with proven reliability and efficiency packs huge performance and operating efficiency into a lightweight solution that takes a very small footprint. The MINIBOX L80D features a powerful 56bit DSP with 24bit/48kHz AD/DA conversion, which allows the user to choose directly from the box the most adequate equalization for the desired use, by optimizing the performance without the need of external processors.



MINIBOX L80D



MINIBOX L160D

Speaker Type	2-Way Active Speaker	2-Way Active Speaker
<b>Freq. Response [-10dB]</b>	90 - 20.000 Hz	70 - 20.000 Hz
<b>Max SPL</b>	112 dB	116 dB
<b>HF</b>	1"	1"
<b>Type HF</b>	Dome tweeter, coaxial	Dome tweeter, coaxial
<b>Directivity</b>	85° x 75°	85° x 75°
<b>LF</b>	2x4"	2x5"
<b>Amp Technology</b>	Digipro®	Digipro®
<b>Amp Class</b>	Class-D	Class-D
<b>PRG Power</b>	80 W	160 W
<b>Cooling</b>	Convection	Convection
<b>Controller</b>	DSP 56 bit	DSP 56 bit
<b>AD/DA Converter</b>	24bit/48kHz	24bit/48kHz
<b>System Presets</b>	8	8
<b>Limiters</b>	Dual Active Peak, RMS, Thermal	Dual Active Peak, RMS, Thermal
<b>Signal Input</b>	1x XLR Line In/Mic 1x 6.3mm phone jack	1x XLR Line In/Mic 1x 6.3mm phone jack
	1x RCA cinch AUX with volume ctrl	1x RCA cinch AUX with volume ctrl
<b>Microphone Input</b>	Yes	Yes
<b>Signal Output</b>	1x 6.3mm phone jack	1x 6.3mm phone jack
<b>Power Socket</b>	VDE	VDE
<b>Voltage Range</b>	110-120 - 220-240 V	110-120 - 220-240 V
<b>Housing</b>	Polypropylene PP	Polypropylene PP
<b>Angles Up</b>	Monitor use 60°	Monitor use 60°
<b>Rigging Points</b>	2x M5 on side 2x M5 on bottom	2x M5 on side 2x M5 on bottom
<b>Width</b>	155 mm (6.10 in)	200 mm (7.87 in)
<b>Height</b>	265 mm (10.43 in)	335 mm (13.19 in)
<b>Depth</b>	180 mm (7.09 in)	220 mm (8.66 in)
<b>Weight</b>	3.75 kg (8.27 lbs.)	5.2 kg (11.46 lbs.)



# Compact Active Speakers



## MINIBOX K SERIES

### Active Speakers

The most powerful compact cabinet in its class, the K300 is chock-full of innovative technologies.

Housed in an ultra compact enclosure, its digipro® bi-amped digital power amp delivers high performance and sound pressure levels. The 1" HF driver renders midrange frequencies with pinpoint precision, and its response is richly detailed.

The integrated DSP further enhances clarity and accuracy, and protects components using digital limiters.



## MINIBOX K70    MINIBOX K162    MINIBOX K300

Speaker Type	2-Way Active Speaker	2-Way Active Speaker	2-Way Active Speaker
<b>Freq. Response [- 10dB]</b>	100 - 18.000 Hz	85 - 19.000 Hz	70 - 20.000 Hz
<b>Max SPL</b>	101 dB	110 dB	118 dB
<b>HF</b>	Tweeter	Tweeter	1" Neodymium driver
<b>LF</b>	5"	2x 6.5"	2x 6.5" Neo
<b>Amp Class</b>	Class-AB	Class-AB	Class-D, Digipro®
<b>PRG Power</b>	100 W	160 W	300 W
<b>Cooling</b>	Convection	Convection	Convection
<b>Controller</b>	Analog	Analog	DSP 24bit/48kHz
<b>Limiter</b>	Soft Clip	Soft Clip	Dual Active, Peak, RMS, Thermal
<b>Signal Input</b>	1x XLR 1x 6.3mm phone jack 1x RCA cinch	1x XLR 1x 6.3mm phone jack 1x RCA cinch	1x XLR 1x 6.3mm phone jack 1x RCA cinch
<b>Microphone Input</b>	Yes	Yes	Yes
<b>Signal Output</b>	1x XLR 1x 6.3mm phone jack 1x RCA cinch	1x XLR 1x 6.3mm phone jack 1x RCA cinch	1x XLR 1x 6.3mm phone jack 1x RCA cinch
<b>Power Socket</b>	VDE	VDE	VDE
<b>Housing</b>	Polypropylene PP	Polypropylene PP	Polypropylene PP
<b>Pole Mount</b>	Optional	Optional	Optional
<b>Rigging Points</b>	2x M5	4x M5	4x M5
<b>Width</b>	170 mm (6.69 in)	210 mm (8.27 in)	210 mm (8.27 in)
<b>Height</b>	270 mm (10.63 in)	350 mm (13.78 in)	350 mm (13.78 in)
<b>Depth</b>	185 mm (7.28 in)	270 mm (10.63 in)	270 mm (10.63 in)
<b>Weight</b>	3.5 kg (7.72 lbs.)	5.5 kg (12.12 lbs.)	5.5 kg (12.12 lbs.)

READY 4 Mk2

# Battery-powered Bi-amp Speaker

 Bluetooth®

**SELF-POWERED SPEAKER**

**BACK PANEL FOR FAST ACCESS TO THE BATTERY**

**DIGITAL CLASS-D AMPLIFIER**

**SMPS WITH AUTO-RANGE  
(WORKS AT 110V~ OR 220V~)**

**UHF 16 CH DIVERSITY RECEIVER BUILT-IN**

**XLR/JACK TRS/RCA INPUTS**

**USB PORT (FOR MP3 MEDIA PLAYERS)**

**BLUETOOTH® RECEIVER (OPTIONAL)**

**MIX OUTPUT**

**ULTRA-BRIGHT OLED SCREEN FOR USER INTERFACE**



# Battery-powered Bi-amp Speaker

## Technology on the move

After the great success of the Mobile 110 sport speaker, dBTechnologies is introducing Ready 4, a high-performance and versatile speaker that will set a new standard for portable PA systems.



Featured with multiple power supply options (battery/power mains), the new Ready 4 can be used in any situation. **The battery ensures several hours of autonomy.** An exhausted battery can be quickly replaced with a charged battery through the back removable panel. The speaker can be connected to 220 V or 110 V AC power, thanks to an SMPS with auto-range, or a 15 V power supply via an optional external adapter.

Based on the Black Line series box, the new Ready 4 features a stylish contemporary design that will suit any situation.

An optional **Bluetooth®** board, together with an integrated **UHF 16ch diversity receiver**, an **MP3 USB reader** and a stereo RCA input, enhances the excellent potential of the new Ready 4, placing it right at the top of its category. A **smart OLED day-viewable screen** can control all previous functions with an incredible ease of use.

A very wide choice of accessories are available for the Ready 4, ranging from an optional Bluetooth® stereo receiver module to lavalier, headset or handheld transmitter.



## READY 4 Mk2 Accessories

<b>BT-Ready 4</b>	Bodypack transmitter
<b>HM-Ready 4</b>	Headset Microphone
<b>HT-Ready 4</b>	Handheld transmitter
<b>PSU-R4</b>	15 Vdc 3A power supply for READY 4
<b>TC R4</b>	Ready 4 Functional cover

## READY 4 Mk2

<b>Speaker Type</b>	Bi-amp battery-powered speaker
<b>Frequency Response [-10dB]</b>	70 - 20.000 Hz
<b>Max SPL</b>	120 dB
<b>HF</b>	1", 1" v.c.
<b>Directivity</b>	80°/65° x 60°
<b>Horn</b>	Asymmetrical CD Horn
<b>LF</b>	10", 1.5" v.c.
<b>Power Amp</b>	Class-D Digipro G2® 200W Peak
<b>Controller</b>	DSP 56 bit
<b>AD/DA converter</b>	24bit/48kHz
<b>DSP</b>	6 presets EQ + User EQ Voice-Over function
<b>Limiter</b>	Dual active-Multiband RMS/Peak, Thermal
<b>Special features</b>	Digital battery charger, Battery management and power saving functions
<b>User Interface</b>	1x OLED Display with 4 keys for speaker management
<b>Wireless Input</b>	1x UHF diversity receiver, IR sync function
<b>Mic/Line Input</b>	XLR / 1/4" Jack Combo
<b>Input Sens.</b>	2-way switch (Mic - Line)
<b>Stereo Media Aux Input</b>	2x RCA
<b>USB Media Reader</b>	USB Type "A" port for media files (MP3-WMA-AAC)
<b>Service USB</b>	USB Type "B" input
<b>Bluetooth® Input</b>	1x Bluetooth® receiver
<b>Mix Out</b>	1/4" Jack (unbalanced)
<b>Volume Controls</b>	4x rotative knobs (Master, Mic/Line, Wireless, Media)
<b>Indicators</b>	2x LEDs (LIMITER, SIGNAL)
<b>Mains</b>	VDE Socket
	1x 3-position switch (External Power, Off, Internal Battery)
<b>Housing</b>	Polypropylene PP
<b>Angles Up</b>	Monitor use 43°
<b>Handles</b>	One on top
<b>Pole Mount Plate</b>	D36mm standard
<b>Grille</b>	1.2 mm metal with foam
<b>Width</b>	343 mm (13.72 in)
<b>Height</b>	553 mm (22.77 in)
<b>Depth</b>	304 mm (11.97 in)
<b>Weight</b>	11.3 kg (24.91 lbs.)

ARENA 8  
ARENA 10  
ARENA 12  
ARENA 15  
ARENA SW15  
ARENA SW18

## Professional Passive Speakers & Subs



**ARENA 8    ARENA 10    ARENA 12    ARENA 15**

Speaker Type	2-Way Passive Speaker	2-Way Passive Speaker	2-Way Passive Speaker	2-Way Passive Speaker
<b>RMS Power</b>	200 W	300 W	400 W	400 W
<b>Peak Power</b>	400 W	600 W	800 W	800 W
<b>Impedance</b>	8 Ohms	8 Ohms	8 Ohms	8 Ohms
<b>Frequency Response [-3dB]</b>	100 - 19,000 Hz	95 - 19,000 Hz	80 - 19,000 Hz	80 - 19,000 Hz
<b>Max SPL</b>	122 dB	125 dB	127 dB	129 dB
<b>HF</b>	1"	1"	1"	1"
<b>Driver Protection</b>	PTC	PTC	PTC	PTC
<b>Directivity</b>	90x70°	90x70°	90x40°	90x40°
<b>Horn</b>	Rotatable CD horn	Rotatable CD horn	Rotatable CD horn	Rotatable CD horn
<b>X-over Frequency (passive)</b>	2100 Hz	2100 Hz	2000 Hz	2000 Hz
<b>LF</b>	8"	10"	12"	15"
<b>Voice Coil LF</b>	1.5"	2"	2"	2.5"
<b>Signal Input</b>	1x Speakon (Pin 1+)=) (Pin 1=-)	11x Speakon (Pin 1+)=) (Pin 1=-)	1x Speakon (Pin 1+)=) (Pin 1=-)	1x Speakon (Pin 1+)=) (Pin 1=-)
<b>Signal Output</b>	1x Speakon (Pin 1+)=) (Pin 1=-)	1x Speakon (Pin 1+)=) (Pin 1=-)	1x Speakon (Pin 1+)=) (Pin 1=-)	1x Speakon (Pin 1+)=) (Pin 1=-)
<b>Housing</b>	Multiplex birch plywood	Multiplex birch plywood	Multiplex birch plywood	Multiplex birch plywood
<b>Pole mount</b>	36mm	36mm	36mm	36mm
<b>Angles Up</b>	Monitor use 45°	Monitor use 45°	Monitor use 45°	Monitor use 45°
<b>Rigging Points</b>	12 x M8	10 x M8	12 x M10	12 x M10
<b>Handles</b>	1 on top	1 on rear	2 (1x side)	2 (1x side)
<b>Width</b>	270 mm (10.63 in)	321 mm (12.64 in)	379 mm (14.92 in)	458 mm (18.03 in)
<b>Height</b>	458 mm (18.03 in)	508 mm (20.00 in)	631 mm (24.84 in)	710 mm (27.95 in)
<b>Depth</b>	270 mm (10.63 in)	320 mm (12.60 in)	378 mm (14.88 in)	453 mm (17.83 in)
<b>Weight</b>	9.3 kg (20.50 lbs.)	12.2 kg (26.90 lbs.)	17.8 kg (39.24 lbs.)	23.7 kg (52.25 lbs.)

# Professional Passive Speakers & Subs



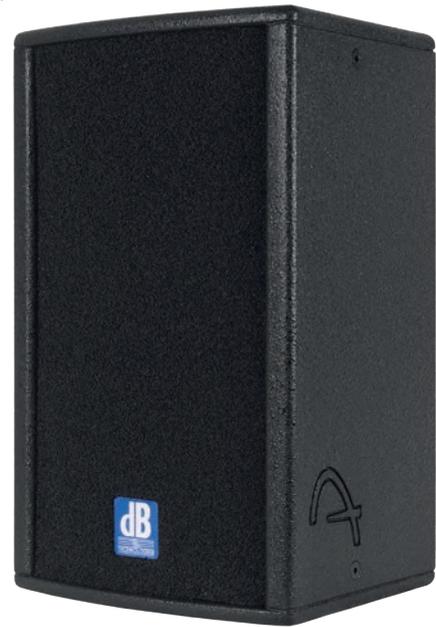
The passive loudspeaker range ARENA offers high-quality 2-way enclosures and powerful subwoofers. This series can be used for many different mobile or fixed install applications due to its extensive configurations.

All high/mid units use a multipurpose housing made out of multilayer birch wood, offering a pole mount, 12 professional flypoints and a slanted backside for monitor applications.

Due to the premium loudspeaker components, all units are able to handle high sound pressure levels.

They offer outstanding, specially designed constant directivity horns which are rotatable by 90°, thanks to the symmetrical shape. The low weight of the enclosures allows easy handling.

All models are equipped with a black front grill with acoustic foam layer.



## ARENA SW15

## ARENA SW18

Passive Subwoofer	Passive Subwoofer	Speaker Type
500 W	600 W	<b>RMS Power</b>
1000 W	1200 W	<b>Peak Power</b>
8 Ohms	8 Ohms	<b>Impedance</b>
40 - 150 Hz	35 - 150 Hz	<b>Frequency Response [- 3dB]</b>
130 dB	132 dB	<b>Max SPL</b>
150 Hz	150 Hz	<b>X-over Frequency (passive)</b>
15"	18"	<b>LF</b>
3"	4"	<b>Voice Coil LF</b>
1x Speakon (Pin 1+=+) (Pin 1=-)	1x Speakon (Pin 1+=+) (Pin 1=-)	<b>Signal Input</b>
1x Speakon (Pin 1+=+) (Pin 1=-)	1x Speakon (Pin 1+=+) (Pin 1=-)	<b>Signal Output</b>
Multiplex birch plywood	Multiplex birch plywood	<b>Housing</b>
M20 on top	M20 on top	<b>Pole mount</b>
2 (1x side)	2 (1x side)	<b>Handles</b>
460 mm (18.11 in)	565 mm (22.24 in)	<b>Width</b>
600 mm (23.62 in)	700 mm (27.56 in)	<b>Height</b>
600 mm (23.62 in)	700 mm (27.56 in)	<b>Depth</b>
34 kg (74.96 lbs.)	44 kg (97.00 lbs.)	<b>Weight</b>

### Passive 15" Subwoofer

The ARENA SW15 offers a 15" woofer with a 3" voice coil, which can take a load up to 500W/ RMS, putting out an extraordinary SPL of 130dB at very powerful low end frequencies.

It can be easily combined with ARENA10 and ARENA12 high/mid units, due to the internal passive crossover. Also possible is the bi-amp operation using an external crossover unit.

### Passive 18" Subwoofer

The 4" voice coil of the ARENA SW18 delivers powerful and accurate low frequency reproduction, down to 35Hz, at a maximum load of 600W/RMS.

Sound pressure levels of up to 132dB at a crossover frequency of 150Hz using the internal crossover make this subwoofer the professionals choice.

This woofer can be easily combined with the ARENA satellite units, using just one external power amp.

# OPERA P

PASSIVE SPEAKER



**OPERA P15** is a passive speaker studied for sound reinforcement applications in small-to-medium venues. Despite its compact size, it delivers high sound pressure with a very flat frequency response.

The P15 is equipped with a 15" woofer (3" voice coil) and a 1" compression driver (1.75" voice coil), loaded with 80°/65°x60° asymmetric horn.

It is also equipped with an internal passive filter, to allow separate management of acoustic components by splitting the incoming audio signal into low and high frequencies. Crossover filters have a slope of 12dB/oct. for the low-pass and 18dB/oct. for the high-pass. High-frequency transducer is also

protected from overloads through a self-resetting thermal protection circuit (PTC).

The speaker is made in reinforced polypropylene and the acoustic components are protected by 1.2mm metal grille with internal foam.

The polypropylene satisfies rigorous quality standards in the production of professional acoustic speakers. The use of this material makes it possible to obtain products with innovative design and suitable for various fields of application because of its strength and lightness.

## OPERA P15

<b>Speaker Type</b>	2-Way Passive Speaker
<b>Frequency Response [-10dB]</b>	68 - 19,500 Hz
<b>Max SPL</b>	128 dB
<b>RMS Power</b>	400 W
<b>Peak Power</b>	800 W
<b>Impedance</b>	8 Ohms
<b>HF</b>	1" (1.75" v. c.)
<b>Directivity</b>	80°/65°x 60°
<b>Horn</b>	Asymmetrical Horn
<b>Driver Protection</b>	PTC
<b>X-over Frequency (passive)</b>	2100 Hz
<b>LF</b>	15"(3" v. c.)
<b>Signal Input</b>	2x Speakon
<b>Housing</b>	Polypropylene PP
<b>Angles Up</b>	Monitor use 43°
<b>Handles</b>	Two on sides, one on top
<b>Pole Mount</b>	D36 mm
<b>Width</b>	432 mm (17.01 in)
<b>Height</b>	655 mm (25.79 in)
<b>Depth</b>	353 mm (13.90 in)
<b>Weight</b>	18.4 kg (40.57 lbs.)

## HPA Amplifiers

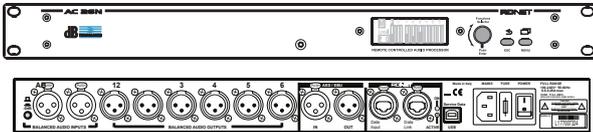


### HPA 1000 HPA 1400 HPA 2800 HPA 3100

<b>Power Output RMS (Stereo/Mono mode)</b>				
<b>2 ohms</b>	-	-	2 x 1400W	2 x 1700W
<b>4 ohms</b>	2 x 510W	2 x 740W	2 x 1050W	2 x 1200W
<b>8 ohms</b>	2 x 330W	2 x 440W	2 x 680W	2 x 800W
<b>Power Output RMS (Bridge mode)</b>				
<b>4 ohms</b>	-	-	1 x 2800W	1 x 3400W
<b>8 ohms</b>	1 x 1020W	1 x 1480W	1 x 2100W	1 x 2400W
<b>Amplifier Class</b>	Class AB	Class H	Class H	Class HD
<b>Distortion (THD+N)</b>	<0,05% @ 1KHz and 1dB below clipping			
<b>Signal To Noise ratio</b>	105dB	105dB	106dB	108dB
<b>Input impedance</b>	20Kohm balanced/10Kohm unbalanced			
<b>Protections</b>	Temperature, DC, RFI, short circuit, Thermal power transformer			
<b>Cooling</b>	2 x variable speed fan			
<b>Power supply</b>	220-230Vac 50/60Hz		SMPS, 220-230Vac 50/60Hz	
<b>Circuit breaker</b>	T8A	T10A	T15A	T15A
<b>Rear power supply socket</b>	VDE -15A	VDE -15A	VDE -15A	VDE -15A
<b>Width</b>	483 mm (19.01 in)	483 mm (19.01 in)	483 mm (19,01 in)	484 mm (19.05 in)
<b>Height</b>	400 mm (15.75 in)	400 mm (15.75 in)	400 mm (15.75 in)	431 mm (16.97 in)
<b>Depth</b>	89 mm (3.50 in)	89 mm (3.50 in)	89 mm (3.50 in)	89 mm (3.50 in)
<b>Rack height</b>	2U			
<b>Net weight</b>	15.25Kg (33.62 lbs.)	17.25Kg (38.03 lbs.)	21.35Kg (47.07 lbs.)	14Kg (30.86 lbs.)

## ELECTRONICS

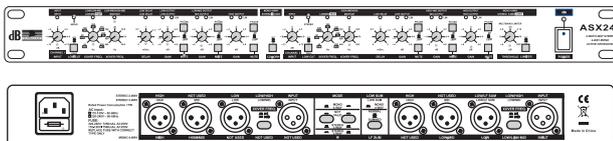
### AC26N



#### Description

Digital Audio Processor, 2 in - 6 out, Full Range power supply, RDNet Hardware Interface, USB interface, remotable via RDNet or USB. AES-EBU in/out. Max input level 21dBu (without pad) / 27dBu (with -6dB pad). Max output level 21dBu. DSP Processing: 28/56bit - 48Khz. A/D and D/A Converts: 24bit - 96Khz

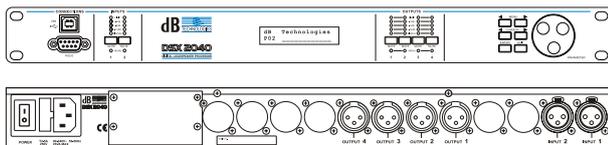
### ASX 24



#### Description

2-Way/3-Way stereo - 4-Way Mono Active Crossover. 2x XLR-Input with 25Hz high-pass filter switch, 6x XLR-Output, high quality 24dB/octave slope Linkwitz-Riley filters, In/Out level controls, xover frequency selection for all bands, mute key and phase reversal for each band, adjustable delay time up to 2ms for outputs, "LOW SUM" function to convey the whole LF range of L&R channels to a mono sub out, multiband limiter with adjustable threshold

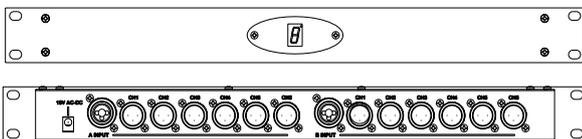
### DSX 2040



#### Description

Digital 2 in 4 controller, 48Khz/32-bit signal processing, dynamic range >110dB(A), 3000ms total delay, 4 parameters. EQs per in- and output, programmable x-over and routing-section, editable limiter per output, large LC-Display, bank for 30 presets, USB-interface for programming and data-transfer, 19", 1U, in- and outputs on balanced XLR

### SWITCH 6



#### Description

2 x XLR-Input into 2x6 XLR-Output, 1 Unit with LED Display and Remote Control. Up to 6 units in parallel mode

## ELECTRONICS FOR WIRELESS PRODUCTS

	Description	Designed for
<b>PSU-R4</b>	15 Vdc 3A power supply for READY 4	READY 4 Mk2
<b>HT-READY 4</b>	READY 4 handheld microphone with compatible ISM (863-865MHz) band radio transmitter	READY 4 Mk2
<b>BT-READY 4</b>	READY 4 compatible ISM (863-865MHz) band belt transmitter	READY 4 Mk2
<b>HM-READY 4</b>	Headset microphone for Ready 4	READY 4 Mk2
<b>IC-B</b>	Guitar cable for Moving One	MOVING ONE

# Accessories

## BAGS/COVERS

	Description	Designed for
<b>FC-OP10</b>	Functional cover for OPERA 10	OPERA 10
<b>FC-OP12</b>	Functional cover for OPERA 12	OPERA 12
<b>FC-OP15</b>	Functional cover for OPERA 15	OPERA 15
<b>GBA 8</b>	Bag for Arena 8	ARENA 8
<b>GBA 10</b>	Bag for Arena 10	ARENA 10
<b>GBA 12</b>	Bag for Arena 12	ARENA 12
<b>GBA 15</b>	Bag for Arena 15	ARENA 15
<b>RC-M1</b>	Magnetic Rain cover for INGENIA Series	IG1T / IG2T / IG3T / IG4T
<b>RC MS12-SUBH</b>	Rain cover for SUB 15H and 18H	SUB 15H / SUB 18H
<b>TC-160D</b>	Bag for two MINIBOX L160D	2x L160D
<b>TC-28D</b>	Bag for SUB 28D	SUB 28D
<b>TC-BH8</b>	Tour cover for B-Hype 8	B-Hype 8
<b>TC-BH10</b>	Tour cover for B-Hype 10	B-Hype 10
<b>TC-BH12</b>	Tour cover for B-Hype 12	B-Hype 12
<b>TC-BH15</b>	Tour cover for B-Hype 15	B-Hype 15
<b>TC CR08</b>	Tour cover for Cromo 8+	CROMO 8+
<b>TC CR10</b>	Tour cover for Cromo 10+	CROMO 10+
<b>TC CR12</b>	Tour cover for Cromo 12+	CROMO 12Club / CROMO 12+
<b>TC-ES10</b>	Tour cover for ES 602 subwoofer	ES 602 subwoofer
<b>TC-ES12</b>	Tour cover for ES 503 or ES 802 subwoofer	ES 503 or ES 802 subwoofer
<b>TC-ES212</b>	Tour cover for ES 1203 sub (included in ES 1203 system)	ES 1203 subwoofer
<b>TC-ES44</b>	Bag for 2 ES 1203 tops, D35mm pole and cable (included in ES 1203 system)	2x ES 1203 top
<b>TC-ESTOP</b>	Tour cover for 2 ES tops, D25mm pole and cable	2x ES 503 or 802 top or 2x L80D
<b>TC F8</b>	Tour cover for LVX 8 and FLEXSYS F8	LVX 8 / FLEXSYS F8
<b>TC F10</b>	Tour cover for LVX 10 and FLEXSYS F10	LVX 10 / FLEXSYS F10
<b>TC F12</b>	Tour cover for LVX 12 and FLEXSYS F12	LVX 12 / FLEXSYS F12
<b>TC F15</b>	Tour cover for LVX 15 and FLEXSYS F15	LVX 15 / FLEXSYS F5
<b>TC F212</b>	Tour cover for FLEXSYS F212	FLEXSYS F212
<b>TC F315</b>	Tour cover for FLEXSYS F315	FLEXSYS F315
<b>TC-IG1T</b>	Tour cover for IG1T	IG1T
<b>TC-IG2T</b>	Tour cover for IG2T	IG2T
<b>TC-IG3T</b>	Tour cover for IG3T	IG3T
<b>TC-IG4T</b>	Tour cover for IG4T	IG4T
<b>TC R4</b>	Tour cover for Ready 4	READY 4

# Accessories

	<b>Description</b>	<b>Designed for</b>
<b>TC S05D</b>	Tour cover for Sub 05D	SUB 05 D
<b>TC S12D</b>	Tour cover for Sub 12D	SUB 12 D
<b>TC S15D</b>	Tour cover for Sub 15D	SUB 15 D
<b>TC S18D</b>	Tour cover for Sub 18D	SUB 18 D
<b>TC S28D</b>	Tour cover for Sub 28D	SUB 28D
<b>TC-S615</b>	Tour cover for SUB 615	SUB 615
<b>TC-S618</b>	Tour cover for SUB 618	SUB 618
<b>TC S808D</b>	Tour cover for Sub 808D	SUB 808D
<b>TC S15H</b>	Tour cover for SUB 15H	SUB 15H
<b>TC S18H</b>	Tour cover for SUB 18H	SUB 18H
<b>TC SW15</b>	Tour cover for Arena Subs SW15 - SW15PRO	ARENA SW 15 / ARENA SW15 PRO
<b>TC SW18</b>	Tour cover for Arena Subs SW18 - SW18PRO	ARENA SW 18 / ARENA SW18 PRO
<b>TT 06</b>	Cover for K-Series speakers	K 162 / K 300
<b>TT OP08</b>	Tour cover for Opera 508DX	OPERA 508 DX
<b>TT OP10</b>	Tour cover for Opera DX 10" models	OPERA DX 10" Models
<b>TT OP25</b>	Tour cover for Opera DX 12" - 15" models	OPERA DX 12" Models / OPERA 15" Models

## CABLES

	<b>Description</b>	<b>Designed for</b>
<b>AFL 05</b>	PowerCon-PowerCon link cable. 1.5m length. Used to link Sigma SUB > Sigma Top; SUB 18D > F212; SUB 15D > F212	SIGMA S115 / S115F / S118 / S215 / S218
<b>C-01</b>	PowerCon-Out cable IEC, 2m [6.56 feet]	All speakers with PowerCon mains input
<b>C-02</b>	Mains cable, 10m [32.8 feet]	All speakers with PowerCon mains input
<b>DCK-4P</b>	Kit composed by 2x speakon cables (4 p), 7m [23 feet]	ES 503 / ES 1203
<b>DAC-70</b>	XLR-XLR Audio Cable (70cm)	IG1T / IG2T
<b>DAC-100</b>	XLR-XLR Audio Cable (100cm)	IG3T / IG4T
<b>DPC-240A</b>	PowerCon Gray Link-PowerCon TRUE1 In Link cable use to link SUB-15H/18H to Ingenia Series (240 cm)	All SUB-H MODELS with all INGENIA MODELS
<b>DPTC-1000M</b>	Mains power cable with PowerCon TRUE1 (10m)	All INGENIA MODELS
<b>DPTC-120L</b>	PowerCon TRUE1-PowerCon TRUE1 Link cable (120cm)	IG1T / IG2T
<b>DPTC-170L</b>	PowerCon TRUE1-PowerCon TRUE1 Link cable (170cm)	IG3T / IG4T

# Accessories

## INSTALLATION

### ARENA WALLBRACKETS

#### WB A8



**Description**

“U” Wall mount bracket for Arena 8

**Designed for**

ARENA 8

#### WB A10



**Description**

“U” Wall mount bracket for Arena 10

**Designed for**

ARENA 10

#### WB A12



**Description**

“U” Wall mount bracket for Arena 12

**Designed for**

ARENA 12

#### WB A15



**Description**

“U” Wall mount bracket for Arena 15

**Designed for**

ARENA 15

#### WB A810-WB 06



**Description**

Adjustable wall-mount bracket with knobs

**Designed for**

ARENA 8, ARENA 10, CROMO 8+ / 10+

### ES ACCESSORIES

#### DP-ES1203



**Description**

Designed pole for ES 1203

**Designed for**

ES 1203

#### DS-25D



**Description**

Pole Mount Ø 25mm, adjustable, M20 thread.

**Designed for**

ES 503

#### SK-25TT



**Description**

Kit composed by 2x Tripods (D25mm) + bag

**Designed for**

ES 503

#### WB-25V



**Description**

Wall bracket for ES 503 / 602 / 802 top. It can be used for vertical wall mounting

**Designed for**

ES 503 / 602 / 802 tops

#### WB-44



**Description**

Wall bracket for ES 1203 top.

**Designed for**

ES 1203 tops

## INGENIA ACCESSORIES

### DRK-IG



**Description**

Flybar for INGENIA Series

**Designed for**

IG1T / IG2T / IG3T / IG4T

### GSA-IG



**Description**

Adapter for ground-stacking INGENIA speakers on dBTechnologies subwoofers

**Designed for**

IG1T / IG2T / IG3T / IG4T

### GSA-IGA



**Description**

Adjustable adapter for ground-stacking INGENIA speakers on dBTechnologies subwoofers

**Designed for**

IG1T / IG2T / IG3T / IG4T

### LP-IG



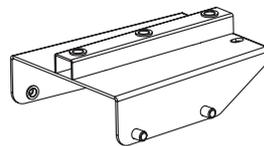
**Description**

Link bracket for INGENIA Series. Sold in pairs

**Designed for**

IG1T / IG2T / IG3T / IG4T

### M10B-IG1T



**Description**

M10/Spigot bracket for IG1T

**Designed for**

IG1T

### STA-IG



**Description**

Spigot truss adapter for INGENIA Series

**Designed for**

IG1T / IG2T / IG3T / IG4T

### TA-IG



**Description**

Adapter for attaching DRK-IG and INGENIA speakers to stage trusses

**Designed for**

DRK-IG

### WB-IG14



**Description**

Wall bracket for mounting IG1T or IG4T, 1 or 2 coupled speakers vertically, only 1 horizontally

**Designed for**

IG1T / IG4T

### WB-IG2



**Description**

Wall bracket for mounting IG2T, 1 or 2 coupled speakers vertically, only 1 horizontally

**Designed for**

IG2T

## LVX BRACKETS

### WB-L8H



**Description**

Horizontal wall mounting bracket for LVX 8. White available

**Designed for**

LVX 8, FLEXSYS F8

### WB-L10H



**Description**

Horizontal wall mounting bracket for LVX 10. White available

**Designed for**

LVX 10, FLEXSYS F10

### WB-L12H



**Description**

Horizontal wall mounting bracket for LVX 12. White available

**Designed for**

LVX 12, FLEXSYS F12

# Accessories

## WB-L15H



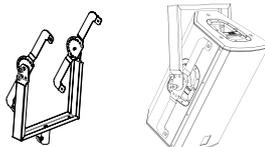
### Description

Horizontal wall mounting bracket for LVX 15. White available

### Designed for

LVX 15, FLEXSYS F15

## WB-L8V



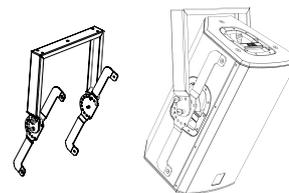
### Description

Vertical wall mounting bracket for LVX 8. White available

### Designed for

LVX 8, FLEXSYS F8

## WB-L10V



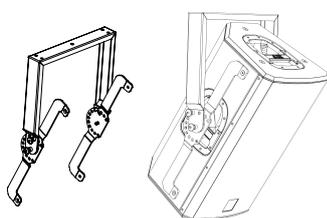
### Description

Vertical wall mounting bracket for LVX 10. White available

### Designed for

LVX 10, FLEXSYS F10

## WB-L12V



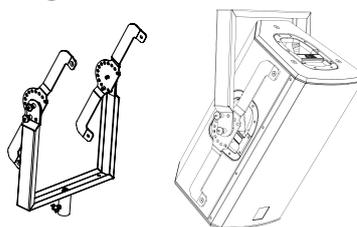
### Description

Vertical wall mounting bracket for LVX 12. White available

### Designed for

LVX 12, FLEXSYS F12

## WB-L15V



### Description

Vertical wall mounting bracket for LVX 15. White available

### Designed for

LVX 15, FLEXSYS F15

## MINIBOX ACCESSORIES

## AK 50



### Description

Removable handle for MINIBOX K162 and K300

### Designed for

K 162 / K 300

## SA25



### Description

D25mm speaker stand adaptor for MINIBOX Series. Tilt adjustable gear and locking screw

### Designed for

L 80D / L 160D / K 70 / K 162 / K 300

## SN 130



### Description

MINIBOX adapter for Microphone stands

### Designed for

L 80D / L 160D / K 70 / K 162 / K 300

## WB 03 & WB 03W



### Description

Swivel and tilt wall-mount bracket for MINIBOX Series. White available

### Designed for

L 80D / L 160D / K 70 / K 162 / K 300

## WB 11



### Description

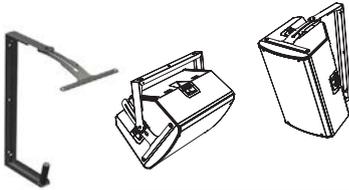
Universal wall mount bracket for MINIBOX Series

### Designed for

L 80D / L 160D / K 70 / K 162 / K 300

## OPERA BRACKETS

### WB-OP10



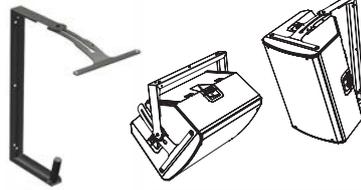
**Description**

Horizontal/Vertical wall bracket

**Designed for**

OPERA 10

### WB-OP12



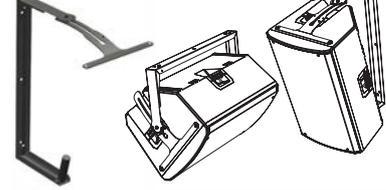
**Description**

Horizontal/Vertical wall bracket

**Designed for**

OPERA 12

### WB-OP15



**Description**

Horizontal/Vertical wall bracket

**Designed for**

OPERA 15

### WB D10



**Description**

Wall bracket "U" shaped, for wall or truss mounting, either vertically or horizontally

**Designed for**

For all Opera DX and BL 10"

### WB D25



**Description**

Wall bracket "U" shaped, for wall or truss mounting, either vertically or horizontally

**Designed for**

For all Opera DX and BL 12" and 15" models

## MISCELLANEOUS

### AFL 01



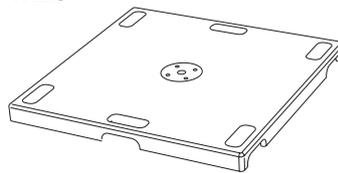
**Description**

Speaker pole for SUB D, Ø 35mm, adjustable

**Designed for**

SUB 05 D / SUB 12 D / SUB 28D / SUB 808D

### BP-M20



**Description**

Base plate for securing SIGMA S218, with M20

**Designed for**

SIGMA S218

### DS-2



**Description**

Pole Mount Ø 35mm, adjustable, M20 thread

**Designed for**

SUBs H / ARENA SW 15 / ARENA SW 18

### DS2-S



**Description**

Pole Mount M20 thread, 20cm length

**Designed for**

SUB 15H / SUB 18H / SUB 615 / SUB 618

### SK-36TT



**Description**

Kit composed by 2x Tripods (D35mm) + bag

**Designed for**

All speakers with D36mm pole mount cup

### TE M8



**Description**

Eye-bolt set (4 pcs) with M8-thread

**Designed for**

ARENA 8 / 10, LVX 8 / 10

# Accessories

## TE M10



### Description

Eye-bolt set (4 pcs) with M10-thread

### Designed for

SIGMA S115F, ARENA 12 / 15, FLEXSYS F212/ F315, LVX 12 / 15

## WB 09



### Description

Universal wall mount bracket, swivel and tilt Ø35mm pole mount

### Designed for

All speakers with Ø 36mm pole mount cup

## TRANSPORT

### DO-ES1203



### Description

Magnetic transport dolly for ES 1203

### Designed for

ES 1203

### DT-50



### Description

Trolley for ES 503 and SUB 28D + 2x L160D

### Designed for

ES 503 / SUB 28D + 2x L160D

### SWK-18 KIT



### Description

Kit composed by 4x 100mm wheels for SUB18D

### Designed for

SUB 18D

## BUNDLES

### Stereo Kit ES503

Description	Designed for
Kit composed by 2x tripods + bag for tripods + 2x 7m speakon cables	ES 503

### TK-160+28

Transport kit composed by bag for L160D, bag for SUB 28D and DT-50 trolley	SUB 28D, L160D
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### TK-ES12

Transport kit composed by bag for ES 503 tops, bag for ES 503 sub and DT-50 trolley	ES 503
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