## PROFESSIONAL AUDIO EQUIPMENT



general catalogue 2013-2014



Line Array Systems

Speaker Systems

Subwoofer

**SUBLine** 

Stage Monitor



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Integrated Sound Systems

Digital Loudspeaker Management

Power Amplifier

Mixers

Floor Monitor

PWM

**Amplifier** 

Class G Amplifier

Switch Mode

**Power Supply** 

Neodymium

Woofer

DSP

Digital Processor

Analog

Processor

Tone

Controls

Lightweight

Hardware for permanent installations



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 strong well-established brand, a leader in modulation which goes from loudspeakers to amplifiers, from mixers to installations of PA systems through the distribution of Professional Audio Equipment and Audio Contractor lines of product and of the brands Qube, Cicognani and Kempton.

Moreover big brands such as Pearl, Sabian, JTS, Crafter, Hardcase and Phonic rely on FBT Musical Instruments Distribution for the marketing of their products.



The energy and power of FBT sound run through Europe, America, Africa, Asia up to Oceania, thanks to the cooperation with highly professional branches and distributors.



History, experience and innovation in tradition. All made in Italy.





## MITUS Sound Reinforcement Systems

A comprehensive range of both powered and passive line arrays, 2-way speakers, subwoofers and low profile stage monitors.

The MITUS 206LA is the flagship model of the MITUS range. Featuring 2 x 6.5" B&C woofers (with 1.7" high excursion voice coils) and a B&C neodymium magnet 1.4"HF compression

driver with a 64 mm (2.5") voice coil and a 35 mm (1.4") exit throat coupled to a waveguide, the 206LA compact line array is engineered to respect the physical criteria of the ideal cylindrical wave source for the entire audio range. The cabinet features 2 x 6.5" woofers coupled to a waveguide.

Mitus 206LA Mitus 212FSA Mitus 218SA Mitus 121SA 600 + 300W1200W 2000W 1200W Mitus 206L Mitus 212FS Mitus 218S Mitus 121S 500 + 150W 1000W 4000W 2000W

## The finest sound reproduction for live sound touring and permanent installations

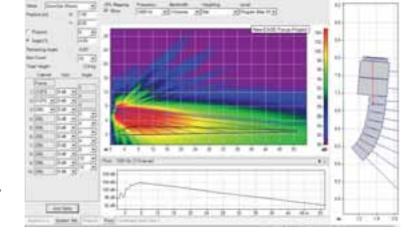
MITUS 212FSA is a 2 x 12" compact and flyable subwoofer, to extend the low frequencies of the MITUS 206LA when combined together in ground-stacked or flying arrays.

Along with this model, the MITUS 118SA, the new MITUS 218SA and the MITUS 121SA, respectively 18", double 18" and 21" subwoofers, which perfectly integrate for live or permanent applications where rich and high SPL bass frequencies need to be emphasized. MITUS 152A, 215A, 115A, 112A and the new 114A are 2-way FOH speaker systems to provide for a wide range of applications, especially when matched along with the MITUS subs. 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.

- 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, prevents air loss through the input control panel, and it maximizes heat dissipation. All this has allowed the realization of a 3.2 Kg lightweight power amp module that delivers 1200W RMS!
- DSP with A/D-D/A low noise converters providing 8 selectable presets to customize the sound program for various applications, or simply to taste of the user through a setup selection
- Neutrik Powercon IN and LINK OUT power connectors
- Aluminum die-cast carrying handles with rubber inserts
- A wide range of accessories
- 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 synthetic cloth will not break down or disintegrate over time.

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 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 206 LA, 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





## Superb sound fidelity for the best performance with a low profile enclosure design

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 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 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 configurable according to the array curve and the number of speaker units utilized. To increase low frequency SPL, the MITUS 212FSA active subwoofer is a perfect match for use with MITUS 206LA line arrays. It can be used along with the other ground stackable subwoofers in the MITUS Series, the MITUS 218SA, 118SA and 121SA. For such applications these subs feature an "INFRA" mode preset. Through the use of the FBT aiming software program for PC it is possible to simulate the SPL distribution and frequency response of the listening area.









MT-F206 Flying Bar MITUS 206LA/L



MT-S206 Cluster bracket for 2 Mitus 206 LA mounted on Mitus 212 FSA



MT-J206 Joint Bar MITUS 212FSA/FS with 206LA/L



MT-F212 Flying Bar MITUS 212FSA/FS



MT-B206 Metal Base to ground 206LA array or stack on 118SA/S or 121SA/S



## 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
- 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
- Wide range of hardware accessories for flying and ground stacked configurations
- Very lightweight, only 14Kg / 30.8Lb



## Mitus 206L

Precision coverage vertical passive array 500W + 150W RMS 160hm 129dB SPL LF/133dB SPL HF

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



is also available in white colour

















**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/8ohm -138dB SPL

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





Sound Reinforcement Systems



Perfect low-frequency extension for the MITUS range and an ideal companion for the MITUS 206LA line array for ground stack applications wi optional MTB206 me base

M20 top mount stan socket stack applications with optional MTB206 metal

M20 top mount stand

Optional 4 swivelmount casters 80 mm (3.15") on request

Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground lift



Neutrik Sp NL4MD-V IN & OUT Neutrik Speakon NL4MD-V connectors

> External digital processor required: FBT DLM26 Digital Loudspeaker Management



## 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 supply
- 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



## 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

## Mitus 218S

Passive Subwoofer 4000W/4ohm - 147dB SPL

## Mitus 121S

Passive Subwoofer 2000W/4ohm - 139dB SPL















## 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

## Mitus 118S

**Passive Subwoofer** 1000W/4ohm - 139dB SPL













## 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







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 Control panel with XLR

◀ 12 x M10 fly points and two FBT design aluminium handles

> Ideal for live sound reinforcement applications and permanent installations

Hi-grade passive internal crossover featuring "soft-tr circuitry protectic and HF transduce Speakon NL4MD connectors IN & I OUT internal crossover featuring "soft-trip" circuitry protection of LF and HF transducers

Speakon NL4MD-V connectors IN & LINK



## 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

## Mitus 215

Passive reinforcement speaker 1600W/4ohm - 138dB SPL





## Mitus 152A

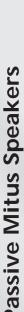
**Processed Active Speaker** 1100W + 250W RMS - 136dB SPL

- 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

### **Mitus 152**

Passive reinforcement speaker 800W/80hm - 132dB SPL



















## 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
- 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











## 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
- 70°H x 50°V rotatable HF horn
- 35 mm (1.38") speaker stand socket
- Very lightweight, only 24.9Kg / 54.8Lb



**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









Model		206LA	212FSA	218SA	121SA	118SA	210MA	215A	152A	115A	114A	112A
Configuration	way	2	1	1	1	1	2	2	2	2	2	2
Built-in amplif. cont. LF/HF	W RMS	400/200	800	1600	800	800	400/200	700/200	700/200	400/200	400/200	400/200
Built-in amplif. max. LF/HF	W RMS	600/300	1200	2000	1200	1200	600/300	1100/250	1100/250	600/300	600/300	600/300
Built-in amplif. max. peak LF/HF	W	1200/600	2400	4000	2400	2400	1200/600	2200/500	2200/500	1200/600	1200/600	1200/600
Frequency response	@-6dB	68Hz - 20KHz	45Hz - 120Hz	30Hz - 100Hz	29Hz - 100Hz	36Hz - 100Hz	60Hz -20KHz	42Hz - 20KHz	45Hz - 20KHz	46Hz - 20KHz	46Hz - 20KHz	50Hz - 20KHz
Low frequency woofer	inch	2x6.5 - 1.7 coil neodymium	2 x 12 - 3 coil neodymium	2x18- 4 coil	1x21 - 4.5 coil neodymium	1x18- 3 coil - neodymium	2x10 - 2.5 coil neodymium	2x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x14 - 3 coil - neodymium	
High frequency driver	inch	1 x 1.4 - 2.5 coil neodymium	-	-	-	-	1 x 1.4 - 2.5 coil - neodymium-coax	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		134 / 138 half-space	139 / 145 half-space	133 / 137 half-space	135 / 139 half-space	127 / 134	133 / 136	129 / 136	127 / 133	127.5 / 135.5	126 / 133
Dispersion	ΗxV	100° x 10° max dependant upon n° of element	omnidirectional	omnidirectional	omnidirectional	omnidirectional	70° - conical	60° x 40°	60° x 40°	80° x 50°	70° x 50°	80° x 50°
Input impedance	kOhm	22	22	22	22	22	22	22	22	22	22	22
Crossover frequency	kHz	1.2	preset dependant	preset dependant	preset dependant	preset dependant	1.2	1.2	1.2	1.5	1,4	1.5
AC Power requirements	VA	640	640	1840	640	640	640	800	800	640	640	640
Input connectors		XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5	5 / 16.4
Net dimensions (WxHxD)	mm inch	574x220x383 22.6x8.7x15.1	574x420x660 22.6x16.5x26	1000x594x730 39.4x23.4x28.7	590x780x760 23.2x30.7x29.9	574x594x730 22.6x23.4x28.7	574x290x402 22.6x11.4x15.8	493x1245x471 19.04x49x18.5	425x805x421 16.7x31.7x16.6	425x750x421 16.7x29.5x16.6	380x705x380 15x27.7x15	380x660x380 15x26x15
Net weight	Kg/Lb	14 / 30.8	36.5 / 80.5	90 /198.41	58 / 127.8	47 / 103.6	19 / 41.9	52.5 / 115.74	36.5 / 80.46	28 / 61.7	24.9 / 54.8	20 / 45
Transport dimensions (WxHxD)	mm inch	655x455x280 25.8x17.9x11	780x710x520 30.7x28x20.5	1150x 740x900 45.2x29x35.4		460x775x765 18.1x30.5x30.1	890x390x510 35x15.4x20.1	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	15.7 / 34.6	41 / 90.4	102 / 224.87	66.5 / 146.6	56.2 / 123.9	21.1 / 46.5	58 / 127.86	58 / 127.86	40 / 88.18	26.9 / 59.3	22 / 48.5
Model		206L	212FS	218S	121S	118\$	210M	215	152	115	114	112
Configuration	way	2	1	1 reflex	1 reflex	1 band-pass	2	2	2	2	1 reflex	2
Recommended amplifier	W RMS	500LF / 150HF	1000	4000	2000	1000	800	1600	800	800	700	700
Long term power	W	250LF / 70HF	500	2000	1000	500	400	800	400	400	350	350
Short term power IEC 268-5	W	1000LF / 300HF	2000	8000	3600	2000	1600	2800	1400	1400	1400	1200
Nominal impedance	Ohm	16LF / 16HF	8	4	4	4	8 (8 LF/8 HF)	4 (4 LF/8 HF)	8 (8 LF/8 HF)	8 (8 LF/8 HF)	8	8 (8 LF/8 HF)
Frequency response	@-6dB	75Hz - 20KHz	50Hz - 120Hz	30Hz - 250Hz	29Hz - 250Hz	36Hz - 400Hz	65Hz - 20KHz	47Hz - 20KHz	47Hz - 20KHz	50Hz - 18KHz	50Hz - 18KHz	55Hz - 18KHz
Low frequency woofer	inch	2x6.5 - 1.7 coil neodymium	2 x 12 - 3 coil neodymium	2x18 - 4 coil	1x21 - 4.5 coil neodymium	1x18- 3 coil neodymium	2x10 - 2.5 coil neodymium	2x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x15 - 3 coil neodymium	1x14 - 3 coil - neodymium	
High frequency driver	inch	1 x 1.4 - 2.5 coil neodymium		-	-	-	1 x 1.4 - 2.5 coil	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	97LF / 108HF	99	102	99	101	100	103	100	100	100	99
Maximum SPL cont/peak (Bi-Amp)	dB	125/129LF - 129/133HF	134/138 half-space	141 / 147 half-space	136 / 139 half-space	136 / 139 half-space	128 / 132	134 / 138	128 / 132	128 / 132	128 / 132	127 / 131
Dispersion	HxV	100° x 10° max dependant upon n° of element	omnidirectional	omnidirectional	omnidirectional	omnidirectional	70° conical	60° x 40°	60° x 40°	80° x 50°	70° x 50°	80° x 50°
Crossover frequency	kHz	external active	external active	external active	external active	external active	1.3	1.2	1.2	1.6	1.4	1.6
Recommended HP filter		65hz - 24dboct	40hz - 24dboct	25hz - 24dboct	25hz - 24dboct	32hz - 24dboct	50hz - 24dboct	40hz - 24dboct	40hz - 24dboct	40hz - 24dboct	40hz - 24dboct	40hz - 24dboct
Recommended external filter		Digital management with FBT presets	Digital management with FBT presets	Digital management with FBT presets	Digital management with FBT presets	Digital management with FBT presets	-	-	-	-	-	-
Input connectors		2 x Speakon	2 x Speakon NL4MD-V in & throu	2 x Speakon	2 x Speakon NL4MD-V in & throu	2 x Speakon	2 x Speakon	2 x Speakon NI 4MD-V in & throu	2 x Speakon NI 4MD-V in & throu	2 x Speakon NL4MD-V in & throu	2 x Speakon NI 4MD-V in & throu	2 x Speakon NI 4MD-V in & throu

35 / 77.2

780x710x520

30.7x28x20.5

39.5 / 87

mm

inch

LĎ

 $\, mm \,$ 

13.5 / 29.8

655x455x280

25.8x17.9x11

15.2 / 33.5

Net dimensions (WxHxD)

Transport dimensions

Transport weight

Net weight

(WxHxD)

574x220x383 574x420x660 1000x594x730 590x780x760 574x594x730

87 / 191.8

1150x740x900

45.2x29x35.4

618x1355x610

24.3x53.3x24

493x1245x471 425x805x421

48 / 105.82 32 / 70.54

425x750x421

26 / 57.3

550x915x560 550x560x860

21.6x36x22

380x705x380 380x660x380

22.9 / 50.4

480x770x455

21.7x22.1x33.9 18.1x30.3x17.9 19.1x19.5x29.5

15x26x15

18 / 39.7

485x495x750

20 / 44.1

574x290x402

17 / 37.5

890x390x510

 $22.6x8.7x15.1 \ \ 22.6x16.5x26 \ \ 39.4x23.4x28.7 \ \ 23.2x30.7x29.9 \ \ 22.6x23.4x28.7 \ \ 22.6x11.4x15.8 \ \ 19.04x49x18.5 \ \ 16.7x31.7x16.6 \ \ 16.7x29.5x16.6 \ \ 15x27.7x15$ 

45 / 99.2

460x775x765

31.7x25.6x36.6 18.1x30.5x30.1 35x15.4x20.1

99 / 218.25 64.5 / 142.2 54.2 / 119.5 19.1 / 42.1

56 / 123.5

805x650x930





# Professional Line Array

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.

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

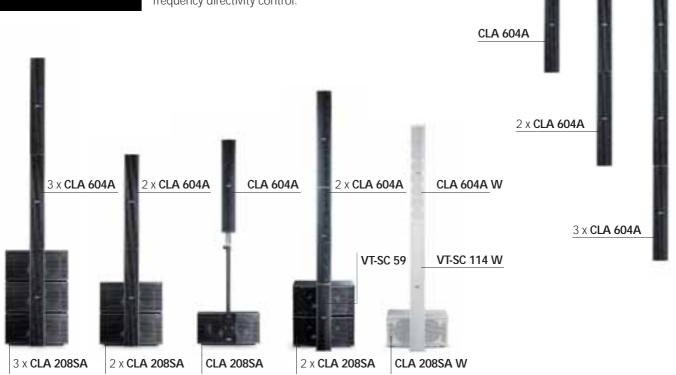
- CLA 604A: bi-amp two-way active column speakers 400 + 100W RMS
- CLA 208SA: active subwoofer 600W RMS

CLA604A 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 CLA608A 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 socket on the upside of the sub. The CLA208SA subwoofers are modular as well, and they can be stacked to enlarge and increase the maximum SPL.







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 tri-amplification 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 POWERCONN 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 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.

The technology and quality of a professional line array in a compact column



















## Vertus CLA 604A

**Column Active Line Array** 400W + 100W RMS - 125dB SPL

- 2-way bi-amplified Line Array Column
- 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
- DSP processor with 4 available equalization presets
- Control panel with volume, presets, HP filter, Mic-Line, status LED
- XLR input and Neutrik POWERCONN supply input at the lower part of the column; XLR link and Neutrik POWERCONN 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 208SA

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 POWERCONN 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





Model		CLA604a	CLA208Sa
Configuration	way	2	1
Built-in amplifier cont. LF/HF	W RMS	350/80	400
Built-in amplifier max. LF/HF	W RMS	400/100	600
Built-in amplifier max. peak LF/HF	W	800/200	1200
Frequency response	@-6dB	130Hz - 20KHz	50Hz - 180Hz
Low frequency woofer	inch	6 x 4" - 1" coil	2 x 8" - 2" coil
High frequency driver	inch	4 x 1" - 1" coil	-
Maximum SPL cont/peak	dB	122 / 125	125 / 129 half space
Dispersion	HxV	100° x 20°	Omnidirectional
Input impedance	kOhm	22	22
Crossover frequency	kHz	2.5	0.15
AC Power requirements	VA	450	450
Input connectors		XLR with loop	stereo XLR with loop/HP out
Power cord	m / ft	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	130x841x130 5.12x33.1x5.12	550x270x500 21.7x10.6x19.7
Net weight	Kg/Lb	9 / 19.84	20 / 44.09
Transport dimensions (WxHxD)	mm inch	220x930x220 8.66x36.61x8.66	690x370x625 27.16x14.56x24.60
Transport weight	Kg/Lb	11.5 / 25.35	23.5 / 51.80







# An innovative Line Array System

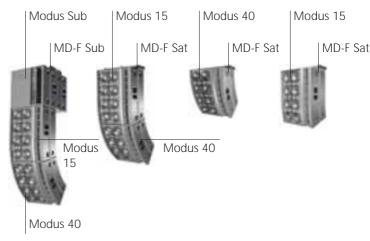
MODUS. Conceived to offer all the advantages of the very latest "true full-range array" to an increasingly vast number of users, groups together four modules per vertical array in a single box with vertical and horizontal dispersion angles controlled and already optimized to solve effectively the most varied sound reinforcement requirements, from touring to permanent installations.

The system, available in **passive and powered versions**, is composed of two line-array enclosures (MODUS 15, MODUS 40) and one bandpass subwoofer (MODUS SUB), all flyable thanks to the user friendly built-in hardware manufactured with the highest safety standards. The two array modules offer coverage patterns **90°Hx40°V** and **90°Hx15°V** dispersion angles, which can be used alone or in pairs to form a "J" array capable of covering a 90°H x 55°V angle. The SUB can be either be suspended or stacked and is a complement to the System to provide extended low frequency SPL when required.

- Custom neodymium woofers and drivers with high BxL factor and high linear excursion
- 8 different configurations allowed by a complete range of optional accessories for transport, suspension and ground stacking
- Optional wheel trolley and casters facilitate quick load ins and load outs
- 13 layer (18 mm/0.7") birch plywood enclosure with textured scratch resistant paint finish with integrated handles and mechanical hardware for suspension
- The lack of breaks in the source of the midhigh frequencies (inevitable in multi-box arrays) and the definition at the design stage of the vertical coverage angle, enable to improve emission uniformity and coherence
- The waveguide, designed to create a coherent cylindrical acoustic front, is free of multiple sound paths, ensuring a natural-

sounding emission that is hard to find in competitors' systems

 Performance comparable to high-end touring line-arrays at an extremely competitive cost



- · They can be used either individually, with vertical dispersion of respectively 15° or 40° or joined together, forming a J-array with a vertical dispersion angle of 55°
- Thanks to the wide frequency response, they can be used without a subwoofer in application with average SPL

#### **MODUS SUB**

• The particular acoustic loading and layout of the loudspeakers (compound push-pull bandpass) enable to drastically reduce the distortion and movement of the cone. ensuring high SPL and very high reliability

#### **APPLICATIONS**

- Permanent installations in theatres, concert halls, clubs, places of worship, conference rooms, indoor sports arenas and stadia
- Sound reinforcement for live events: touring, bands, orchestras, conference both indoors and out, where uniform sound pressure level is required over the entire listening area



## MODUS directs the sound. Light in price, excellent in performance

#### Self-powered range:

- High-efficiency amplifiers with PWM technology
- Digital Signal Processor
- Digital delay (63.75 m in 25 cm steps)
- EQ presets (selectable according to installation configuration)
- 24-bit/192kHz low-noise A/D and D/A converters
- · Connector panel with XLR signal input and link, input gain, Ground lift, 2 banks of DIP SWITCHES for delay control (63.75 m in 25 cm steps) and a choice of various configuration presets

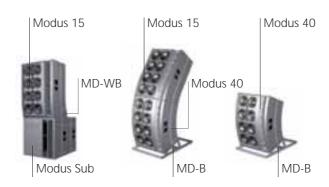
 Power supply with Neutrik POWERCON connectors Input and Output

#### Passive range Biamp or Full Range:

- Internal filters with external display of the settina in use.
- High quality passive components
- Electronic protection circuit to limit power peaks sent to the drivers with auto resetting "soft-trip" thermal protection resetting "soft-trip" thermal protection that ensures operation even in the event of over-powering

Modus Sub Modus Sub MD-T Sub





23



2-way powered biamplified true line a bass reflex design, internal Digital Sign Processor amplified true line array, internal Digital Signal

8 polypropylene waveguide horns with 90° horizon dispersion waveguide horns with 90° horizontal

On-board presets allow different equalization configurations, gain and digital delay through the rear control panel









## Modus 40a

Precision coverage active array 1400W + 700W RMS - 137dB SPL

- 2-way powered bi-amplified true line array with 40° vertical dispersion
- 1400W RMS LF and 700W RMS HF Class D (PWM) high efficiency integrated amplifier
- 8 x 200 mm (8") custom neodymium woofers with 50 mm voice coil (2")
- 8 x 25 mm (1") custom neodymium compression drivers and 44 mm voice coil (1.7")



## Modus 15a

Precision coverage active array 1400W + 700W RMS - 137dB SPL

- · 2-way powered bi-amplified true line array with 15° vertical dispersion
- 1400W RMS LF and 700W RMS HF Class D (PWM) high efficiency integrated amplifier
- 8 x 200 mm (8") custom neodymium woofers with 50 mm voice coil (2")
- 8 x 25 mm (1") custom neodymium compression drivers and 44 mm voice coil (1.7")



## Modus 40

Precision coverage passive array 1600W/2ohm LF/4ohm HF - 138dB SPL

- Dual-mode passive crossover
- NL4 speakon connectors
- · External digital processor required

## Modus 15

Precision coverage passive array 1600W/2ohm LF/4ohm HF - 138dB SPL

- · Dual-mode passive crossover
- NL4 speakon connectors
- · External digital processor required



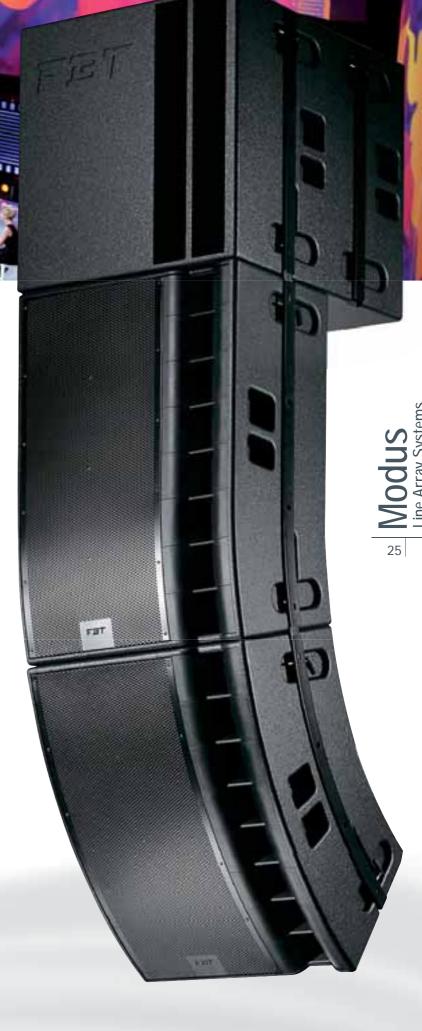




Passive subwoofer 1800W/4ohm - 141dB SPL

- NL4 speakon connectors
- · External digital processor required











Model		MODUS 40a	MODUS 15a	MODUS SUBa
Configuration	way	2	2	Band-Pass
Built-in amplifiers LF/HF	W RMS	1400/700	1400/700	1400
Frequency response	@-6dB	58Hz - 18kHz	58Hz - 18kHz	38Hz - 90Hz
Low frequency woofer	inch	8 x 8 - 2 coil - neodymium	8 x 8 - 2 coil - neodymium	2x15 - 4 coil - neodymium
High frequency driver	inch	8 x 1 - 1.7 coil - neodymium	8 x 1 - 1.7 coil - neodymium	-
Sensitivity (@1W/1m)	dB	105	105	103
Maximum SPL	dB	137	137	140 half space
Dispersion	HxV	90° x 40°	90° x 15°	omnidirectional
Input impedance	kohm	22	22	22
Crossover frequency	kHz	1.2	1.2	0.09
AC Power requirements	VA	1400	1400	1200
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 - single unit)	mm/inch	713x980x490 / 28.1x38.6x19.3	713x980x460 / 28.1x38.6x19.3	713x713x836 / 28.1x28.1x32.9
Net weight	Kg / Lb	93 / 205.02	93 / 205.02	96 / 211.64
Transport dimensions (WxHxD - 2 units on pallet)	mm/inch	750x1400x1100 / 29.5x55.1x43.3	750x1400x1100 / 29.5x55.1x43.3	920x1800x780 / 36.2x70.9x30.7
Transport weight (2 units on pallet)	Kg / Lb	210 / 462.97	210 / 462.97	215 / 473.99

Model		MODUS 40	MODUS 15	MODUS SUB
Configuration	way	2	2	Band-Pass
Recommended amplifier (Bi-Amp)	W RMS	1600 (1600 LF/400 HF)	1600 (1600 LF/400 HF)	1800
Long term power (Bi-Amp)	W	1000 (1000 LF/200 HF)	1000 (1000 LF/200 HF)	1000
Short term power IEC 268-5 (Bi-Amp)	W	3200 (3200 LF/800 HF)	3200 (3200 LF/800 HF)	3600
Nominal impedance (Bi-Amp)	ohm	2 (2 LF/4 HF)	2 (2 LF/4 HF)	4
Frequency response	@-6dB	58Hz - 18kHz	58Hz - 18kHz	38Hz - 200Hz
Low frequency woofer	inch	8 x 8 - 2 coil - neodymium	8 x 8 - 2 coil - neodymium	2x15 - 4 coil - neodymium
High frequency driver	inch	8 x 1 - 1.7 coil - neodymium	8 x 1 - 1.7 coil - neodymium	-
Sensitivity (@1W/1m) (Bi-Amp)	dB	105 (105 LF/108 HF)	105 (105 LF/108 HF)	103
Maximum SPL (Bi-Amp)	dB	138 (138 LF/134 HF)	138 (138 LF/134 HF)	141 half-space
Dispersion	ΗxV	90° x 40°	90° x 15°	omnidirectional
Crossover frequency	kHz	1.2	1.2	90Hz external
Recommended HP filter		40Hz - 24dBoct	40Hz - 24dBoct	32Hz - 24dBoct
Recommended external filter		-		LP 90Hz – 24dB/oct
Input connectors		2 x Speakon NL4 in & throu	2 x Speakon NL4 in & throu	2 x Speakon NL4 in & throu
Net dimensions (WxHxD -single unit)	mm/inch	713x980x490 / 28.07x38.58x19.29	713x980x460 / 28.07x38.58x19.29	713x713x836 / 28.07x28.07x32.91
Net Weight	Kg / Lb	83 / 182.98	83 / 182.98	86 / 189.59
Transport dimensions (WxHxD - 2 units on pallet)	mm/inch	750x1400x1100 / 29.5x55.1x43.3	750x1400x1100 / 29.5x55.1x43.3	920x1800x780 / 36.2x70.9x30.7
Transport weight (2 units on pallet)	Kg /Lb	190 / 418.87	190 / 418.87	195 / 429.90



MD-F Sat Flying bar Sat



Flying bar Sub



MD-T Sat Trolley for 2 Modus Sat



MD-T Sub Trolley for 2 Modus Sub



MD-B Metal stand base to tilt Modus 40/15



MD-WB Joint base to ground stack Modus 40/15 to Modus Sub



## The New Incredible Verve Sound

Verve 212A 400 + 100W Verve 212

800W

Verve 115A 400 + 100W Verve 115 500W

Verve 112A 400 + 100W Verve 112 400W







The new Verve Speakers Series features birch plywood enclosures with a scratch resistant textured paint finish, entirely 'Made in Italy' and offers outstanding performance at competitive prices.

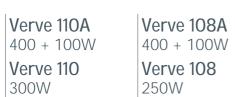
New high efficiency PWM and very light yet powerful class D integrated amplifiers, a new digital signal processor with 4 EQ presets with an extremely low noise floor.

VERVE speakers are equipped with constant directivity rotatable horns, high efficiency woofers and HF compression drivers, higher quality protected crossover networks. Available in 5 bi-amplified active, 5 passive models and 2 coaxial bi-amplified stage monitors.

To extend the low frequency response, VERVE speakers can be matched with FBT SUBLine subwoofers, available in 12", 15" e 18" models. Full line of hardware accessories for permanent installations is also available.

- 15 mm (0.59") birch plywood scratch resistant enclosure and internal bracing
- Bi-amplified models with high dynamic Class D amplifiers 400W + 100W RMS to provide a pleasant sound even at loud volume

- New ultra-light woofers custom made for FBT with a weather resistant coating, extremely reliable and efficient
- High efficiency switch mode power supply
- Advanced filter algorithms including dynamic equalization at low frequencies and advanced energy control to allow high SPL while always granting reliable and distortion-free audio reproduction
- An increase in total SPL thanks to FBT's new digital limiter algorithms and increased amplifier power output
- Passive models: soft-trip high-frequency protection circuitry to ensure proper operation even in overdriven conditions and superb quality components, metallic polyester condensers and large diameter coils. All components embedded in special resin to ensure total immunity to vibration
- Fully rotatable constant directivity horn to adjust HxV angle coverage in the non-coaxial models
- Ergonomic integrated carrying handles, M10 rigging points, top-hat speaker stand socket and wall bracket mounting hardware



Verve 115MA 400 + 100W Verve 115M 500W

Verve 112MA 400 + 100W Verve 112M 500W









Packed with features and guaranteed to deliver your music in the way you demand: loud and clear!



VERVE Series is also available in white colour.

New Digital Signal Processor with 4 factory equalization presets provides simple and efficient EQ adjustment. The presets have been extensively tested in the anechoic chamber to optimize the sound performance for different applications.

- ORIGINAL: is the typical 'VERVE' sound
- BOOST: bass and high are emphasized for a rich and engaging sound
- HI-END/ VOCAL: very flat response, typical of the top touring systems. Provides increased intelligibility and presence for vocals and speech
- WARM: provides a full bodied response to the Low/Mid frequencies and less aggressive on the high





Biamped: 400W RMS

2-way, bi-amplified, bass reflex design

Biamped: 400W RMS HF, 100W RMS HF, Class D power amplifiers

Digital Signal Process with 4 Equalization Presets

Digital Signal Processor Presets

15 mm (0.59") birch plywood scratch resistant enclosure and internal bracing

High efficiency switch mode power supply

Control Panel: features balanced XLR/Jack input and XLR LINK OUT, Volume, EQ Presets, HP Filter, 3 status LED indicators

Built-in passive crossover with s protection for the woofer and HF

Speakon NL-4 II
LINK OUT connections crossover with soft-trip protection for the LF woofer and HF driver

Speakon NL-4 IN and LINK OUT connectors







## Verve 212a

**SPL Processed Active Speaker** 400W + 100W RMS - 133dB

- 2 x 320 mm (12") woofer with 64 mm (2.5") voice coil, custom made for FBT
- 36 mm (1.4") B&C compression driver with 64 mm (2.5") voice coil
- Frequency response from 50Hz to 20 kHz
- 70°H x 50°V Constant Directivity Horn
- 6xM10 anchoring points and 2 heavy duty metal handles

## Verve 212

Passive reinforcement speaker 800W/80hm RMS - 134dB SPL













## Verve 115a

**SPL Processed Active Speaker** 400W + 100W RMS - 130dB SPL

- 380 mm (15") LF woofer with 64 mm (2.5") voice coil, custom made for FBT
- 25 mm (1") exit throat B&C HF compression driver with 36 mm (1.4") voice coil
- Frequency response from 45Hz to 20 kHz
- 80°H x 50°V Constant Directivity Horn
- 6 x M10 suspension points, wall bracket mount flange plate, 35 mm (1 3/8") top-hat speaker stand socket, two integrated handles



## Verve 112a

**SPL Processed Active Speaker** 400W + 100W RMS - 130dB SPL

- 320 mm (12") LF woofer with 64 mm (2.5") voice coil, custom made for FBT
- 25 mm (1") exit throat B&C HF compression driver with 36 mm (1.4") voice coil
- Frequency response from 52Hz to 20 kHz
- 80°H x 50°V Constant Directivity Horn
- 6 x M10 suspension points, wall bracket mount flange plate, 35 mm (1 3/8") top-hat speaker stand socket, one integrated handle

## Verve 115

Passive reinforcement speaker 400W/80hm RMS - 129dB SPL

## Verve 112

Passive reinforcement speaker 400W/80hm RMS - 128dB SPL







2-way, bi-amplified, bass reflex design

Biamped: 400W RMS

LF, 100W RMS HF, CI

D power amplifiers

Digital Signal Process with 4 Equalization Presets Biamped: 400W RMS LF, 100W RMS HF, Class

Digital Signal Processor

15 mm (0.59") birch plywood scratch resistant enclosure and internal bracing

High efficiency switch mode power supply

Control Panel: features balanced XLR/Jack input and XLR LINK OUT, Volume, EQ Presets, HP Filter, 3 status LED indicators











## Verve 110a

**Processed Active Speaker** 400W + 100W RMS - 128dB SPL

- 250 mm (10") LF woofer with 50 mm (2") voice coil, custom made for FBT
- 25 mm (1") exit throat B&C HF compression driver with 36 mm (1.4") voice coil
- Frequency response from 60Hz to 20 kHz
- 80°H x 50°V Constant Directivity Horn
- 6 x M10 suspension points, wall bracket mount flange plate, 35 mm (1 3/8") top-hat speaker stand socket, one integrated handle

## Verve 110

Passive reinforcement speaker 300W/80hm RMS - 125dB SPL











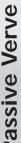
## Verve 108a

**Processed Active Speaker** 400W + 100W RMS - 128dB SPL

- 200 mm (8") LF woofer with 50 mm (2") voice coil, custom made for FBT
- 25 mm (1") exit throat B&C HF compression driver with 36 mm (1.4") voice coil
- Frequency response from 65Hz to 20 kHz
- 80°H x 50°V Constant Directivity Horn
- Wall bracket mount flange plate, 35 mm (1 3/8 ") top-hat speaker stand socket

## Verve 108

Passive reinforcement speaker 250W/80hm RMS - 123dB SPL



Built-in passive crossover with soft-trip protection for the LF woofer and HF driver

> Speakon NL-4 IN and LINK OUT connectors



















**Processed Active Reinforcement Monitor** 400W + 100W RMS - 131dB SPL

- 2-way, bass-reflex, bi-amplified
- 400W RMS LF, 100W RMS HF, Class D power amplifiers
- 380 mm (15") custom woofer with 64 mm (2.5") voice coil
- 25 mm (1") B&C compression driver with 44 mm (1.7") voice coil
- Digital Signal Processor with 4 Equalization **Presets**
- 15 mm (0.59") birch plywood scratch resistant enclosure and internal bracing
- Frequency response from 57Hz to 20 kHz
- · Control Panel: balanced XLR/Jack input and XLR link out, Volume, EQ Presets, HP Filter, 3 status LED indicators
- 90° omnidirectional angle dispersion
- · Wall bracket mount flange plate, 35 mm (1 3/8") top-hat speaker stand socket, two integrated handles

## Verve 115M

**Sound Reinforcement Monitor** 500W/8ohm RMS - 129dB SPL

- Built-in passive crossover with soft-trip protection for the LF woofer and HF driver
- Speakon NL-4 IN and LINK OUT connectors











### Verve 112Ma

**Processed Active Reinforcement Monitor** 400W + 100W RMS - 129dB SPL

- · 2-way, bass-reflex, bi-amplified
- 400W RMS LF, 100W RMS HF, Class D power amplifiers
- 320 mm (12") custom woofer with 64 mm (2.5") voice coil
- 25 mm (1") B&C compression HF driver with 44 mm (1.7") voice coil
- Digital Signal Processor with 4 Equalization **Presets**
- 15 mm (0.59") birch plywood scratch resistant enclosure and internal bracing
- Frequency response from 65Hz to 20 kHz
- · Control Panel: balanced XLR/Jack input and XLR link out, Volume, EQ Presets, HP Filter, 3 status LED indicators
- 90° omnidirectional angle dispersion
- · Wall bracket mount flange plate, 35 mm (1 3/8") top-hat speaker stand socket, two integrated handles

## Verve 112M

**Sound Reinforcement Monitor** 300W/80hm RMS - 127.5dB SPL

- Built-in passive crossover with soft-trip protection for the LF woofer and HF driver
- Speakon NL-4 IN and LINK OUT connectors





















Model		Verve 212a	Verve 115a	Verve 112a	Verve 110a	Verve 108a	Verve 115Ma	Verve 112Ma
Configuration	way	2	2	2	2	2	2	2
Built-in amplifier cont. LF/HF	W RMS	350/80	350/80	350/80	350/80	350/80	350/80	350/80
Built-in amplifier max. LF/HF	W RMS	400/100	400/100	400/100	400/100	400/100	400/100	400/100
Built-in amplifier max. peak LF/HF	W	800/200	800/200	800/200	800/200	800/200	800/200	800/200
Frequency response	@-6dB	50Hz - 20KHz	45Hz - 20KHz	52Hz - 20KHz	60Hz - 20KHz	65Hz - 20KHz	57Hz - 20KHz	65Hz - 20KHz
Low frequency woofer	inch	2x12 - 2.5 coil	15 - 2.5 coil	12 - 2.5 coil	10 - 2 coil	8 - 2 coil	15 - 2.5 coil	12 - 2.5 coil
High frequency driver	inch	1.4 - 2.5 coil	1 - 1.4 coil	1 - 1.4 coil	1 - 1.4 coil	1 - 1.4 coil	1 - 1.7 coil	1 - 1.7 coil
Maximum SPL cont/peak	dB	127.5 / 133	125.5 / 130	124 / 130	122.5 / 128	121 / 128	125.5 / 131	124 / 129
Dispersion	HxV	70° x 50°	80° x 50°	80° x 50°	80° x 50°	80° x 50°	90°	90°
Input impedance	kOhm	22	22	22	22	22	22	22
Crossover frequency	kHz	1.3	1.6	1.6	1.8	2.2	1.5	1.6
AC Power requirements	VA	450	450	450	450	450	450	450
Input connectors		XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop	XLR with loop
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	394x1015x380 15.51x39.96x14.96	425x742x420 16.73x29.21x16.53	394x645x380 15.51x25.39x14.96	326x565x325 12.83x22.24x12.79	268x500x270 10.55x19.68x10.62	620x360x470 24.40x14.17x18.50	550x320x410 21.65x12.59x16.14
Net weight	Kg Lb	34.5 76.05	27.2 59.96	20.6 45.41	15.4 33.95	11.6 25.57	19.6 43.21	16.6 36.59
Transport dimensions(WxHxD)	mm inch	500x1135x500 19.68x44.68x19.68	530x860x530 20.86x33.85x20.86	500x765x500 19.68x30.11x19.68	430x685x430 16.92x26.96x16.92	330x620x330 12.99x24.40x12.99	530x740x530 20.86x29.13x20.86	670x430x500 26.37x16.92x19.68
Transport weight	Kg Lb	38.5 84.87	30.2 66.57	23.4 51.58	17.4 38.36	13.6 29.98	22.6 49.82	19.4 42.76

Model		Verve 212	Verve 115	Verve 112	Verve 110	Verve 108	Verve 115M	Verve 112M
Configuration	way	2	2	2	2	2	2	2
Recommended amplifier	W RMS	800	500	400	300	250	500	500
Long term power	W	400	250	200	150	125	250	250
Short term power IEC 268-5	W	1600	1000	800	600	500	1000	1000
Nominal impedance	Ohm	8	8	8	8	8	8	8
Frequency response	@-6dB	55Hz - 18KHz	50Hz - 18KHz	55Hz - 18KHz	60Hz - 18KHz	70Hz - 18KHz	60Hz - 18KHz	70Hz - 18KHz
Low frequency woofer	inch	2x12 - 2.5 coil	15 - 2.5 coil	12 - 2.5 coil	10 - 2 coil	8 - 2 coil	15 - 2.5 coil	12 - 2.5 coil
High frequency driver	inch	1.4 - 2.5 coil	1 - 1.4 coil	1 - 1.4 coil	1 - 1.4 coil	1 - 1.4 coil	1 - 1.7 coil	1 - 1.7 coil
Sensitivity (@1W/1m)	dB	101	99	98	97	95	99	98
Maximum SPL cont/peak (Bi-Amp)	dB	130/ 134	125 / 129	124 / 128	121 / 125	119 / 123	124 / 129	125 / 129
Dispersion	ΗxV	70° x 50°	80° x 50°	80° x 50°	80° x 50°	80° x 50°	90°	90°
Crossover frequency	kHz	1.4	1.6	1.8	2	2.2	1.6	2
Recommended HP filter		40hz - 24dboct	35hz - 24dboct	40hz - 24dboct	45hz - 24dboct	55hz - 24dboct	45hz - 24dboct	65hz - 24dboct
Input connectors		2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru
Net dimensions (WxHxD)	mm inch	394x1015x380 15.51x39.96x14.96	425x742x420 16.73x29.21x16.53	394x645x380 15.51x25.39x14.96	326x565x325 12.83x22.24x12.79	268x500x270 10.55x19.68x10.62	620x360x470 24.40x14.17x18.50	550 x 320 x410 21,65x12,59x16,14
Net weight	Kg Lb	34.5 76.05	27.2 59.96	20.6 45.41	15.4 33.95	11.6 25.57	19.6 43.21	16.6 36,59
Transport dimensions(WxHxD)	mm inch	500x1135x500 19.68x44.68x19.68	530x860x530 20.86x33.85x20.86	500x765x500 19.68x30.11x19.68	430x685x430 16.92x26.96x16.92	330x620x330 12.99x24.40x12.99	530x740x530 20.86x29.13x20.86	670 x 430 x 500 26,37x16,92x19,68
Transport weight	Kg Lb	38.5 84.87	30.2 66.57	23.4 51.58	17.4 38.36	13.6 29.98	22.6 49.82	19.4 42,76



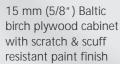


The **SUBLINE** series consists of 12Sa, 15Sa, 18Sa active and 18S passive subwoofer models, built in birch plywood and aimed to extend the low frequency response to a wide range of FBT speaker systems

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

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



M20 (20 mm) top mount speaker stand socket, two aluminum carrying handles

Provides additional low ◀ frequency reinforcement when used along with Verve, EvoMaxX, Jolly speakers









#### SUBLine 18Sa

**Processed Active Subwoofer** 1200W RMS - 137dB SPL

- · Bass-reflex design Subwoofer
- 460 mm (18") high excursion woofer with 75 mm (3") voice coil, custom made for FBT by B&C
- Frequency response from 33Hz 120Hz
- 1200W RMS Class D power amplifier with switch mode power supply
- Digital Signal Processor with 6 presets, 3 equalization with 2 LPF Crossover Settings, 6 step digital delay line
- Control Panel with Stereo XLR in/outs, Volume, EQ Presets, Delay, Phase Reversal Switch 0°-180°, 3 status LED indicators

#### SUBLine 18S

Sound Reinforcement Subwoofer 1200W RMS - 136dB SPL

 Neutrik Speakon NL4MD-V connectors IN & LINK OUT

> External digital processor required: FBT DLM26 Digital Loudspeaker Management















**Processed Active Subwoofer** 600W RMS - 135dB SPL

- · Compact band-pass design Subwoofer with high SPL and punch
- 380 mm (15") high excursion magnet woofer with 75 mm (3") voice coil, custom made
- Frequency response from 38Hz to 120Hz
- 600W RMS Class D power amplifier with switch mode power supply
- Digital Signal Processor with 4 presets, 2 equalization with 2 LPF Crossover Settings
- Control Panel with Stereo combo XLR/Jack in/ outs, Stereo XLR HP-filter outs, Volume, EQ Presets, Phase Reversal Switch 0°-180°, 3 status LED indicators
- Very Lightweight









#### SUBLine 12Sa

**Processed Active Subwoofer** 600W RMS - 129/133dB SPL

- · Compact band-pass design Subwoofer with high SPL and punch
- 320 mm (12") high excursion magnet woofer with 64 mm (2.5") voice coil, custom made
- Frequency response from 42Hz to 140Hz
- 600W RMS Class D power amplifier with switch mode power supply
- Digital Signal Processor with 4 presets, 2 equalization with 2 LPF Crossover Settings
- Control Panel with Stereo combo XLR/Jack in/outs, Stereo XLR HP-filter outs, Volume, EQ Presets, Phase Reversal Switch 0°-180°, 3 status LED indicators
- · Very Lightweight













Model		SUBLine 18Sa	SUBLine 15Sa	SUBLine 12Sa
Configuration	way	1	1	1
Built-in amplifier cont. LF/HF	W RMS	900	400	400
Built-in amplifier max. LF/HF	W RMS	1200	600	600
Built-in amplifier max. peak LF/HF	W	2400	1200	1200
Frequency response	@-6dB	33Hz - 140Hz	38Hz - 120Hz	42Hz - 140Hz
Low frequency woofer	inch	1x18 - 3 coil	1x15 - 3 coil	1x12 - 2.5 coil
High frequency driver	inch	-	-	-
Maximum SPL cont/peak	dB	133 / 137 half-space	131 / 135 half-space	129 / 133 half-space
Dispersion	НхV	omnidirectional	omnidirectional	omnidirectional
Input impedance	kOhm	22	22	22
Crossover frequency	kHz	80 or 120Hz	80 or 120Hz	90 or 140Hz
AC Power requirements	VA	800	450	450
Input connectors		stereo XLR with loop	stereo XLR with loop, HP out	stereo XLR with loop, HP out
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	510x629x650 20.07x24.76x25.59	480x560x595 18.91x22.06x23.44	425x510x520 16.73x20.07x20.47
Net weight	Kg / Lb	42 / 92.59	31.5 / 70	24 / 52.91
Transport dimensions(WxHxD)	mm inch	700x790x800 27.55x31.10x31.49	590x665x705 23.22x26.18x27.75	435x610x630 17.12x24.01x24.80
Transport weight	Kg / Lb	53 / 116.84	35 / 77	28 / 61.72

Model		SUBLine 18S
Configuration	way	1 reflex
Recommended amplifier	W RMS	1200
Long term power	W	600
Short term power IEC 268-5	W	2400
Nominal impedance	Ohm	4
Frequency response	@-6dB	33hz - 400hz
Low frequency woofer	inch	18 - 3 coil
High frequency driver	inch	-
Sensitivity (@1W/1m)	dB	98.5
Maximum SPL cont/peak (Bi-Amp)	dB	133 / 136 half-space
Dispersion	НхV	omnidirectional
Crossover frequency	kHz	external active
Recommended HP filter		28hz - 24dboct
Input connectors		2 x Speakon NL4 in & throu
Net dimensions (WxHxD)	mm inch	510x629x650 20.07x24.76x25.59
Net weight	Kg/Lb	39 / 85.98
Transport dimensions(WxHxD)	mm inch	700x790x800 27.55x31.10x31.49
Transport weight	Kg/Lb	50 / 110.23





# MaxX More! The new stage monitor

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 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 mid-high for a comfortable listening in near-field 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 polemount installations

















#### 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







Model		StageMaxX 12Ma
Configuration	way	2
Built-in amplifier cont. LF/HF	W RMS	350/80
Built-in amplifier max. LF/HF	W RMS	400/100
Built-in amplifier max. peak LF/HF	W	800/200
Frequency response	@-6dB	60Hz - 20KHz
Low frequency woofer	inch	12 - 2.5 coil
High frequency driver	inch	1 - 1.7 coil
Maximum SPL cont/peak	dB	124 / 130
Dispersion	НхV	90°
Input impedance	kOhm	22
Crossover frequency	kHz	1.8
AC Power requirements	VA	450
Input connectors		XLR with loop
Power cord	m / ft	5 / 16.4
Net dimensions (WxHxD)	mm inch	550x289x392 21.65x11.37x15.43
Net weight	Kg / Lb	13.6 / 29.98
Transport dimensions(WxHxD)	mm inch	670x430x500 26.37x16.92x19.68
Transport weight	Kg / Lb	16.4 / 36.15







Three models; two 2-way full-range enclosures in polypropylene, HiMaxX 40 (12" +1") and HiMaxX 60 (15"+1.4"), plus a compact 18" bandpass SUB in birch plywood (HiMaxX 100Sa). Compact and light weight, HiMaxX brilliantly solve all the most demanding needs for bands, musicians and professionals looking for powerful, versatile and very high quality loudspeaker enclosures. Ideal for live and sound reinforcement applications requiring ease of transport, they are also suited to fixed installations, thanks to the cabinets' design and optional accessories.

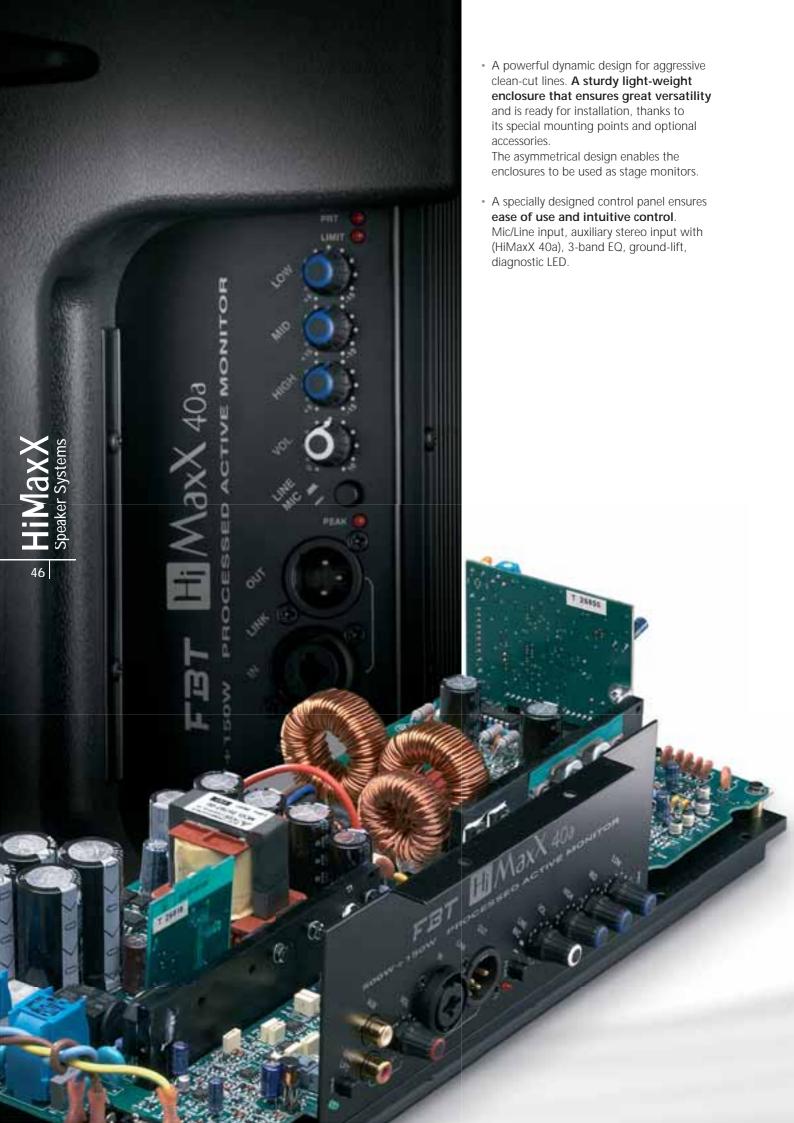




Amazing audio quality, thrilling performance, innovative design and extreme reliability



45





Loudspeaker components are engineered in collaboration with B&C. FBT studied and designed special chassis. A more efficient ventilation circuit with a consequent reduction of 2dB "power compression", a considerably stiffer cone to improve reliability and distortion and an even more powerful neodymium magnet to increase control and efficiency. The voice coil has a diameter of 75 mm (3") for higher power handling and reliability.

- **B&C compression driver** with a 25 mm (1") throat and 44 mm (1.7") coil (HiMaxX 40) for high power handling. Thanks to the use of a shorting copper cap, high frequencies are even more dynamic and crystal-clear.
- The development of the innovative amplifier is the result of years of research by the FBT R&D labs. It manages to combine the contrasting features of lightness, high power, efficiency and reliability, using the very latest technology. A switch mode power supply to reduce the weight and increase the power output velocity, a very high performance PWM amplifier for the low frequencies, to maximize the power fed out with minimum heat dissipation. A Class G amplifier for the high frequencies enables to achieve the audio quality of a Class A, with a much higher output.
- The silent preamplifier manufactured with SMD technology has the job of handling the equalization, 24dB/oct crossover, sophisticated protections, limiter and the commands of the control panel.
- The horn's profile has been designed to ensure greater directivity control and lower distortion. The dispersion angle is 90°H x 60°V.



BOX 100 Ceiling bracket balancing stand







supply for an excellent

2-way, bi-amplified in Bass- Reflex design

Switch mode power supply for an excellent ratio weight/power

Sturdy cabinet in polypropylene also designed for stage monitor use

Analog signal processor

Analog signal processor with limiter

4 x M10 suspension points, 35 mm ø (1.38") top-hat for speaker stand placement and wall bracket mount flange, 2 integrated carrying handles

90°H x 60°V constant directivity horn

Passive crossover filter featuring "soft-trip" circuitry to ensure full protection of LF woofe and HF driver

2 NL-4 Neutrik™
Speakon connectors protection of LF woofer



**Processed Active Speaker** 1100W + 250W RMS - 135dB SPL

• **B&C custom designed** 380 mm (15") neodymium woofer with 75 mm (3") voice

- B&C 36 mm (1.4") compression driver with 64 mm (2.5") voice coil
- 700W RMS PWM LF power amplifier
- 200W RMS Class G HF power amplifier
- · Control panel with:
  - XLR Input and XLR Link
  - Gain and Volume functions in a single potentiometer improving the dynamic range and input signal/noise ratio
  - 3-band EQ (Bass, Mid, High)
  - **Ground-lift**
  - Diagnostic LED





#### HiMaxX 60

**Sound Reinforcement Speaker** 700W / 80hm - 132dB SPL







Processed Active Speaker 1000W + 250W RMS - 133dB SPL

- B&C custom designed 320 mm (12") neodymium woofer with 75 mm (3") voice coil
- B&C 25 mm (1") compression driver with 44 mm (1.7") voice coil
- 500W RMS PWM LF power amplifier
- 150W RMS Class G HF power amplifier
- · Control panel with:
  - Gain and Volume functions in a single potentiometer improving the dynamic range and input signal/noise ratio
  - Combo XLR/jack input XLR link
  - Mic/Line selection
  - **Independent RCA input** channel with separate volume control to connect external devices such as MP3, CD, PC players
  - 3-band EQ (Bass, Mid, High)
  - Ground-Lift
  - Diagnostic LED
- Enclosure suitable for stacking

#### HiMaxX 100Sa

Processed Active Subwoofer 1200W RMS - 139dB SPL

- · Bandpass subwoofer design
- 18" (460 mm) custom neodymium B&C woofer with a 3" (75 mm) voice coil
- Built-in 1200W RMS PWM amplifier
- Switch mode power supply
- Analogue signal processor with limiter
  - Control panel with:
  - XLR/input and XLR stereo outputs with Hi-Pass, filter for connecting the satellites
  - Volume
  - Ground-Lift
  - 0°-180° phase inverter switch
  - Limiter LED
  - 18 mm (0.7") birch plywood enclosure
  - The special "bandpass" acoustic loading increases efficiency and maximum SPL
- 8 x M10 suspension points, stand socket and two integrated wooden handles
- Optional 4 swivel-mount casters 80 mm ø (3.15") on request

#### HiMaxX 40

Sound Reinforcement Speaker 500W / 80hm - 131dB SPL











Model		HiMaxX 60a	HiMaxX 40a	HiMaxX 100Sa
Configuration	way	2	2	Band-Pass
Built-in amplifier cont. LF/HF	W RMS	700/200	500/150	900
Built-in amplifier max. LF/HF	W RMS	1100/250	1000/250	1200
Built-in amplifier max. peak LF/HF	W	2200/500	1600/500	2400
Frequency response	@-6dB	40Hz - 20kHz	45Hz - 20kHz	38 - 120Hz
Low frequency woofer	inch	1x15 - 3 coil	1x12 - 3 coil	1x18 - 3 coil
High frequency driver	inch	1.4 - 2.5 coil	1 - 1.7 coil	-
Sensitivity (@1W/1m)	dB	99	99	102
Maximum SPL cont./peak	dB	129/135	127/133	135/139
Dispersion	НхV	90° x 60°	90° x 60°	omnidirectional
Input impedance	kohm	22	22	22
Crossover frequency	kHz	1.2	1.6	active 120
Input connectors		XLR with loop	XLR/jack with loop RCA aux	stereo XLR with loop
Power cord	m / ft	5 / 16.4	5 / 16.4	5 / 16.4
Net dimensions (WxHxD)	mm inch	482x757x427 19x29.8x16.8	407x634x370 16x24.9x14.5	530x605x655 21x23.8x25.8
Net weight	Kg Lb	28.3 62.4	17.9 39.4	43 94.8
Transport dimensions (WxHxD)	mm inch	520x867x600 20.4x34.1x23.6	495x720x470 19.5x28.3x18.5	660x735x785 26x29x31
Transport weight	Kg Lb	30.3 66.8	20.5 45.2	47 103.6

Model		HiMaxX 60	HiMaxX 40
Configuration	way	2	2
Recommended amplifier	W RMS	700	500
Long term power	W	350	250
Short term power (IEC 268-5)	W	1400	1000
Nominal impedance	ohm	8	8
Frequency response	@-6dB	40Hz - 20kHz	50Hz - 20kHz
Low frequency woofer	inch	1x15 - 3 coil	1x12 - 3 coil
High frequency driver	inch	1.4 - 2.5 coil	1 - 1.7coil
Sensitivity (@1W/1m)	dB	99	99
Maximum SPL cont./peak	dB	129/132	127/131
Dispersion	HxV	90° x 60°	90° x 60°
Crossover frequency	kHz	1.3	1.6
Recommended HP filter		35Hz - 24dBoct	45Hz - 24dBoct
Recommended external filter		-	-
nput connectors		2 x Speakon	2 x Speakon
Net dimensions (WxHxD)	mm inch	482x757x427 19x29.8x16.8	407x634x370 16x24.9x14.5
Net weight	Kg Lb	26 57.3	16 35.2
Transport dimensions (WxHxD)	mm inch	520x867x600 20.4x34.1x23.6	495x720x470 19.5x28.3x18.5
Transport weight	Kg Lb	28.5 62.8	18.5 40.8

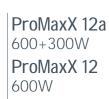




# The next MaxX generation

**ProMaxX** Speaker Series maintains some of the winning attributes of the FBTMaxX Series, incorporates the latest technological achievements designed by FBT's R&D team, and guarantees quality of construction, utmost reliability, extreme portability and unbelievable sound fidelity.





ProMaxX 10a 600+300W ProMaxX 10 400W

ProMaxX 15Sa









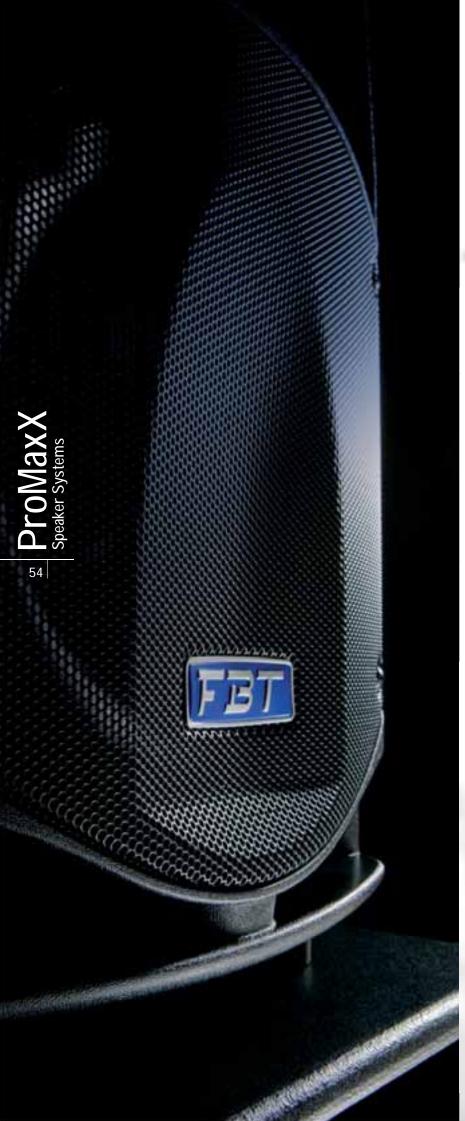
ProMaxX Speaker Systems

Powerful and Versatile - Lightweight - Increased SPL - DSP with 8 presets

The **ProMaxX** Series 2-way speakers feature a sophisticated cabinet design that increases low frequency SPL and virtually eliminates undesired resonance. A custom FBT horn design provides improved projection, accuracy and uniform dispersion of the mid high and high frequencies. Two ergonomic carrying handles are integrated into the cabinets for easier placement on speaker stands and when transporting. An innovative electronic DSP circuitry and FBT's latest technological breakthroughs in the development Class D amplification circuitry, "Raises the Bar to New Heights" for lightweight powered speaker systems. Combining this with their ease of use and the versatility for many portable or installed sound reinforcement applications, the ProMaxX Speakers provide Musicians, DJ's, Audio / Video Contractors, Sound Reinforcement and Audio Rental Companies with advanced systems of Pro audio reproduction.



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- Sturdy, gas-injected polypropylene molded enclosures, engineered to contain undesired resonance
- B&C neodymium magnet loudspeakers custom made for FBT
- Class D, 1200W + 600W RMS power amplifiers with high efficiency switch mode power supplies
- Proprietary filter algorithms, dynamic equalization at low frequencies, and advanced energy control allow high SPL while always granting reliable and distortion free audio reproduction
- Original horn profile provides extremely accurate and uniform dispersion for the entire frequency radiation angle, not just for the horizontal and vertical plane
- An increase in total SPL thanks to our enclosure design, engineered with 4 bassreflex ports to increase the size of the radiation area, This further enhances low frequency efficiency and performance without a substantial increase in the external dimensions of the cabinets



FBT's **Digital Signal Processor with 8 factory equalization** presets provides simple and efficient EQ adjustment. Extensive tests in our anechoic chamber went into the development of these presets to optimize the ProMaxX speakers for use for numerous applications. 8 speakers in one!

The presets include:

- **ORIGINAL**: is the typical FBT sound for general application use
- FLOOR: the ProMaxX immediately becomes an ideal stage monitor
- VOCAL: provides increased intelligibility and presence for vocals and speech
- WARM: gives a full bodied response to the low-mid frequencies and less aggressive on the highs
- HI-END SYSTEM: make the response similar to speakers used for touring sound
- FARFIELD: optimize the response for listening distance over 15-20 meters, (48-65-ft,)
- NEARFIELD: optimized response for listening distance of up to 8 mt (25ft,)
- **LOUDNESS**: low frequency emphasis / presense at lower volumes for recorded music playback or disco

Our new unique **14" LF neodymium magnet woofer** with a 3" voice coil is featured in the ProMaxX 14a, This 14" woofer is housed inside the same enclosure as the ProMaxX 12a, and delivers the performance of a 15" woofer, but at the size and weight of a 12".



Two ergonomic carrying handles, **M10 fly points**, top-hat speaker stand socket.

2 - way enclosures have 3 monitor tapers for use as a floor wedge at 12°, 45°, 55°, providing extraordinary versatility **for monitor application.** 





2-way, bi-amplified, bass reflex design cabinet

Bi-amped: 600W RM LF, 300W RMS HF, Cl D power amplifiers v switch mode power supplies

Digital signal process Bi-amped: 600W RMS LF, 300W RMS HF, Class D power amplifiers with

Digital signal processor with 8 equalization presets

Control Panel: features XLR input and link out, Volume, EQ Presets, HP Filter, Ground-Lift Switch

2 x M10 suspension points, 35 mm (1.3/8") top-hat speaker stand socket, wall bracket mount flange plate

90°H x 60°V constant directivity horn

Front of House or Stage Floor Monitor: with 12°, 40° and 55° monitoring angles

Built-in passive crossover with sprotection for the woofer and HF
Speakon NL-4 II
LINK OUT connections crossover with soft-trip protection for the LF woofer and HF driver

Speakon NL-4 IN and LINK OUT connectors



#### ProMaxX 14a

**Processed Active Speaker** 600W + 300W - 135.5dB SPL

- 355 mm (14") LF neodymium magnet woofer with 76 mm (3") voice coil, custom made for FBT by B&C
- 36 mm (1.4") exit throat HF driver with 64 mm (2.5") voice coil
- Frequency response from 45Hz to 20 kHz
- ProMaxX 14a uses the same size gas-injected polypropylene molded enclosure as the ProMaxX 12a, but features a New 14" LF Woofer for lower frequency response
- Extremely light, only 17.4 Kg / 38.3 Lb

#### ProMaxX 14

Passive reinforcement speaker 700W / 80hm - 132dB SPL



#### ProMaxX 12a

**Processed Active Speaker** 600W + 300W - 133dB SPL

- 320 mm (12") LF neodymium magnet woofer with 76 mm (3") voice coil, custom made for FBT by B&C
- 25 mm (1") exit throat B&C HF neodymium magnet compression driver
- Frequency response from 48Hz to 20 kHz
- Sturdy gas-injected polypropylene molded enclosure with 2 integrated handles
- Extremely light, only 15.8 Kg / 34.8 Lb

#### ProMaxX 12

Passive reinforcement speaker 600W / 80hm - 130dB SPL































**Processed Active Speaker** 600W + 300W - 131dB SPL

- 250 mm (10") LF neodymium magnet woofer with 64 mm (2.5") voice coil, custom made for FBT by B&C
- 25 mm (1") throat exit B&C HF neodymium magnet compression driver
- Frequency response from 58Hz to 20 kHz
- Sturdy gas-injected polypropylene molded enclosure with one integrated handle
- Extremely light, only 11.3 Kg / 24.9 Lb

#### ProMaxX 10

Passive reinforcement speaker 400W / 80hm - 127dB SPL

#### ProMaxX 15Sa

**Processed Active Subwoofer** 1200W - 136dB SPL

- Compact band-pass design subwoofer with high SPL and punch
- 380 mm (15") high excursion woofer with 76 mm (3") voice coil, custom made for FBT by B&C
- Frequency response from 38Hz to 120Hz
- 1200W RMS Class D power amplifier with switch mode power supply
- Digital Signal Processor with 8 presets, 2 equalization with 4 LPF different frequency
- Control Panel with XLR input and link out, Volume, EQ Presets, Delay, Phase Switch 0°-180°, Ground-Lift Switch
- 15 mm (5/8") **Baltic birch plywood cabinet** with scratch & textured resistant paint finish
- M20 (20 mm) top mount speaker stand socket, two aluminum carrying handles
- Provides additional low frequency reinforcement when used along with the ProMaxX speakers













Model		ProMaxX 14a	ProMaxX 12a	ProMaxX 10a	ProMaxX 15Sa
Configuration	way	2	2	2	1
Built-in amplifier cont. LF/HF	W RMS	400/200	400/200	400/200	800
Built-in amplifier max. LF/HF	W RMS	600/300	600/300	600/300	1200
Built-in amplifier max. peak LF/HF	W	1200/600	1200/600	1200/600	2400
Frequency response	@-6dB	45Hz - 20KHz	48Hz - 20KHz	58Hz - 20KHz	38Hz - 120Hz
Low frequency woofer	inch	14 - 3 coil neodymium	12 - 3 coil neodymium	10 - 2,5 coil neodymium	1x15 - 3 coil neodymium
High frequency driver	inch	1,4 - 2,5 coil	1 - 1,4 coil neodymium	1 - 1,4 coil neodymium	-
Maximum SPL cont/peak	dB	127,5 / 135,5	126 / 133	123 / 127	132 / 136 half-space
Dispersion	НхV	90° x 60°	90° x 60°	90° x 60°	omnidirectional
Input impedance	kOhm	22	22	22	22
Crossover frequency	kHz	1,3	1,6	1,8	preset dependant
AC Power requirements	VA	640	640	640	640
Input connectors		XLR with loop	XLR with loop	XLR with loop	XLR with loop
Power cord	m/ft	5/16,4	5/16,4	5/16,4	5/16,4
Net dimensions (WxHxD)	mm inch	402x644x345 15,8x25,4x13,6	402x644x345 15,8x25,4x13,6	320x550x275 12,6x21,6x10,8	507x585x605 20x23x23,82
Net weight	kg/lb	17,4 / 38.3	15,8 / 34,8	11,3 / 24,9	31 / 68
Transport dimensions(WxHxD)	mm inch	500x745x440 19,7x29,3x17,3	500x745x440 19,7x29,3x17,3	400x630x360 15,7x24,8x14,2	615x670x715 24,2x26,4x28,2
Transport weight	kg/lb	20.4 / 45	18,8 / 41,4	13,8 / 30,4	35 / 77

Model		ProMaxX 14	ProMaxX 12	ProMaxX 10
Configuration	way	2	2	2
Recommended amplifier	W RMS	700	600	400
Long term power	W	350	300	200
Short term power IEC 268-5	W	1400	1200	800
Nominal impedance	Ohm	8	8	8
Frequency response	@-6dB	50Hz - 18KHz	55Hz - 18KHz	60Hz - 18KHz
Low frequency woofer	inch	1x14 - 3 coil - neodymium	1x12 - 3 coil - neodymium	1x10 - 2,5 coil - neodymium
High frequency driver	inch	1 x 1,4 - 2,5 coil	1 - 1,4 coil - neodymium	1 - 1,4 coil - neodymium
Sensitivity (@1W/1m)	dB	100	99	97
Maximum SPL cont/peak	dB	128 / 132	126 / 130	123 / 127
Dispersion	НхV	90° x 60°	90° x 60°	90° x 60°
Crossover frequency	kHz	1,3	1,6	1,8
Recommended HP filter		40hz - 24dboct	45hz - 24dboct	50hz - 24dboct
Input connectors		2 x Speakon NL4 in & throu	2 x Speakon NL4 in & throu	2 x Speakon NL4 in & throu
Net dimensions (WxHxD)	mm inch	402x644x345 15,8x25,4x13,6	402x644x345 15,8x25,4x13,6	320x550x275 12,6x21,6x10,8
Net weight	kg/lb	16 / 35.2	14,4 / 38,7	9,9 / 21,8
Transport dimensions (WxHxD)	mm inch	500x745x440 19,7x29,3x17,3	500x745x440 19,7x29,3x17,3	400x630x360 15,7x24,8x14,2
Transport weight	kg/lb	19 / 41.8	17,4 / 38,3	12,4 / 27,3





# The Second generation of an International Best Seller

Evolving from the FBT EvoMaxX Series of loudspeakers, FBT Evo²MaxX speakers feature totally new Digital Sound Processing resulting in improved sound quality and SPL, especially in bass reproduction at high volume. The sound is more relaxing and natural and the four new DSP presets provide quick dynamic equalization and protection contours for any acoustically challenging venue. Other exciting features are high efficiency and excursion woofers, powerful Class D amplifiers with an extremely low noise floor.

Alongside these key performance improvements, FBT has been inspired to develop the Evo²MaxX Series by one very important goal – offering the customer more value for money. Evo²MaxX lightweight yet sturdy polypropylene cabinets feature a monitor taper designed to ensure that they perform with excellence no matter whether they are used at front of house for a main sound system, as stage floor monitors or within permanent installations.



Additional options are also available for extending low frequency response in the shape of the 15" subwoofer Evo<sup>2</sup>MaxX 9Sa or the SUBLine 12Sa, 15Sa and 18Sa, all of which boast birch plywood enclosures with 12", 15" band-pass and 18" reflex designs respectively.



- Sturdy, gas-injected polypropylene molded enclosures, engineered to contain undesired resonance
- High efficiency loudspeakers custom made for FBT with a weather resistant coating, allowing use in covered outdoor applications
- **B&C HF** compression drivers
- Latest Class D, 400W LF and 100W HF power amplifiers
   with high efficiency switch mode power supplies.
   These amplifiers boast an extremely lightweight design
   with passively cooled circuitry, meaning no noisy fans!
- New digital signal processor with dynamic equalizations and sophisticated dynamic limiters

- four improve sound quality and SPL granting reliable and distortion-free audio reproduction
- New 4 DSP presets for improved versatility and ease of use
- Premium sound quality as results of extensive listening test
- **High SPL** thanks to FBT's new digital limiter algorithms and high power class D amplifier
- Ergonomic carrying handles, M10 fly points, a top-hat speaker stand socket and a stage monitor taper - all included to ensure superb versatility for live sound events and permanent installations.



More powerful Class D amplifiers - Extra lightweight polypropylene cabinets - Higher SPL for optimal audio reproduction New DSP with four EQ presets - More value for the money



Perhaps best of all the fact that Evo<sup>2</sup>MaxX owners can enjoy four loudspeakers in one thanks to FBT's **New four factory DSP presets**. The result of hundreds of hours of development time in FBT's dedicated R&D facility, the presets optimize the Evo<sup>2</sup>MaxX range to accommodate a vast range of applications.

The presets include:

**ORIGINAL**: Corresponding FBT benchmark sound for use in general applications

**FLOOR/VOCAL**: The Evo<sup>2</sup>MaxX immediately becomes an ideal stage monitor. Also suited for high clarity and intelligibility vocal reproduction.

**BOOST/LOUNGE**: Providing loudness contour with increased bass response for a relaxing and very enjoyable listening, especially at low and medium volume

**CLUB/DJ**: Providing all the punch and full-bodied response required by DJ users, suitable for high volume DISCO and PARTY applications

2-way, bi-amplified, bass reflex design cabinet

Biamped: 400w RMS 100w RMS HF, Class power amplifiers with switch mode power supplies

Digital Signal Processor with 4 Equalization Preset Sturdy gas-injected Biamped: 400w RMS LF, 100w RMS HF, Class D power amplifiers with

# **Equalization Presets**

Sturdy gas-injected polypropylene molded enclosure with two integrated handles and Stage Floor Monitor taper

#### 25 mm (1") exit throat **B&C HF compression** driver

Control Panel: features balanced XLR/Jack input and XLR link out, Volume, EQ Presets, HP Filter, 3 status LED indicators,

90°H x 60°V Constant Directivity Horn

Enclosure suitable for stacking

Built-in passive crossover with s protection for the woofer and HF
Speakon NL-4 If LINK OUT connections of the protection for the woofer and HF
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Speakon NL-4 If LINK OUT connections of the protection for the pro protection for the LF woofer and HF driver Speakon NL-4 IN and

crossover with soft-trip













#### Evo<sup>2</sup>MaxX 6a

**Processed Active Speaker** 400W + 100W RMS - 130dB SPL

- 380 mm (15") LF woofer with 64 mm (2.5") voice coil
- Frequency response from 42Hz to 20 kHz
- 4 x M10 suspension points, 35 mm (13/8") top-hat speaker stand socket, wall bracket mount flange plate
- Extremely light, only 24.4 Kg / 53.8 Lb



Passive Reinforcement Speaker 400W/8ohm - 130dB SPL













#### Evo<sup>2</sup>MaxX 4a

**Processed Active Speaker** 400W + 100W RMS - 130dB SPL

- 320 mm (12") LF woofer with 64 mm (2.5") voice coil
- Frequency response from 50Hz to 20 kHz
- 4 x M10 suspension points, 35 mm (1 3/8") top-hat speaker stand socket, wall bracket mount flange plate
- Extremely light, only 15.6 Kg / 34.4 Lb



#### Evo<sup>2</sup>MaxX 4

Passive Reinforcement Speaker 300W/8ohm - 128dB SPL



















#### Evo<sup>2</sup>MaxX 2a

**Processed Active Speaker** 400W + 100W RMS - 128dB SPL

- 250 mm (10") LF woofer with 50 mm (2") voice coil
- Frequency response from 58Hz to 20 kHz
- 2 x **M10** suspension points, 35 mm (1 3/8") top-hat speaker stand socket, wall bracket mount flange plate
- Extremely light, only 12 Kg / 26.5 Lb

#### Evo<sup>2</sup>MaxX 2

**Passive Reinforcement Speaker** 250W/8ohm - 125dB SPL









#### Evo<sup>2</sup>MaxX 9Sa

**Processed Active Subwoofer** 600W RMS - 132dB SPL

- Compact bass-reflex design Subwoofer
- 380 mm (15") high excursion woofer with 75 mm (3") voice coil, custom made for FBT
- Frequency response from 38Hz to 120Hz
- 600W RMS Class D power amplifier with switch mode power supply
- Digital Signal Processor with 4 presets, 2 equalization with 2 LPF Crossover Settings
- Control Panel with balanced Stereo combo XLR/Jack in/outs, Stereo XLR HP-filter outs, Volume, EQ Presets, Phase Reversal Switch 0°-180°, 3 status LED indicators
- Lightweight cabinet enclosure with internal wooden reinforcements
- M20 (20 mm) top mount speaker stand socket, two integrated carrying handles
- Provides additional low frequency reinforcement when used along with 2 - way Evo<sup>2</sup>MaxX speakers
- Extremely lightweight only 21.7 Kg (48.4 Lb)

















Model		Evo <sup>2</sup> MaxX 6a	Evo <sup>2</sup> MaxX 4a	Evo <sup>2</sup> MaxX 2a	Evo <sup>2</sup> MaxX 9Sa
Configuration	way	2	2	2	1
Built-in amplifier cont. LF/HF	W RMS	350/80	350/80	350/80	400
Built-in amplifier max. LF/HF	W RMS	400/100	400/100	400/100	600
Built-in amplifier max. peak LF/HF	W	800/200	800/200	800/200	1200
Frequency response	@-6dB	42Hz - 20KHz	50Hz - 20KHz	58Hz - 20KHz	40Hz - 120Hz
Low frequency woofer	inch	15 - 2.5 coil	12 - 2.5 coil	10 - 2 coil	1x15 - 3 coil
High frequency driver	inch	1 - 1.7 coil	1 - 1.4 coil	1 - 1.4 coil	-
Maximum SPL cont/peak	dB	126 / 130	124 / 130	122.5 / 128	128 / 132 half-space
Dispersion	HxV	90° x 60°	90° x 60°	90° x 60°	omnidirectional
Input impedance	kOhm	22	22	22	22
Crossover frequency	kHz	1.6	1.6	1.8	preset dependant
AC Power requirements	VA	450	450	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	482x757x399 19x29.8x15.7	407x634x330 16x25x13	352x550x307 13.9x21.6x12.1	496x648x485 19.5x25.5x19.1
Net weight	Kg / Lb	24.4 / 53.8	15.6 / 34.4	11.2 / 24.7	25.7 / 56.6
Transport dimensions (WxHxD)	mm inch	595x878x515 23.4x34.6x20.3	510x704x410 20.1x29.1x16.1	435x630x395 17.1x24.8x15.5	595x760x575 23.4x29.9x22.6
Transport weight	Kg / Lb	28.7 / 63.2	18 / 39.6	13.8 / 30.4	30.9 / 68.1

Model		Evo <sup>2</sup> MaxX 6	Evo <sup>2</sup> MaxX 4	Evo <sup>2</sup> MaxX 2
Configuration	way	2	2	2
Recommended amplifier	W RMS	400	300	250
Long term power	W	200	150	125
Short term power IEC 268-5	W	800	600	500
Nominal impedance	Ohm	8	8	8
Frequency response	@-6dB	48Hz - 18kHz	55Hz - 18kHz	60Hz - 18kHz
Low frequency woofer	inch	1x15 - 2.5 coil	1x12 - 2.5 coil	1x10 - 2 coil
High frequency driver	inch	1 x 1 - 1.7 coil	1 - 1.4 coil	1 - 1.4 coil
Sensitivity (@1W/1m)	dB	99	98	97
Maximum SPL cont/peak (Bi-Amp)	dB	126 / 130	124 / 128	121 / 125
Dispersion	HxV	90° x 60°	90° x 60°	90° x 60°
Crossover frequency	kHz	1.3	1.6	1.8
Recommended HP filter		40Hz - 24dboct	45Hz - 24dboct	50Hz - 24dboct
Input connectors		2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru	2 x Speakon NL4 in & thru
Net dimensions (WxHxD)	mm inch	482x757x399 19x29.8x15.7	407x634x330 16x25x13	352x550x307 13.9x21.6x12.1
Net weight	Kg / Lb	23.9 / 52.7	16.1 / 35.4	11.8 /26
Transport dimensions(WxHxD)	mm inch	595x878x515 23.4x34.6x20.3	510x704x410 20.1x29.1x16.1	435x630x395 17.1x24.8x15.5
Transport weight	Kg / Lb	28.2 / 62.2	18.5 / 40.7	14.4 / 31.7



## New J series More technology for improved performance and quality value for money

The **new J series** is a technologically advanced range of products that improves on the performance of the previous Jolly line.

The new **J series** is a competitive, value for money range of speakers.

The range is based on the development of three new high efficiency class-D amplifiers with power specifications of 350 + 100W for the **J 15A**, **J 12A** and **DJ 15A**, 200 + 50W for the **J 8A** and 80 + 40W for the **J 5A**.

These amplifiers have been designed 'from the ground up' in FBT's R&D laboratories.

The largest amplifier model that equips the **J 15A**, **J 12A** and **DJ 15A** has a switch mode power supply as well as a digital signal processor with 4 pre-sets.

The J 8A and J 5A amplifiers have toroidal

transformer power supplies. The **J 8A** has a digital signal processor with 2 pre-sets, whilst the **J 5A** has analog signal processing.

The speakers have been completely redesigned, introducing the technological developments of recent years to achieve a far superior efficiency and linearity.

Following from the new J series, FBT bring you the **DJ 15A**, designed with today's modern DJ in mind. The **DJ 15A** has invaluable features allowing quality audio playback using our revolutionary DSP technology. This includes 4 presets enabling the DJ to change the sound of their music to suit the environment they play within.

These DSP presets will allow the DJs audience to enjoy improved sound quality and SPL, especially in

A multipurpose performer: J speakers are versatile and easy to use in applications like Band PA, personal monitor, stage performance, theatres and halls, clubs, gyms, bars and more.





S/J8
Adjustable wall mount stand



**S/J5**Adjustable wall mount stand

bass reproduction at high volume.

The **DJ 15A** also has another useful feature for DJs, including a two channel input mixer allowing the DJ to plug a music source and microphone direct into the speaker, giving separate control over volume for both devices. You can also daisy chain these speaker together if required. Ideal for many application of today's modern DJ.







J<sub>5</sub>A 80+40W J 5 W08 J<sub>5</sub>T 50W





MS 30BK

floor stand





A comprehensive line to fulfill all professional audio needs



**BOX 112** Horizontal wall mounting bracket



S/J8U Wall mounting bracket



S/J5U Wall mounting bracket







2-way bi-amplified system in Bass-Reflex2way bi-amplified system in Bass-Reflex

> Polypropylene enclosure with integrated handle except J 5A/5

2 x M10 anchoring points (15A, 12A, DJ 15A), 2 x M6 suspension points (8A, 5A)

25mm (1") HF custom compression driver (15A, 12A, 8A, DJ 15A)

90°H x 60°V constant directivity horn (15A, 12A, 8A, DJ 15A)

Internal passive crossover filter with "soft-trip" protection circuits on woofer and compression driver

Linear frequency response over the entire dispersion angle













#### J 15A

**Processed Active Monitor** 350W+ 100W RMS - 129dB SPL

- 380 mm (15") custom woofer with improved efficiency and linearity
- 350Wrms class D amplifier for LF and 100Wrms for HF.
- High efficiency switch mode power supply
- · On-board Digital Signal processing with dynamic equalizations and protections for high SPL and high reliability.
- 4 DSP preset for maximum acoustical flexibility

### J 12A

**Processed Active Monitor** 250W + 50W RMS - 126dB SPL

- 320 mm (12") custom woofer with improved efficiency and linearity
- 350Wrms class D amplifier for LF and 100Wrms for HF.
- · High efficiency switch mode power supply
- On-board Digital Signal processing with dynamic equalizations and protections for high SPL and high reliability.
- 4 DSP preset for maximum acoustical flexibility

#### J 15

#### Sound Reinforcement Monitor 300W - 127dB SPL

 NL-4 Neutrik<sup>™</sup> Speakon input and link connectors





**Processed Active Monitor** 350W+ 100W RMS - 129dB SPL

- Same woofer, amplifier, power supply and On-Board Digital Signal processing as J 15A
- 4 DSP preset specially designed for DJ users
- Two channels input mixer with stereo/mono OUT
- Input panel with XLR/jack input and XLR Link, Mic/Line switch, Level, HP filter, 4 Preset Switch, Stereo RCA input, level, XLR OUT for dasychaining with Stereo/Mono switch selector

#### J 12

#### **Sound Reinforcement Monitor** 300W - 126dB SPL

 NL-4 Neutrik<sup>™</sup> Speakon input and link connectors





















#### J8A

#### **Processed Active Monitor** 200W+ 50W RMS - 124dB SPL

- 200 mm (8") custom woofer with improved efficiency and linearity
- 200Wrms class D amplifier for LF and 50Wrms
- Low noise toroidal transformer power supply
- · On-board Digital Signal processing with dynamic equalizations and protections for high SPL and high reliability.
- 2 DSP preset for maximum acoustical flexibility
- Available in white colour J 8AW

#### J 8

#### **Sound Reinforcement Monitor** 160W - 121.5dB SPL

- NL-4 Neutrik<sup>™</sup> Speakon input and link connectors
- Available in white colour J 8W











#### J<sub>5</sub>A

#### **Processed Active Monitor** 80W+ 40W RMS - 117dB SPL

- 130 mm (5") custom woofer with improved efficiency and linearity
- 25 mm (1") neodymium silk dome tweeter with soft compression and phase plug
- 80Wrms class D amplifier for LF and 40Wrms
- Low noise toroidal transformer power supply
- On-board analog signal processing with limiter for high SPL and high reliability
- Available in white colour J 5AW

#### **Sound Reinforcement Monitor** 80W - 117dB SPL

- · Input panel with jack and terminal connector for bare wires
- · Available in white color J 5W

#### **Sound Reinforcement Monitor** 50W - 114dB SPL

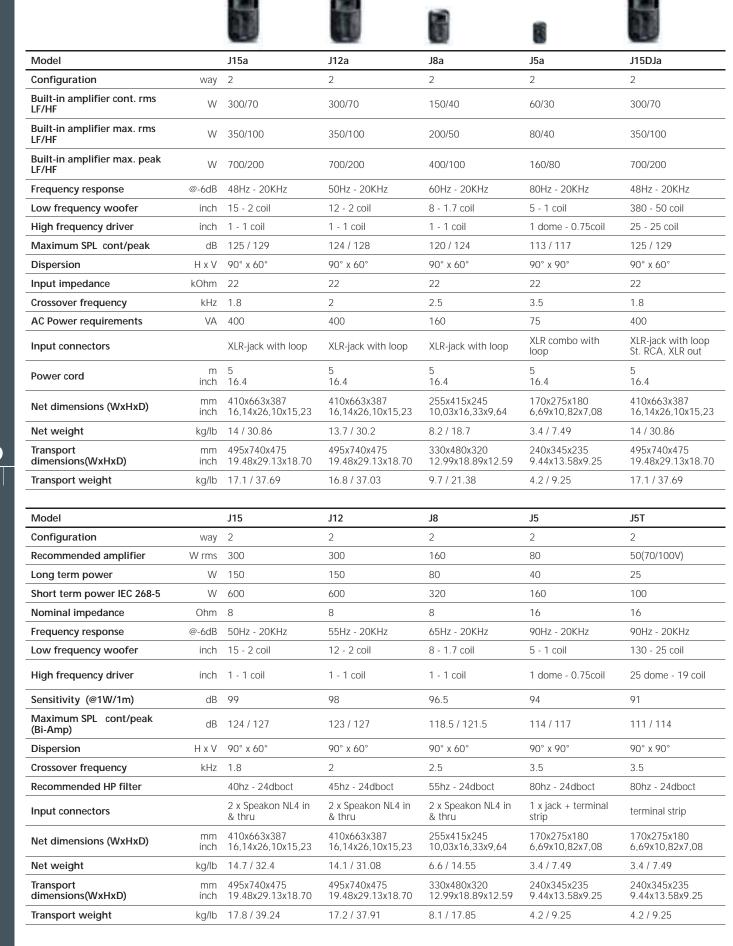
- 4 position volume selector: 3W 12,5W -25W - 50W / 100V
- Input panel with terminal connector for bare
- Also available in white colour J 5TW



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Mod	let			AMICO 10 USB
		Configuration		3 WAY / SUB+2SAT
		Internal Amplifiers	W RMS	500 + 2x150
		MIXER	channels	2mono+4stereo
		Quantity and type		2 x XLR F
		Impedance	kohm	2.2
	MICRO	Max input signal	dBu	0
S	≅	Max gain	dB	75
MONO CHANNELS		Equivalent input noise	dB	-128
Ž		CMRR (@ main out, gain 75dB)	dB	-80
£		Quantity and type		2 x JACK balanced
9	LINE	Impedance	kohm	33
Ō	Ξ	Max input signal	dBu	30
_		Max gain (@ main out)	dB	40
	ш	High Shelving (@ 12kHz)	dB	±15
	TONE	Medium Peaking (@ 2.5kHz)	dB	±12
	_	Low Shelving (@ 80Hz)	dB	±15
		Quantity and type		4 x XLR F
	_	Impedance	kohm	22
	MICRO	Max input signal	dBu	0
S	M	Max gain	dB	75
STEREO CHANNELS		Equivalent input noise	dB	-128
AN		CMRR (@ main out, gain 75dB)	dB	-80
끙		Quantity and type		8 x JACK balanced
8	ENE	Impedance	kohm	22
Ħ	Ξ	Max input signal	dBu	30
S		Max gain (@ main out )	dB	18
	ш	High Shelving (@ 12kHz)	dB	±15
	TONE	Medium Peaking (@ 2.5kHz)	dB	±12
	_	Low Shelving (@ 80Hz)	dB	±15
		Impedance	ohms	600
JTS		Mx output (Monitor, Eff, Tape In)	dBu	22
OUTPUTS		Distortion + Noise @ 16	dBu	0.025%
0		Signal/Noise ratio	dB	96
		Frequency response (@ 0 / -1dB)		20Hz-20kHz
BUILTIN		Sample frequency	kHz	48
	:	Frequency response		20Hz-20kHz

	SUB / COMBO		
	Configuration	Way	1
	Internal amplifier	W RMS	500WSUB+2x150WSAT
	Frequency response	@-6dB	40Hz-120Hz
	Sensitivity (@1W, 1m)	dB	97
	Maximum SPL (cont-peak)	dB	124/130
	Dispersion	OxV	omnidirectional
	Low frequency woofer	inch	1x15
	High frequency driver	inch	-
	SAT output connectors		2 x SPEAKON
	SAT		2
	Internal amplifier / Recommended	W RMS	150
	Impedance	ohms	4
	Frequency response	-6dB	90Hz-20kHz
	Sensitivity (@1W, 1m)	dB	93.5
	Maximum SPL (cont-peak)	dB	115/125
	Dispersion	OxV	90° x 60°
	Low frequency woofer	inch	1x6.5
	High frequency driver	inch	1x1
	Input connectors		1 x SPEAKON
	Power supply cable	m / inch	5/197
S	Net dimensions (WxHxD)	mm inch	478x780x433 18.8x30.7x17
JÖ	Net weight	Kg / Lb	34 / 74
GENERAL SPECIFICATIONS	Transport dimensions (WxHxD)	mm inch	570x880x570 22.4x36.5x22.4
	Transport weight	Kg / Lb	38 / 81.6
	Optional accessories		Carrying cover, twin cables, 2 aluminium stands





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



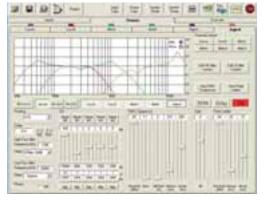
### Rear panel

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 mm (WxHxD) 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 mm inch	530x100x310 20.8x3.9x12.2
Transport Weight Kg Lb	3.9 8.6
Voltage	90 - 240Vac 50/60Hz
Power	30VA
	<del></del>

### 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







# High Performance Power Amplifiers

Symbol 18000 2400+2400W Symbol 12000 1500+1500W



The Symbol are available in **two models** with output power of 1500+1500W and 2400+2400W into 20hm.

The superb sound quality provided by the output stages, the traditional FBT reliability and an impressive range of technical features place the Symbol 12000 and 18000 at **the very apex of their class**, again confirming FBT's hallmark ability to provide the right solution for all amplification needs.

**FK** Flight-Case





# Symbol 18000

### 2400+2400W

- Impulsive power with both channels driven:2 x 2400W (20hm)
- Thermal stability into 20hm
- Electronically balanced XLR inputs and link
- 4-way SPEAKON power outputs
- 3 mode operations: parallel, bridge, stereo
- Full protection on each channel: short circuit, temperature, SOA
- · Clipping limiter
- · Ground lift switch



# **Symbol 12000**

### 1500+1500W

- Impulsive power with both channels driven:2 x 1500W (20hm)
- Thermal stability into 2ohm
- Electronically balanced XLR inputs and link
- 4-way Speakon power outputs
- 3 mode operations: parallel, bridge, stereo
- Full protection on each channel: short circuit, temperature, SOA
- · Clipping limiter
- · Ground lift switch

Model Balanced inputs		SYMBOL 18000	SYMBOL 12000 XLR-F	
		XLR-F		
Impulsive power both channels driven	W RMS	2 x 800W RMS @ 80hm 2 x 1500W RMS @ 40hm 2 x 2400W RMS @ 20hm	2 x 600W RMS @ 80hm 2 x 1000W RMS @ 40hm 2 x 1500W RMS @ 20hm	
Impulsive power Bridge Mode	W RMS	3000W RMS @ 80hm / 4800W RMS @ 40hm	2000W RMS @ 80hm / 3000W RMS @ 40hm	
Continuous power both channels driven @ THD < 0.05% 1kHz	W RMS	2 x 700W RMS @ 80hm 2 x 1300W RMS @ 40hm 2 x 1800W RMS @ 20hm	2 x 550W RMS @ 80hm 2 x 900W RMS @ 40hm 2 x 1300W RMS @ 20hm	
Continuous power Bridge Mode	W RMS	2600W RMS @ 80hm / 3600W RMS @ 40hm	1800W RMS @ 80hm / 2600W RMS @ 40hm	
Input sensitivity		2 Veff	1.7 Veff	
Input impedance		15Kohm	15Kohm	
Slew rate		> 40V/µS	> 40V/µS	
Signal to noise ratio S/N		> 110dB "A" weighted	> 110dB "A" weighted	
Total harmonic dist. (1kHz-4ohm)	1W full power	< 0.02%	< 0.02%	
IMD	1W full power	< 0.05%	< 0.05%	
Frequency response	@ ± 0.2dB	20Hz - 20kHz	20Hz - 20kHz	
Damping factor		> 250 @ 8ohm - 1kHz	> 250 @ 8ohm - 1kHz	
Maximum current output		80Aeff	80Aeff	
Maximum power consumption		3500VA	2700VA	
Power supply voltage		230V~	230V~	
Protections		DC/Thermal/SOA/Soft Start	DC/Thermal/SOA/Soft Start	
Cooling		2 variable speed fans	2 variable speed fans	
Net Dimensions (WxHxD)	mm inch	482x88x460 19x3.5x18.1	482x88x460 19x3.5x18.1	
Net Weight	Kg/Lb	25 / 55.1	24 / 52.9	
Transport dimensions (WxHxD)	mm inch	580x580x120 22.8x22.8x4.7	580x580x120 22.8x22.8x4.7	
Transport weight	Kg / Lb	28 / 61.7	27 / 59.5	



# **Enhanced Features For Professional Live Mixing**

143 FXA



182 E



248



328



Completely Made in Italy, the Formula 182E, 248, 328 and the new 143FXA provide the features and functions for numerous live sound applications: touring sound reinforcement, live recording, and permanent installations in Clubs, Houses of Worship, Auditoriums and Theatres. The Formula 248 and 328 Mixers models offer enhanced capabilities such as FOH mixing, monitor mixes, matrix mixing, 4 sub groups and in ear monitoring. Frame sizes are of 24 and 32 channels, plus 6 stereo channels. The Formula **182E** model is built with the same quality and design reliability as the bigger models. Compact and solid, this mixer is addressed to those sound engineers who are looking for professional mixer

but with a small size. The Formula 143FXA Powered Mixer has great features such as 3 independent 24 bit DSP effect processors that are MIDI controllable, USB In/out, switchable anti-feedback filters, 2x850W Class D power amplifiers with individual switch mode power supplies, 7 band graphic EQ on mains outs and a heavy duty steel chassis with a latching steel cover. The Formula 143FXA Powered Mixer offers versatility for a wide range of professional sound reinforcement applications.

- **Balanced low noise XLR Input** (CMRR - 80dB)
- Mic preamplifier quality circuitry to provide exceptional fidelity, dynamics and transparency
- High-end EQ provide the desired ideal "live" sound with a practical facility of adjustment (+/-15dB, Q > 2.5)
- 100 and 60 mm dust protected faders allow smooth and accurate control of the input and output level
- 4-pin XLR lamp socket to connect a 12V/5W to illuminate the control panel (Formula 182/248/328)

# Formula 328 Formula 248

- 32 Mono channels frame (Formula 328)
- 24 Mono channels frame (Formula 248)
- 2 stereo channels with mic and stereo inputs with separate adjustment of the sources
- 2 stereo channels can be independently routed to L/R
- L/R and Mono main outputs
- 8 Auxiliary sends (4 pre, 2 pre/post, 2 post)
- 2 Stereo effect returns
- 4 Matrix (8-In/1-Out)
- Channel assignments on 4 sub-groups, Mono and L/R Stereo
- · 4-band EQ with LF and HF Shelving,
- High/Mid and Low/Mid on all mono channels
- 4-band EQ on all stereo channels
- 2-Track In/Out recording facility assignable to L/R
- 1 Mic input with assignable talkback to the various outputs
- Dedicated channel, master and stereo monitoring via 4-LED ladder meters
- HPF-100Hz high pass filters
- +48V Phantom power supply, switchable in groups of 4 channels
- · Mute, PFL/AFL on all channel faders
- Electronically balanced XLR-M outputs with 24 dBu gain
- 2 headphone outputs with independent level volumes respectively assigned to Aux 1 and Aux 2 outputs
- PFL headphone output, Control Room output with independent volume controls
- Gain 10dB 60dB with 20dB selectable Pad attenuator
- FBT Precision <sup>™</sup> ultra low noise mic preamps with +74dB gain and +34dBu gain for lince sources
- 100 mm dust protected faders
- Superior electronic and mechanical parts
- 4-pin XLR lamp socket to connect a 12V/5W lamp
- · Internal switching power supply









# Formula 182 E

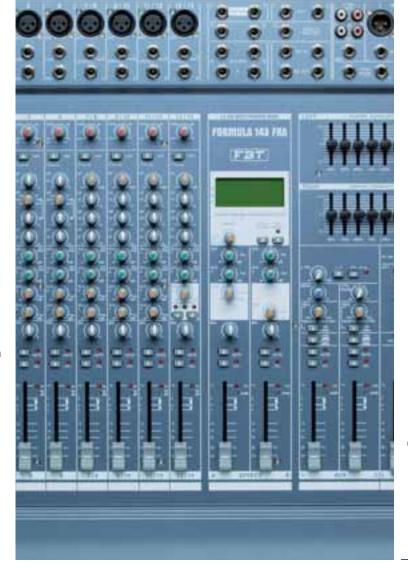
- 18 Mono channels frame
- 2 stereo channels each with mic and stereo line inputs with independent level controls
- L/R and Mono main outputs
- 7 Auxiliary sends: 4 pre, 2 pre/post, 1 post
- Channel assignment on 2 audio groups ad L/R
- Built-in 256 selection DSP digital effects
- 3-band EQ with LF and HF Shelving, sweepable High/Mid on all mono channels
- 3-band EQ with LF and HF Shelving, Mid peaking on all stereo channels
- 2-Track In/Out recording facility assignable to L/R
- 2 LED ladder meter on each channel for signal (-30dB) and saturation monitoring
- HPF-100Hz high pass filter
- +48V Phantom power supply
- Mute, PF/AFL on all channel faders
- PFL headphone output, Control Room outputs with independent level controls
- Electronically balanced XLR-M outputs
- 100 mm dust protected faders
- Superior electronic and mechanical parts
- Internal switching power supply



83

## Formula 143 FXA

- 14 channels, 6 mono with XLR/line, insert and 4 stereo with XLR-Mic in and L/R line in
- L/R and Mono main outputs
- 4 Auxiliary sends: 2 pre, 2 post
- Built-in amps in **PWM** technology (Class D)
- Impressive output continuous power 2x850W / 4 Ohm
- TRIPLE built-in digital effect section, for any kind of effect mixing desired: EFFECT A and B are available in all channels, feature Multitap and provide 15 effect banks with 16 variations programmable by the user. EFFECT C is resident on the stereo channel 13/14 and also provides guitar effects. Midi In and Thru for effects control
- Large 4-Line LCD screen displays the operations of the three effect processors
- Controls include PRESET, EFFECT, TAP/MODIFY selections
- HPF 100Hz lo-cut filter to suppress low frequency noise
- 3-band EQ with sweepable semi-parametric MID
- 48V Phantom power supply
- Built-in USB 2.0 input connected to the 2-TRK SND/RTN
- Mute, PF/AFL on all channel faders
- PFL headphone output, Control Room outputs with independent level controls
- Electronically balanced XLR-M outputs
- **60 mm** dust protected faders
- Internal switch mode power supply





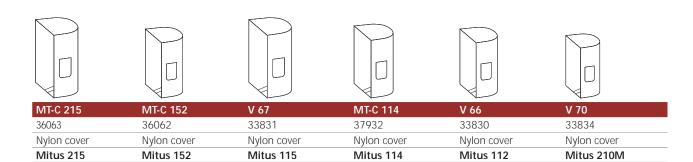


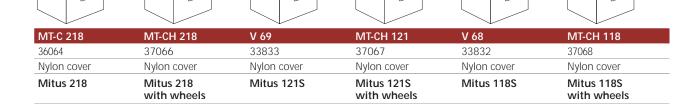






Model	Formula 248 - 328	Formula 182 E	Formula 122 E	Formula 143 FXA
Freq. response (20Hz-20kHz) mic input (+ 40dB gain) on main output line input ( 0dB gain) on main output	-1 / -0.5dB -1 / -0.5dB	-1 / -0.5dB -1 / -0.5dB	-1 / -0.5dB -1 / -0.5dB	-2 / -0.2dB -2 / -0.2dB
Distortion (1kHz, 16dBu main out) THD + Noise (mic + 40dB gain) THD + Noise (line 0dB gain)	0.0045% 0.0042%	0.0045% 0.0042%	0.0045% 0.0042%	(filter 20Hz-20kHz) 0.004% (filter 20Hz-20kHz) 0.0045%
CMRR (1kHz) micro (+ 40dB gain) micro with PAD (0dB gain)	better 80dB better 48dB	better 80dB better 48dB	better 80dB	>85dB -
Crosstalk (1kHz) adjacent channel mute shutoff (fader 0dB mark) fader shutoff (shutoff)	- 90dB - 94dB - 92dB	- 90dB - 94dB - 92dB	- 90dB - 94dB - 92dB	- 95dB - 94dB - 92dB
Noise (22Hz-22kHz Bandwidth) EIN (150ohm source, + 60dB gain) residual output noise (main out, all levels off) main mix noise (all channel routed mix, fader 0dB mark,muted)	- 129dB - 96dBu - 86dBu	- 129dB - 96dBu - 86dBu	- 129dB - 96dBu - 86dBu	- 126dB - 91dBu - 80dBu
Graphic Eq. (+/- 15dB gain)	-	-	-	63Hz, 125Hz, 400Hz, 1kHz, 2.5kHz, 6kHz, 12kHz
Equalization (stereo channel, +/- 15dB gain) High High Mid Mid Low Mid Mid	Shelving 12kHz 400-12kHz, Q max2.5 - 35-1kHz, Q max 2.5 Shelving 80Hz	Shelving 12kHz - 100-8kHz, Q= 1.41 - Shelving 80Hz	Shelving 12kHz - 100-8kHz, Q= 1.41 - Shelving 80Hz	Shelving 12kHz - peak 2.5kHz - Shelving 80Hz
Equalization (stereo channel, +/- 15dB gain) High High Mid Mid Low Mid Mid Mid	Shelving 12kHz 2.5kHz, Q = 1.41 - 250Hz, Q = 1.41 250Hz, Q = 1.41	Shelving 12kHz - peak 2.5kHz - Shelving 80Hz	Shelving 12kHz - peak 2.5kHz - Shelving 80Hz	Shelving 12kHz - peak 2.5kHz - Shelving 80Hz
Max Input Levels micro micro with PAD tape Insert line, stereo	+ 14dBu + 34dBu + 18dBu + 18dBu	+ 14dBu + 34dBu + 18dBu + 18dBu	+ 14dBu - + 18dBu + 18dBu	+ 14dBu - + 18dBu + 18dBu
Rated outputs	+ 4dBu	+ 4dBu	+ 4dBu	+ 4dBu
Max output	+ 24dBu	+ 24dBu	+ 24dBu	+ 24dBu
Input impedance micro line stereo insert in	1.5Kohm bal 20Kohm bal 10Kohm bal min 4Kohm	1.5Kohm bal 20Kohm bal 10Kohm bal min 4Kohm	1.5Kohm bal 20Kohm bal 10Kohm bal min 4Kohm	1.5Kohm bal 20Kohm bal 10Kohm bal min 4Kohm
Output impedance main,aux,group direct out insert out headphones Digital Effects Processor	600ohm 600ohm 600ohm min 32+32ohm	600ohm 600ohm 600ohm min 32+32ohm	600ohm 600ohm 600ohm min 32+32ohm Yes	600ohm 600ohm 600ohm min 32+32ohm
frequency response (20-20kHz) number of effects	-	- 3dB 256	- 3dB 256	- <sup>1</sup>
Triple Internal Processors (A,B,C) 24 bit conversion, sampling frequency Frequency response (20-20kHz) A & B programs C programs	-	-	-	48KHz -3dB 240 320
Built-in amps Output power Input sensitivity	no	no	no	2x850W @230Vac lmp. 4 2x550W @230Vac lmp. 8 Ohm +4dBu with vol. at OdB
Power Supply	85-260 Vac 50/60Hz	85-260 Vac 50/60Hz	85-260 Vac 50/60Hz	120Vac /230Vac50/60Hz 2000VA peak
Net Dimensions mm/inch (LxAxP)	248 - 1066x165x570 / 42x6.5x22.4 328 - 1274x165x570 / 50.1x6.5x22.4	804x124x410 31.6x4.8x16.1	596x124x410 23.5x4.8x16.1	570x180x516 22.4x7x20.3
Net Weight Kg/Lb	248 - 24 / 52.9 328 - 28 / 61.7	14 / 30.8	10 / 22	19 / 41.9
Transport dimensions mm/inch (LxAxP)	248 - 1115x300x665 328 - 1330x300x665	845x235x550 33.3x9.2x 21.67	680x235x500 22.8x9.25x19.7	650x270x 570/ 25.5x10.6x22.4
Transport weight Kg/Lb	248 - 30 / 328 - 34.5	17 / 37.5	13 / 28.6	21 / 46.3





Vertus CLA 604	Vertus VT-SC 114	Vertus VT-SC 59	Vertus CLA 208	StageMaxX 12
Nylon cover	Nylon cover	Nylon cover	Nylon cover	Nylon cover
36122	37145	37146	36123	36065
VT-C 604	VT-C 114	VT-C 59	VT-C 208	SM-C 12

V 72	SL-CH 18S	V 71	SL-CH 15S	SL-C 12S	
34721	37051	34720	37052	35958	
Nylon cover	Nylon cover	Nylon cover	Nylon cover	Nylon cover	
SUBLine 18 SA	Subline 18 SA with wheels	SUBLine 15 SA	Subline 15 SA with wheels	SUBLine 12 SA	
V 33	V 29	V 56		HM-CH 100	
15777	10186	29486		37049	

V 33	V 29	V 56	HM-CH 100
15777	10186	29486	37049
Nylon cover	Nylon cover	Nylon cover	Nylon cover
HiMaxX 60 Evo <sup>2</sup> MaxX 6	HiMaxX 40 Evo <sup>2</sup> MaxX 4	HiMaxX 100 SA	HiMaxX 100 SA with wheels









V 64	V 63	V 65	PM-CH 15S
33326	33325	33327	37050
Nylon cover	Nylon cover	Nylon cover	Nylon cover
ProMaxX 14 - ProMaxX 12	ProMaxX 10	ProMaxX 15 SA	ProMaxX 15 SA with wheels









V 33	V 29	V 30	V 31
15777	10186	13349	13350
Nylon cover	Nylon cover	Nylon cover	Nylon cover
Evo <sup>2</sup> MaxX 6	Evo <sup>2</sup> MaxX 4	Evo <sup>2</sup> MaxX 2	Evo <sup>2</sup> MaxX 9 SA









V 38	V 37	V 36	V44	
18614	18613	18612	23373	
Nylon cover	Nylon cover	Nylon cover x 2	Nylon cover	
J 15 - J 12	J 8	J 5	Amico 10 USB	











MT-F 206	MT-F 212	MT-J 206	MT-B 206	MT-S 206
31805	31804	31806	31888	33324
Flying bar	Flying bar	Joint Bar	Metal Base to ground 206 LA/L array or stack on 118 SA/S or 121 SA/S subs	Mitus 206 LA mounted
Mitus 206 LA/L	Mitus 212 FSA/FS	Mitus 212 FSA/FS with Mitus 206LA/L	Mitus 206 on Mitus 118 or Mitus 121	Mitus 206 LA/L













•	-,	-	*	9	~	
MD-FSAT	MD-FSUB	MD-WB	MD-B	MD-TSAT	MD-TSUB	SPL-4/2me
25391	26214	29309	25393	26213	25394	26530
Flying bar for rigging Modus Sat	Flying bar for rigging Modus Sub	Stand base to tilt Modus 15/40 on Modus Sub	Stand base to tilt Modus 15 + Modus 40 on theatre stage f.o.h	Trolley for 2 x Modus Sat	Trolley for 2 x Modus Sub	Splitter panel for Modus Line Array System
Modus	Modus	Modus	Modus	Modus	Modus	Modus















Vertus CLA 604A	Vertus CLA 604A	Vertus CLA 604A	Vertus CLA 604A	Vertus CLA 604A	Verve 108	Verve 108
Stand Adapter ø 35mm black / white	Directional wall mount bracket black / white	Directional stand adapter black / white	Stand column H59 cm black / white	Stand column H114 cm black / white	Adjustable truss clamp	Directional wall mount bracket
35723 / 37044	35722 / 37043	37053 / 37054	36879 / 36883	37041 / 37042	36080	36156
VT-S 604 / W	VT-W 604 / W	VT-DS 604 / W	VT-SC59 604 / W	VT-SC114 604 / W	VV-CO 108	VV-W 108
			<u> </u>	<b>*</b>		7











SJ-8 Black	SJ-5 Black	SJ-5 White	AJ-8 Black	AJ-5 Black
18567	18522	18525	18570	18532
Directional wall mount bracket	Directional wall mount bracket	Directional wall mount	Adapter from ø 35 mm to ø 25 mm	MS 30BK adapter for fixing purposes
J 8	J 5	J 5	J 8	J 5







MS 30BK	SJ-5C White	SJ-8T Black	SJ-5T Black
06076	18526	18569	18527
Tripod speaker stand	White metal frame for ceiling/wall installation	Adjustable metal "T" stand for No. 2	Adjustable metal "T" stand for No. 2
J 5	J 5	J 8	J 5













VV-U 115	VV-U 112	VV-U 110	VV-U 108	VV-U 115M	VV-U 112M
36074	36075	36076	36077	36078	36079
Wall metal bracket to mount in horizontal position					
Verve 115	Verve 112	Verve 110	Verve 108	Verve 115M	Verve 112M













position black / white  StageMaxX 12	stand socket  StageMaxX 12	horizontal position HiMaxX 60	vertical position  HiMaxX 60	horizontal position HiMaxX 40	vertical position  HiMaxX 40
Wall metal bracket to mount in horizontal	top-hat speaker	Wall metal bracket to mount in			
36066 / 36735	37099	15771	15772	10187	10188
SM-U 12	SM-S 12	BOX 104	BOX 105	BOX 100	BOX 101
<b>&gt;</b>	<b>□</b> •	<b>19</b>	10		19









BOX 128	BOX 127	BOX 102	BOX 103
33329	33328	13351	13352
Wall metal bracket	Wall metal bracket	Wall metal bracket	Wall metal bracket
to mount in	to mount in	to mount in	to mount in
horizontal position	horizontal position	horizontal position	horizontal position
ProMaxX 14 ProMaxX 12	ProMaxX 10	Evo <sup>2</sup> MaxX 2	Evo <sup>2</sup> MaxX 9











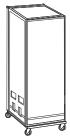
13	1	1	1	1
BOX 112	SJ-8U Black	SJ-8U White	SJ-5U Black	SJ-5U White
18602	18568	23120	18523	18524
Wall metal bracket to mount in horizontal position				
J 15 J 12	J 8	J 8	J 5	J 5

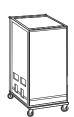


KWM 560	KMS 300	KMS 325	KMS 210	KMS 220	FMS 220	FMS 220 W
32890	32884	32886	32887	32888	36636	36723
Adjustable wall mount heavy duty steel speaker bracket	Aluminium speaker stand Air-Cushioned	Speaker stand with top adapter 35 to 25 mm	Adjustable speaker pole ø 35 mm	Adjustable speaker pole with M20 thread	Adjustable speaker pole with M20 thread. Black	Adjustable speaker pole with M20 thread. White
Avalaible for all Series	Avalaible for all Series	Avalaible for all Series	Avalaible for all Series	Avalaible for all Series	Avalaible for all Series	Avalaible for all Series



KW-HM100	KBW-1004S	
30423	25197	
4 Wheels Kit: 2 with brake 80 mm ø	4 Wheels Kit with brake 100 mm ø	
HiMaxX 100 SA SUBLine 15 SA	Mitus 218 - Mitus 118 Mitus 121	
ProMaxX 15 SA	SUBLine 18	













FK 206-6	FK 206-4	FK 212-2	FK 121-1	FK 118-1	FK 210-2
33933	34911	33931	34690	33932	34719
Flight-case for 6	Flight-case for 4	Flight-case for 2	Flight-case for 1	Flight-case for 1	Flight-case for 2
Mitus 206 L/LA	Mitus 206 L/LA	Mitus 212 FSA	Mitus 121 S/SA	Mitus 118 SA	Mitus 210 M/MA









FK 12W	FK 8W	FK 6	FK 4
05370	05373	05369	05368
Flight-case 12 HU, protection panels (front+back), depth 43cm w/wheels	Flight-case 8 HU, protection panels (front+back), depth 43cm w/wheels	Flight-case 6 HU, protection panels (front+back), depth 43cm	Flight-case 4 HU, protection panels (front+ back), depth 43cm
Symbol	Symbol	Symbol	Symbol







FK 328	FK 248	FK 182
28770	28771	28772
Flight-case	Flight-case	Flight-case
Formula 328	Formula 248	Formula 182E









PL-C 4B	PL-C 3B	PL-C 2B	PL-C 1B
12731	12730	12729	12728
Blank Panel 4 Rack Units	Blank Panel 3 Rack Units	Blank Panel 2 Rack Units	Blank Panel 1 Rack Units
Symbol	Symbol	Symbol	Symbol

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