

GUIDE  
TO  
TRAINING

*New*  
2022

**FBT**





THE POWERFUL TOURING  
SOUND SOLUTION

Myra<sup>1</sup>



MEETING CUSTOMER DEMAND FOR A  
LARGE-SCALE, POWERFUL TOURING  
SOUND SOLUTION, FBT IS PROUD TO  
INTRODUCE THE MYRA AS ITS NEW FLAGSHIP  
SOUND REINFORCEMENT SYSTEM.

Combining precision sound quality with practical hardware and FBT's characteristic Italian style, the Myra system comprises the 214L mid/high line array and the 218S subwoofer. Both are the result of a strong collaboration with leading tour sound companies and an extensive R&D program lasted three years. Designed without compromise, the Myra establishes a new reference for SPL to size ratio, directivity control, coherence and ease of use.

# Myra

2 | Variable Curvature Line Array



At the heart of the 214L line array element is a new coaxial 4-inch voice coil mid-frequency and 2.5-Inch voice coil high-frequency driver combination developed in cooperation with B&C Speakers and covering the 400hz to 20khz range. Combined output from the compression drivers is loaded by a proprietary short path waveguide that ensures low distortion and controlled broadband directivity. With extended frequency response down to 40Hz, which in most applications avoids the need for flown subwoofers, the 214L low frequency section employs uniquely sized B&C Speakers 14-inch high excursion woofers

with 3-inch voice coils to maintain long throw projection of low frequencies with power and authority.

The cabinet construction typifies FBT's signature 'Made in Italy' production philosophy.

Completely manufactured in-house using premium Baltic birch and tour-ready weather-resistant polyurea coating, the 214L is built for a life on the road. Audio crews will appreciate the intuitive four-point integrated rigging system which allows up to 24 cabinets to be flown quickly and easily in any venue with splay angle from 0.25° to 8°.

AN AUTO-LOCKING INTERNAL MECHANISM MAKES IT EASY TO SET ARRAYS AT THE DESIRED INTER-ELEMENT ANGLES USING SELECTOR PINS AND SECURELY LOCKING ALL CABINETS AT THE SELECTED ANGLE WHEN LIFT-UP.



The MYRA 214L is Bi-Amped through a NEUTRIK NL4M connectors, one channel for LF and one for the MID/HF with internal passive crossover. The lowest octave of the Myra system is seamlessly reproduced by the companion 218S, a reflex-loaded dual 18-inch subwoofer with custom designed, long excursion B&C woofers. Combining accurate cabinet resonance study and ingenious port arrangement which is designed to reduce turbulence and eliminate non-linearity, MYRA 218S delivers substantial low frequency energy down to 25Hz and can offer standard or cardioid directivity with suitable DSP preset and physical deployment. As with the 214L mid/high enclosure, the 218S cabinet benefits from premium Baltic plywood construction and to ensure long term road-worthiness and all-weather resistance, is protected by a durable polyurea coating. A two-point rigging system is flush-mounted into the cabinet, allowing the suspension up to 12 enclosures with a 4:1 safety factor. Trucking and handling are made easy by the eight comfortable, ergonomically placed rubber gripped aluminium bar handles, along with removable heavy-duty casters.



Practical aluminium handle



Intuitive four-point integrated rigging system



# Myra

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Variable Curvature Line Array



MR-F214 Code 43901  
Flybar for flown configurations



MR-FJ214 Code 44227  
Rigging accessory for azimuth adjustment



MR-J214 Code 44228  
Pull-back compression frame



MR-F218 Code 43897  
Flybar for flown configurations



MR-T214 Code 43898  
Dolly transport or ground stack installation



MR-P214 Code 44591  
Extension feet for dolly transport



MR-T218 Code 43902  
Dolly transport or ground stack installation



## 214L

BI-AMPED LINE ARRAY  
1600W + 640W - 147 DB SPL

- Bi-amplified 3-way line array
- 2 x 356mm (14") custom woofers with 76mm (3") voice coil
- 2 x Coaxial B&C MF/HF compression drivers with 100mm (4") voice coil MF and 36mm (1.4") throat, 64mm (2.5") coil HF
- Short path FBT waveguide with 90° horizontal dispersion (vertical dispersion dependent on number of elements and array curvature)
- Frequency response from 40Hz to 20kHz
- Neutrik® speakON™ NL4M input and link connectors
- Cabinet in premium grade Baltic birch plywood with polyurea coating
- Integral 4-point rigging system for suspending up to 24 cabinets with splay angle from 0.25° to 8°; angles can be set while stacks rest in caster frame
- Internal passive MF/HF crossover; only two amplifier channels required



MR-TC214 Code 44592  
Top cover





## 218S

REFLEX SUBWOOFER  
4000W - 143 DB SPL

- Dual 18" reflex-loaded subwoofer
- 2 x 457mm (18") custom woofers with 100mm (4") voice coils
- Frequency response down to 25Hz
- Neutrik® speakON™ NL4M input and link connectors
- Cabinet in premium grade Baltic birch plywood with polyurea coating
- Curved tuning port for decreased airflow velocity and reduced turbulence
- Optimised vent shape reduces port compression and maintains linearity
- Standard and cardioid presets available





Model		214L	218S
GENERAL			
Configuration	Way	3	passive 1-way subwoofer
Low frequency woofer	Inch / mm	2 x 14" (neo) - 3" voice coil	2 x 18" neodymium - 4 VC
High frequency driver	Inch / mm	1,4" neo coax / 4" coil MF / 2,5" coil	---
ACOUSTICAL SPEC.			
Frequency response	@ -6dB	40Hz - 20kHz	25Hz
SPL max. (cont/peak)	dB	147dB	143dB
Dispersion	HxV	90x depends on curvature and number of elements HxV, 90°	omnidirectional
AMPLIFIER			
Recommended amplifier	W RMS	1600 LF - 600 MF/HF	4000
Long term power	W	800W LF - 300W MF/HF	2000
Short term power (IEC 268-5)	W	3200W LF - 1200W MF/HF	8000
Nominal impedance	Ohm	4 Ohm LF - 16 Ohm MF/HF	4 Ohm
INPUTS / OUTPUTS			
Input connectors		Neutrik NL4M	Neutrik NL4M
MECHANICAL SPEC.			
Splay angle between cabinets		8° max (0,25° - 1° - 2° - 3° - 4° - 5° - 6° - 8°)	
Material		Cabinet in baltic birch plywood - black polyurea finish	Cabinet in baltic birch plywood - black polyurea finish
Handles		Aluminium (1 x side)	Integrated (3 x side)
Net Sizes (WxHxD)	mm / Inch	930 x 400 x 530 mm / 36,61 x 15,70 x 20,86 inch	1340x555x74mm0 / 52,7x21,85x29,13inch
Transport dimensions (WxHxD)	mm / Inch	1050x501x630mm / 41,3x19,7x24,8 inch	1440x640x840mm / 56,7x25,2x33,1inch
Net weight	kg / Lbs	61,5 kg / 135,58 lb	87.5kg / 192.90lb
Shipping weight	kg / Lbs	70 / 154,3 Kg/lb	100kg / 220,5 lb



AN INNOVATIVE LINE ARRAY  
SYSTEM WITH REFINED,  
TECHNOLOGICALLY-ADVANCED  
ENGINEERING

Muse<sub>7</sub>



These are the qualities of the new speaker that redefines the concept of line array in terms of power, size, lightness, flexibility and practicality of use. The modularity from 2 to 16 speakers allows use in a wide variety of situations, from small band to large outdoor concert. The aesthetic elegance of the MUSE also makes it very suitable for fixed installations.

MUSE 210LND/210LN has two custom 250mm (10") woofers with 64mm (2.5") high excursion coil and two custom B&C drivers with 25mm throat. The waveguide, optimised with BEM finite element simulations to minimise distortion, has a horizontal dispersion of 90°. Designed to present an optimal load to the driver's membrane starting from 800Hz, it allows the propagation of a flat acoustic wave up to over 18Khz, strictly respecting the most stringent physical criteria for an ideal cylindrical source. The acoustic configuration with the central horn allows for a particularly linear and symmetrical horizontal dispersion. The cabinet is made of 15mm birch plywood with two die-cast aluminium handles.



The hardware integrated in the cabinet allows the suspension of 16 boxes with a 10:1 safety factor and an inclination from 0° to 10° at a step of 1°. The design of the no-compromise mechanics in terms of practicality and speed of set-up of the system makes it particularly suitable for daily touring movements.

The pinnacle of the entire project is the 800+400W RMS amplification module with TCP/IP network interface. Based on the OCA ALLIANCE AES70 standard, it communicates with the INFINITO System Management Suite remote control software and receives 24-bit 48-96Khz digital audio streaming from all devices compatible with the DANTE standard.

MUSE 210LN has the same characteristics of the MUSE 210LND model but does not include the Dante feature.

The module is contained in an aluminium chassis with intelligent forced ventilation and is equipped with an OLED display with encoder for parameter setting, among which 8 presets offer easy configuration, adapting the DSP to the curvature of the array and to the number of elements used.





## TO EXTEND THE LOW FREQUENCIES, THE MUSE SYSTEM INCLUDES TWO SUBWOOFER MODELS

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MUSE118FSND/118FSN is an innovative reversible subwoofer for cardioid configurations with integrated suspension hardware. Innovative hybrid acoustic band-pass configuration with single 460mm (18") B&C woofer and 75mm (3") neodymium coil and integrated 1600W RMS amplifier capable of 140dB SPL, ideal to be suspended together with the MUSE210LND or in a separate cluster. MUSE 118FSN has the same characteristics of the MUSE 118FSND model but does not include the Dante feature

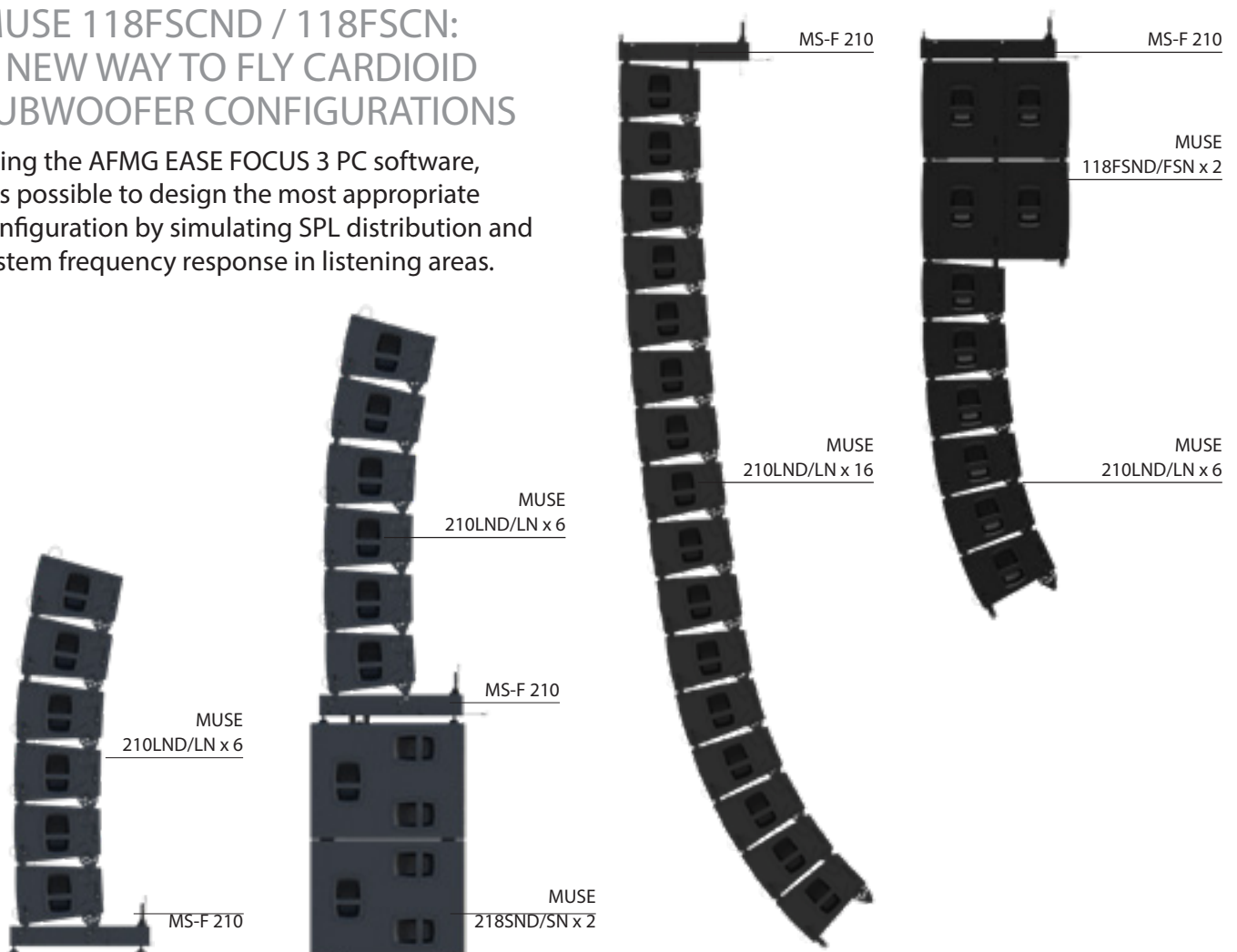
MUSE218SND/218SN is a direct radiation ground subwoofer, it has 2 B&C 460mm (18") long-range woofers and 4000W class D amplification capable of 148.5dB SPL. The subwoofer serves as the basis for ground-stack configurations and is equipped with a preset for cardioid configuration. MUSE 218SN has the same characteristics of the MUSE 218SND model but does not include the Dante feature



Both have a switching power supply unit, OLED display with encoder and TCP/IP OCA70 interface compatible to communicate with the INFINITO System Management Suite software.

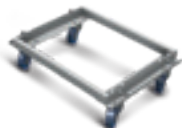
### MUSE 118FSCND / 118FSCN: A NEW WAY TO FLY CARDIOID SUBWOOFER CONFIGURATIONS

Using the AFMG EASE FOCUS 3 PC software, it is possible to design the most appropriate configuration by simulating SPL distribution and system frequency response in listening areas.



# Muse

Variable Curvature Line Array



MS-T 210 Code 38886  
Trolley for 4 Muse 210



MS-F 210 Code 38834  
Flying bar Muse 210  
and Muse 118



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



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



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



MS-C210 Code 39340  
Rain cover for Muse 210  
e Muse 118



INFINITO  
System Management Suite

Dante™

## 210LND / 210LN

PRECISION COVERAGE  
VERTICAL ACTIVE ARRAY  
800W + 400W RMS - 136dB SPL

- Compact 2-way line array system in bass-reflex
- 2 x 250mm woofers. (10") with 64mm coil. (2.5")
- 2 X B & C custom drivers with 25mm (1") throat
- Frequency response from 55Hz to 20kHz
- 800W class D amplifier for LF and 400W for HF with switching power supply unit
- TCP/IP - OCA70 compatible network interface
- EtherCon RJ45 input and output for daisy-chain
- OLED DISPLAY and ENCODER for control
- DANTE 24BIT 48-96KHz TCP/IP audio streaming
- Robust birch ply wood cabinet with integrated suspension mechanism and adjustable angle of between 0° and 10° in steps of 1°
- 2 aluminium handles
- Wide range of accessories for both hanging and resting configurations, preparation for amplifier control unit rain cover

MUSE 210LN has the same characteristics of the MUSE 210LND model but does not include the Dante feature







## 118FSND / 118FSN

FLYABLE ACTIVE  
SUBWOOFER  
1600W RMS - 140DB SPL

- Compact Hybrid band pass cardioid-arrayable subwoofer. Hybrid configuration permit to obtain extension and speed of vented with high SPL and acoustic filtering of band pass
- Suspension hardware fully compatible with MUSE210LND allowing the enclosure to be suspended front or rear-firing for easy cardioid configurations
- Very large area laminar-flow port to ensure no power compression and very low port turbulence
- 18" (460mm) custom B&C neodymium magnet high excursion woofer with 3" (75mm) voice coil
- Frequency Response from 33Hz @ -6dB
- Class D amplifier delivering 1600WRMS with switch mode power supply
- Network interface TCP/IP – OCA70 compatible
- EtherCon RJ45 input and output for daisy-chain
- OLED DISPLAY and ENCODER with PUSH for easy onboard control
- DANTE audio streaming with 24bit at 48-96KHz on TCP/IP network
- 5/8" (15mm) birch plywood enclosure, scratch resistant black paint, 4 aluminum handles and heavy duty metal grille with synthetic protection cloth
- M20 top mount stand socket
- Optional 4 swivel-mount 4" (100mm) casters
- Low frequency extension cabinet for the MUSE210LND line array for flying or ground stacked configurations
- It's possible to order MUSE 118FSCND or 118FSCN models, the versions already factory preconfigured as rear facing for cardioid applications

MUSE 118FSN has the same characteristics of the MUSE 118FSND model but does not include the Dante feature

## 218SND / 218SN

PRECISION COVERAGE  
VERTICAL ACTIVE ARRAY  
4000W RMS - 148.5DB SPL

- Ground stack direct load subwoofer
- Very large area reflex port to ensure no power compression and very low port turbulence
- 2X18" (460mm) B&C very high excursion woofer with 4" (100mm) voice coil
- Frequency Response from 30Hz @ -6dB
- Class D amplifier delivering 4000WRMS with switch mode power supply
- Network interface TCP/IP – OCA70 compatible
- EtherCon RJ45 input and output for daisy-chain
- OLED DISPLAY and ENCODER with PUSH for easy onboard control
- DANTE audio streaming with 24bit at 48-96KHz on TCP/IP network
- 0.7" (18mm) birch plywood enclosure, scratch resistant black paint, 6 handles and heavy duty metal grille with synthetic protection cloth
- M20 top mount stand socket
- Optional 4 swivel-mount 4" (100mm) casters
- Low frequency extension cabinet for

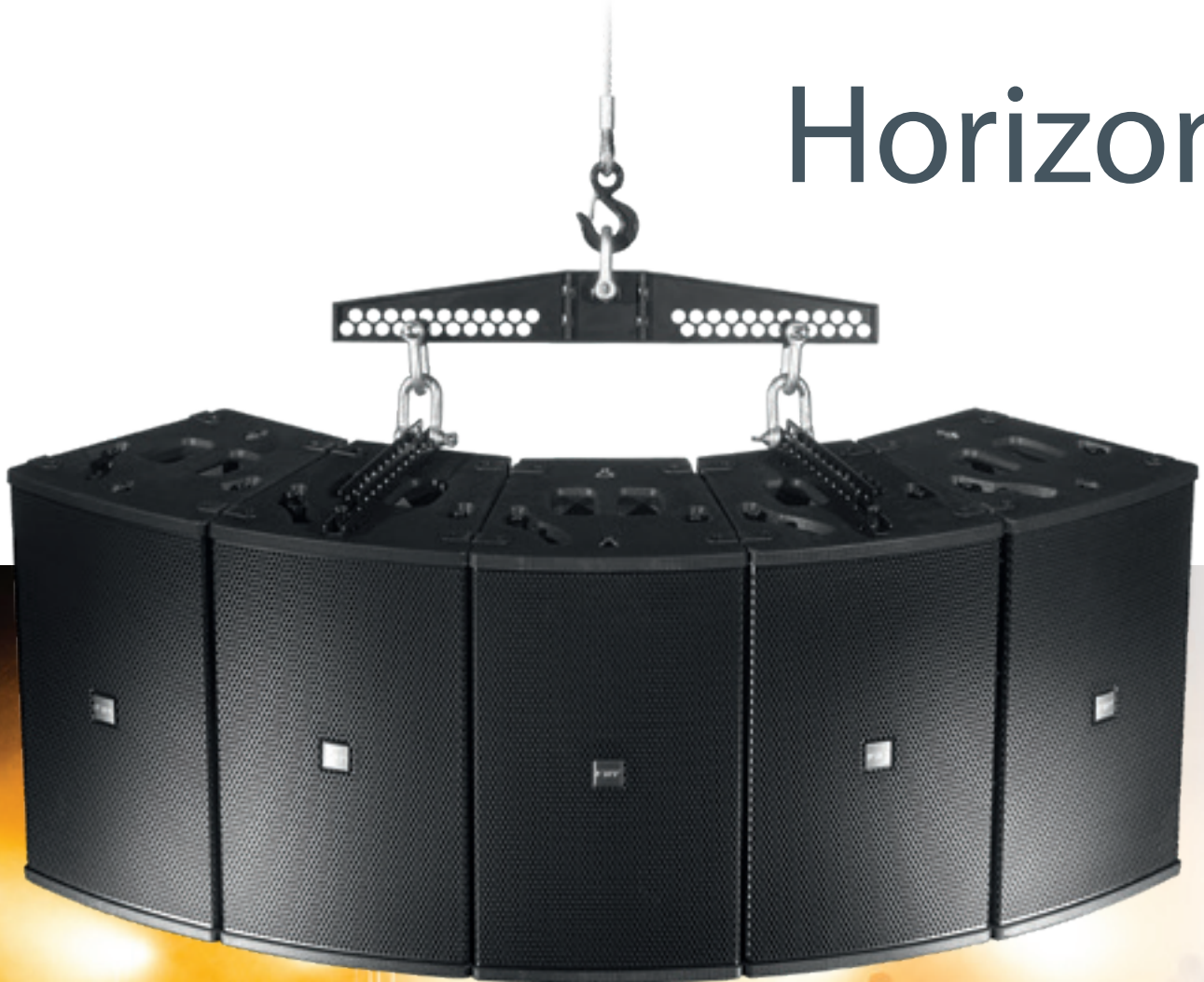
MUSE 218SN has the same characteristics of the MUSE 218SND model but does not include the Dante feature





Model		210LND / 210LN	118FSND / 118FSN	218SND / 218SN
<b>GENERAL</b>				
Configuration	Way	active 2-way reflex line array module	1 hybrid bandpass	1 Reflex
Low frequency woofer	Inch / mm	2 x 10" / 2,5" coil	1 x 18" / 3" coil neodymium	2x18" - 4 coil
High frequency driver	Inch / mm	2 x 1" / 1,7" coil	---	---
<b>ACOUSTICAL SPEC.</b>				
Frequency response	@-6dB	55Hz - 20kHz	33Hz - preset dependant	30Hz preset dependant
Sensitivity (@1W/1m)	dB	---	---	---
SPL max. (cont/peak)	dB	129 / 136	136 / 140 half-space	142.5 / 148.5 half-space
Dispersion	HxV	90°x10°(dependant upon no. of elements)	omnidirectional	Omnidirectional
<b>AMPLIFIER</b>				
Built-in amplifier max. LF / HF	W	800 / 400	1600	4000
Built-in amplifier max. peak LF / HF	W	1600 / 800	3200	8000
Input impedance	kOhm	22	22	22
<b>INPUTS / OUTPUTS</b>				
Power supply connectors		PowerCon IN/OUT	PowerCon IN/OUT	PowerCon IN/OUT
Input connectors		XLR IN / OUT	2 x XLR IN/OUT	XLR IN / OUT
Input / output NET		NET IN / NET OUT (EtherCon)	NET IN / NET OUT (EtherCon)	NET IN / NET OUT (EtherCon)
<b>POWER SUPPLY SPEC.</b>				
AC Power requirements	W	600	600	800
Power cord	mt. / Ft.	5 / 16,4	5 / 16,4	5 / 16,4
<b>MECHANICAL SPEC.</b>				
Material		Cabinet in baltic birch plywood - black polyurea finish	Cabinet in baltic birch plywood - black finish	Cabinet in baltic birch plywood - black finish
Handles		Integrated (1 x side)	Integrated (2 x side)	Integrated (3 x side)
Net Sizes (WxHxD)	mm / Inch	652 x 96 x 425 / 25,66 x 11,65 x 16,73	652x500x750 / 25,66x19,68x29,52	1140 x 740 x 555 / 44,88 x 28,13 x 21,85
Transport dimensions (WxHxD)	mm / Inch	510x 780 x 380 / 31,10 x 14,765 x 20,47	700x650x800 / 27,55x25,59x31,49	1200 x 800 x 730 / 47,24 x 31,49 x 28,74
Net weight	kg / Lbs	38 / 83,77	67 / 147,70	99 / 218,25
Shipping weight	kg / Lbs	41,5 / 90,38	77 / 169,75	108 / 238 with pallet





HORIZON VHA, THE NEW FBT LINE ARRAY WITH BOTH HORIZONTAL AND VERTICAL CONFIGURATIONS, IS A FLEXIBLE SYSTEM SUITABLE FOR ALL CONDITIONS OF USE. IT PROVIDES OPTIMAL AUDIENCE COVERAGE WITH EXCEPTIONAL SOUND QUALITY AND DISPERSION UNIFORMITY.

## FBT LOOKS TO THE HORIZON WITH NEW VERTICAL HORIZONTAL ARRAY

Developed to meet the increasingly diverse needs of rental companies and systems integrators, the HORIZON VHA (Vertical Horizontal Array) series by FBT is set to rewrite the rules of sound reinforcement system design when it debuts at Frankfurt 2018 Pro Light + Sound.

Delivering optimal audience coverage with the ability to adapt to the requirements of the

project at hand, HORIZON VHA represents a step forward in flexible sound reinforcement technology with exceptional sound quality. Crafted in Italy with the no-compromises manufacturing excellence for which FBT is known, the HORIZON VHA series comprises the full range VHA406ND, plus two options for low-end extension in the shape of the 12" VHA112SND and 18" VHA118SND.

The summit of the entire project is the 800+400W RMS amplification module with TCP/IP network interface. Based on the OCA ALLIANCE AES70 standard, it communicates with the 'INFINITO system management suite' remote control software and receives 24-bit 48-96Khz digital audio streaming from all devices compatible with the 'DANTE' standard. INFINITO is a true revolution in the FBT world that enhances the user experience, reaching new heights in terms of performance and simplicity! It is a software platform that is fully developed in house by the FBT R&D team that offers real time monitoring of the internal sensors and the status of the connected devices, fast IN/OUT Vu-meters, controls of all the parameters, group management and warnings readout. The module is contained in an aluminium chassis with intelligent forced ventilation and is equipped with an OLED display with encoder for parameter setting. A high-brightness blue front LED allows remote identification of the device also in daylight.



VHA406ND/N x 3  
VHA112SND/SN  
VHA-T 406

VHA406ND/N x 2  
VHA112SND/SN  
VHA-B 406  
VHA118SND/SN

VHA406ND/N  
VHA-S 406  
VHA118SND/SN

VHA406ND/N  
VHA112SND/SN max 3  
VHA-T 406





VHA-FH 406-1  
VHA406ND/N

Constructed in 0.47" birch plywood with a tough and tour-ready synthetic rubber surround, each VHA406ND comprises four 6.5-inch woofers plus a 1.4" large-format neodymium compression driver with a 2.5" voice coil. The purpose-designed central waveguide, optimized with BEM finite element simulations, offers dispersion of 90° horizontal and 20° vertical, with precise and focused vertical control across the enclosure's entire operating range. The result is a combination of perfectly balanced, symmetrical dispersion – multiple system can be coupled with full coherence far beyond 18KHz, plus a particularly powerful, defined midrange with a frequency response extending from 65Hz to 20KHz.

The VHA406ND Class-D, switch mode amplifier module can deliver 800W for the LF section and 400W for the HF. Courtesy of an integrated DSP processor with next generation algorithms, users whilst enjoying the system's tremendous headroom to ensure the best possible audio fidelity. Integrated hardware allows the linking of up to six VHA406ND cabinets in vertical array with variable angles from 5° to 20° (in 5° steps), ensuring an easy and error-proof system configuration and set-up. Rigging is simplified even further by the inclusion of only one setting point per side. All setting pins are fixed and integrated into the hardware, eliminating both the risk of loss and damage in transport. Crucially, the HORIZON VHA system also boasts integrated quick-release anchor points that facilitate the creation of horizontal arrays using the dedicated flybar. Each flybar will support up to three VHA406A cabinets, while multiple flybars can be joined for the creation of arrays delivering up to 360° coverage.



The FBT HORIZON VHA406ND provides a wide range of accessories for suspension, pole-mounting or ground-stacking. The front of the loudspeaker is covered with a powder coated perforated steel grille. Available a rain cover that protects the electronic parts from the rain.

For low-end extension, meanwhile, the VHA112SND flyable bass extension module is ideal for small-to-medium sized projects, seamlessly matching the VHA406A in both size and shape yet housing a single 12" B&C long excursion woofer. The bass reflex design incorporates a laminar air flow to minimize turbulence and compression, while the Class D amplifier module drives the system with 1200W, and includes on-board DSP with filtering, equalization and limiting. For larger spaces, the ground-stacked VHA118SND is an exceptionally powerful and versatile subwoofer that sets a new standard for SPL to size ratio. Comprising a single 18" B&C woofer, the birch plywood, bass reflex sub again deploys a laminar air-flow for refined performance, while its 2000W Class-D amplifier module offers a selection of six entirely rewritten preset algorithms.

The design of the VHA118SND has produced a unique low-end module that is capable of generating extremely high levels of SPL for prolonged periods. Using BEM finite element simulations, FBT has optimized the woofer's load volume, while careful study of the grille and the assembly's protective fabric have minimized acoustic impedance for a net improvement in performance compared to previous models. The addition of the VHA118SND extends the overall system frequency response to 30Hz, while the sub can support fully ground-stacked configurations courtesy of special integrated mounting hardware.



# Horizon

Vertical Horizontal Line Array



VHA-F 406 Code 41779  
Flying bar for vertical configuration  
HORIZON VHA 406 A



VHA-FH 406-1 Code 41780  
Flying bar for horizontal  
configuration 1x VHA 406 A



VHA-FH 406-5 Code 41781  
Flying bar for horizontal  
configuration for 2-5 HORIZON  
VHA 406 A



VHA-2F406 Code 42990  
Cluster bracket with speaker pole  
for 1x VHA 406A



VHA-B 406 Code 41783  
Metal base to ground VHA 406/VHA  
112 array and stack on VHA 118SA



VHA-T 406 Code 42126  
Trolley for 3x VHA 406/VHA 112 and  
metal base to ground 4x VHA 406/  
VHA 112



VHA-S 406 Codice 41782  
Cluster bracket with speaker pole  
for 1x VHA 406A



INFINITO  
System Management Suite

Dante™

## VHA406ND / VHA406N

VERTICAL HORIZONTAL ACTIVE  
LINE ARRAY  
800W + 400W - 134 DB SPL

- Bi-amplified 2-way line array
- 4 x 165mm (6.5") custom woofers with 38mm (1.5") coil
- Large format FBT waveguide with 90° (H) x 20° (V) dispersion
- Frequency response from 65Hz to 20KHz
- Class-D 800Wrms for LF and 400Wrms for HF amplifiers with switch mode power supply
- Network interface TCP/IP - AES70 compatible
- Ethercon RJ45 input and output for daisy-chain
- Remote control by INFINITO System Management Suite
- OLED DISPLAY and encoder with PUSH for easy onboard control
- DANTE audio streaming 24bit 48-96KHz
- Neutrik PowerCON IN and LINK power connectors
- Cabinet in 12mm (0.5") birch plywood with anti-scratch varnish. Handles with rubber inserts and rubber-coated sides to protect the cabinet from bumps and scratches.
- Side suspension hardware with integrated setting pins, inclination between adjacent cabinets from 5° to 20° in 5° steps. Possibility of vertical and horizontal installation through dedicated flybars
- Wide range of accessories for suspension, pole-mounting or ground-stacking.
- Ideal for both live applications, assisted by one or both subs of the VHA range, and for fixed installations

VHA406N has the same characteristics of the VHA406ND model but does not include the Dante feature



## VHA112SND / VHA112SN

VERTICAL HORIZONTAL ARRAY ACTIVE  
SUBWOOFER  
1600W - 136 DB SPL

- Bass-reflex amplified subwoofer
- High-excursion 320mm (12") custom B&C Woofer
- Frequency response from 45Hz to 120Hz
- 1600Wrms class-D amplifier with switching mode power supply
- Network interface TCP/IP - AES70 compatible
- Ethercon RJ45 input and output for daisy-chain
- Remote control by INFINITO System Management Suite
- OLED DISPLAY and encoder with PUSH for easy onboard control
- DANTE audio streaming 24bit 48-96KHz
- Neutrik PowerCON IN and LINK power connectors
- Cabinet in 12mm (0.5") birch plywood with anti-scratch varnish. Handles with rubber inserts and rubber-coated sides to protect the cabinet from bumps and scratches.
- Ideal for reinforcing and extending the low range of the VHA406ND line array

VHA112SN has the same characteristics of the VHA112SND model but does not include the Dante feature



## VHA118SND / VHA118SN

PROCESSED ACTIVE  
SUBWOOFER  
2500W - 143 DB SPL

- Bass-reflex amplified subwoofer
- 460mm (18") high excursion B&C woofer with 100mm (4") coil
- Frequency response from 30Hz to 100Hz
- 2500Wrms class D amplifier with switching power supply
- Network interface TCP/IP - AES70 compatible
- Ethercon RJ45 input and output for daisy-chain
- Remote control by INFINITO System Management Suite
- OLED DISPLAY and encoder with PUSH for easy onboard control
- DANTE audio streaming 24bit 48-96KHz
- Neutrik PowerCON IN and LINK power connectors
- Box in 18mm (0.7") birch plywood with anti-scratch varnish
- Two M20 stand sockets and 4 FBT aluminum handles, predisposed for 4 x 100mm (4") swivel casters
- Integrated mechanics compatible with VHA406ND and VHA112SND for ground stack configurations.
- Extremely robust grid with protective fabric
- Ideal for reinforcing and extending the low range of the VHA system, it can only be used with VHA406ND or as an infra if present also the VHA112SND

VHA118SN has the same characteristics of the VHA118SND model but does not include the Dante feature



# Horizon

## Vertical Horizontal Line Array



Model		VHA406ND / VHA406N	VHA112SND / VHA112SN	VHA118SND / VHA118SN
<b>GENERAL</b>				
Configuration	Way	active 2-way reflex line array module	active 1 way reflex subwoofer	1 Reflex
Low frequency woofer	Inch / mm	4 x 6,5" / 1,5" coil	1 x 12" / 3" coil	1x18 - 4 coil
High frequency driver	Inch / mm	1 x 1,4" / 2,5" coil	---	---
<b>ACOUSTICAL SPEC.</b>				
Frequency response	@-6dB	65Hz - 20kHz	50Hz - 120Hz	30Hz preset dependant
SPL max. (cont/peak)	dB	128 / 133	131,5 / 135	137 / 143 half-space
Dispersion	HxV	90°x20°	omnidirectional	omnidirectional
<b>AMPLIFIER</b>				
Built-in amplifier max. LF / HF	W	600 / 300	1200	2500
Built-in amplifier max. peak LF / HF	W	1200 / 600	2400	5000
Input impedance	kOhm	22	22	22
<b>INPUTS / OUTPUTS</b>				
Power supply connectors		PowerCon IN / OUT	PowerCon IN / OUT	PowerCon IN / OUT
Input connectors		XLR IN / OUT	XLR IN / OUT	2 x XLR with loop
Input / output NET		NET IN / NET OUT (EtherCon)	NET IN / NET OUT (EtherCon)	NET IN / NET OUT (EtherCon)
<b>POWER SUPPLY SPEC.</b>				
AC Power requirements	W	640	640	650
Power cord	mt. / Ft.	5 / 16,4	5 / 16,4	5 / 16,4
<b>MECHANICAL SPEC.</b>				
Material		Cabinet in baltic birch plywood - black polyurea finish	Cabinet in baltic birch plywood - black polyurea finish	Cabinet in baltic birch plywood - black polyurea finish
Handles		Integrated (1 x side)	Integrated (1 x side)	Integrated (3 x side)
Net Sizes (WxHxD)	mm / Inch	612x360x397	612x360x397	



# INFINITO CONTROL OF NETWORKED AUDIO

With the release of Infinito - System Management Suite, FBT redefines the concept of monitoring and remote control. Entirely developed by the FBT Research and Development team, Infinito is dedicated to next-generation products, such as active speakers, matrix processors, and processed power amplifiers. Infinito uses a TCP/IP protocol over Ethernet infrastructure, based on the open standard AES70 of the OCA Alliance.

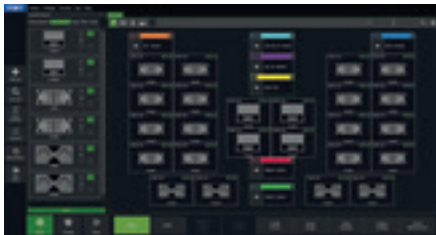
More than 100 devices can be connected on the same network, with automatic IP address assignment and cascade connection with hardware bypass function. Infinito promises accurate control and monitoring of the status of each connected device in real-time, providing the user with immediate feedback, also via touch-oriented graphical interface.

The multi-level control menu offers the possibility to focus on an overview of the entire system or on the parameters of a single device. The system guarantees two grouping processes, Basic and Advanced, that allow users to create groups of devices and control them with two different levels of detail, making it easy to assign and use the devices.

Additional flexibility is guaranteed by the innovative graphic interface of Infinito, based on three operating modes: SETUP, TUNING and SHOW. Each of these is protected by security passwords, to avoid unintentional parameter changes.



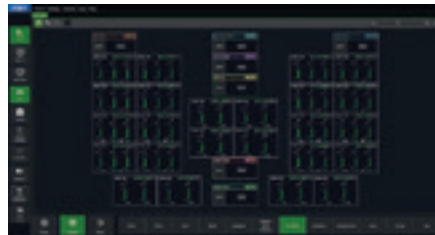
## INFINITO SYSTEM MANAGEMENT SUITE REDEFINES THE TRACKING OF AUDIO SYSTEMS THROUGH THREE MODALITIES



### SETUP IDEATION OF THE PROJECT

The software starts by default in the SETUP modality, the beginning of every new Infinito acoustic project that enables the system configuration.

- Scan and identify the connected devices
- Connect the devices to their related object in workspace
- Create and manage the BASIC and ADVANCED groups



### TUNING SETTING OF THE PARAMETERS

The summary panel of the entire system is customizable and it gives the user immediate feedbacks. The LIVE feature sends the setting to each device in real time.

- Full access to all acoustic parameters on any device and group
- Synch feature applied to every device
- Create and manage the scenes



### SHOW MANAGEMENT OF THE SYSTEM WHILE PERFORMINGS

Realtime monitoring of: internal sensors and status of connected devices, Vu-meters IN/OUT, parameters, groups and alerts.

- Password restriction to access devices and group parameters
- Tracking of each system variable
- Simplified display mode

Other important features include: night&day graphical setting, scene saving and recall.

Download the INFINITO SYSTEM MANAGEMENT SUITE software at the website [www.fbt.it](http://www.fbt.it)

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