Italian style, expert research and industrial design. FBT is where form and function meet.

[FBT]



- Variable curvature line array
- · Constant curvature line array
- * Column line array * Point source
- Subwoofer Monitor Digital loudspeaker management
- · Power amplifier · Accessories



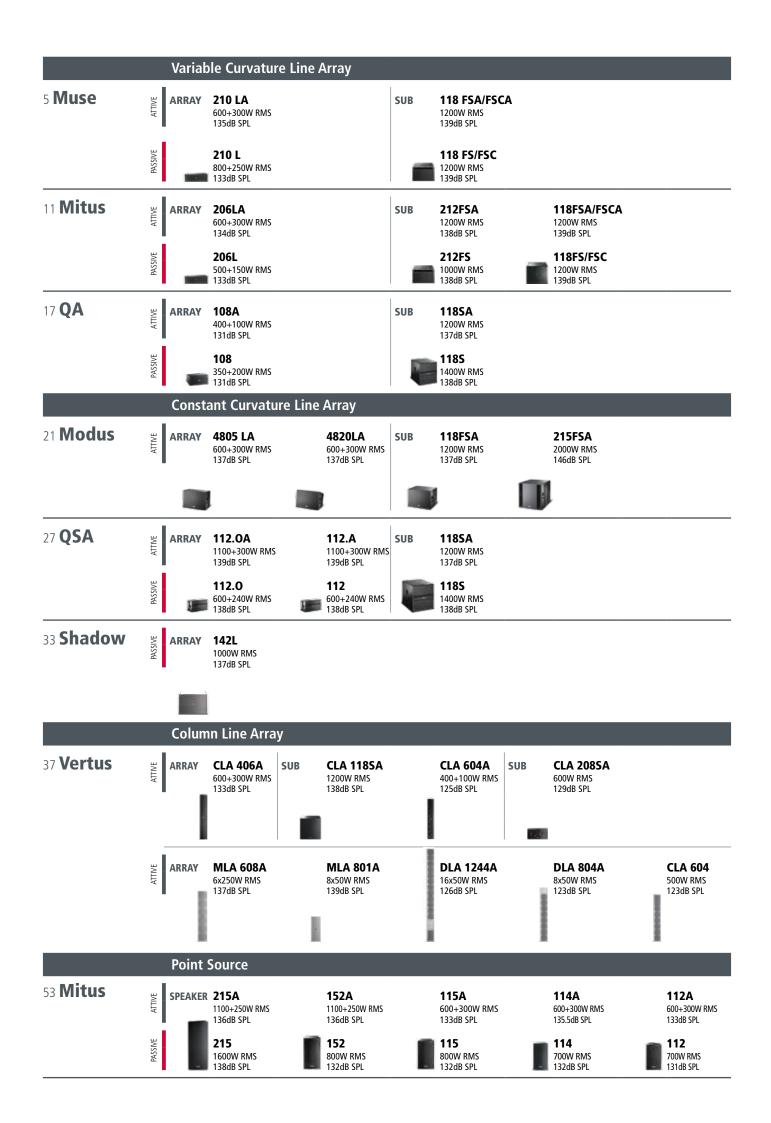
- Line array systems
 Subwoofer
 Monitor
 Integrated sound systems • Digital loudspeaker management • Power amplifier
- Accessories

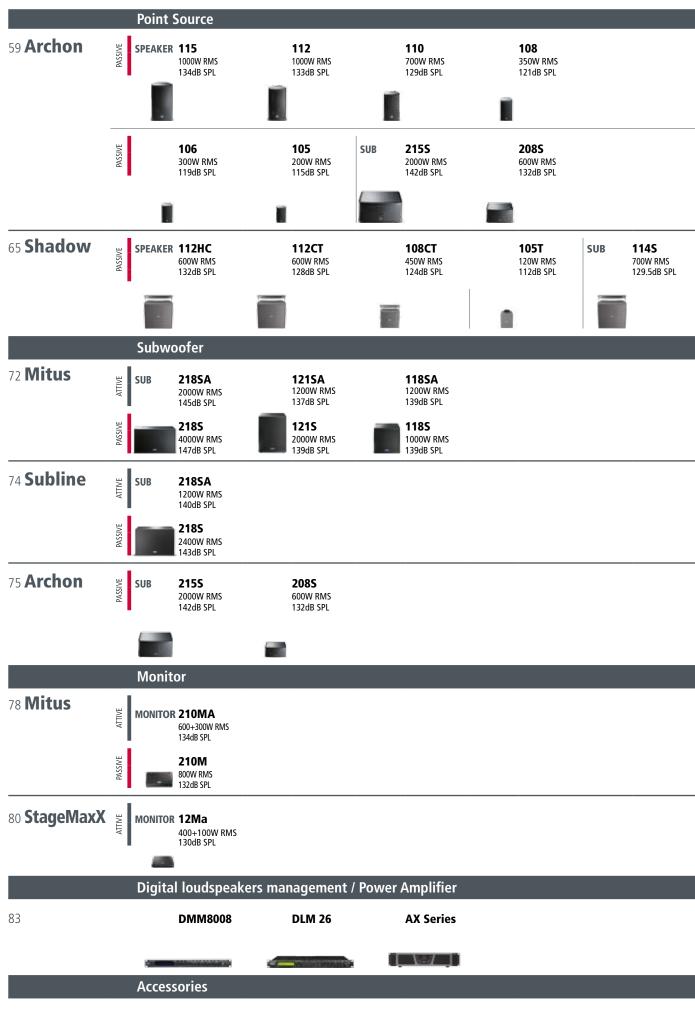


- Security and Emergency systems EN 54-16 Conference systems
- EN 54-16 · Conference systems & Intercom systems · Microphones · Preamplifier equipment · Control equipment · Power amplifiers · Integrated amplifiers · Music sources · Ceiling speakers · Sound projectors · EN 54-24 speakers · Spherical diffusers · Speaker systems · Column speakers · Weatherproof speakers



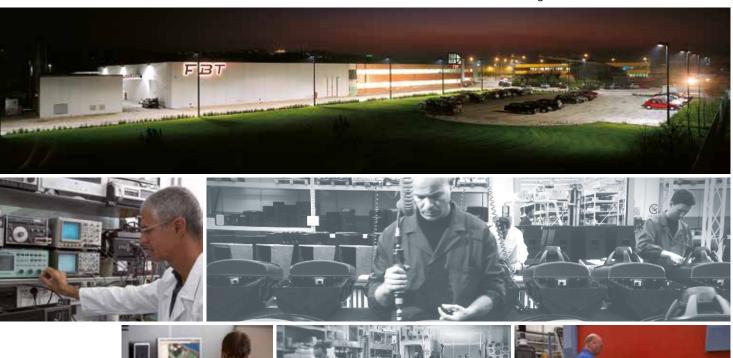
since 1963 - Made in Italy





HISTORY, EXPERIENCE AND INNOVATION IN TRADITION. MADE IN ITALY.

Since 1963, FBT designs and builds sound in Recanati, a small city located in the centre of Italy, a city of Poetry, of Art, of Music, from immemorial time the soundtrack for entire generations.

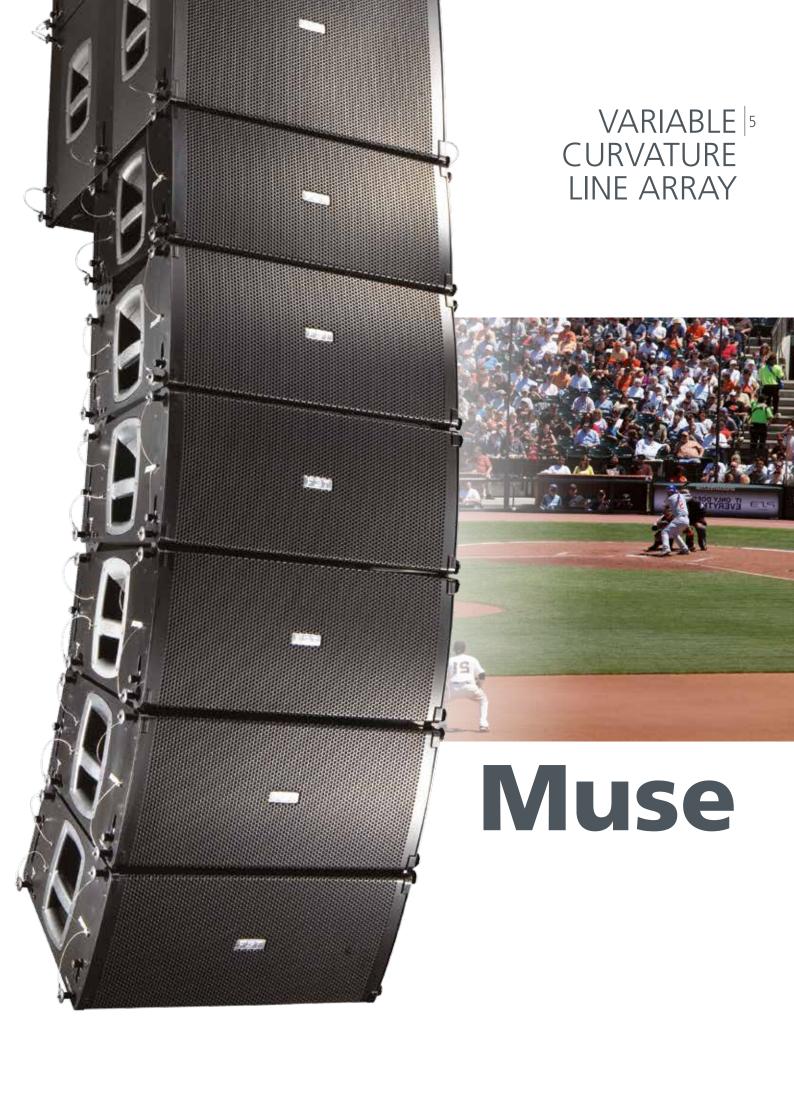


IN FBT EVERY DEPARTMENT
IS A COMPANY
IN THE COMPANY
WHOSE AIM IS TO MAKE
QUALITY WITHIN
THE ENERGY OF SOUND.

A technological know-how that extends from research to planning, from electronics to design, from wood to metal, from plastics to painting. A highly innovative product and a manufacturing process determined by a strict final electronic testing.









A true line array system encompassing advanced technology and refined Italian engineering - these are the principles behind MUSE, a new sound reinforcement solution from FBT that redefines the modern line array in terms of power, size, light weight, flexibility and ease of use. True modularity means that MUSE is ready for any application, from a small installation using two enclosures to a large outdoor concert deploying 16 speakers per hang.

THE WAVEGUIDE, OPTIMISED VIA A SERIES OF SIMULATIONS USING BEM FINITE ELEMENTS TO ELIMINATE DISTORTION, BOASTS A HORIZONTAL DISPERSION OF 90°.

It has been designed to present an optimal load to the driver's diaphragm at 800Hz, thereby allowing the propagation of an acoustic wave in the horizontal field up to 18kHz. The resulting enclosure can contend with even the most challenging of physical environments, delivering an ideal cylindrical source, while the acoustic configuration of the central horn offers a particularly linear and symmetric horizontal dispersion.

FBT has also applied its Italian design expertise to the cabinet, creating an enclosure that is equally rugged, practical and stylish. Constructed from 15mm Birch plywood, each **MUSE** element incorporates two die-cast aluminium handles and fully integrated hardware to suit any application. Up to **16 MUSE** enclosures can be flown with ease in a single array. Each cabinet can be splayed in 1° increments via simple pin adjustments on the integrated flyware, from a minimum of 0° to a maximum of 10°. No matter the application, **MUSE** brings an easy-to-use functionality and elegant aesthetic to every project.

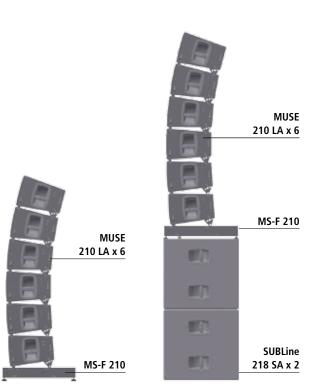
Inside the box, power is courtesy of the convection-cooled, 600 +300 Wrms Class-D amplifier module, housed in a protective, fully sealed die-cast aluminium chassis. Meanwhile the onboard DSP offers a choice of eight presets, allowing users to easily configure their MUSE system depending on the curvature of arrays and the number of speakers used.

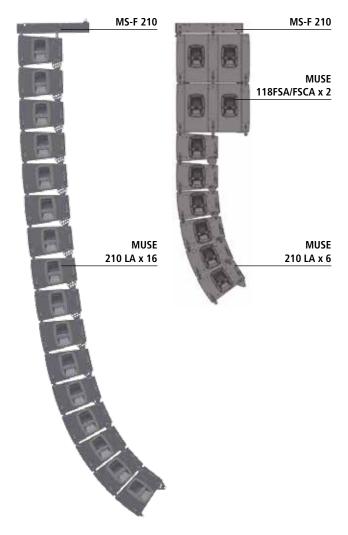
To extend the low frequency performance of a MUSE system, users can benefit from the matched subwoofer - the **SUBLine 2185A**, which is ideal for ground-stacking. Each **SUBLine 2185A** incorporates two 460mm B&C woofers and a 1200W Class-D amplifier with a switch-mode power supply. Alternatively, MUSE can be matched to the **MITUS2185A sub**, boasting two 460mm neodymium loaded woofers from B&C, and a 2000W switch-mode Class-D amplifier capable of an SPL of 145dB.

With its unique focus on modularity and working in conjunction with EASE FOCUS 2 PC software, MUSE allows you to build the ideal solution to any sound reinforcement challenge.

FBT PRESENTS A NEW WAY TO FLY CARDIOID **SUBWOOFER CONFIGURATIONS**

The **Muse 118FSA** is a true reversible flyable subwoofer. Designed and manufactured by FBT's renowned engineers and artisans, the **Muse 118FSA** is a prime example of audio perfection with ergonomic innovations. The **Muse 118FSA** is a hybrid loaded 18" neodymium subwoofer designed to suspend from the Muse flybar either facing forward or rearward. When flown facing rearward, the sub's user removable grille can be moved **by the user** to the new "front" of the enclosure and the amplifier module can be moved to the new 'rear' of the enclosure, thus obtaining aesthetic consistency when flown with additional forward facing Muse 118FSA's. Thus, when creating a **cardioid sub package**, no additional hardware is needed to easily achieve sleek visual continuity. The model **MUSE 118FSCA** is already factory preconfigured as rear facing for cardioid applications





Muse

Variable Curvature Line Array

Each modular **MUSE** element comprises two 250mm (10") custom-designed woofers with 64mm high excursion voice coils and two custom B&C HF compression drivers with 25mm (1") throat.





MS-T 210 Code 38886 Trolley for 4 Muse 210



MS-F 210 Code 38834 Flying bar Muse 210 and Muse118



MS-J 210 Code 39401 Metal Bracket to fix MS-F 210 to Subline 218/ Mitus 218



MS-P 210 Kit Code 38861 Pin Lock Set (4pcs box)



MS-FK 210 Code 39675 Flight-case for 2 x Muse 210



MS-C210 Code 39340 Rain cover for Muse 210



Muse 210 LA

PRECISION COVERAGE VERTICAL ACTIVE ARRAY 600W + 300W RMS - 135dB SPL

- 2-way, compact bass-reflex line array system
- Two 250mm (10") woofers with 64mm (2.5") voice coils
- Two custom B&C HF compression drivers with 25mm (1") throats
- Precision waveguide delivering 90° of horizontal dispersion up to 18Khz
- Frequency response from 55Hz to 20KHz
- Onboard Class-D bi-amp system delivering 600Wrms and 300Wrms for LF and HF with switchmode power supplies
- Onboard **DSP** processor with **8 EQ** presets, adjustable HF level of +/- 5db for accurate amplitude shading
- Control panel with XLR input and link, preset control, HF level control, HP-filter and ground lift
- Strong birch plywood cabinet with integrated aluminum handles, hardware and fly-ware offering adjustable angling ranging from 0° to 10° in 1° increments
- Wide range of accessories to offer ultimate flexibility no matter whether your MUSE line array system is suspended or ground-stacked, plus a specially designed cover to guard against bad weather

Muse 210 L

PRECISION COVERAGE VERTICAL PASSIVE ARRAY 800W + 250W RMS - 133dB SPL





Muse 118FSA/FSCA

PROCESSED CARDIOID-FLYABLE ACTIVE SUBWOOFER 1200W RMS - 139dB SPL

- Compact Hybrid band pass cardioidarrayable subwoofer. Hybrid configuration permit to obtain extension and speed of vented with high SPL and acoustic filtering of band pass
- Suspension hardware fully compatible with MUSE 210LA allowing the enclosure to be suspended front or rear-firing for easy cardioid configurations
- Subwoofer can be suspended facing forward or rearward with capability of front- or rearmounting the grille and amp module for aesthetic uniformity in cardioid configuration
- Very large area laminar-flow port to ensure no power compression and very low port turbulence
- For cardioid configurations with one SUB rear-firing and two sub front-firing, more than 15db SPL rejection can be obtained behind the array
- **18"** (460mm) custom **B&C neodymium** magnet high excursion woofer with 3.5" (88mm) voice coil

Frequency Response from 33Hz to 1Hz

- Class D amplifier delivering 1200WRMS
- Switch mode power supply
- **DSP with 8 presets**, cardioid and with infra configurations, delay
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground-lift
- 5/8" (15mm) birch plywood enclosure, scratch resistant black paint
- Low frequency extension cabinet for the MITUS 206LA line array for flying or ground stacked configurations
- Very low profile for a 18" size woofer

Muse 118FS/FSC

FLYABLE PASSIVE SUBWOOFER 1200W RMS - 139dB SPL

- Passive version, recommended amplifier of 1000Wrms / 4ohm
- Neutrik Speakon NL- 4MDV connectors IN & LINK OUT
- External digital processor required



Muse Variable Curvature Line Array





Model		210LA	118FSA/FSCA
Configuration	way	2	1 HYBRID BANDPASS
Built-in amplif. cont. rms LF/HF	W RMS	400/200	-
Built-in amplif. max. rms LF/HF	W	600/300	1200
Built-in amplif. max. peak LF/HF	W	1200/600	2400
Frequency response	@-6dB	55Hz - 20KHz	33Hz - 100Hz
Low frequency woofer	inch	2x10 - 2.5 coil	1x18- 3.5 coil - neodymium
High frequency driver	inch	2x1 - 1.7 coil	-
Maximum SPL cont/peak	dB	128 / 135	135/139 half-space
Dispersion	HxV	90° x 10° max dependant upon n° of element	omnidirectional
Input impedance	kOhm	22	22
Crossover frequency	kHz	1.1	preset dependant
AC Power requirements	VA	640	640
Input connectors		XLR with loop	XLR with loop
Power cord	m / ft	-	5 / 16.4
Net dimensions (WxHxD)	mm inch	652x296x425 25.66x11.65x16.73	652x500x750 25.66x19.68x29.52
Net weight	Kg/Lb	38 / 83.77	67 / 147.70
Transport dimensions (WxHxD)	mm inch	748x390x510 29.44x15.35x20.07	700x650x800 27.55x25.59x31.49
Transport weight	Kg/Lb	41 / 90.38	77 / 169.75

Model	210L	118FS/FSC
Configuration w	ay 2	1 HYBRID BANDPASS
Recommended amplifier W RN	S 800LF / 200HF	1200
Long term power	N 400LF / 100HF	600
Short term power IEC 268-5	N 1600LF / 400HF	2400
Nominal impedance Of	m 16LF / 32HF	8
Frequency response @-6	B 60Hz - 18KHz	33Hz - 250Hz
Low frequency woofer in	th 2x10- 2.5 coil	1x18- 3.5 coil - neodymium
High frequency driver in	th 2x1- 1.7 coil	-
Sensitivity (@1W/1m)	B 101LF / 112HF	101
Maximum SPL cont/peak	B 128/135	135/139 half-space
Dispersion H >	V 90° x 10° dependant upon n° of element	omnidirectional
Crossover frequency k	dz external active	external active
Recommended HP filter	32hz - 24dboct	32hz - 24dboct
Recommended external filter	Digital management with presets	Digital management with FBT presets
Input connectors	2 x Speakon NL4 in & throu	2 x Speakon NL4 in & throu
Net dimensions (WxHxD) min	m 652x296x425 ch 25.66x11.65x16.73	652x500x750 25.66x19.68x29.52
Net weight Kg /	b 38 / 83.77	65 / 143.30
Transport dimensions (WxHxD) min		700x650x800 27.55x25.59x31.49
Transport weight Kg /	b 41 / 90.38	75 / 165.34



Mitus 218SA 2000W Mitus 218S 2400W



Subline 218SA 1200W Subline 218S 2400W



VARIABLE 111 CURVATURE LINE ARRAY

Mitus

Mitus Variable Curvature Line Array

THE MITUS 206 LA IS A TRULY INNOVATIVE LINE ARRAY SPEAKER SYSTEM ENRICHED BY FBT'S HIGHLY SKILLED ENGINEERING AND TECHNOLOGICAL ADVANCEMENTS SUCH AS POWER, PERFORMANCE, WEIGHT, FLEXIBILITY AND EASE OF USE.

These are the credentials of the MITUS 206LA engineered to respect the physical criteria of the ideal cylindrical wave source to entire audio range. The cabinet features 2 x 6.5" B&C woofers (with 1.7" high excursion voice coils) and a B&C neodymium magnet HF compression driver with a 64mm (2.5") voice coil and a 35mm (1.4") exit throat coupled to a waveguide.







Mitus 206LA 600 + 300W Mitus 206L 500 + 150W Subwoofers



Mitus 212FSA 1200W Mitus 212FS 1000W



Mitus 118FSCA/FSA 1200W Mitus 118FSC/FS 1200W The modularity of the **MITUS 206LA**, makes it extremely flexible for a wide range of applications, from a **small 2 cabinet P.A.** system to an elaborate line array system consisting of up to **12 MITUS 206LA** cabinets along with multiple MITUS 212FSA subs for large concert events. The waveguide, optimized by **BEM** finite element simulation, offers 100° horizontal dispersion.

The **gas-injected polypropylene molded enclosure** weighs only (14Kg), permitting a great advantage for flying multiple arrayed cabinets for large events and installations where total system weight could be a problem and make flying applications difficult.

The MITUS 206 LA cabinets coupling hardware is internally integrated and allows the suspension of 12 arrays with a 10:1 safety factor. The cabinets can be easily angled from 0° to 10°, adjustable in 2° steps by simple pin adjustments on the cabinets integrated fly ware. The aesthetic elegance of the enclosures makes them ideal for permanent fixed installations where system appearance also is a factor. The Class D (PWM) amplifier module with switch mode power supply provides 600W RMS LF+300W RMS HF. The amp module is contained inside an aluminum die-cast chassis, which also acts as the framework for suspending the system and angle adjustment inclination of the cabinets. The digital signal processor has 8 selectable equalization presets making the MITUS 206LA easily configurable according to the array curve and the number of speaker units utilized.

To increase low frequency SPL, two flyable subwoofers models are available:

MITUS 212FSA is a compact bass pass design subwoofer features a 1200W RMS Class D amplifier and delivers **138dB SPL.** It is equipped with **2 x 12" B&C neodymium** magnet woofers custom manufactured for FBT.

The Mitus 118FSA and FSCA are cardioid arrayable and flyable subwoofers. Designed and manufactured by FBT's renowned engineers and artisans, the Mitus 118FSA/FSCA is a prime example of audio perfection with ergonomic innovations. The Mitus 118FSA/FSCA is a hybrid loaded 18" neodymium subwoofer designed to suspend from a MT-F 212 flybar either facing forward (FSA model) or rearward (FSCA model). The FSCA model is the version designed to be suspended rearward facing, equipped with the protection grille on the new 'front' and the amplifier module on the new 'rear' of the enclosure. Thus, when creating a cardioid sub package, no additional hardware is needed to easily achieve sleek visual continuity as all the grille are visible from the front of the array and all the amplifiers module are on the back. This is a truly advantage in today most demanding installations where elegant aesthetic is a must.



MITUS Series

The MT-J206 joint bar provides for direct connection to the MITUS 206LA enclosures and allows for the subs integration and placement on top of **MITUS 206LA** line arrays, or for a ground stack configuration for stacking the arrays on top of the sub(s).

To further extend the low frequency SPL and low frequency range, the MITUS 212FSA or MITUS 118FSA can be used along with the other ground stackable subwoofers in the MITUS Series, the MITUS 218SA, MITUS 118SA and MITUS 121SA. For this application these subs feature an "INFRA" mode preset.

Through use of the FBT aiming software program for PC it is possible to simulate the SPL distribution and frequency response of the listening area.

Key Features

- High quality B&C neodymium magnet woofers, custom manufactured for FBT
- The latest generation of B&C compression drivers
- High efficiency Class D power amp modules with switch mode power supplies, fixed to a die-cast aluminum chassis. This provides maximum protection of the electronics from dust or dirt, prevents air loss through the input control panel that can cause fastidious noise, and it maximizes heat dissipation thanks to the air created by the excursion of the woofer, avoiding the use of a fan to cool the circuitry. All this has allowed the realization of a 3.2 Kg lightweight power amp module that delivers 1200Wrms!
- DSP with A/D-D/A low noise converters providing crossover, equalization, system protection along with 8 selectable presets to customize the sound program for various applications
- Heavy duty metal grille with anti-resonance spacers and exclusive synthetic cloth to protect the drivers from dust and moisture, without modifying the acoustic fidelity. Unlike widely used conventional foam linings, our FBT exclusive synthetic cloth will not break down or disintegrate over time.



Mitus

Variable Curvature Line Array



MT-F 206 Code 31805 Flying Bar Mitus 206

The **MITUS 206LA** is a truly innovative line array speaker system enriched by FBT's highly skilled engineering and technological advancements such as power, performance, weight, flexibility and ease of use. These are the credentials of this new line array, advancing the concept of line arrays in terms of power, performance, weight, flexibility and ease of use. The modularity of the **MITUS 206LA**, makes it extremely flexible for a wide range of applications, from a small 2 cabinet P.A. system to an elaborate line array system consisting of up to **12 MITUS**.



MT-S 206 Code 33324

Cluster bracket with speaker pole for 2 x Mitus 206



MT-J 206 Code 31806Joint Bar Mitus 212
or Mitus 118 with 206



MT-F 212 Code 31804

Flying bar Mitus 212 and Mitus 118



MT-B 206 Code 31888

Metal Base to ground 206 array or stack on 118/121 subs



FK 206-6 Code 33933Flight-case for 6 x Mitus 206 **FK 206-4 Code 34911**Flight-case for 4 x Mitus 206 **FK 206-2 Code 33931**

Flight-case for 2 x Mitus 206





Mitus 206LA

PRECISION COVERAGE VERTICAL ACTIVE ARRAY 600W + 300W RMS - 134dB SPL

- 2 x 165 mm (6.5") B&C neodymium woofers with 44 mm (1.7") coil
- 36 mm (1.4") exit B&C neodymium driver with 64 mm (2.5") coil
- Frequency response from 68Hz to 20kHz
- Latest class D built-in amplifiers, 600W RMS to the LF and 300W RMS to the HF with switch mode power supply
- DSP on-board with 8 EQ presets, +/- 5db HF level control for accurate amplitude shading
- Control panel with XLR input and link, volume, presets, HF level, HP-filter, ground-lift
- **100°** horizontal waveguide with very low distortion and near flat wavefront up to 18Khz
- High impact polypropylene gas-injected enclosure with integrated rigging hardware adjustable with 0° to 10° angle between cabinets at 2° step
- Ideal for small to medium sized application, from single pole mounted loudspeakers with 100°H x 10°V coverage to multiple cabinet full sized line array, the MITUS 206LA maybe used also in outdoor applications where the system is not directly exposed to the elements
- Very lightweight, only 14Kg / 30.8Lb

Mitus 206L

PRECISION COVERAGE VERTICAL PASSIVE ARRAY 500W + 150W RMS 16ohm 129dB SPL LF/133dB SPL HF

- Internal HF protection
- Neutrik Speakon NL- 4MDV connectors IN & LINK OUT
- External digital processor required

Mitus 212FSA

PROCESSED FLYABLE ACTIVE SUBWOOFER 1200W RMS - 138dB SPL

- Compact subwoofer in vented band pass design sharing the same width and hardware suspension of the MITUS 206LA
- 320 mm (2 x 12") B&C neodymium magnet high excursion subwoofers with 75 mm (3") voice coils
- Frequency Response from 45Hz to 120Hz
- Class D amplifier delivering 1200W RMS
- Switch mode power supply
- DSP with 8 EQ presets, cardioid and infra configurations, delay
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground-lift
- 15 mm (5/8") birch plywood enclosure, scratch resistant black textured paint
- Low frequency extension cabinet for the MITUS 206LA line array for flying or ground stacked configurations.
- M20 top mount stand socket

Mitus 212FS

FLYABLE PASSIVE SUBWOOFER 1000W/4ohm - 138dB SPL

- Neutrik Speakon NL- 4MDV connectors IN & LINK OUT
- External digital processor required



1200W RMS - 139dB SPL

- Compact Hybrid band pass cardioid-arrayable subwoofer. Hybrid configuration permit to obtain extension and speed of vented with high SPL and acoustic filtering of band pass
- Suspension hardware fully compatible with MITUS206La allowing the enclosure to be suspended front (FSA model) or rear-firing (FSCA model) for easy cardioid configurations
- Very large area laminar-flow port to ensure no power compression and very low port turbulence
- For cardioid configurations with one SUB rear-firing and two sub front-firing, more than 15db SPL rejection can be obtained behind the array
- 18" (460mm) custom B&C neodymium magnet high excursion woofer with 3.5" (88mm) voice coil
- Frequency Response from 33Hz to 250Hz
- Class D amplifier delivering 1200WRMS
- Switch mode power supply
- DSP with 8 presets, cardioid and with infra configurations, delay
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground-lift
- 5/8" (15mm) birch plywood enclosure, scratch resistant black paint
- Low frequency extension cabinet for the MITUS 206LA line array for flying or ground stacked configurations.
- Very low profile for a 18" size woofer

1200W/8ohm -138dB SPL

- Passive version, recommended amplifier of 1200Wrms / 80hm - 139dB SPL
- NeutrikSpeakon NL- 4MDV connectors IN & LINK OUT
- External digital processor required



FBT PRESENTS A NEW WAY **TO FLY CARDIOID SUBWOOFER CONFIGURATIONS**

The innovative design permit to suspend facing forward (118FSA model) or rearward (118FSCA model) creating cardioid sub package with aesthetic consistency and sleek visual continuity.

Variable Curvature Line Array







Model		206LA	212FSA	118FSA/FSCA
Configuration	way	2	1 Bandpass	1 Hybrid Bandpass
Built-in amplif. max. LF/HF	W RMS	600/300	1200	1200
Built-in amplif. max. peak LF/HF	W	1200/600	2400	2400
Frequency response	@-6dB	68Hz - 20KHz	45Hz - 120Hz	33Hz - 100Hz
Low frequency woofer	inch	2x6.5 - 1.7 coil neodymium	2 x 12 - 3 coil neodymium	1x18- 3.5 coil - neodymium
High frequency driver	inch	1 x 1.4 - 2.5 coil neodymium	-	-
Maximum SPL cont/peak	dB	125 / 134	134 / 138 half-space	135 / 139 half-space
Dispersion	HxV	100° x 10° max dependant upon n° of element	omnidirectional	omnidirectional
Input impedance	kOhm	22	22	22
Crossover frequency	kHz	1.2	preset dependant	preset dependant
AC Power requirements	VA	640	640	640
Input connectors		XLR with loop	XLR with loop	XLR with loop
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	574x220x383 22.6x8.7x15.1	576x420x660 22.7x16.5x26	576x538x756 22.7x21.2x29.7
Net weight	Kg/Lb	14 / 30.8	36.5 / 80.5	45 / 99.2
Transport dimensions (WxHxD)	mm inch	655x455x280 25.8x17.9x11	780x710x520 30.7x28x20.5	700x690x800 27.5x27.1x31.4
Transport weight	Kg/Lb	15.7 / 34.6	41 / 90.4	55 / 121.2

Model		206L	212FS	118FS/FSC
Configuration	way	2	1	1 Hybrid Bandpass
Recommended amplifier	W RMS	500LF / 150HF	1000	1200
Long term power	W	250LF / 70HF	500	600
Short term power IEC 268-5	W	1000LF / 300HF	2000	2400
Nominal impedance	Ohm	16LF / 16HF	8	8
Frequency response	@-6dB	75Hz - 20KHz	50Hz - 120Hz	33Hz - 250Hz
Low frequency woofer	inch	2x6.5 - 1.7 coil neodymium	2 x 12 - 3 coil neodymium	1x18- 3.5 coil - neodymium
High frequency driver	inch	1 x 1.4 - 2.5 coil neodymium	-	-
Sensitivity (@1W/1m)	dB	97LF / 108HF	99	101
Maximum SPL cont/peak (Bi-Amp)	dB	125/129LF - 129/133HF	134/138 half-space	135 / 139 half-space
Dispersion	ΗxV	100° x 10° max dependant upon n° of element	omnidirectional	omnidirectional
Crossover frequency	kHz	external active	external active	external active
Recommended HP filter		65hz - 24dboct	40hz - 24dboct	32hz - 24dboct
Recommended external filter		Digital management with FBT presets	Digital management with FBT presets	Digital management with FBT presets
Input connectors		2 x Speakon NL4MD-V in & throu	2 x Speakon NL4MD-V in & throu	2 x Speakon NL4 in & throu
Net dimensions (WxHxD)	mm inch	574x220x383 22.6x8.7x15.1	576x420x660 22.7 x16.5x26	576x538x756 22.7x21.2x29.7
Net weight	Kg / Lb	13.5 / 29.8	35 / 77.2	43 / 94.8
Transport dimensions (WxHxD)	mm inch	655x455x280 25.8x17.9x11	780x710x520 30.7x28x20.5	700x690x800 27.5x27.1x31.4
Transport weight	Kg / Lb	15.2 / 33.5	39.5 / 87	53 / 116.8







Mitus 152 800W Mitus 115 800W



Mitus 152A Mitus 115A Mitus 114A Mitus 112A 1100 + 250W 600 + 300W 600 + 300W 600 + 300W Mitus 114 700W Mitus 112 700W



Mitus 218SA 2000W Mitus 218S 4000W



Mitus 121SA 1200W Mitus 121S 2000W



Mitus 118SA 1200W Mitus 118S 1000W



Mitus 210MA 600 + 300W Mitus 210M 800W







HSA 108 Code 34633 Flying bar QA 108A/QA 108

The **QA108 Line Array System** is FBT's latest development in the growing demand for compact and portable professional line arrays. Both the **QA108 passive** and the **QA108A powered** models feature extraordinary power output, clarity and flexibility to deliver high quality audio reproduction in attractive, compact, easy to handle and affordable systems.



WT-108 Code 34723 Wodden Trolley to transport QA 108A/QA 108 line array speaker

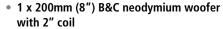




WD118S Code 27897Trolley with wheels to transport QA 118SA/QA118S subs

QA 108A

PRECISION COVERAGE VERTICAL ACTIVE ARRAY 400W+100W RMS - 131dB SPL



- 150mm (6") neodymium Pleated Diaphragm
 Tweeter with a cylindrical 10°V x 100°H waveguide
- Frequency response from 68Hz-23kHz
- Class D built-in Amplifier, 400W RMS to the LF and 100W RMS to the HF with a switch mode power supply
- **DSP on-board** with 4 configuration presets (1 2 4 6 to 12 box)
- Control panel features: balanced XLR-F input connector and a balanced XLR-M loop output connector to daisy chain the signal input to additional QA108A speakers, Volume, EQ Preset, HP filter, 3 status LED indicators (Power-On, Peak and Protection/Limiter)

Neutrik Powercon IN and LINK OUT AC power connectors

- Trapezoidal shape compact enclosure with an angle of 10V°, and are constructed with 12 mm (1/2")
 Baltic birch plywood and finished with scratch and scuff resistant black paint
- Heavy duty metal grille with cloth protect the drivers from dust and moisture. The cabinets are provided with two integrated aluminum fly hardware for suspension allowing settings in

1° steps from 0° to 10°



PRECISION COVERAGE VERTICAL PASSIVE ARRAY 350W + 200W RMS 80HM

- Dual mode passive internal crossover (Full-range or Bi-Amp configurable)
- NeutrikSpeakon NL-4MDV connectors IN & LINK OUT
- External digital processor required



SS 108 Code 34722Joint Bar QA 108A/QA 108 with QA 118SA/QA 118S



MMH-108 Code 34562 Metal Base to ground QA 108A/QA108 array or stack





QA 1185A

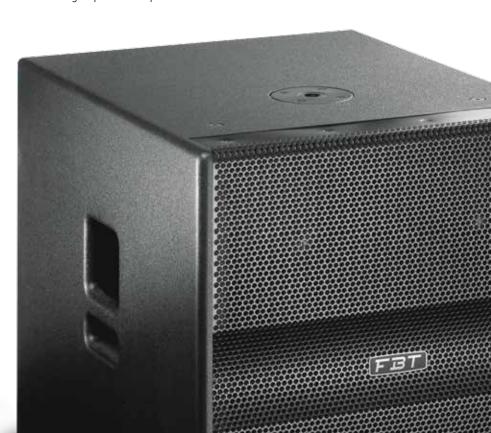
PROCESSED ACTIVE SUBWOOFER 1200W RMS - 137dB SPL

- Bass-reflex Subwoofer
- 1 x 460mm (18") B&C woofer with 4" voice coil
- Frequency Response from 33Hz to 120Hz
- Class D amplifier delivering 1200W RMS with a switch mode power supply
- DSP on-board provides 6 different equalization presets and 6 different delay settings, cardioid configuration
- Control panel features: stereo balanced XLR-F input/ output connectors, Volume, EQ Preset, Delay, Phase Reversal switch, 3 status LED indicators (Power-On, Peak and Protection/Limiter)
- Neutrik Powercon IN and LINK OUT AC power connectors
- 18mm (3/4") **baltic birch plywood cabinet** finished with scratch and scuff resistant black paint, heavy duty metal grille and M20 top mount stand socket
- Optional 4 swivel-mount 80mm casters on request
- Ergonomically placed integrated handles provide for easy handling / lifting / transporting

QA 1185

PROCESSED PASSIVE SUBWOOFER 1400W/40HM - 138dB SPL

- Neutrik Speakon NL-4MDV connectors IN & LINK OUT
- External digital processor required









Model		108A	1185A
Configuration	way	2	1
Built-in amplif. max. LF/HF	W RMS	350/80	900
Built-in amplif. max. peak LF/HF	W	400/100	1200
Frequency response	@-6dB	68Hz - 23KHz	33Hz - 120Hz
Low frequency woofer	inch	8 - 2 coil - neodymium	18 - 4 coil
High frequency driver	inch	6 pleated diaphragm - neodymium	-
Maximum SPL cont/peak	dB	123 / 131	133 / 137
Dispersion	HxV	100° x 10°	omnidirectional
AC Power requirements	VA	450	800
Power cord	m / ft	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	455x220x350 17.91x8.66x13.77	538x670x620 21.18x26.37x24.40
Net weight	kg / lb	15,5 / 34.17	51 / 112.43
Transport dimensions (WxHxD)	mm inch	580X295X480 22.83x11.61x18.89	700X800X770 27.55x31.49x30.31
Transport weight	kg / lb	17.2 / 37.91	61 / 134.48
Model		108	1185
Configuration	way	2	1
Recommended amplifier (Bi-Amp LF/HF)	W RMS	350 (350/200)	1400

Model		108	1185
Configuration	way	2	1
Recommended amplifier (Bi-Amp LF/HF)	W RMS	350 (350/200)	1400
Long term power (Bi-Amp LF/HF)	W RMS	175 (175/100)	700
Nominal impedance (Bi-Amp LF/HF)	Ohm	8 (8 / 8)	4
Frequency response	@-6dB	70Hz - 23KHz	36Hz - 400Hz
Low frequency woofer	inch	8 - 2 coil - neodymium	1x18 - 4 coil
High frequency driver	inch	6 pleated diaphragm - neodymium	-
Maximum SPL cont (Bi-Amp LF/HF)	dB	123 (120/127)	133
Maximum SPL peak (Bi-Amp LF/HF)	dB	131 (123/131)	138
Dispersion	ΗxV	100° x 10°	omnidirectional
Input connectors		2 x Speakon NL4 in& throu	2 x Speakon NL4 in & throu
Net dimensions (WxHxD)	mm inch	455x220x350 17.91x8.66x13.77	538x670x620 21.18x26.37x24.40
Net weight	kg/lb	15.4 / 33.95	48.5 / 106.92
Transport dimensions (WxHxD)	mm inch	580X295X480 22.83x11.61x18.89	700X800X770 27.55x31.49x30.31
Transport weight	kg / lb	17.1 / 37.69	58.5 / 128.97



CONSTANT |21 CURVATURE LINE ARRAY



Modus

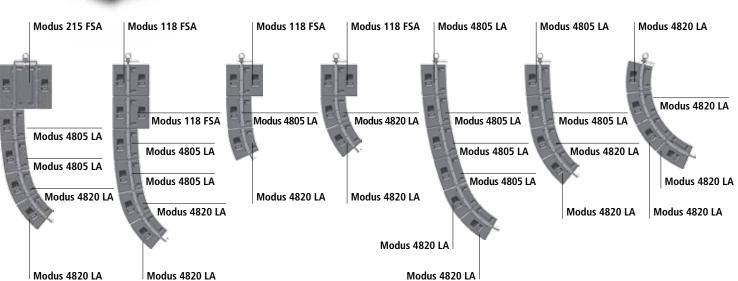
Modus Constant Curvature Line Array

MODUS ESSENDI

MODUS IS NOT JUST ANOTHER LINE ARRAY IN THE MARKET.







MODUS is a constant curvature line array system comprising two modules, the **MODUS 4805** (5°V) and the **MODUS 4820** (20°V). The system is designed to achieve a very uniform distribution of SPL in the listening area in both large and small venues thanks to its total modularity. The constant curvature overcomes the limitations of line arrays with variable angles which inevitably create unmatched SPL between neighbouring enclosures at high frequencies.

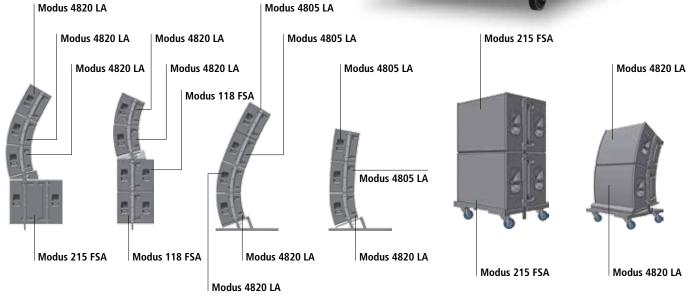
The grouping of two 'classic' array modules in one gives an amazing economic advantage and simplifies the setup of the system.

Two subwoofers are available for low frequency extension, both with mechanical suspension hardware to deliver seamless integration.

The **MODUS 215 FSA** is a dual 15" subwoofer with a band-pass design and push-pull configuration, delivering significantly extended low frequency response despite its compact size. It is acoustically designed to support two or three **MODUS 4805** or **4820** modules.

The MODUS 118 FSA is a single 18" subwoofer with a bass-reflex design and compact dimensions that make it ideal for suspension. Designed to support one or two MODUS 4805 or 4820 modules and aesthetically similar to a 4805 module, the sub is capable of very high SPL in relation to its size. It can either be suspended above the line array modules or ground stacked. Additionally, the 118 FSA can be used in conjunction with the 215 FSA to further extend and reinforce low end performance.





Modus

Constant Curvature Line Array



MD-F Sat Code 25391

Flying bar for rigging Modus 4805 LA Modus 4820 LA Modus 118 FSA



MD-F Sub Code 26214 Flying bar for rigging

Modus 215 FSA



MD-T 48 Code 38887Trolley for 2 x Modus 4805 LA
Modus 4820 LA



MD-T 118 Code 38888 Trolley for 2 x Modus 118 FSA

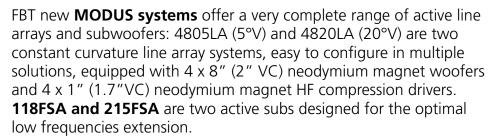


MD-T Sub Code 25394 Trolley for 2 x Modus 215 FSA



MD-B Code 25393

Stand base to tilt Modus 4805 LA Modus 4820 LA







5° VERTICAL DISPERSION

Modus 4805 LA

2 Way powered bi-amplified true line array, bass reflex design

- 4x200mm (8") custom neodymium woofers with 50mm voice coil (2")
- 4x25mm (1") neodymium compression drivers and 44mm voice coil (1.7")
- 58Hz 20Khz frequency response
- Class D 600 Wrms amplifier for LF
- Class D 300 Wrms amplifier for HF
- High efficiency switching power supply
- DSP on board with 8 EQ presets, +/- 5db HF level control for accurate amplitude shading
- Control panel with XLR input and link, volume, presets, HF level, HP filter, ground-lift

20° VERTICAL DISPERSION

Modus 4820 LA

- 90° horizontal waveguide with near flat wavefront up to 18Khz
- 18mm (3/4") birch plywood enclosure, with handles and mechanical hardware for suspension
- Mechanical hardware for suspension with 10:1 safety factor
- different configurations allowed by a complete range of optional accessories
- Performance comparable to high-end touring line arrays at an extremely competitive cost
- The extended frequency response at 58Hz allows the use in medium SPL applications without additional subwoofers



MD-WB Code 29309

Stand base to tilt Modus 4805LA Modus 4820LA on Modus 118FSA or Modus 215FSA





Modus 118 FSA

Compact bass reflex subwoofer

- 460mm (18") custom B&C neodymium woofer with 76mm (3") voice coil
- Class D amplifier delivering 1200W RMS with high efficiency switch mode power supply
- DSP with 8 EQ presets cardioids configurations, delay
- control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground lift
- Frequency response extended to 36HZ
- 18mm (3/4") birch plywood enclosure, with 4 integrated handles and mechanical hardware for suspension
- can either be suspended above the line array modules or ground stacked
- 4 Optional wheels for transport

Modus 215 FSA

- Powered subwoofer in bandpass pushpull
- 2x380mm (15") B&C neodymium subwoofer with 100mm (4") coil
- Class D amplifier delivering 2000W RMS with high efficiency switch mode power supply
- DSP with 6 EQ presets cardioids configurations, delay
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground lift
- Frequency response extended to 33HZ
- 18mm (3/4") birch plywood enclosure, with 4 integrated handles and mechanical hardware for suspension
- The particular acoustic loading enable to drastically reduce the distortion and movement of the cone, ensuring high SPL and very high reliability
- Can either be suspended above the line array modules or ground stacked
- 4 Optional wheels for transport













Model		Modus 4805 LA	Modus 4820 LA	Modus 118 FSA	Modus 215 FSA
Configuration	way	2	2	1	1
Built-in amplifier max. rms LF/HF	W	600/300	600/300	1200	2000
Built-in amplifier max. peak LF/HF	W	1200/600	1200/600	2400	4000
Frequency response	@-6dB	58Hz - 20KHz	58Hz - 20KHz	36Hz - 120Hz	33Hz - 100Hz
Low frequency woofer	inch	4 x 8 2 coil-neodymium	4 x 8 2 coil-neodymium	18 3 coil-neodymium	2 x 15 4 coil - neodymium
High frequency driver	inch	4 x 1 1.7 coil-neodymium	4 x 1 1.7 coil-neodymium	-	-
Maximum SPL cont/peak	dB	130 / 137	130 / 137	133 / 137 half-space	140 / 146 half-space
Dispersion	HxV	90° x 5°	90° x 20°	omnidirectional	omnidirectional
Input impedance	kOhm	22	22	22	22
AC Power requirements	VA	640	640	640	1840
Input connectors		XLR with loop	XLR with loop	XLR with loop	XLR with loop
Power cord	m / inch	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	728x510x406 28.66x20.07x15.98	728x510x406 28.66x20.07x15.98	728x512x580 28.66x20.15x22.83	728x713x836 28.66x28.07x32.91
Net weight	kg / lb	48/105.82	45.5/100.31	47.5/104.71	94.5/208.33
Transport dimensions (WxHxD)	mm inch	810x600x500 31.88x23.62x19.68	810x600x500 31.88x23.62x19.68	770x560x630 30.31x22.04x24.80 800x680x700 (con pallet)	765x750x875 30.11x29.52x34.44 795x1100x905 (con pallet)
				31.49x26.77x27.55 (with pallet) 57 (con pallet)	31.29x43.30x35.62 (with pallet)
Transport weight	kg / lb	51/112.43	48.5/106.92	125.66 (with pallet)	231.48 (with pallet)



CONSTANT 27 CURVATURE LINE ARRAY



QSA



QSA SOUND PRODUCTS FULFIL THE WIDEST SOUND REINFORCEMENT NEEDS WITH COMPLETE RANGE OF SYSTEMS STUDIED TO MEET LIVE SOUND APPLICATIONS AS WELL AS PERMANENT INSTALLATIONS

QSA112/112.0 coherent coverage line-array system is ideal for sound rental companies, fixed installations, music applications and mobile DJs, thanks to its compact size, portability and versatility. The fixed angle approach and constant curvature technology permit to simplify set-up while granting the best uniformity of coverage and SPL in the audience. Originally Intended for small and mid-sized venues, the **QSA112/QSA112.0** combination, matched with the dedicated **QS1185** subwoofer, perform well also in medium/large touring events and is designed to the same high standards and uses the highest quality components which already characterize QSA's serious approach to pro-sound. The **QSA112/112.0** delivers extraordinary power handling, clarity, flexibility and, of course, stunning sound in an attractive, easy to handle and affordable package.









Is an excellent choice for small to large sized venues when line array performance is desired and a fast and easy set up is required, as such is the case with a ground stacked system



HSA 600 Code 37998Rigging hardware/Flying bar



WMA 112 Code 29198 Wooden support to tilt down (-7,5°) QSA 112 fitted over QSA 118S



SS-212 Code 29303Adjustable pole for use with QSA 118S for stacking QSA 112.
M 20 threads on bottom



WD 112 Code 27896Trolley with wheels to transport QSA-112 & QSA 112A (4 pcs)



WD 1185 Code 27897Trolley with wheels to transport Qube Line array speakers
QSA-118S&QSA 118SA (2pcs)



QSA 112.0A

POWERED CONSTANT CURVATURE 2-WAY LINE ARRAY SPEAKER 1100W + 300W RMS 139dB SPL

- 1 x 320mm (12") B&C® high excursion LF neodymium woofer 3" coil and three 1" exit (1.7" voice coils) neodymium HF drivers which are coupled to three waveguide providing 100°H dispersion
- Frequency response from 60Hz-20kHz
- 5° vertical dispersion
- Built in power amplifier, 1100W Class D for the LF and a 300W Class G for the HF.
- DSP on-board provides 8 different equalization presets and 256 delay settings (0.25m to 32m), HF amplitude shading +/- 3dB
- Control panel features: balanced XLR-F input/output connectors, Gain, EQ Preset, Delay, HP filter switch, 3 status LED indicators (Power-On, Peak and Protection/Limiter)
- Neutrik Powercon IN and LINK OUT AC power connectors
- 18mm (3/4") **baltic birch plywood cabinet** finished with scratch and scuff resistant black paint, heavy duty metal grille
- Ergonomically placed handles and mechanical hardware for suspension with a 10:1 safety factor are provided
- QSA112.0A coupled to QSA112A cabinet permit to construct a J-array configuration and cover long distance with impressive SPL

QSA 112.0

PASSIVE CONSTANT CURVATURE LINE ARRAY 600W + 240W RMS 80HM SPL 130dB (LF)/138dB (HF)

- Dual mode passive internal crossover (Full-range or Bi-Amp configurable) with HF amplitude shading switch (-3, 0, +3dB)
- NeutrikSpeakon NL-4MDV connectors IN & LINK OUT
- External digital processor required



Addressing the growing demand for a compact and portable professional sound system, FBT developed the

QSA112/QSA112.0 Constant Curvature Line Array



QSA 112A

POWERED CONSTANT CURVATURE LINE ARRAY SPEAKER

1100W + 300W RMS 139dB SPL

- 1 x 320mm (12") B&C® high excursion LF neodymium woofer 3" coil and three 1" exit (1.7" voice coils) neodymium HF drivers which are coupled to three waveguide providing 100°H dispersion
- Frequency response from 60Hz-20kHz
- 15° vertical dispersion
- Built in power amplifier, 1100W Class D for the LF and a 300W Class G for the HF
- DSP on-board provides 8 different equalization presets and 256 delay settings (0.25m to 32m), HF amplitude shading +/- 3dB
- · Control panel features: balanced XLR-F input/ output connectors, Gain, EQ Preset, Delay, HP filter switch, 3 status LED indicators (Power-On, Peak and Protection/Limiter)
- Neutrik Powercon IN and LINK OUT AC power connectors
- 18mm (3/4") baltic birch plywood cabinet finished with scratch and scuff resistant black paint, heavy duty metal grille
- Ergonomically placed handles and mechanical hardware for suspension with a 10:1 safety factor are provided
- QSA112A coupled to QSA112.0A cabinet permit to construct a J-array configuration and cover long distance with impressive SPL

QSA 112

PASSIVE CONSTANT CURVATURE LINE ARRAY 600W + 240W RMS 80HM SPL 130dB (LF)/138dB (HF)

- Dual mode passive internal crossover (Full-range or Bi-Amp configurable) with HF amplitude shading switch (-3, 0, +3dB)
- NeutrikSpeakon NL-4MDV connectors IN & LINK OUT
- · External digital processor required



QSA 118SA

PROCESSED ACTIVE SUBWOOFER 1200W RMS - 137dB SPL

- Bass-reflex Subwoofer
- 1 x 460mm (18") B&C woofer with 4" voice coil
- Frequency Response from 35Hz to 120Hz
- Class D amplifier delivering 1200W RMS with a switch mode power supply
- **DSP on-board** provides 8 different equalization/ gain presets and 256 delay settings (0.25m to 32m)
- Control panel features: stereo balanced XLR-F input/output connectors, Volume, EQ Preset, Delay, Phase Reversal switch, GND-Lift switch, status LED indicators
- Neutrik Powercon IN and LINK OUT AC power connectors
- 18mm (3/4") baltic birch plywood cabinet finished with scratch and scuff resistant black paint, heavy duty metal grille and M20 top mount stand socket
- Optional 4 swivel-mount 80mm casters on request
- Ergonomically placed integrated handles provide for easy handling / lifting / transporting and integrated mechanical hardware for suspension on top of the QSA112/QSA112.0 cabinet

QSA 118S

PROCESSED PASSIVE SUBWOOFER 1400W/40HM -138dB SPL

- Neutrik Speakon NL-4MDV connectors IN & LINK OUT
- External digital processor required









Model		112.0A	112A	118SA
Configuration	way	2	2	1
Built-in amplif. max. LF/HF	W RMS	800/200	800/200	900
Built-in amplif. max. peak LF/HF	W	1100/300	1100/300	12
Frequency response	@-6dB	60Hz - 20KHz	60Hz - 20KHz	35Hz - 120KHz
Low frequency woofer	inch	12 - 3 coil - neodymium	12 - 3 coil - neodymium	18 - 4 coil
High frequency driver	inch	3x1 - 1.7 coil - neodymium	3x1 - 1.7 coil - neodymium	-
Maximum SPL cont/peak	dB	129 / 139	129 / 139	133 / 137 half space
Dispersion	HxV	100° x 5°	100° x 15°	H x V omni
AC Power requirements	VA	800	800	800
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	605x385x450 23.81x15.15x17.71	605x395x460 23.81x15.55x18.11	605x555x700 23.81x21.85x27.55
Net weight	Kg / Lb	37.5 / 82.67	37.5 / 82.67	56 / 123
Model		112.0	112	1185
Configuration	way	2	2	1
Configuration Recommended amplifier	way W RMS	2 800/200	2 800/200	1 1400
			-	·
Recommended amplifier	W RMS	800/200	800/200	1400
Recommended amplifier Long term power	W RMS	800/200 175/100	800/200 175/100	1400 700
Recommended amplifier Long term power Nominal impedance	W RMS W Ohm	800/200 175/100 8 (8 / 8) 70Hz - 23KHz	800/200 175/100 8 (8 / 8)	1400 700 4
Recommended amplifier Long term power Nominal impedance Frequency response	W RMS W Ohm @-6dB	800/200 175/100 8 (8 / 8) 70Hz - 23KHz	800/200 175/100 8 (8 / 8) 70Hz - 23KHz	1400 700 4 35Hz - 400Hz
Recommended amplifier Long term power Nominal impedance Frequency response Low frequency woofer	W RMS W Ohm @-6dB inch	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium	1400 700 4 35Hz - 400Hz
Recommended amplifier Long term power Nominal impedance Frequency response Low frequency woofer High frequency driver	W RMS W Ohm @-6dB inch inch	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium	1400 700 4 35Hz - 400Hz 18 - 4 coil
Recommended amplifier Long term power Nominal impedance Frequency response Low frequency woofer High frequency driver Maximum SPL cont (Bi-Amp LF/HF)	W RMS W Ohm @-6dB inch inch dB	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium 120 / 127	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium 120 / 127	1400 700 4 35Hz - 400Hz 18 - 4 coil - 133 half space
Recommended amplifier Long term power Nominal impedance Frequency response Low frequency woofer High frequency driver Maximum SPL cont (Bi-Amp LF/HF) Maximum SPL peak (Bi-Amp LF/HF)	W RMS W Ohm @-6dB inch inch dB	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium 120 / 127 123 / 131	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium 120 / 127 123 / 131	1400 700 4 35Hz - 400Hz 18 - 4 coil - 133 half space 138 half space
Recommended amplifier Long term power Nominal impedance Frequency response Low frequency woofer High frequency driver Maximum SPL cont (Bi-Amp LF/HF) Maximum SPL peak (Bi-Amp LF/HF) Dispersion	W RMS W Ohm @-6dB inch inch dB	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium 120 / 127 123 / 131 100° x 10°	800/200 175/100 8 (8 / 8) 70Hz - 23KHz 8 - 2 coil - neodymium 6 pleated diaphragm - neodymium 120 / 127 123 / 131 100° x 10°	1400 700 4 35Hz - 400Hz 18 - 4 coil - 133 half space 138 half space H x V omni



Constant Curvature Line Array

34

HIGH PERFORMANCE AND EFFICIENCY FOR A WIDE RANGE OF PROFESSIONAL INDOOR OR OUTDOOR APPLICATIONS



ITALIAN STYLE

FBT's SHADOW loudspeakers are completely designed and manufactured in Italy, assuring an elegant and attractive aesthetic to a very high technical system and featuring an high degree of quality standard.

WATER STOP GRILL

The prime consideration in designing SHADOW cabinets was extreme weather resistance, also for the drivers that would be employed inside them. The exceptionally weather resistant driver is further protected by the water-stop grille: it stops the elements, solid or liquid, from getting inside the enclosure. Each protective grille is a 3 layers structure that consists of an external perforated stainless steel panel treated with a special protection, a center layer of reticulated foam and an inner layer of water-repellent polyester mesh, providing maximum protection and minimal acoustic attenuation.

CIRCUITRY PROTECTION

All internal circuitry is protected with a special sealing and treated with weather proofing compound against the effects of moisture, corrosion and oxidation.

MOUNTING ACCESSORIES

Weather resistant steel mounting brackets are included with all models.



Shadow 142L

SHADOW 142L is a weatherproof full range, two way loudspeaker system offering high performance and efficiency for a wide range of professional indoor or outdoor applications.

This horn loaded design with its smooth frequency response and very high efficiency product ensures excellent quality music reproduction, and clear intelligible speech. Line Array configuration make SHADOW 142L perfect for convention centers, stadiums, arena and many other indoor or outdoor installations, where long throw full range sound reproduction is required.

14" LINE ARRAY SPEAKER SYSTEM 1000W / 80hm - 137dB SPL

- 14" woofer with a 3" coil
- HF section is a constant directivity horn loaded to 2x1.4" driver with a 2.5" coil for smooth, wide dispersion
- Sturdy molded polyethylene curved enclosure, full UV protection
- Water-stop grill with 3 layers of protection
- IP55 weather resistant
- 100° x 15° coverage
- 7.5° or 15° adjustable angle
- Standard grey finishes



SW-F 142 Code 36350 Flying bar for rigging SHADOW 142 L







SHADOW		142L
Configuration	way	2
Recommended amplifier (Biamp LF/HF)	W rms	1000
System Long term power (Biamp LF/HF)	W	500
System Short term power IEC 268-5 (Biamp LF/HF)	W	2000
Transformer	V/W	-
Nominal impedance (Biamp LF / HF)	Ohm	8 (8 / 8 optional)
Frequency response	@-6dB	60Hz - 20KHz
Low frequency woofer	inch	14 - 3 coil
AES power		350
High frequency driver	inch	2 x 1.4 - 2.5 coil
AES power		150
Sensitivity (@1W/1m) (Biamp LF/HF)	dB	98 / 110
Maximum SPL cont/peak	dB	126.5 / 137
Dispersion	НхV	100° x 15°
Crossover frequency	kHz	1.2 (opt Bi-Amp)
Recommended HP filter		40hz - 24dboct
Input connectors		2 x Amphenol LTW 4pole
Net dimensions (WxHxD)	mm inch	615x430x415 24.41x16.92x16.33
Net weight	kg/lb	38 / 83.7
Transport dimensions(WxHxD)	mm inch	715x530x515 28.14x20.86x20.27
Transport weight	kg/lb	40 / 88,2











Shadow 112CT 600W

Shadow 105C 150W

Shadow 114S 700W

COLUMN 37 LINE ARRAY



Vertus CLA

Column Line Array

STEEPED IN CLASSIC ITALIAN DESIGN AND ACOUSTIC EXPERTISE, **VERTUS** HAS BEEN CREATED WITH THE AIM OF EXTENDING TRUE LINE ARRAY TECHNOLOGY, AN UNDISPUTED SUCCESS IN THE FIELD OF PROFESSIONAL AUDIO, INTO A NEW RANGE OF APPLICATIONS WITHIN BOTH THE LIVE AND FIXED INSTALLATION FIELDS.

The column system is compact and elegant, with a refined yet functional design. Most importantly it offers an uncompromising quality capable of successfully solving applications where conventional systems are inadequate.

Compared to a traditional two-way speaker, the sound is distributed in a much more uniform manner into the listening area, regardless of whether the application is indoors, outdoors or acoustically difficult in terms of reverberation. The cylindrical wave front of the CLA projects sound forwards in a very precise and coherent fashion without the reverberant performance that is typical of conventional speakers which can excite environmental reflections, directing acoustic energy where it is not needed, especially towards the ceiling and floor.

Even acoustic feedback such as that generated by microphones is rejected to a far greater extent than a conventional enclosure. Finally, the columns narrow dimensions allow the discreet, unobtrusive integration of the column into any environment.

The qualities of the system CLA can be summarized as:

- High-end sound quality with a frequency response of 33Hz to 20kHz, designed specifically for live
- Improved dispersion within a set listening area plus extended projection
- High power performance and dynamic range thanks to the tri-amplification system
- Portability and modularity elements can be rapidly daisy-chained via a quick release system, extending both the vertical directivity and sound pressure level
- Design and elegance for easy integration even in the most demanding installations the compact dimensions ensure listeners will focus on the sound and not the speaker!
- Wide horizontal dispersion

The cabinet of the **CLA406A** is constructed in birch plywood with internal metal bracing to ensure stability. The enclosure comprises four custom 165mm (6.5") woofers and a 35mm (1.5") large format Neodymium compression driver with 64mm (2.5") voice coil for a frequency response that extends from 65Hz to 20KHz. The waveguide, specifically designed for this product and optimized by finite element simulation BEM, has a horizontal dispersion of 100° and 25° and a vertical low distortion thanks to the optimal load seen by the diaphragm of the driver. The height dimension of the waveguide allows an excellent vertical control throughout the operating range of the driver and enables the linking of the two systems in a consistent manner to beyond the 18KHz.

The **CLA406A** amplifier module has a die-cast aluminum with natural convection 600W for LF section and 300W for HF Class D switching power. Latest generation DSP algorithms offer 8 presets, ensuring that you will achieve the perfect sound in every application, plus generous headroom for maximum reliability and signal integrity. The cabinet is equipped with two aluminum handles

with rubber inserts and well 12 anchor points, all of which combine to make the system extremely versatile. Via optional hardware it is possible to couple two CLA406A with angles of 0° - 10° - 20°, with the adjacent waveguides for long range or with a cabinet above the other for short-medium distance. Additional accessories are available for system suspension as well as flying the accompanying CLA118SA subwoofer.

The CLA 118SA is a subwoofer in birch plywood with a 460mm woofer from B&C in a bass reflex port with an extensive laminar airflow, minimizing turbulence and power compression. The Class-D, switching power amplifier module is constructed in die-cast aluminum with natural convection, and is rated at 1200W. Onboard DSP also offers functions such as filtering, equalization and protection.

When you need to extend the performance of the CLA406A, especially in live applications, the CLA118SA acts as a support and base for the CLA406A column that can be applied, via optional hardware, with M20 points positioned on the top of the sub. The CLA118Sa is also modular and can be stacked thanks to special milling, increasing the SPL and raising the base of CLA406A.

The CLA406A is a truly professional line array that, despite its compact size, still delivers an impressive SPL of 133dB. It can be integrated elegantly and with minimal intrusion into any environment that requires high quality sound with powerful directional control.





CLA 406A

ACTIVE COLUMN LINE ARRAY 600W + 300W - 133 dB SPL

- 2-way bi-amplified line array column system
- 4 x 165mm (6.5") custom woofer voice coil 38mm (1.5")
- B&C HF neodymium driver with 36mm (1.4") exit and 64mm (2.5") voice coil
- Waveguide FBT large format with dispersion 100 $^{\circ}$ H x 25 $^{\circ}$ V
- Frequency response from 65Hz to 20KHz
- Amplifiers Class D 600Wrms for LF and HF 300Wrms with switching power supply
- Processor **DSP with 8 EQ presets**
- Control Panel with XLR input and link, volume, presets, filter-HP, ground-lift
- Neutrik powerCON power IN and LINK connectors
- 12mm (1/2") birch plywood with scratch-resistant coating
- 12 attachment points above and below for the optional hardware that allows the installation of hanging or pair two CLA406A with angle of 0 ° - 10 ° - 20 ° in the vertical plane
- Top side tilted 10 ° for the inclination of two columns without damaging gap between the waveguides for a wavefront extremely consistent over the 18kHz
- 35mm (1.3/8") top hat for stand mount facility
- It is ideal for live applications, assisted by sub CLA 118SA, which for fixed installations

CLA 118SA

PROCESSED ACTIVE SUBWOOFER 1200W - 138 dB SPL

- · Active subwoofer in bass-reflex design
- 460mm (18") B&C high excursion woofer with 75mm (3") voice coil
- Frequency response from 33Hz to 100Hz
- 1200W RMS Class D power amplifier with swittching mode power supply
- Processor **DSP with 8 presets**, cardioid configuration, delay
- Control Panel with XLR input and link, volume, presets, delay, phase 0 ° -180 °, ground-lift
- Neutrik powerCON power IN and LINK connectors
- 15mm (5/8") birch plywood with scratch-resistant coating Stackable
- M20 (20mm) top mount speaker stand socket, two diecast aluminium carrying handles with rubber inserts
- Optional 4 swivel-mount casters 80mm (3.15") on request
- Suitable for low frequency extension and reinforcement of the CLA 406A array, especially for live performance



VT-S 30 406 Code 39903 Speaker Stand h 30cm



VT-S 0 406 Code 39904 Speaker Stand h Ocm



VT-F 406 Code 39905 Flying bar Vertus CLA 406A



VT-J 406 Code 39906Joint Bar Vertus CLA 118SA with Vertus CLA 406A

Vertus CLA

THE TECHNOLOGY AND QUALITY OF A PROFESSIONAL LINE ARRAY IN A COMPACT COLUMN



VERTUS CLA was created with the thought of **integrating professional line array technology** in an extremely compact and elegant speaker column.

Compared to the traditional two-way speakers, the **sound is distributed much more evenly throughout the audience**, both in outdoor and in indoor environments acoustically difficult or reverberating as well. The CLA cylindrical wave front boasts the pleasant effect of present and precise forwardly projected sound. Even acoustic feedback towards microphones is reduced.

CLA 604A is an extruded aluminum column speaker fitted with 6 x 4" custom woofers and 4 x 1" dome tweeters, each coupled to a wave guide. The internal Class D amplification, 400W for woofers and 100W for tweeters with switch mode power supply and DSP processor with 4 equalization presets provide unexpected dynamics in a system of these dimensions. The rapid latching system with pins allows for the expansion of the system, doubling-up CLA604A modules to form a unified column with an absolute and coherent source integration and increase of SPL and low-frequency directivity control.

CLA 208SA is a 2 x 8" active subwoofer in bass-reflex design and birch ply enclosure. The internal Class D amplifier delivers 600W and is matched with a switch mode power supply and a DSP processor with filtering functions, equalization and speaker protection. Created with the idea of extending the CLA608A's low frequency performance in live applications, the CLA208SA serves as the base support for the CLA604A column speaker which can either be frontally mounted to the sub, as well as fixed upon the optional stand through the M20

The CLA208SA subwoofers are modular as well, and they can be stacked to enlarge and increase the maximum SPL.

socket on the upside of the sub.



VERTUS CLA is a light and compact modular line array system created for both live and fixed installations, comprised by two products:

- CLA 604A
 bi-amp two-way active column speakers

 400 + 100W RMS
- CLA 208SA active subwoofer 600W RMS



CLA system features:

- High-level sound quality from 50Hz to 20kHz expressly developed for live performance
- Long distance sound projection and better SPL distribution towards the audience
- Great and dynamic power performance thanks to triamplification system
- Lightweight and easy to carry
- Design and elegance for an easy integration even in the most demanding installations
- Very compact dimensions enable the listener to concentrate on sound and not on speakers!
- High horizontal dispersion

The internal XLR signal link system and Neutrik POWERCON power supply on both the sub and the satellite, allows for hiding wires and cables from open sight, preserving the system's clean aesthetics.



Vertus CLA

Column Line Array

VERTUS CLA is a true professional line array system that can satisfy the musician looking for a compact PA solution, easily to carry, modular, ready to use in just minutes with no-compromise quality. It is capable of being integrated into any environment or installation requiring high-quality sound and controlled directional characteristics.



Vertus CLA 604A





- **6 x 100 mm (4")** custom woofer with 25 mm (1") voice coil
- 4 x 25 mm (1") neodymium dome tweeter on waveguide
- 130Hz to 20KHz frequency response
- Class D 400W RMS amplifier for LF and 100W RMS for HF with switch mode power supply
- **DSP processor** with 4 available equalization presets
- Control panel with volume, presets, HP filter, Mic-Line, status LED
- XLR input and Neutrik POWERCON supply input at the lower part of the column; XLR link and Neutrik POWERCON loop output at the higher part, in order to hide each connection cable

- 100°H x 20°V dispersion
- Extruded-aluminum power coated cabinets.
 Superior latching system enables the extension of the length of the line array by adding CLA604A modules for increased modularity of the system
- Possibility to angle the columns of +/- 30° on a horizontal plane
- Ideal for both live applications, assisted by the CLA 208SA active subwoofer, as well as for fixed installation
- Easily expandable for a total power of 6600W (stereo system composed of 3 x CLA604A and 3 x CLA208SA)
- Very light and easy to carry





Vertus CLA 2085A

PROCESSED ACTIVE SUBWOOFER 600W RMS - 129dB SPL

- Active subwoofer in bass-reflex design
- 2 x 200 mm (8") custom neodymium, high-excursion woofer with 50 mm (2") voice coil
- 50Hz to 180Hz frequency response
- Class D 600W RMS amplifier with switch mode power supply
- **DSP processor** with 4 available presets
- Control panel with combo XLR/Jack stereo input and link, XLR Hi-pass out stereo, volume, presets, 0°-180° phase switch, status LED
- Neutrik POWERCON input and link
- 15 mm birch plywood enclosure with anti-scratch paint finish, stackable
- M20 stand adapter, 2 integrated handles, front hardware to sustain CLA604A modules
- Suitable for low frequency extension and reinforcement of the CLA604A array, especially for live performance



Vertus CLA

Column Line Array



Model		CLA 406A	CLA 118SA	CLA 604A	CLA 208SA
Configuration	way	2	1 REFLEX	2	1 REFLEX
Built-in amplifier max. LF/HF	W RMS	600/300	1200	400/100	600
Built-in amplifier max. peak LF/HF	W	1200/600	2400	800/200	1200
Frequency response	@-6dB	65Hz - 20KHz	33Hz - 120Hz	130Hz - 20KHz	50Hz - 180Hz
Low frequency woofer	inch	4x6.5- 1.5 coil - neodymium	1x18- 3 coil	6 x 4" - 1" coil	2 x 8" - 2" coil
High frequency driver	inch	1x1.4 - 2.5 coil - neodymium	-	4 x 1" - 1" coil	-
Maximum SPL cont/peak	dB	133	134/138 half-space	122 / 125	125 / 129 half space
Dispersion	HxV	100° x 25°	omnidirectional	100° x 20°	Omnidirectional
Input impedance	kOhm	22	22	22	22
Crossover frequency	kHz	1.2	preset dependant	2.5	0.15
AC Power requirements	VA	640	640	450	450
Input connectors		XLR with loop	XLR with loop	XLR with loop	stereo XLR with loop/HP out
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	190x1135x290 7.48x44.68x11.41	550x550x660 21.65x21.65x25.98	130x841x130 5.12x33.1x5.12	550x270x500 21.7x10.6x19.7
Net weight	Kg/Lb	27 / 59.52	40 / 88.18	9 / 19.84	20 / 44.09
Transport dimensions (WxHxD)	mm inch	290x1235x390 11.41x48.62x15.35	700x700x800 27.55x27.55x31.49	220x930x220 8.66x36.61x8.66	690x370x625 27.16x14.56x24.60
Transport weight	Kg/Lb	32 / 70.54	50 / 110.23	11.5 / 25.35	23.5 / 51.80



COLUMN 45 LINE ARRAY





Vertus MLA-DLA

Vertus MLA-DLA

Column Line Array

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VERTUS EXTEND TRUE LINE ARRAY TECNOLOGY

The **new VERTUS series** is aimed at breaking the limits traditionally associated with the column line array systems, proposing an innovative and highly professional solution. Refined in fine details both in design and acoustic solutions, the new VERTUS series has been created in order to extend true line array technology, which has achieved unquestionable success in the professional audio industry, towards new applications both in live performance and fixed installation. It proposes column speaker systems differing one another both in size and application yet united by high quality, stylish features and by the passion and dedication of those who conceived the series.

VERTUS is composed of three systems named **MLA** (Mixed control Line Array), **DLA** (Digital control Line Array) and **CLA** (Column Line Array), which are all characterized by an extruded aluminum chassis of considerable width with internal ribbing creating an absolute structural rigidity. They are all modular and through a rapid latching system it is possible to connect different elements in order to increase and extend the vertical directivity at low frequencies as well as to boost the acoustic pressure available.

Vertus MLA is composed of a minimum of two modules:

- MLA608a for Mid/Low frequencies (60hz 2KHz)
- MLA801a for High frequencies (2KHz 20KHz)

It is possible to emulate the directivity of a classic J-form line array, either curved or straight. Starting from the analysis of known line array systems with digital directivity control (columns with small wideband speakers) or mechanical directivity (all systems with inclinable cabinets that form a curved or straight J-form array), we decided to condense into one product the advantages of both types of controls, while at the same time surpassing their traditional limits.

The principle behind the operation of **MLA** is based on the **combined mechanical/digital control of directivity**. Digital allows for the control of directivity up to around 4KHz; mechanical, assisted by digital, from 4KHz to over 15KHz. This enables the system to reach the following targets:

- An aesthetically non-intrusive vertical column that is readily adaptable to any environment
- Control of full-range directivity from the lower frequencies (depending upon the length of the column) up to and over 15KHz
- **Elevated SPL**, thanks to the usage of a compression drivers e wave guide at high frequencies
- **Limited number of transducers** and therefore DSP channels and amplifiers associated with "no compromise" systems of exclusively digital steering with drastic reduction of cost.



Vertus MLA

of which is dedicated to the rotation of wave guide by 0,01° steps on the horizontal axis. It is thus possible to **activate any radiation pattern** in the maximum rotation range of the wave guide which goes from +35 to -35 with respect to the horizontal axis. The MLA system features a **RS-485 network connection for total control through PC and dedicated software** with which it is possible to simulate the environment to sound reinforce, select the appropriate dispersion pattern for the audience, transfer all the aiming parameters of the system through the network with a single button. Various types of autosplay routine enable a totally automatic configuration of the system, without precluding for the possibility of

aiming 'fine-tuning' in manual mode. In mainly Live situations, when time is limited and it isn't possible to connect to a PC, it is possible to manage steering, lobe width and equalization through 3 switch controls available on the back panel of the MLA column.

The modularity of the system allows for the construction of a column composed of a maximum of two MLA801a modules and 3 ML608A modules for a total of 4000W and a minimum frequency control of 100hz!

For usage in fixed installations, bars are provided for the close-fitting installation adjacent to walls. For live usage, an accessory is available for positioning on the 118Sa and 121Sa subwoofers of the FBT MITUS series.

The characteristics of the lobe radiation directional controls, the high SPL, the Hi-Fi frequency range, the elegance and overall dimensions, make the MLA system particularly suitable for high quality sound even in acoustically difficult environments, reverberating and very large, given the capacity of the wavefront to soften of about 3 dB upon doubling the distance from the source. Thus, it is ideal in large churches, theatres, auditoriums, large convention and multimedia halls, as well as in public places such as airports, railroad stations, etc...

Why MLA?

Currently, known line array systems activate directivity control in a digital or mechanical manner.

Digital steering allows to maintain the sources as fixed (column systems) and control the directivity associating delays and different filters in each transducer. This requires the usage of a number of channels of amplification and signal processing (DSP) equal to the number of transducers available in the column. The physical limits to this approach are that the maximum frequency of control is strictly tied to the distance between the sources and that it is necessary to have NON DIRECTIVE sources, given the fact that control is based precisely upon reciprocal interference between sources. This implicates that on one side,

to have control over high frequencies, the acoustic centers of the sources need to be very close (less than 17mm @ 10KHz), and on the other side, the impossibility to utilize wave guides in order to have an adequate SPL. For however much it is possible to create very small sources (10-15mm diameter), in order to have an adequate SPL it would be necessary to utilize a too high number of sources - and the fact that one would need to designate a channel of amplification to each source would increase costs and complexity of realization to unacceptable commercial levels. Notwithstanding that the market offers us examples of products manufactured in this manner, they are, for the major part, compromises and very expensive.

Mechanical steering adjustments, the dominant traditional method present in the major part of modular PA systems,

consists of the angling of the array speakers to form a geometrical curve between each element, variable according to area to sound reinforce, and to a general aiming of the speaker column. This approach has the advantage of creating systems having a large SPL, thanks to the utilization of waveguides and the ability to control the full-range directivity in an accurate way.

On the other hand, the system's geometry imposes a difficult and invasive positioning, especially in fixed installations and the modular construction of the cabinets and

costs.
To summarize:

 Digital control: Straight column, limited bandwidth or full-range but with low SPL and high cost.

hardware imposes generally high

 Mechanical control: Curved column, J-array or straight but inclined (high- impact aesthetics and difficulty in installation), limited control possibility, high SPL, high costs for hardware and angling.

 Mixed Mechanical/ Digital Control: Straight column, full control on all the audio frequency bandwidth, high SPL, limited costs.



Column Line Array

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Vertus MLA is a column speaker system with vertical directional characteristics fully controllable by the user both for the steering of the radiation lobe and for the width and form of the lobe itself.





Vertus MLA 608A

MIXED CONTROL ACTIVE LINE ARRAY 6 x 250W RMS - 137dB SPL

6-way active Mid/Low Line Array Column, in bass reflex with digital directivity aiming

- **6 x 8"** (200mm) custom **neodymium** woofers with 2" (50 mm) voice coil
- 60Hz to 2KHz frequency response
- 6 class D 250Wrms amplifiers with three switch mode power supplies for a total of 1500W power
- Completely controllable directional features, through control switches on the back panel or through PC software and dedicated RS-485 network
- Digital full-range aiming from **+5 to -25°** with included beamwidth between 5° and 25/40°
- PC/Slave function for aiming control via PC or other MLA module in the network
- Frontal status LED
- Possibility of mounting on subwoofer from the MITUS series through the optional mounting accessory and of wall-mount installation with the supplied bars
- DSP processor for the management of digital aiming and signal processing, 4 available presets
- Control panel with XLR input and XLR link, XLR HPfiltered output, volume, presets, 7-step angle aiming, 8-step lobe width, HP filter, ground-lift, RJ45 in/out for RS-485 network, screw connectors for in/out audio and for installation
- 90° Digital-Mechanical controlled dispersion
- Extruded-aluminum powder-coated cabinets.
 Superior latching system as well as inferior for the MLA series, allowing for great component modularity

Vertus MLA 801A

MIXED CONTROL ACTIVE LINE ARRAY 8 x 50W - 139dB SPL

- 8-way active HF Line Array Column, in bass reflex with digital/mechanical directivity aiming
- 8 x 0,75" (20mm) B&C neodymium drivers with 1" (25 mm) voice coil on wave guide
- 1.8KHz to 20KHz frequency response
- 8 class D 50Wrms amplifiers for a total of 400W power
- Completely controllable directional features, through control switches on the back panel or through PC software and dedicated network
- Revolutionary combined aiming digital/ mechanical full-range system from +5 a -25° with included lobe width between 5° and 25/40°
- 8 hybrid stepped motor controlled by a microprocessor for the mechanical aiming of wave guides
- PC/Slave function for aiming control via PC or other MLA module
- Frontal status LED
- DSP processor for the management of digital aiming and signal processing, 4 available presets
- Control panel with XLR input and XLR link, XLR HP-filtered output, volume, presets, 7-step angle aiming, 8-step lobe width, HP filter, ground-lift, RJ45 in/out for RS-485 network, screw connectors for in/out audio and for installation
- 90° Digital-Mechanical controlled dispersion
- Extruded-aluminum powder-coated cabinets.
 Superior latching system as well as inferior for the MLA series, allowing for great component modularity



Vertus DLA





VERTUS SERIES IS ENRICHED BY TWO NEW MODELS, **DLA804A AND DLA1244A**, DIGITAL DIRECTIVITY AIMING COLUMN ARRAYS.

The experience gained during the development of our leading MLA series has been transferred to these two new exclusively digital beamsteering models using the same innovative algorithms for steering and beamwidth control.

Built in elegant aluminum scratch-resistant cabinet, the DLA series can solve many problems of sound related to difficult and reverberant environments. DLA804A is composed of 8 x 100mm (4") full-range column loudspeakers matched with 8 x 50W power amplifiers in Class D and switching mode power supply. Designed especially for voice reproduction, DLA804A has a frequency response from 120Hz to 10kHz. It can be used alone or together with other DLA804A modules in order to extend the SPL and the minimum control frequency as well as to reduce beamwidth of radiation lobe.

DLA1244A is composed of 12 x 100mm (4") loudspeakers and 4 x 25mm (1") dome tweeters combined to waveguides to improve efficiency, 16 x 50W power amplifiers in Class D, switching mode power supply and a powerful DSP processor in floating point.

With a 100Hz to 20kHz frequency response, it is recommended both for voice and high-quality music reproduction. It can be used in association with DLA804A in order to create a full-range system with even better directivity control and increased SPL.

Both DLA models have a dedicated SUB output on the Euroblock connector, to extend performance at low frequencies. It is possible to use any active subwoofer within the wide range proposed by FBT.

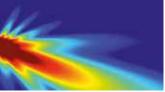
The wide range of controls and connections include: IN on XLR, IN/Link and SUB OUT on euroblock connectors, HP filter, volume, 2 switches for steering and beamwidth angle in 8 steps for a quick set up of the directional characteristics without the need of connecting a PC, and 4 equalization presets.

The PC-slave position allows control and configuration via PC. RJ45 connectors for RS-485 network data configuration via provided software. Power connection through neutrik Powerconn. The range of accessories allows wall-mount and stand mounting.

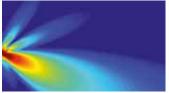
Key features

- High intelligibility even in reverberant environments
- Homogeneous SPL in the listening zone for a better acoustic comfort
- High direct to reverberant ratio
- Wide selection of directivity adjustments for a better adaptation to any environment
- Quick and simple setup even without a PC
- High quality transducers
- Modularity
- Elegant aesthetic design for the most demanding installations

Examples of directivity aiming with DLA1244A



1kHz

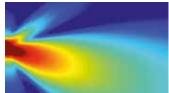


4kHz

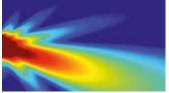


10kHz

By connecting a DLA1244A system with a DLA804A the lobe beamwidth reduces even further.



500Hz - DLA1244A only



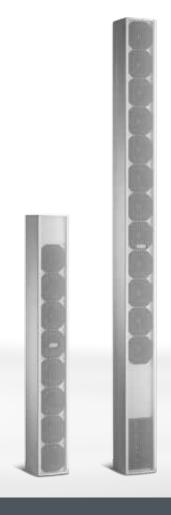
500Hz - DLA1244A+DLA804A

Vertus DLA

Column Line Array

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Built in elegant aluminum scratch-resistant cabinet, the **DLA series** can solve many problems of sound related to difficult and reverberant environments.



Vertus DLA 1244A

DIGITAL CONTROL ACTIVE LINE ARRAY 16 x 50W RMS - 126dB SPL

- 2-way active column line array with digital beam steering technology
- 12 x 100mm (4") full-range custom speakers with 25mm (1") voice coil
- 4 x 25mm (1") dome neodymium tweeter on waveguides
- Frequency response from 100Hz to 20kHz
- 16 x 50W RMS power amplifiers in Class D with switching mode power supply for a total of 800 W RMS
- the 2 way system design allows a high-quality fullrange reproduction of the musical signal
- Perfect for the reproduction of high-quality speech/ vocal application in reverberant environments, it can be used also for sound reinforcement as well as for fixed installations
- Possibility of stacking on a subwoofer from the MITUS range through the optional mounting accessory and of wall-mount installation with the supplied bars

Vertus DLA 804A

DIGITAL CONTROL ACTIVE LINE ARRAY 8 x 50W RMS - 123dB SPL

- Active column line array with digital beam steering technology
- 8 x 100mm (4") full-range custom speakers with 25mm (1") voice coil
- Frequency response from 120Hz to 10kHz
- 8 x 50W RMS power amplifiers in Class D with switching mode power supply for a total power of 400 W RMS
- Perfect for the reproduction of high-quality speech/ vocal application in reverberant environments, it can be used also for sound reinforcement as well as for fixed installations
- Possibility of stacking on a subwoofer from the MITUS range through the optional mounting accessory and of wall-mount installation with the supplied bars





Vertus CLA 604

PASSIVE COLUMN LINE ARRAY 500W 80hm 123dB SPL

- 2-way passive column line array
- 6 x 100mm (4") custom woofer with 25mm (1") voice coil
- 4 x 25mm (1") dome neodymium tweeter on a waveguide
- Frequency response from 130Hz to 20kHz
- 100V transformer with 2 levels of power, 100 and 200W
- 100°H x 20°V dispersion
- 4-pole Euroblock input connector: 8ohm -100W/100V - 200W/100V
- Extruded-aluminum powder-coated cabinets
- Wall-mount installation bars are supplied
- Expandable line array by adding CLA604 modules in order to increase SPL and reduce the vertical radiation lobe width
- Ideal for fixed installation in reverberant environments, it can improve both music and voice intelligibility by improving direct/reflected sound quality





VERTUS		MLA 608A	MLA 801A	DLA 1244A	DLA 804A
Configuration	way	6	8	16	8
Built-in amplifier cont. rms LF/HF	W	6 x 230	8 x 40	16 x 40	8 x 40
Built-in amplifier max. rms LF/HF	W	6 x 250	8 x 50	16 x 50	8 x 50
Built-in amplifier max. peak LF/HF	W	6 x 500	8 x 100	16 x 100	8 x 100
Frequency response	@-6dB	60Hz - 2KHz	1.8KHz - 20KHz	100Hz - 20KHz	120Hz - 20KHz
Low frequency woofer	inch	6 x 8 - 2 coil - neodymium	-	12 x 4 - 1 coil	8 x 4 - 1 coil
High frequency driver	inch	-	8 x 0.75 - 1 coil - neodymium	4 x 1 - 1 coil - neodymium	-
Maximum SPL cont/peak	dB	133 / 137	135 / 139	123 / 126	120 / 123
Dispersion	HxV	90° x Digital Controlled	90 x Digital-Mechanical Controlled	100° x Digital Controlled	100° x Digital Controlled
Steering Angle	V	+5 / -25	+5 / -25	+30 / -30	+30 / -30
Beamwidth Angle	V	5 / 40	5 / 40	10 / 40	10 / 40
Input impedance	kOhm	22	22	22	22
Crossover frequency	kHz	1.8	1.8	3	3
AC Power requirements	VA	1350	300	650	400
Input connectors		XLR with loop, SUB out	XLR with loop, SUB out	Euroblock with loop and SUB OUT	Euroblock with loop and SUB OUT
Power cord	mm/inch	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	240x1285x242 9.5x50.6x9.52	240x625x242 9.5x24.6x9.52	130x1685x131 5.11x66.33x5.15	130x965x131 5.11x38x5.15
Net weight	kg/lb	27 / 59.5	18 / 39.7	22 / 48.50	213 / 26.66
Transport dimensions(WxHxD)	mm inch	320x1385x322 12.6x54.5x12.67	320x725x322 12.6x28.54x12.67	220x1760x220 8.66x69.29x8.66	220x1040x220 8.66x40.94x8.66
Transport weight	kg/lb	31 / 68.4	20.5 / 45.2	24.5 / 54.01	14.5 / 31.96

VERTUS		CLA 604
Configuration	way	2
Recommended amplifier	W RMS	250
Long term power	W RMS	100
Short term power IEC 268-5	W RMS	500
Transformer	V/W	100/200
Nominal impedance	Ohm	8
Frequency response		130Hz - 20kHz
Low frequency woofer	inch	6 x 4 - 1 coil
High frequency driver	inch	4 x 1 - 1 coil neodymium
Sensitivity (@1W/1m)	dB	93
Maximum SPL cont/peak (Bi-Amp)	dB	120/123
Dispersion	HxV	100° x 20°
Crossover frequency	kHz	3
Recommended HP filter		80Hz - 24dboct
Input connectors		cavo 4 conduttori
Net dimensions (WxHxD)	mm inch	130x849x130 5.12x33.42x5.12
Net weight	Kg/lb	8 / 17,6
Transport dimensions (WxHxD)	mm inch	170x900x170 6.7x35.4x6.7
Transport weight	Kg/lb	10 / 22





Mitus



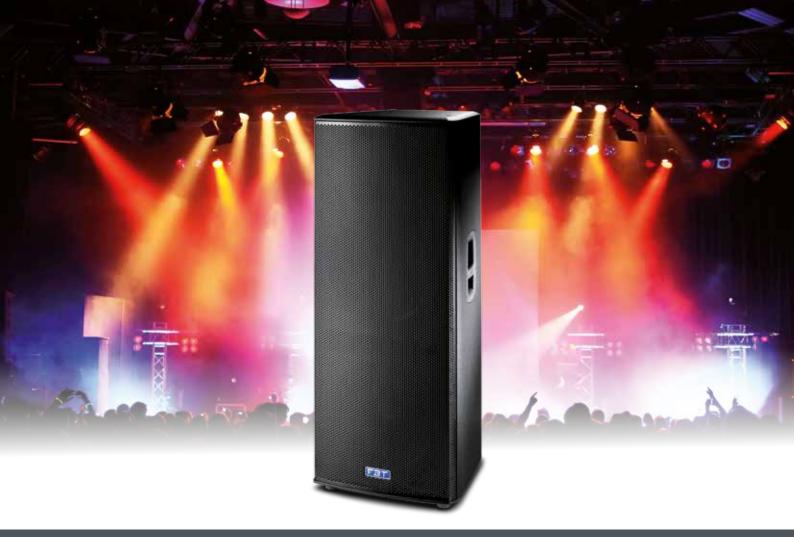
THE MITUS **SOUND REINFORCEMENT POINT SOURCE SPEAKER SERIES** IS THE TRUE RESULT OF OUR EXPERIENCE AND PASSION FOR EXCELLENCE

This comprehensive range of both powered and passive 2-way speakers delivers the finest sound reproduction for both live sound touring and permanent installations. **MITUS 215A, 152A, 115A, 114A and MITUS112A** are 2-way FOH speaker systems to provide for a wide range of applications, especially when matched along with the **MITUS subs**, guaranteeing stunning sound reproduction for any live sound event or permanent installations.

- High quality B&C neodymium magnet woofers, custom manufactured for FBT
- The latest generation of B&C compression drivers
- High efficiency Class D power amp modules with switch mode power supplies, fixed to a die-cast aluminum chassis. This provides maximum protection of the electronics from dust or dirt, prevents air loss through the input control panel that can cause fastidious noise, and it maximizes heat dissipation thanks to the air created by the excursion of the woofer, avoiding the use of a fan to cool the circuitry. All this has allowed the realization of a 3.2 Kg lightweight power amp module that delivers 1200Wrms!
- DSP with A/D-D/A low noise converters providing crossover,

- equalization, system protection along with 8 selectable presets to customize the sound program for various applications, or simply to taste of the user through an easy to use and efficient setup selection.
- A wide range of accessories makes the MITUS range extremely flexible for live or permanent installations.
- New aluminum die-cast carrying handles with rubber inserts for a secure and comfortable hold.
- Heavy duty metal grille with anti-resonance spacers and exclusive synthetic cloth to protect the drivers from dust and moisture, without modifying the acoustic fidelity. Unlike widely used conventional foam linings, our FBT exclusive synthetic cloth will not break down or disintegrate over time.





Mitus 215A

PROCESSED ACTIVE SPEAKER 1100W + 250W RMS - 136dB SPL

- 2 x 380 mm (15") B&C neodymium magnet woofer with 75 mm (3") voice coil
- 50 mm (2") exit **B&C HF driver** with 64 mm (2.5") voice coil
- Frequency response from 42Hz to 20kHz
- Class D built-in amplifiers, 1100W RMS to the LF and 250W RMS Class G to the HF
- 60°H x 40°V rotatable HF horn
- DSP with 6 EQ presets
- 2-way, bi-amplified, bass-reflex design
- Switch mode power supply
- DSP with 8 EQ presets
- Birch plywood enclosure, scratch resistant black paint finish
- Control panel with XLR input and link, volume, presets, HP filter, ground-lift
- 12 x M10 fly points and two FBT design aluminium handles
- Ideal for live sound reinforcement applications and permanent installations

Mitus 215

PASSIVE REINFORCEMENT SPEAKER 1600W/4ohm - 138dB SPL

- Hi-grade passive internal crossover featuring "softtrip" circuitry protection of LF and HF transducers
- Speakon NL4MD-V connectors IN & LINK OUT



Mitus Point Source







Mitus 152A

PROCESSED ACTIVE SPEAKER 1100W + 250W RMS - 136dB SPL

• 380 mm (15") B&C neodymium magnet woofer with 75 mm (3") voice coil

- 50 mm (2") exit **B&C HF** driver with 64 mm (2.5") voice coil
- Frequency response from 45Hz to 20kHz
- Class D built-in amplifiers, 1100W RMS to the LF and 250W RMS Class G to the HF
- 60°H x 40°V rotatable HF horn
- 35 mm (1.38") speaker stand socket
- DSP with 6 EQ presets
- Very lightweight, only 36.5Kg / 80.46Lb
- 2-way, bi-amplified, bass-reflex design
- Switch mode power supply
- DSP with 8 EQ presets
- Birch plywood enclosure, scratch resistant black paint finish
- Control panel with XLR input and link, volume, presets, HP filter, ground-lift
- 12 x M10 fly points and two FBT design aluminium handles
- Ideal for live sound reinforcement applications and permanent installations

Mitus 152

PASSIVE REINFORCEMENT SPEAKER 800W/80hm - 132dB SPL

- Hi-grade passive internal crossover featuring "soft-trip" circuitry protection of LF and HF transducers
- Speakon NL4MD-V connectors IN & LINK OUT

Mitus 115A

PROCESSED ACTIVE SPEAKER 600W + 300W RMS - 133dB SPL

- 380 mm (15") B&C neodymium magnet woofer with 75 mm (3") voice coil
- 25 mm (1") exit B&C neodymium magnet HF driver with 44 mm (1.7") voice coil
- Class D built-in amplifiers, 600W RMS to the LF and 300W RMS to the HF, switch mode power supply
- Frequency response from 46Hz to 20kHz
- 80°H x 50°V rotatable HF horn
- 35 mm (1.38") speaker stand socket
- Very lightweight, only 28Kg / 61.7Lb

Mitus 115

PASSIVE REINFORCEMENT SPEAKER 800W/80hm - 132dB SPL

Active Mitus Speakers

Switch mode power supply

resistant black paint finish

design aluminium handles

applications and permanent

Passive Mitus Speakers

featuring "soft-trip" circuitry protection of LF and HF transducers

DSP with 8 EQ presets

design

ground-lift

installations

LINK OUT

2-way, bi-amplified, bass-reflex

Birch plywood enclosure, scratch

Control panel with XLR input and

12 x M10 fly points and two FBT

Ideal for live sound reinforcement

Hi-grade passive internal crossover

Speakon NL4MD-V connectors IN &

link, volume, presets, HP filter,



Mitus 114A

PROCESSED ACTIVE SPEAKER 600W + 300W RMS - 135.5dB SPL

- 360 mm (14") B&C neodymium magnet woofer with 75 mm (3") voice coil
- 36 mm (1.4") exit B&C neodymium magnet HF driver with 64 mm (2.5") voice coil
- Class D built-in amplifiers, 600W RMS to the LF and 300W RMS to the HF, switch mode power supply
- Frequency response from 46Hz to 20kHz
- 70°H x 50°V rotatable HF horn
- 35 mm (1.38") speaker stand socket
- Very lightweight, only 24.9Kg / 54.8Lb

Mitus 112A

PROCESSED ACTIVE SPEAKER 600W + 300W RMS - 133dB SPL

- 320 mm (12") B&C neodymium magnet woofer with 75 mm (3") voice coil
- 25 mm (1") exit B&C neodymium magnet HF driver with 44 mm (1.7") voice coil
- Class D amplifiers, 600W RMS to the LF and 300W RMS to the HF, switch mode power supply
- Frequency response from 50Hz to 20kHz
- 80°H x 50°V rotatable HF horn
- 35 mm (1.38") speaker stand socket
- Very lightweight, only 20Kg / 45Lb

Mitus 114

PASSIVE REINFORCEMENT SPEAKER 700W/8ohm – 132dB SPL

Mitus 112

PASSIVE REINFORCEMENT SPEAKER 700W/8ohm - 131dB SPL

Mitus Point Source











Model		215A	152A	115A	114A	112A
Configuration	way	2	2	2	2	2
Built-in amplif. max. LF/HF	W RMS	1100/250	1100/250	600/300	600/300	600/300
Built-in amplif. max. peak LF/HF	W	2200/500	2200/500	1200/600	1200/600	1200/600
Frequency response	@-6dB	42Hz - 20KHz	45Hz - 20KHz	46Hz - 20KHz	46Hz - 20KHz	50Hz - 20KHz
Low frequency woofer	inch	2x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x14 - 3 coil - neodymium	1x12 - 3 coil neodymium
High frequency driver	inch	1 x 2 - 2.5 coil	1 x 2 - 2.5 coil	1 x 1 - 1.7 coil	1 x 1.4 - 2.5 coil	1 x 1 - 1.7 coil
Maximum SPL cont/peak	dB	133 / 136	129 / 136	127 / 133	127.5 / 135.5	126 / 133
Dispersion	HxV	60° x 40°	60° x 40°	80° x 50°	70° x 50°	80° x 50°
Input impedance	kOhm	22	22	22	22	22
Crossover frequency	kHz	1.2	1.2	1.5	1,4	1.5
AC Power requirements	VA	800	800	640	640	640
Input connectors		XLR with loop				
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4	5	5 / 16.4
Net dimensions (WxHxD)	mm inch	493x1245x471 19.04x49x18.5	425x805x421 16.7x31.7x16.6	425x750x421 16.7x29.5x16.6	380x705x380 15x27.7x15	380x660x380 15x26x15
Net weight	Kg/Lb	52.5 / 115.74	36.5 / 80.46	28 / 61.7	24.9 / 54.8	20 / 45
Transport dimensions (WxHxD)	mm inch	618x1355x610 24.3x53.3x24	550x915x560 21.6x36x22	550x560x860 21.7x22.1x33.9	480x770x455 18.1x30.3x17.9	485x495x750 19.1x19.5x29.5
Transport weight	Kg/Lb	58 / 127.86	58 / 127.86	40 / 88.18	26.9 / 59.3	22 / 48.5

Model		215	152	115	114	112
Configuration	way	2	2	2	1 reflex	2
Recommended amplifier	W RMS	1600	800	800	700	700
Long term power	W	800	400	400	350	350
Short term power IEC 268-5	W	2800	1400	1400	1400	1200
Nominal impedance	Ohm	4	8	8	8	8
Frequency response	@-6dB	47Hz - 20KHz	47Hz - 20KHz	50Hz - 18KHz	50Hz - 18KHz	55Hz - 18KHz
Low frequency woofer	inch	2x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x14 - 3 coil - neodymium	1x12 - 3 coil neodymium
High frequency driver	inch	1 x 2 - 2.5 coil	1 x 2 - 2.5 coil	1 x 1 - 1.7 coil	1 x 1.4 - 2.5 coil	1 x 1 - 1.7 coil
Sensitivity (@1W/1m)	dB	103	100	100	100	99
Maximum SPL cont/peak (Bi-Amp)	dB	134 / 138	128 / 132	128 / 132	128 / 132	127 / 131
Dispersion	HxV	60° x 40°	60° x 40°	80° x 50°	70° x 50°	80° x 50°
Crossover frequency	kHz	1.2	1.2	1.6	1.4	1.6
Recommended HP filter		40hz - 24dboct	40hz - 24dboct	40hz - 24dboct	40hz - 24dboct	40hz - 24dboct
Input connectors		2 x Speakon NL4MD-V in & throu	2 x Speakon NL4MD-V in & throu	2 x Speakon NL4MD-V in & throu	2 x Speakon NL4MD-V i n & throu	2 x Speakon NL4MD-V in & throu
Net dimensions (WxHxD)	mm inch	493x1245x471 19.04x49x18.5	425x805x421 16.7x31.7x16.6	425x750x421 16.7x29.5x16.6	380x705x380 15x27.7x15	380x660x380 15x26x15
Net weight	Kg / Lb	48 / 105.82	32 / 70.54	26 / 57.3	22.9 / 50.4	18 / 39.7
Transport dimensions (WxHxD)	mm inch	618x1355x610 24.3x53.3x24	550x915x560 21.6x36x22	550x560x860 21.7x22.1x33.9	480x770x455 18.1x30.3x17.9	485x495x750 19.1x19.5x29.5
Transport weight	Kg / Lb	53.5 / 117.94	35.5 / 78.26	28.5 / 62.8	24.9 / 54.8	20 / 44.1







Mitus 118FSA 1200W Mitus 118FS 1200W



Mitus 218SA 2000W Mitus 218S 4000W



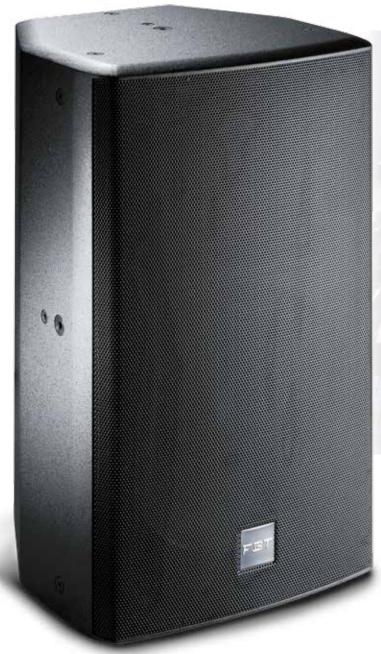
Mitus 121S 2000W

121SA Mitus 118S

Mitus 118SA 1200W Mitus 118S 1000W



Mitus 210MA 600 + 300W Mitus 210M 800W





Archon

60

Also available in white

THE **ARCHON SERIES**OF FULL-RANGE AND
BI-AMPED SPEAKER
SYSTEMS HAVE BEEN
DESIGNED TO PROVIDE **AMPLE BANDWIDTH AND HIGH SPL** FOR
AN ACCURATE SOUND
REPRODUCTION IN
THE MOST VARIOUS
APPLICATION PROJECTS

With the Archon series FBT wants to meet today's expectations of the installed sound market: a new generation of improved speakers responding to high quality sound requirements for modern indoor spaces.

The FBT Archon series lines up three 2-way full range/bi-amp models and three 2-way full range compact models; in addition, two low-profile subwoofers (2x8" and 2x15") increase the low frequency extension of the desired systems. All Archon speakers are elegantly designed and crafted to meet the most demanding architectural design.

The FBT Archon series has been engineered to fulfill the need of high quality sound in bars, pubs, restaurants, retail shops, clubs, entertainment venues, fitness centres, conference rooms, theatres, educational institutions, houses of worship, museums, exhibition centres, cruise ships, corporate AVV, granting excellent speech intelligibility, wide and precise band coverage, ease of installation thanks to the flexible mounting hardware.

- Stylish architectural cabinet design
- Acoustically transparent steel grilles with protection cloth
- High SPL, fast responding dynamics, excellent intelligibility, wide band, extremely low distortion
- Baltic birch plywood cabinets available in black or white extra texture paint
- Choice of different RAL paint colours on order
- Choice of different paint finish: glossy, matt, textured and more, on order
- Custom designed low frequency woofers, Made in Italy
- Custom designed high frequency compression drivers, Made in Italy
- Rotatable horns for optimal horizontal or vertical sound dispersion angle
- Selectable bi-amp/full range crossover network
- Full suspension possibilities through multiple M10 / M5 threaded rigging points and a wide range of mounting hardware
- Possibility to install line transformers for 100V/70V applications
- Possibility to order weatherproof versions for outdoor use
- Possibility to extend low frequencies performance through dedicated and compact subwoofers (Archon 208S, Archon 215S)





Archon 115

DACCIVE COUND DEINFORCEMENT

Archon 112

Archon 110

PASSIVE SOUND REINFORCEMENT 1000 W / 8 ohm - 134dB SPL

- 1 x 15" (3" VC) B&C custom made high excursion LF woofer
- 1 x 2" (2.5" VC) B&C custom made HF compression driver
- 1 x 2" FBT rotatable **60° x 40°** constant directivity horn
- 2-way, passive sound reinforcement systems
- 2 x Neutrik NL-4 speakon connectors
- 1 x 4 Euroblock terminal speaker connector
- B&C custom designed high excursion LF woofers
- B&C custom designed HF compression drivers
- Full range / bi-amp crossover networks with protection

PASSIVE SOUND REINFORCEMENT 1000 W / 8 ohm - 133dB SPL

- 1 x 12" (3" VC) B&C custom made high excursion LF woofer
- 1 x 1.4" (2.5" VC) B&C custom made HF compression driver
- 1 x 1.4" FBT rotatable 70° x 50° constant directivity horn
- 2-way, passive sound reinforcement systems
- 2 x Neutrik NL-4 speakon connectors
- 1 x 4 Euroblock terminal speaker connector
- B&C custom designed high excursion LF woofers
- B&C custom designed HF compression drivers
- Full range / bi-amp crossover networks with protection

PASSIVE SOUND REINFORCEMENT 700 W / 8 ohm - 129dB SPL

- 1 x 10" (2.5" VC) B&C custom made high excursion LF woofer
- 1 x 1" (1.7" VC) B&C custom made HF compression driver
- 1 x 1" FBT rotatable 80° x 50° constant directivity horn
- 2-way, passive sound reinforcement systems
- 2 x Neutrik NL-4 speakon connectors
- 1 x 4 Euroblock terminal speaker connector
- B&C custom designed high excursion LF woofers
- B&C custom designed HF compression drivers
- Full range / bi-amp crossover networks with protection

15mm (0.6") baltic birch plywood cabinets

12 x M10 threaded rigging points

2 x metal flange threads for U bracket wall mount

Acoustically transparent steel grille and antidust protection cloth

Rear pocket handle to ease lifting and installation of the cabinet

35mm (1. 3/8") top hat for speaker stand

New FBT rotatable logo badge following vertical or horizontal installation

Optional mounting hardware

Optional line transformer (300W for Archon 115 and 112, 200W for Archon 110)



Archon A new generation of improved speakers for modern indoor spaces







Archon 106

Archon 105

12mm (0.47") baltic birch plywood cabinets

Multiple M5 threaded rigging points

Acoustically transparent steel grille and antidust protection cloth

New FBT rotatable logo badge following vertical or horizontal installation

Optional mounting hardware

Optional line transformer 100W

PASSIVE SOUND REINFORCEMENT 350W / 8 ohm - 121dB SPL

Archon 108

- 1 x 8" (2" VC) custom made LF woofer with rubber surround
- 1 x 1.5" HF high-end dome tweeter
- 8 x M5 threaded rigging points
- 2-way, passive sound reinforcement systems
- Custom designed LF woofers, Made in Italy
- Custom designed HF dome tweeter, Made in Italy
- Crossover networks equipped with 4 x Euroblock speaker terminals; factory preset for optimal line transformer installation

PASSIVE SOUND REINFORCEMENT 300W / 8 ohm - 119dB SPL

- 1 x 6" (1.25" VC) custom made LF woofer with rubber surround
- 1 x 1" HF dome tweeter
- **6 x M5** threaded rigging points
- · 2-way, passive sound reinforcement systems
- · Custom designed LF woofers, Made in Italy
- Custom designed HF dome tweeter, Made in Italy
- Crossover networks equipped with 4 x Euroblock speaker terminals; factory preset for optimal line transformer installation

PASSIVE SOUND REINFORCEMENT 200W / 8 ohm - 115dB SPL

- 1 x 5" (1.25" VC) custom made LF woofer with rubber surround
- 1 x 1" HF dome tweeter
- 4 x M5 threaded rigging points
- 2-way, passive sound reinforcement systems
- Custom designed LF woofers, Made in Italy
- Custom designed HF dome tweeter, Made in Italy
- Crossover networks equipped with 4 x Euroblock speaker terminals; factory preset for optimal line transformer installation



Archon 215S

PASSIVE SOUND REINFORCEMENT SUBWOOFER 2000W / 4ohm 142dB SPL

- 2 x 15" (4" VC) custom made high excursion woofer with bass-reflex enclosure
- 18mm (3/4) birch plywood enclosure
- Four FBT design aluminum handles
- 2 x Speakon NL-4 connectors

Archon 208S

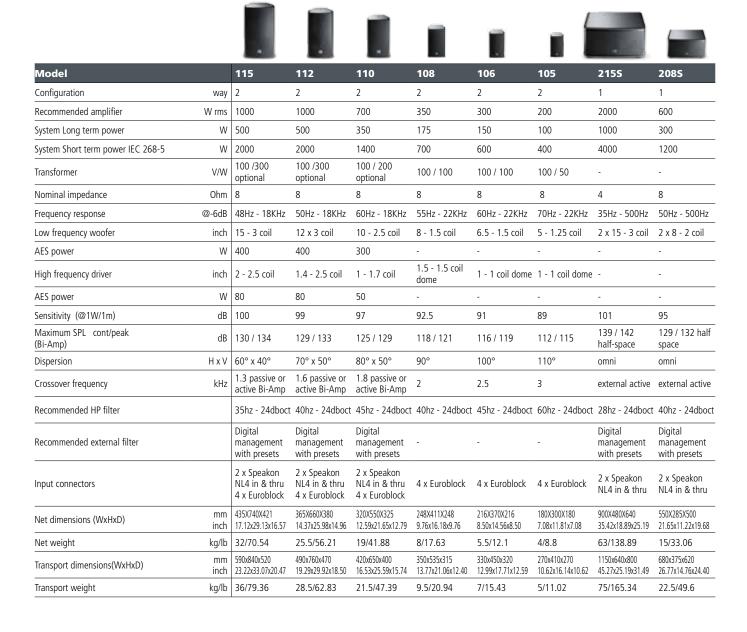
PASSIVE SOUND REINFORCEMENT Subwoofer 600W / 80hm 132dB SPL

- 2 x 8" (2" VC) custom made high excursion woofer with bass-reflex enclosure
- 15mm (5/8) birch plywood enclosure
- Two pocket handles



Archon

Po					









AC-U 115H Wall metal bracket to mount in horizontal position for Archon 115



AC-U 112V Wall metal bracket to mount in vertical position for Archon 112



AC-U 112H Wall metal bracket to mount in horizontal position for Archon 112



AC-U 110V Wall metal bracket to mount in vertical position for Archon 110



AC-U 110H Wall metal bracket to mount in horizontal position for Archon 110



AC-W 568 AC-W 568W Directional wall metal bracket black for ARCHON106 ARCHON108



Shadow

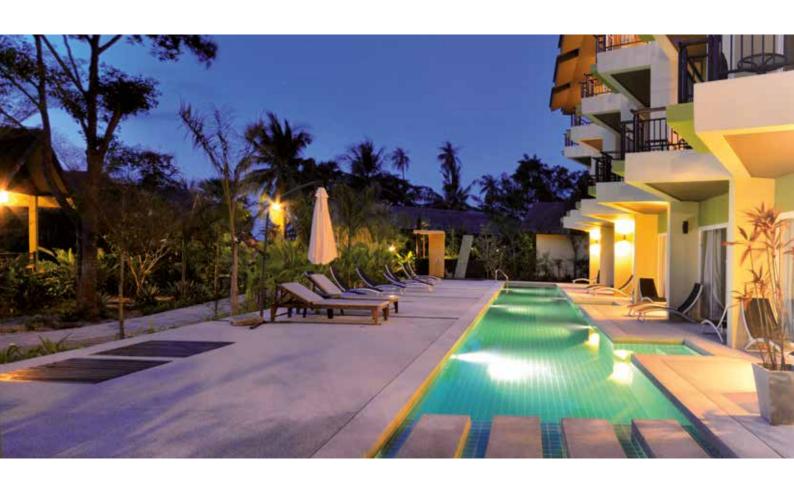
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Point Source

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HIGH PERFORMANCE AND EFFICIENCY FOR A WIDE RANGE OF PROFESSIONAL INDOOR OR OUTDOOR **APPLICATIONS**









Shadow 112HC 600W



Shadow 112CT 600W



450W



Shadow 108CT Shadow 105T 150W



Shadow 114S **700W**

SHADOW is a complete range of **very high performance full range and horn leaded loudspeakers**, designed to provide high quality music and voice reproduction in applications with extreme weather conditions resistance, ensuring a long term exposure to all kind of severe environment conditions.

High quality voice reproduction and music performance, normally associated only with indoor systems, are now available for outdoor use, with the brand new SHADOW series of speaker cabinets. The all Italian Style and the severe construction methods make all loudspeakers suitable for any indoor environment as well. These all weather products family provide the system designer with the right choice to handle a wide range of applications, that span from sports fields to stadiums, theme parks, swimming pools, themed restaurants, and all environment demanding the highest quality speech and music reproduction, combined with the product durability. FBT brand new all weather speaker range will provide long term reliability for temporary and permanent outdoor installations, as these speaker systems are manufactured applying the most severe standard expected from a classification of International Protection Rating IP 55. So they represent the fruit of many years of experience in research, development and testing, that makes FBT proud to apply the long experience as speaker manufacturer in this new systems for all weather applications.

SHADOW 112HC is a very high performance horn loaded system, to provide maximum intelligibility from the same compact enclosure, with the same dimensions of **SHADOW 112CT**. Extremely powerful system for voice announcements and music reproduction. **SHADOW 112HC** can act as both a musical entertainment loudspeaker and a voice PA loudspeaker at the same time.

The wide range, smooth frequency response and high efficiency of **SHADOW 112HC** ensure excellent quality music reproduction and clear intelligible speech with very low distortion.

This is a compact, low frequency system for additional low end. **SHADOW 114S** system has the same enclosure and hardware accessories of the **SHADOW 112**, with additional extended low frequencies reproduction to provide a wide range of applications.

It ensures excellent high fidelity music reproduction and a clear intelligible speech, with a very low distortion over medium and long distances.

SHADOW 112CT is suitable for convention centers, athletic fields or stadiums, theme parks, swimming pools, cruise ships, malls, ballrooms and in general for outdoor background music and paging systems.

SHADOW 108 CT provides excellent music and speech reproduction in a compact enclosure, ensuring a clear intelligibility, with very low distortion also over long distances. Its wide range, smooth frequency response and high efficiency ensure high quality music reproduction and make this system suitable for a variety of applications, such as athletic fields or arenas, amusement parks, swimming pools, cruise ships, convention centers, ballrooms and in general for outdoor background music and paging systems.

SHADOW 105 CT is the most compact model in the **SHADOW family.** It's built to provide high quality voice and music performance in both indoor and outdoor venues. Suited for installations in kiosks, water parks, cruise ships, queue lines, ticket counters, train platform, sport venues and many other applications.

ROTOMOLDED ENCLOSURES

The cabinet of these loudspeakers is a single piece rotomolded enclosure, made in polyethylene, fully UV protected equipped with a stainless steel U-Bracket for fixed installation.

The curved shape helps to reduce acoustic reflections and standing waves within the enclosure, for improved LF performance, and in outside the rounded shape inhibits standing water and helps to diffract wind, reducing load on the structure.



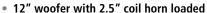
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Point Source





HIGH PERFORMANCE 12" COAX HORN LOADED, MEDIUM/LONG THROW 600W/8ohm - 132dB SPL



- Constant directivity horn 1" HF driver with 1.7" coil
- An optional transformer model, SHADOW 112HCT, is also available with 200W/100W power tapping selection
- 90x60° coverage
- 4 wires cable to select the desired power tapping
- Sturdy molded polyethylene curved enclosure
- Water-stop grill with 3 layers of protection
- Steel U bracket and other included hardware accessories
- IP55 weather resistant
- Standard grey finishes

Shadow 112CT

MULTIPURPOSE HIGH PERFORMANCE 12" COAX 600W/8ohm - 128dB SPL

- 12" coaxial woofer with 2.5" coil and 1" HF driver with 1.7" coil on conical 90° horn
- 100V line transformer with selectable 200W/100W power tapping
- Sturdy molded polyethylene curved enclosure
- 4 wires cable to select the desired power tapping
- Water-stop grill with 3 layers of protection
- IP55 weather resistant
- Standard grey finishes





Shadow 108CT

MULTIPURPOSE 8" COAX 450W/8ohm - 124dB SPL

- 8" coaxial woofer with 2" coil and 1" HF driver with 1.4" coil on conical 90° horn
- 100V line transformer with selectable 100W/50W power tapping
- Sturdy molded polyethylene curved enclosure
- Steel U bracket and other included hardware accessories
- 4 wires cable to select the desired power tapping
- Water-stop grill with 3 layers of protection
- IP55 weather resistant
- Standard grey finishes

Shadow 105T

MULTIPURPOSE 5" FULL RANGE 120W/80hm - 112dB SPL

- 2 way configuration with an high power 5" cone and 1" dome for high frequencies
- 100V line transformer with selectable
 50W/25W power tapping
- Die-cast aluminum wall bracket with ball/ socket for multi angle adjustment capability, with a security cable
- 4 wires cable to select the desired power tapping
- Water-stop grill with 3 layers of protection
- IP55 weather resistant
- Standard grey finishes

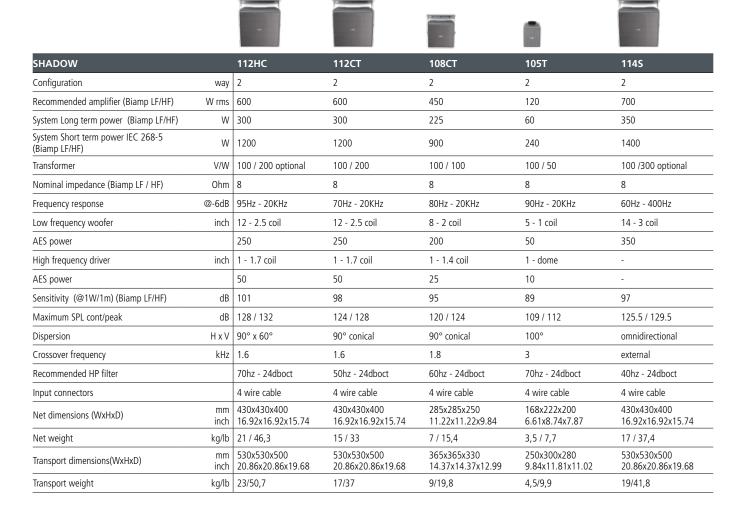
Shadow 114S

14" SUBWOOFER 700W/8ohm - 129,5dB SPL

- 14" woofer with 3" coil
- An optional transformer model, SHADOW 114ST, is also available providing impedance matching to 100V lines, with 300W power
- 4 wires cable to select the desired power tapping
- Sturdy molded polyethylene curved enclosure
- Water-stop grill with 3 layers of protection
- Steel U bracket and other included hardware accessories
- IP55 weather resistant
- Standard grey finishes

iΕ

Shadow Point Source





Shadow 142L 1000W



Mitus Subwoofer

- High quality B&C neodymium magnet woofers, custom manufactured for FBT
- High efficiency Class D power amp modules with switch mode power supplies, fixed to a diecast aluminum chassis. This provides maximum protection of the electronics from dust or dirt, prevents air loss through the input control panel that can cause fastidious noise, and it maximizes heat dissipation thanks to the air created by the excursion of the woofer, avoiding the use of a fan to cool the circuitry. All this has allowed the realization of a 3.2 Kg lightweight power amp module that delivers 1200Wrms!
- DSP with A/D-D/A low noise converters providing crossover, equalization, system protection along with 8 selectable presets to customize the sound program for various applications, or simply to taste of the user through an easy to use and efficient setup selection.
- A wide range of accessories makes the MITUS subwoofers range extremely flexible for live or permanent installations.
- Aluminum die-cast carrying handles with rubber inserts for a secure and comfortable hold.
- · Heavy duty metal grille with antiresonance spacers and exclusive synthetic cloth to protect the drivers from dust and moisture, without modifying the acoustic fidelity. Unlike widely used conventional foam linings, our FBT exclusive synthetic cloth will not break down or disintegrate over time.

Mitus models are the flagship family of FBT subwoofer enclosures. Front loaded or band-pass tuned they are the perfect low-frequency extension for MITUS line array, point source, or stage monitor range in live events or permanent installations where rich and high SPL bass frequencies need to be emphasized. All are constructed in multi ply Baltic birch plywood with a durable black paint finish.



Mitus 218SA

PROCESSED ACTIVE SUBWOOFER 2000W RMS - 145dB SPL

- Large vented bass-reflex subwoofer
- 2 x 460 mm (18") custom B&C neodymium high excursion subwoofers with 100 mm (3.9") coil
- Frequency Response from 30Hz to 100Hz
- Class D amplifiers delivering 2000W RMS with switch mode power
- DSP with 6 EQ presets, cardioids and infra configurations, delay
- 18 mm (3/4") birch plywood enclosure, textured scratch resistant black paint
- Six FBT design aluminum handles
- Optional 4 swivel-mount casters 100 mm (3.9") on request
- Perfect low-frequency extension for the MITUS range and an ideal companion for the MITUS 206LA line array for ground stack applications with optional MTB206 metal base
- M20 top mount stand socket
- Optional 4 swivel-mount casters 80 mm (3.15") on request
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground lift

Mitus 218S

PASSIVE SUBWOOFER 4000W/4ohm - 147dB SPL

- Neutrik Speakon NL4MD-V connectors IN & OUT
- External digital processor required: FBT DLM26 Digital Loudspeaker Management





Mitus 121SA

PROCESSED ACTIVE SUBWOOFER 1200W RMS - 137dB SPL

- Large vented bass-reflex subwoofer, extremely deep low frequency extension
- 530 mm (21") custom B&C neodymium high excursion subwoofers with 115 mm (4.5") coil
- Frequency response from 29Hz to 100Hz
- Class D amplifiers delivering 1200W RMS with switch mode power supply
- DSP with 8 EQ presets, cardioids and infra configurations, delay
- 18 mm (3/4") birch plywood enclosure with large reflex vent free from turbulence, scratch resistant black paint
- Six FBT design aluminum handles
- Perfect low-frequency extension for the MITUS range and an ideal companion for the MITUS 206LA line array for ground stack applications with optional MTB206 metal base
- M20 top mount stand socket
- Optional 4 swivel-mount casters 80 mm (3.15") on request
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground lift

Mitus 121S

PASSIVE SUBWOOFER 2000W/4ohm - 139dB SPL

- Neutrik Speakon NL4MD-V connectors IN & OUT
- External digital processor required: FBT DLM26 Digital Loudspeaker Management

Mitus 118SA

PROCESSED ACTIVE SUBWOOFER 1200W RMS - 139dB SPL

- Compact vented band pass subwoofer design enclosure
- 460 mm (18") custom B&C neodymium magnet high excursion woofer with 75 mm (3") voice coil
- Frequency response from 36Hz to 100Hz
- Class D amplifier delivering 1200W RMS with switch mode power supply
- DSP with 8 presets, cardioids and infra configurations, delay
- 18 mm (3/4") birch plywood enclosure, scratch resistant black textured paint
- Eight M10 fly points and two FBT design aluminum handles
- Perfect low-frequency extension for the MITUS range and an ideal companion for the MITUS 206LA line array for ground stack applications with optional MTB206 metal base
- M20 top mount stand socket
- Optional 4 swivel-mount casters 80 mm (3.15") on request
- Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground lift

Mitus 118S

PASSIVE SUBWOOFER 1000W/4ohm - 139dB SPL

- Neutrik Speakon NL4MD-V connectors IN & OUT
- External digital processor required: FBT DLM26
 Digital Loudspeaker Management





Built in birch plywood and aimed to extend the low frequency response to a wide range of FBT speaker systems. Created with the aim to maximize SPL/SIZE ratio, they have Class D amplifiers, switch mode power supply and Digital Signal Processor with presets to match any other FBT speaker.



SUBLine 218Sa



- Bass-reflex design Subwoofer
- 2 x 460mm (18") high excursion woofer with 75mm (3") voice coil, custom made for FBT by B&C
- Frequency response from 30Hz to 120Hz
- 1200W RMS Class D power amplifier with switch mode power supply
- DSP with 6 presets, 3 x EQ with 2 x LPF crossover settings, 6-step digital delay line
- Control panel with stereo XLR in/out, Volume. EQ presets, Delay, Phase reversal switch 0°-180°, 3 status LED indicators
- 18mm Baltic birch plywood enclosure with heavy duty coating
- 2 x M20 threads for stand pole mount, 4 x aluminum ergonomic FBT handles, optional wheels
- Provides additional low frequency extension when used along with FBT'S MUSE 210LA 2 x 10" active line array system
- With IN/OUT stereo connectors, it is possible to use only one subwoofer with Left and Right speakers
- Optional wheels, ergonomic integrated carrying handles and plywood cabinets allow an easy transport

SUBLine 218S

SOUND REINFORCEMENT SUBWOOFER 1200W RMS - 143dB SPL

- Neutrik Speakon NL4MD-V connectors IN & LINK OUT
- External digital processor required: FBT DLM26 Digital Loudspeaker Management





Archon 215S

PASSIVE SOUND REINFORCEMENT SUBWOOFER 2000W / 4ohm 142dB SPL

- 2 x 15" (4" VC) custom made high excursion woofer with bass-reflex enclosure
- 18mm (3/4) birch plywood enclosure
- Four FBT design aluminum handles
- 2 x Speakon NL-4 connectors

Archon 208S

PASSIVE SOUND REINFORCEMENT SUBWOOFER 600W / 8ohm 132dB SPL

- 2 x 8" (2" VC) custom made high excursion woofer with bass-reflex enclosure
- 15mm (5/8) birch plywood enclosure
- Two pocket handles



Mitus SUBLine Archon













Model		Mitus 218SA	Mitus 121SA	Mitus 118SA	SUBLine 218Sa
Configuration	way	1	1	1	1
Built-in amplif. max. LF/HF	W RMS	2000	1200	1200	1200
Built-in amplif. max. peak LF/HF	W	4000	2400	2400	2400
Frequency response	@-6dB	30Hz - 100Hz	29Hz - 100Hz	36Hz - 100Hz	30Hz - 120Hz
Low frequency woofer	inch	2x18- 4 coil	1x21 - 4.5 coil neodymium	1x18- 3 coil - neodymium	2x18 - 3 coil
Maximum SPL cont/peak	dB	139 / 145 half-space	133 / 137 half-space	135 / 139 half-space	136 / 140 half-space
Dispersion	HxV	omnidirectional	omnidirectional	omnidirectional	omnidirectional
Input impedance	kOhm	22	22	22	22
Crossover frequency	kHz	preset dependant	preset dependant	preset dependant	-
AC Power requirements	VA	1840	640	640	800
Input connectors		XLR with loop	XLR with loop	XLR with loop	stereo XLR with loop
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4	7 / 16.4
Net dimensions (WxHxD)	mm inch	1000x594x730 39.4x23.4x28.7	590x780x760 23.2x30.7x29.9	574x594x730 22.6x23.4x28.7	970x660x670
Net weight	Kg/Lb	90 /198.41	58 / 127.8	47 / 103.6	43 / 94.79
Transport dimensions (WxHxD)	mm inch	1150x 740x900 45.2x29x35.4	805x650x930 31.7x25.6x36.6	460x775x765 18.1x30.5x30.1	700x690x800 27.5x27.1x31.45
Transport weight	Kg/Lb	102 / 224.87	66.5 / 146.6	56.2 / 123.9	53 / 116.84

Model		Mitus 218S	Mitus 1215	Mitus 118S	SUBLine 218S	Archon 215S	Archon 2085
Configuration	way	1 reflex	1 reflex	1 band-pass	1 reflex	1	1
Recommended amplifier	W RMS	4000	2000	1000	2400	2000	600
Long term power	W	2000	1000	500	1200	1000	300
Short term power IEC 268-5	W	8000	3600	2000	5600	4000	1200
Nominal impedance	Ohm	4	4	4	4	4	8
Frequency response	@-6dB	30Hz - 250Hz	29Hz - 250Hz	36Hz - 400Hz	30Hz - 250Hz	35Hz - 500Hz	50Hz - 500Hz
Low frequency woofer	inch	2x18 - 4 coil	1x21 - 4.5 coil neodymium	1x18- 3 coil neodymium	1x18- 3 coil	2 x 15 - 3 coil	2 x 8 - 2 coil
Sensitivity (@1W/1m)	dB	102	99	101	101	101	95
Maximum SPL cont/peak (Bi-Amp)	dB	141 / 147 half-space	136 / 139 half-space	136 / 139 half-space	139 / 143 half-space	139 / 142 half-space	129 / 132 half space
Dispersion	HxV	omnidirectional	omnidirectional	omnidirectional	omnidirectional	omnidirectional	omnidirectional
Crossover frequency	kHz	external active	external active	external active	external active	external active	external active
Recommended HP filter		25hz - 24dboct	25hz - 24dboct	32hz - 24dboct	28hz - 24dboct	28hz - 24dboct	40hz - 24dboct
Recommended external filter		Digital management with FBT presets	Digital management with FBT presets	Digital management with FBT presets	-	Digital management with presets	Digital management with presets
Input connectors		2 x Speakon NL4MD-V in & out	2 x Speakon NL4MD-V in & throu	2 x Speakon NL4MD-V in & throu	2 x Speakon NL4 in & throu	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru
Net dimensions (WxHxD)	mm inch	1000x594x730 39.4x23.4x28.7	590x780x760 23.2x30.7x29.9	574x594x730 22.6x23.4x28.7	970x660x670	900X480X640 35.42x18.89x25.19	550X285X500 21.65x11.22x19.68
Net weight	Kg / Lb	87 / 191.8	56 / 123.5	45 / 99.2	43 / 94.79	63/138.89	15/33.06
Transport dimensions (WxHxD)	mm inch	1150x740x900 45.2x29x35.4	805x650x930 31.7x25.6x36.6	460x775x765 18.1x30.5x30.1	700x690x800 27.5x27.1x31.45	1150x640x800 45.27x25.19x31.49	680x375x620 26.77x14.76x24.40
Transport weight	Kg / Lb	99 / 218.25	64.5 / 142.2	54.2 / 119.5	53 / 116.84	75/165.34	22.5/49.6



Mitus 206LA Mitus 212FSA 600 + 300W 1200W Mitus 206L 800 + 250W Mitus 212FS 1000W Mitus 118FS 1200W



Mitus 215 1600W





Mitus 152 Mitus 115 800W 800W



Mitus 152A Mitus 115A Mitus 114A Mitus 112A 1100 + 250W 600 + 300W 600 + 300W 600 + 300W Mitus 114 Mitus 112 700W 700W



Mitus 210MA 600 + 300W Mitus 210M 800W





MUSICIANS AND VOCALISTS **NEED SUPERB SOUND FIDELITY MONITORING** TO ASSURE THEIR BEST PERFORMANCES

- High quality B&C neodymium magnet woofer, custom manufactured for FBT
- High quality B&C neodymium magnet coaxialmwoofer and HF driver, custom manufactured for FBT
- High efficiency Class D power amp modules with switch mode power supplies, fixed to a die-cast aluminum chassis. This provides maximum protection of the electronics from dust or dirt, prevents air loss through the input control panel that can cause fastidious noise, and it maximizes heat dissipation thanks to the air created by the excursion of the woofer, avoiding the use of a fan to cool the circuitry. All this has allowed the realization of a 3.2 Kg lightweight power amp module that delivers 1200Wrms!
- DSP with A/D-D/A low noise converters providing crossover, equalization, system protection along with 8 selectable presets to customize the sound program for various applications, or simply to taste of the user through an easy to use and efficient setup selection.
- Neutrik Powercon IN and LINK OUT power receptacles
- Heavy duty metal grille with anti-resonance spacers and exclusive synthetic cloth to protect the drivers from dust and moisture, without modifying the acoustic fidelity. Unlike widely used conventional foam linings, our FBT exclusive synthetic cloth will not break down or disintegrate over time.

With a discreet low profile enclosure design, the **MITUS 210MA** is undoubtedly the most advanced stage monitor of its type delivering maximum high fidelity monitoring, making it an ideal choice for all musical performances as well as TV studio broadcasts.



Mitus 210MA

PROCESSED ACTIVE STAGE MONITOR 600W + 300W RMS - 134dB SPL

- 2-way bi-amplified, bass-reflex design with coaxial HF compression driver
- 2 x 250 mm (2 x 10") B&C custom neodymium magnet speakers with 64 mm (2.5") voice coil, one of them is coaxial with 36 mm (1.4") exit titanium compression driver and 64 mm (2.5") voice coil
- Frequency response from 60Hz to 20kHz
- Class D built-in amplifiers, 600W RMS to the LF and 300W RMS to the HF with switch mode power supply
- DSP with 8 EQ presets
- Control panel with XLR input and link, volume, presets, HP-filter, ground-lift
- 70° conical dispersion
- 15 mm (5/8") birch plywood enclosure, scratch resistant black textured paint finish
- 35 mm (1.38") stand socket and back side carrying handle
- Ideal for live sound stage monitoring applications, as well as a front of house main PA speaker
- Very lightweight, only 19Kg / 41.9Lb

Mitus 210M

PASSIVE STAGE MONITOR 800W/8ohm- 132dB SPL

- Passive version, recommended amplifier of 800W RMS / 80hm
- Hi-grade passive internal crossover featuring "soft-trip" circuitry protection of LF and HF drivers



FBT'S BRAND **NEW STAGEMAXX** HAS BEEN INSPIRED BY THE NEED TO HAVE A PRODUCT SPECIFICALLY DESIGNED

AND ENGINEERED FOR USE AS STAGE MONITOR, OVERCOMING ALL COMPROMISES FOR A FULL USER

A FULL USER SATISFACTION



The extremely heavy-duty and resonance free polypropylene cabinet is born from the enormous experience of FBT in gas injected mold engineering it acoustically behaves like a wooden cabinet allowing **the perfect integration of all the components** for an uncompromising quality in a compact, elegant, unobtrusive on stage, extremely comfortable and easy to carry product.

StageMaxx 12Ma is the right combination of all the quality features to be a perfect stage monitor:

- Low profile and aesthetic elegance
- Compact size
- Frequency response studied for stage monitor applications
- High headroom before feedback
- High sound quality
- Great power and dynamics
- Symmetric dispersion
- Aligned LF and HF acoustic centers
- Easy handling on stage
- Lightweight
- Heavy-duty polypropylene cabinet



StageMaxX features a 12" B&C loudspeaker custom made for FBT and coaxially mounted with a B&C 1" exit throat compression driver.

The coaxial configuration allows perfect alignment of the acoustic centers of the transducers, guaranteeing symmetry of dispersion and improving focus of the stereo image in Left-Right configuration. Bi-amplification design with high dynamic Class D amplifiers delivering 400W + 100W RMS through a switch mode power supply. Digital Signal Processor with 4 factory equalization presets provides simple and efficient EQ adjustment to optimize the acoustical response for different applications. The FOH preset allows the use in suspended installation as well as 'drum fill' applications.

StageMaxX features two lateral M10 rigging points and wall mounting bracket for different applications (optional accessories).

3 frontal status LED indicators to control ON OFF limiter and protection state.

New Neutrik POWERCON TRUE 1 AC connector with Input and loop out to supply AC power to up to 7 additional StageMaxX speakers at 230Vac and 3 at 117Vac.

Three ergonomic integrated carrying handles, one frontally placed to easily drag and move the monitor on stage and the replaceable Teflon feet ensure sliding on stage with minimal wear.

The cabinet has 35° or 55° tilted front panel for an optimal listening distance for single user (35°) or for more users (55°).

The 4 presets are:

- ORIGINAL: is the typical "MaxX" sound adapted to "STAGE" application
- HI-CUT/DRUM FILL: provides less midhigh for a comfortable listening in nearfield at high level
- LO-CUT/DOUBLE: provides less low frequency for better intelligibility and for optimal coupling in stereo configuration
- FOH: Front Of House use in suspended or pole-mount installations

Monitor 55°



StageMaxX 12Ma

PROCESSED ACTIVE REINFORCEMENT MONITOR 400W + 100W RMS - 130dB SPL

- 2-way, bi-amplified, bass reflex design cabinet
- Coaxial custom FBT 320 mm (12") B&C speakers with 64 mm (2.5") voice coil
- B&C 25 mm (1") exit throat compression driver and 44 mm (1.7") voice coil
- Bi-amp: high dynamic Class D amplifiers 400W
 + 100W RMS to provide a pleasant sound even at loud volume
- High efficiency switch mode power supply
- Digital Signal Processor with 4 factory equalization presets
- Control Panel: XLR/Jack input and XLR link out, Volume, 4 Presets, HP Filter, 3 frontal status LED indicators
- Neutrik POWERCON TRUE 1 AC connector with Input and loop out to supply AC power to additional StageMaxX speakers

- 90° Directivity Horn
- Proprietary filtered algorithms, dynamic equalization at low frequencies, advanced energy control allows an high SPL while granting reliable and distortion free audio reproduction with high headroom
- Sturdy gas-injected polypropylene molded enclosures engineered to avoid undesired resonance
- Weather resistant coating under the grill to protect the driver and the speaker
- High SPL in a compact size monitor
- 35° or 55° tilted front panel for an optimal listening distance for single or multiple users
- Three ergonomic integrated carrying handles, two M10 rigging points
- Teflon replaceable feet allow an easy use on stage





SM-U 12W Black Code 36066 White Code 36735 Wall metal bracket to mount in horizontal position



SM-S 12 Code 37099 Metal bracket with top-hat speacker stand socket



Available in white colour: StageMaxX 12Ma W

Mitus StageMaxX





Model		Mitus 210MA	StageMaxX 12Ma	
Configuration	way	2	2	
Built-in amplif. max. LF/HF	W RMS	600/300	400/100	
Built-in amplif. max. peak LF/HF	W	1200/600	800/200	
Frequency response	@-6dB	60Hz -20KHz	60Hz - 20KHz	
Low frequency woofer	inch	2x10 - 2.5 coil neodymium	12 - 2.5 coil	
High frequency driver	inch	1 x 1.4 - 2.5 coil - neodymium-coax	1 - 1.7 coil	
Maximum SPL cont/peak	dB	127 / 134	124 / 130	
Dispersion	HxV	70° - conical	90°	
Input impedance	kOhm	22	22	
Crossover frequency	kHz	1.2	1.8	
AC Power requirements	VA	640	450	
Input connectors		XLR with loop	XLR with loop	
Power cord	m / ft	5 / 16.4	5 / 16.4	
Net dimensions (WxHxD)	mm inch	574x290x402 22.6x11.4x15.8	550x289x392 21.65x11.37x15.43	
Net weight	Kg/Lb	19 / 41.9	13.6 / 29.98	
Transport dimensions (WxHxD)	mm inch	890x390x510 35x15.4x20.1	670x430x500 26.37x16.92x19.68	
Transport weight	Kg/Lb	21.1 / 46.5	16.4 / 36.15	

Model		Mitus 210MA
Configuration	way	2
Recommended amplifier	W RMS	800
Long term power	W	400
Short term power IEC 268-5	W	1600
Nominal impedance	Ohm	8
Frequency response	@-6dB	65Hz - 20KHz
Low frequency woofer	inch	2x10 - 2.5 coil neodymium
High frequency driver	inch	1 x 1.4 - 2.5 coil - neodymium coax
Sensitivity (@1W/1m)	dB	100
Maximum SPL cont/peak (Bi-Amp)	dB	128 / 132
Dispersion	HxV	70° conical
Crossover frequency	kHz	1.3
Recommended HP filter		50hz - 24dboct
Input connectors		2 x Speakon NL4MD-V in & throu
Net dimensions (WxHxD)	mm inch	574x290x402 22.6x11.4x15.8
Net weight	Kg / Lb	17 / 37.5
Transport dimensions (WxHxD)	mm inch	890x390x510 35x15.4x20.1
Transport weight	Kg / Lb	19.1 / 42.1



Mitus 206LA 600 + 300W Mitus 118FSA 1200W Mitus 212FSA 1200W Mitus 118FS 1200W Mitus 206L 500 + 150W Mitus 212FS 1000W



Mitus 215A 1100 + 250W Mitus 215 1600W Mitus 152 800W Mitus 115 800W



Mitus 152A Mitus 115A Mitus 114A Mitus 112A 1100 + 250W 600 + 300W 600 + 300W 600 + 300W Mitus 114 Mitus 112 700W 700W



Mitus 218SA 2000W

Mitus 218S 4000W







1200W Mitus 118S 1000W

DIGITAL LOUDSPEAKER |83 MANAGEMENT

POWER AMPLIFIERS



DMM 8008 DLM26 AX Series



THE **DMM 8008 IS A HIGH PERFORMANCE** 8 INPUT X 8 OUTPUT DIGITAL MATRIX MIXER

Specially designed for commercial and professional application such as Conference rooms, Auditoriums, Sport utility buildings, House of worship, Pubs and Disco.

It includes 8 independently switchable Line/Mic inputs with Phantom power supply, 8 Line outputs, managed by a powerful 48kHz 24 Bit DSP engine, in addition to high performance 24 Bit AD/DA converters. The **DMM 8008** supports a full matrix mixing mode where inputs may be routed/mixed in any ratio to any output. Each Mic/Line input channel provides Lo/Hi pass 1st order filters, 3-band parametric EQ, Noise Gate function and Gain control. In addition Mic inputs include a Feedback Eliminator function, based on a powerful «Pitch Shifting» algorithm, particularly suitable for voice applications. Automixing function

automatically adjusts input level to make operating easier using either NOM (Number of Open Mics) attenuation function or Gain sharing algorithm. In addition Ducking process enforces a «priority order» of open microphones in order that high-priority inputs attenuate lower-priority inputs. Each output offers up to 5-band of parametric equalization, crossover filters, RMS compressor, Peak limiter, Phase and Delay controls; 8 digital In/Out ports are provided for general purpose (preset recall, trigger third parts or device); 8 front knobs provides a quickly way to control input Gain; Up to 32 units can be managed by software applications.

DMM 8008

- Excellent audio performance with 24 bit converters coupled with 48kHz sample rate
- 8 Mic/Line inputs, 8 outputs with full matrix mixing, 3 band parametric equalization and Low/High pass filters per input channel
- 5 band parametric equalization per output channel; each band can be switched to peaking, Low/High shelving with variable Q response
- Crossover filters with slopes from 6dB/Octave up to 24dB/ Octave including Butterworth, Bessel, Linkwitz-Riley
- Gain control, Noise Gate, Feedback eliminator (Mic input only) per input channel
- Each output features a precision dynamic range controller composed of a Peak Limiter and a RMS Compressor with selectable ratio and variable knee
- Automixing functions include: Configurable NOM attenuation, Gain sharing algorithm, Priority Ducking
- Adjustable Delay time up to 380mS per output channel
- Front panel interactive LCD display for local access and configuration
- Front panel 6-led status indicators per In/Out channel
- 8 front knobs available for Mic input Gain control
- 4 input contacts for additional 4 preset selections with priority configuration
- 4 digital output ports for triggering external devices
- Simultaneous control up to 32 units via PC software iPad®
- Security lockout
- TCP/IP, RS 485 and USB connection for remote controls

3 AVAILABLE MODE TO MANAGE THE DMM 8008



Via RS 485 / TCP-IP / USB

PC software for system design and real time control.



Via TCP-IP

Free software application available for iPad®.



Via RS 485

Optional Wall Control Panel WP 8008 configurable for global or single zone control.

Model	DMM 8008
AUDIO	Divini 6000
Analog Output	8 electronically balanced (Mic - Line - Unbalanced)
Uscite Analogiche	8 electronically balanced 8 electronically balanced
Maximum Input Level	Line: +14dBu; Mic: -20/0dBu (+6dBu unbalanced)
Mic Input Gain	34dB (22dB analog, 12dB digital)
Maximum Output Level	+14dBu
THD+N	0.005% at 1kHz 0dBu
S/N	>104dBA
Frequency Response	20Hz-20kHz +/-1dB
AD & DA Converters	4 x AK5385B 24bit, 1 x Ak4358 24bit (48kHz)
Phantom Power	48Vdc
DSP & PROCESSING	10.00
DSP Engine	Dream SAM3716, 24bit (data) x 96bit (coeff.)
DSP Resolution	24 x 32 bit for filtering process; 96bits resolution on intermediate
Input Equalization	computation results 3-band parametric selected as peaking or Low/High shelving with variable Q per input channel Low/High pass 1st order filter per input channel
Output Equalization	5-band parametric EQ selected as peaking or Low/High shelving with variable Q per output channel
Filter Gain	From -12dBu up to +12dBu by 0.5dBu resolution steps
Center Frequency	Selectable with a 1/24th of octave resolution step from 20Hz up to 20kHz
Filter Q/BW	Q from 0.4 up to 10 by 0.1 resolution steps
Crossover Section HPF/LPF	Butterworth 6/12/18/24dB per octave Bussel, Linkwitz-Riley and custom 12/24dB per octave Filter resolution 1/24th of octave
RMS Compressor and Peak Limiter	Threshold from 14dBu up to -34dBu Attack time from 5ms up to 200ms (1ms resolution up to 20ms, 10ms resolution up to 100ms and 20ms resolution up to 200ms) Release time from 0.1 sec up to 3 sec (0.1 sec resolution) Ratio from 1:1 to 32:1 (compressor only) Adjustable soft or hard knee (compressor only)
Delay	380,998 ms 21 us increment/decrement steps per output channel only
Feedback Eliminator	Pitch shifting algorithm only for Mic input channels
Automixing Functions	NOM attenuation, Gain sharing algorithm and priority ducking processing
GENERAL	
Device Presets	6 user presets + 4 by using S1-S4 digital input ports
Front Panel	2 x 24 character LCD display with white/blue LED backlight 6-LED status indicators (Line, Mic, Mute I/O, Signal, Clip,Limiter) 1-LED indicator Phantom power 6 x front push button (Preset recall, Setup) USB type B connector
Rear Panel	2 x 12 pin Phoenix connector (Mic/Line inputs) 2 x 12 pin Phoenix connector (Line outputs) 2 x 4 pin Phoenix connector (S1-S4 digital input ports - TTL level 0-5V) 2 x 4 pin Phoenix connector (S1-S4 digital output ports - TTL level 0-5V) 2 x RJ45 for RS485 In/Out connection 1 x RJ45 with activity leds for Ethernet connection (10/100 TCP-IP) IEC C13 16A connector; power on/off switch
Optional Device	FBT WP8008 wall panel control
Included Software	PC users interface; Free app. for iPad®
Main AC	90-240Vac (50/60Hz) - 40W
Dimensions	19" x 1.75" x 9" (483 x 44 x 229mm) - 1RU
Weight, Net/Shipping	7.71lbs (3.5kg) / 8.82lbs (4kg)
	·



THE **DLM26** IS A DSP BASED 2 INPUT X 6 OUTPUT DIGITAL LOUDSPEAKER MANAGEMENT PROCESSOR, **IDEALLY SUITED FOR FIXED INSTALLATIONS AND LIVE EVENTS**

It combines the functions of a multitude of conventional products in a compact 1U unit with extensive PC remote control capabilities.

Features superb audio quality with premium hi-end AKM5392 24bit A/D converters and AKM 4396 24bit D/A converters, carefully optimized double precision signal processing coupled with 24bit conversion ensure a dynamic range >110dB The unit can work in STANDARD MODE or in DCL MODE. The first mode permits to configure the crossover in 2x2 way + SUB, 2x3 way or 6way, the input L, R, L+R are freely assignable to each output.

In DCL mode the unit can be configured in 3ch DCL, 2ch DCL + 2ch standard, 1ch DCL + 4ch standard. DCL mode means double compressor limiter, each DCL channel have a double band limiter and compressor with assignable LO/HI split frequency.

Each input has 5 fully configurable filters, a delay of 288.66ms max in step of 6.8us, gain.

Each output has 4 fully configurable filters, a delay of 288.66ms max in step of 6.8us, gain, phase, LO-pass/Hi-pass crossover

from 6 to 24db/Oct with standard or custom Q, RMS compressor with soft knee and peak limiter.

The 2 input levels are displayed by rows of 6 level LED + 1 clip LED, the 6 output levels are displayed by rows of 5 level LED + 1 clip LED + 1 Limiter LED. The unit has 2 analog inputs, a stereo digital SPDIF input, and 6 analog outputs. Linking functions between inputs and linking functions between outputs are available.

The Pc SW for the remote control via RS485 or USB is allowing to connect in net up to 32 units and is allowing to control full parameters of the processor, to show the phase of the filter setting and to adjust graphically the RMS compressor and the Peak limiter. The comprehensive standard specification also include up to 64 memories with security lockout and two password level settings.

DLM₂₆

Digital Loudspeaker Management

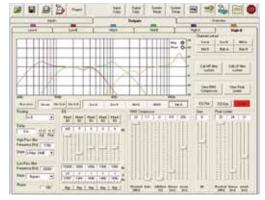


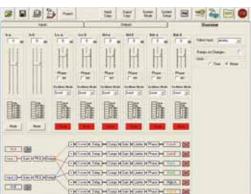
Rear panel

Special features:

- Hi-pass/Lo-pass/Shelving custom Q second order filters
- RMS compressor and PEAK limiter on each output channel with time constant and algorithm optimized for speaker thermal and mechanical protection while maximizing the output with no audible distortion
- Input channel L, R or L + R freely assignable to each output channel
- Double Compressor Limiter Mode (DCL) with two band RMS compressor and Peak limiter with adjustable HP / LP split frequency and separate parameter adj.
 - This is an exclusive and very useful feature in general purpose digital processors
- ALL PASS first and second order filters useful for Cardioid SUB configurations, very precise phase crossover alignment, special pattern control array, alignment between different speakers and systems

PC software screenshots





Inpute / Outpute		VID belanced (20dby may level		
Inputs / Outputs		XLR balanced +20dbu max level		
Total memories		64		
THD+N		0.001% at 1kHz 0dBu		
S/N		>110dB		
Frequency Response		20Hz - 20kHz @ -0.5db		
A/D and D/A Resolution		24bits		
Filters (5 each in/out)				
Туре		Peaking EQ, Hi-Shelv 1/2/Q, Lo-Shelv 1/2/Q, HPF 1/2/Q, LPF 1/2/Q, All Pass 1/2 , Band pass, Notch		
Orders		symmetrical Bell or High/Low Shelving up to second order		
Filter gain		-15dBu / +15dBu by 0.5dBu resolution steps		
Centre frequency		selectable with a 1/24th of octave resolution steps 20Hz / 20kHz		
Filter Q/BW		Q from 0.05 up to 3 by 0.05 resolution steps		
Compressors				
Threshold:		-10 / 20dbu		
Ratio:		1:1 / 32:1		
Soft Knee:		0 / 100%		
Attack Time:		10ms / 4s		
Release Time:		0.1 / 3s		
Limiters				
Threshold:		-10 / +20dbu		
Attack time:		2ms / 50ms		
Release Time:		20ms / 200ms		
High pass and Low Pass Filters		From 1st order (Butterworth -6dB/Oct) up to 4th Order (Butterworth, Linkwitz or Bessel -24dB/Oct), Custom Q		
Filter's setting step:		1/24th of octave		
Maximum Delay:		288.66ms by 6.8us increment/decrement step, on each Input and Output channel		
Net Dimensions (WxHxD)	mm inch	480 x 40 x 220 - 19" (1U rack) 18.8x1.5x8 - 19" (1U rack)		
Net Wheight:	Kg Lb	2.8 6.1		
Transport Dimensions (WxHxD)	mm inch	530x100x310 20.8x3.9x12.2		
Transport Weight	Kg Lb	3.9 8.6		
Voltage		90 - 240Vac 50/60Hz		
Power		30VA		



TOUR TOUGH BUILT, SLEEK DESIGN, IMPRESSIVE SPECS, EXCELLENT COST PER WATT PERFORMANCE, **EFFICIENT UNDER ANY APPLICATION**



With these credentials, FBT proudly presents the new **AX series of power amplifiers,** the perfect power mates for sound reinforcement speaker systems.

The **AX series** consists in four 2HU rack mount models, **from 800 to 3000 watts**, all designed with sophisticated power amp circuits for improved quality, stability and reliability, all equipped with Stereo-Parallel-Bridge operation mode, dB sensitivity switch (26-29-32dB), limiter, ground lift, XLR/Jack inputs (plus extra RCA input on AX 800), Speakon/Binding posts outputs.

APPLICATIONS

Amplification for live sound reinforcement speaker systems in clubs, discos, piano bar, conference halls, houses of worship, sports arenas, schools, theatres, mobile D.J. use, recording studio monitors, foreground music reproduction, etc.

Model		AX 800	AX 1200	AX 2000	AX 3000
Both channels driven Stereo Continuous 80hm /Impulsive	1%THD Wrms	230/250	340/350	630/650	880/650
Both channels driven Stereo Continuous 40hm /Impulsive	1%THD Wrms	350/400	460/600	840/1000	1300/1500
Bridge 8ohm Continuous / Impulsive	W RMS	700/800	920/1200	1680/2000	2600/3000
Frequency Response	@-1dB	20Hz-40kHz	20Hz-40kHz	20Hz-40kHz	20Hz-40kHz
Class	W	AB	H - 2 step	H - 2 step	H - 2 step
Signal to noise ratio	A weight	>100dB	>100dB	>100dB	>100dB
THD	50% Pmax	< 0,03%	< 0,03%	< 0,03%	< 0,03%
Damping factor		> 400	> 400	> 400	> 230
Input Impedance	ohm	20k balanced	20k balanced	20k balanced	20k balanced
Protections		Short circuit / Thermal	Short circuit / Thermal	Short circuit / Thermal	Short circuit / Thermal
Power Supply		120 or 230 Vac 50/60Hz	120 or 230 Vac 50/60Hz	120 or 230 Vac 50/60Hz	120 or 230 Vac 50/60Hz
Power Consumption		1000 VA	1300 VA	2400 VA	3600 VA
Connectors		IN: XRL/Jack OUT: Speakon/ Binding post	IN: XRL/Jack OUT: Speakon/ Binding post	IN: XRL/Jack OUT: Speakon/ Binding post	IN: XRL/Jack OUT: Speakon
Dimensions (WxHxD)	mm inch	482x88x290 19x3.5x11.4	482x88x290 19x3.5x11.4	482x88x290 19x3.5x11.4	482x88x290 19x3.5x11.4

ACCESSORIES

Muse

Rain cover MS-C 210 39340 Muse 210

Flying bar MS-F 210 38834

Muse 210

Trolley MS-T 210 38886

Muse 210 x 4

Metal **Bracket** to fix MS-F 210 to Subline 218/

MS-J 210 39401 Muse 210

Pin lock set MS-P 210 KIT | Flight-case MS-FK 210 (4pcs box) 38861

Muse 210



Muse 210 x2















Mitus

Nylon Cover MT-C 215

36063 Mitus 215

MT-C 152 36062 Mitus 152

V 67 33831

Mitus 115 Mitus 115A Mitus 114A

MT-C 114 37932 Mitus 114

V 66 33830

Mitus 112 Mitus 112A V 70 33834

Mitus 210M Mitus 210MA













MT-C 218

36064 Mitus 218S

37066 Mitus 218SA Mitus 218SA with wheels

MT-CH 218 Mitus 218S

V 69 33833 Mitus 121S Mitus 121SA MT-CH 121 37067

Mitus 121S Mitus 121SA with wheels

V 68 33832

Mitus 118S Mitus 118SA MT-CH 118

37068 Mitus 118S Mitus 118SA with wheels









MT-J 206





Flying bar

MT-F 206 31805 Mitus 206LA/L

MT-F 212 31804 Mitus 212FSA/FS Joint bar

31806 Mitus 212FSA/FS with

Mitus 206LA/L

stack on **SUB 118SA/S** or 121SA/S

Metal base MT-B 206 to ground 31888 206LA/L array or

Mitus 206 on Mitus 118 or Mitus 121 Mitus 121 Mitus 206LA Mitus 118SA/S Mitus 1121SA/S



Cluster MT-S 206 bracket for 2 33324 Mitus 206LA Mitus 206LA/L mounted on Mitus 212FSA











Flight-case

FK 206-6 33933

Mitus 206LA/L



FK 206-4 34911

Mitus 206LA/L

FK 206-2 33931 Mitus 206LA/L for 2

33931 Mitus 212FSA for 2

FK 212-2

FK 210-2 34719 Mitus 210M/MA for 2

FK 121-1 34690

Mitus 121S/SA for 1

FK 118-1 33932 Mitus 118S/SA















for 1

4 wheels kit KBW-1004S with brake 100mm ø

25197 Mitus 218S/SA Mitus 118S/SA Mitus 121S/SA

Mitus 118FS/FSA



ACCESSORIES QA WT-108 SS 108 Trolley **Flying bar HSA 108** Wooden Joint bar Metal Base MMH-108 **WD118S** 34633 trolley 34723 34722 34562 with 27897 wheels QA 108A QA 108A QA 108A QA 108A QA 108A/108 QA 108 QA 118SA/118S QA 108 QA 108 QA 108 **Modus Flying bar** MD-F SAT MD-F SUB **Trolley MD-T 48 MD-T 118** MD-T SUB Stand base MD-B MD-WB 25391 26214 38887 38888 25394 29309 Modus 4805 Modus 4820 Modus 118 Modus 4805 Modus 4805 Modus 4820 on Modus 118 Modus 215 Modus 4805 Modus 118 x 2 Modus 215 x 2 Modus 4820 Modus 4820 x 2 Modus 215 **QSA WD 118S WMA 112** WD 112 Flying bar **HSA 600** Wooden Adjustable SS 112 Trolley 37998 support 29198 pole 29198 with 27896 27897 QSA 112.0A QSA 112.0 wheels QSA 112.0A QSA 112.0A QSA 112/112A QSA 118/118SA on QSA 118SA on QSA 118SA QSA 118SA



SW-F 142 36350 SHADOW 142 L



Vertus	Nylon cover	VT-C 604 36122 Vertus CLA 604	VT-C 114 37145 Vertus VT-SC 114	VT-C 59 37146 Vertus VT-SC 59	VT-C 208 36123 Vertus CLA 208	Speaker stand	VT-S 30 406 39903 Vertus CLA 406A	VT-S 0 406 39904	Flying bar	VT-F 406 39905 Vertus CLA 406A	Joint bar	VT-J 406 39906 Vertus CLA 1185A with Vertus CLA 406A
	Stand adapter ø 35mm	VT-S 604/W 35723 Black 37044 White Vertus CLA 604A	Directional stand adapter	VT-DS 604/W 37053 Black 37054 White Vertus CLA 604A	Directional wall mount bracket	VT-W 604/W 35722 Black 37043 White Vertus CLA 604A	Stand column h 59cm	VT-SC59 604/W 36879 Black 36883 White Vertus CLA 604A	Stand column h 114cm	VT-SC114 604/W 37041 Black 37042 White Vertus CLA 604A	Pin Lock 4 pezzi	VT-P 604 Ki 36964 Vertus CLA 604
								E				

ACCESSORIES

Archon

Wall metal bracket to mount in 36328 horizontal position Archon 115

AC-U 115H

AC-U 112H 36327 Archon 112

AC-U 110H 36326 Archon 110

Wall metal bracket to mount in 36331 vertical position

AC-U 115V Archon 115

AC-U 112V 36330 Archon 112

AC-U 110V 36329 Archon 110













Directional wall metal bracket 36987

AC-W 568

Archon 106 Archon 108 AC-W 568W 37330

Archon 106 Archon 108





Subline

Nylon cover **SL-C 218S**

Subline 218SA

SL-CH 218S 38898 Subline 218SA with wheels

V 72 34721

Subline 18SA

SL-CH 18S

37051 Subline 18SA with wheels









4 wheels kit with brake 100mm ø

KBW-1004S 25197 Subline 218SA



StageMaxX Nylon

SM-C 12 36065

StageMaxX 12Ma

Wall metal bracket to mount in horizontal position 36066 Black 36735 White

SM-U 12W StageMaxX 12Ma Metal bracket with top-hat speaker stand socket

SM-S 12 37099

StageMaxX 12Ma





ACCESSORIES

ACCESSORIES AVAILABLE FOR ALL PRODUCTS

Tripod speaker stand MSA 300BK 39326 MSA 310BK 39327 MSA 325BK 39328







Microphone stand

MSA 100BK

MSA 200BK 39322 MSA 180BK 39323

KMS 400BK 32882 **KDT 500BK** 32883











Telescopic speaker pole

MSA 210BK 39329 MSA 220BK 39330



Speaker stands bag MSA BAG 39331



NC3FXX **NC3MXX**

Balanced Signal Cables

XMF-05 Lenght 0.5mt

XMF-1 Lenght 1mt XMF-2 39730 Lenght 2mt XMF-3 39731

XMF-6 39732 Lenght 6mt

Lenght 3mt

XMF-10

39733 Lenght 10mt

39409

XMF-15 39734 Lenght 15mt XMF-20 39735 Lenght 20mt XMF-30 39736

Lenght 30mt



PowerCON TRUE1 **NAC3MX** NAC3FX



PMF-05 PMF-1 39408 Lenght 0.5mt Lenght 1mt

PMF-2 37893 Lenght 2mt

PowerCON

TRUE1 NAC3MX **NAC3FX** (UL series)





PMF-05 UL 39651 Lenght 0.5mt

PMF-1 UL 39652 Lenght 1mt

PMF-2 UL 39653 Lenght 2mt

PowerCON NAC3FCA NAC3FCB



PAB-025 UL 39658 Lenght 0.25mt

PAB-05 UL 39657 Lenght 0.5mt

PAB-1 UL 36642 Lenght 1mt

PAB-2 UL 37303 Lenght 2mt

PowerCON NAC3FCA NAC3FCB (UL series)





PAB-025 36645

Lenght 0.25mt

PAB-05 36644 Lenght 0.5mt PAB-1 36643 Lenght 1mt

PAB-2 37892 Lenght 2mt

SpeakON NL4FX



SP4-025 Lenght 0.25mt

SP4-05 Lenght 0.5mt SP4-2 Lenght 2mt SP4-10 Lenght 10mt

SP4-20 Lenght 20mt

NL4MMX

Lockable 4 pole speakON adapter 39772



CONNECTORS

NC3FXX 39726

3 pole XLR female cable connector

NC3MXX 39727

3 pole XLR male cable

NAC3MX 37662

PowerCON TRUE1 male cable connector

NAC3FX 37661

PowerCON TRUE1 female cable connector **NAC3FCA** 20132

PowerCON cable connector

NAC3FCB 20134

PowerCON cable connector

NL4FX 39908

SpeakON 4 pole cable connector

















PROFESSIONAL CABLES

Professional Microphone Cable

FBT M222 33022

FBT

FB7 LOW INDUCTANCE PROFESSIONAL MICROPHONE CARLE • C € • MADE IN ITALY M222

Professional Microphone Cable FBT M234



Professional Microphone Cable FBT M322



Professional Speaker Cable FBT S275 33025 **FBT S225** 33028

FBT S240 33029

FBT S425 33030

FBT S440 33031



Cable Display

FDSY-1 33060

Tube to accomodate Cable Drum DTB-55

33105

Display hook to Accomodate Assembled cables **DHK-25** 33106

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