





The **New MITUS Sound Reinforcement Speaker Series** is the true result of our experience and passion for excellence. This comprehensive range of both powered and passive line arrays, 2-way speakers, subwoofers and low profile stage monitors, delivers the finest sound reproduction for both live sound touring and permanent installations. The **MITUS 206LA** is the flagship model of the MITUS range: Featuring **2 x 6.5" woofers+ 1.4" HF driver** 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. With a gas-injected molded polypropylene enclosure, MITUS 206LA provides the highest mechanical and electronic engineering advancements from FBT.

MITUS 212FSA is a 2 x 12" compact and flyable subwoofer, which can extend the low frequencies of the MITUS 206LA when combined together in ground-stacked or flying arrays. Along with this model, FBT presents the **MITUS 118SA** and the **MITUS 121SA**, respectively **18" and 21" subwoofers**, which perfectly integrate for live or permanent applications where rich and high SPL bass frequencies need to be emphasized. All are constructed in multi ply Baltic birch plywood with a durable black paint finish. **MITUS 115A** and **MITUS 112A**: 2-way FOH speaker systems to provide for a wide range of applications, especially when matched along with the MITUS subs, guaranteeing stunning sound reproduction for any live sound event or permanent installations.



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



Mitus 212FSA
1200W
Mitus 212FS
1000W



Mitus 118SA
1200W
Mitus 118S
1000W



Musicians and Vocalists need superb sound fidelity monitoring to assure their best performances: 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 or dirt, prevents air loss through the input control panel that can cause fastidious noise, and it maximizes heat dissipation thanks to the air created by the excursion of the woofer, avoiding the use of a fan to cool the circuitry. All this has allowed the realization of a **3.2 Kg lightweight** power amp module that delivers **1200Wrms!**

- > **DSP** with A/D-D/A low noise converters providing crossover, equalization, system protection along with **8 selectable presets** to customize the sound program for various applications, or simply to taste of the user through an easy to use and efficient setup selection.

- > **Neutrik Powercon IN** and LINK OUT power receptacles
- > A wide range of accessories makes the MITUS range extremely flexible for live or permanent installations.
- > **New aluminum die-cast carrying handles** with rubber inserts for a secure and comfortable hold.
- > **Heavy duty metal grille** with anti-resonance spacers and exclusive synthetic cloth to protect the drivers from dust and moisture, without modifying the acoustic fidelity. Unlike widely used conventional foam linings, our FBT exclusive synthetic cloth will not break down or disintegrate over time.



Mitus 121SA
1200W
Mitus 121S
2000W



Mitus 112A
600W + 300W
Mitus 112
700W



Mitus 115A
600W + 300W
Mitus 115
800W



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



The **MITUS 206 LA** is a truly **innovative line array** speaker system enriched by FBT's highly skilled engineering and technological advancements. 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 206LA** cabinets along with multiple MITUS 212FSA subs for large concert events.

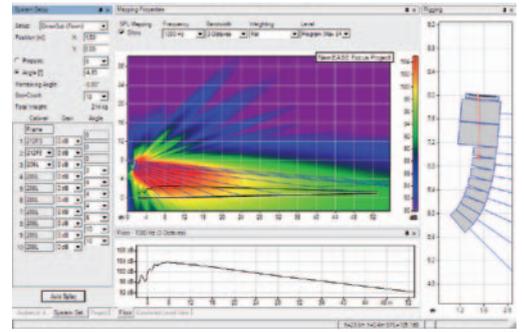
The cabinet features **2 x 6.5" B&C woofers** (with 1.7" high excursion voice coils) and a B&C neodymium magnet **HF compression driver with a 64 mm (2.5") voice coil** and a 35 mm (1.4") exit throat coupled to a waveguide.

The waveguide, optimized by **BEM** finite element simulation, offers 100° horizontal dispersion. Engineered to be perfectly integrated with the HF compression driver and provide an optimal load, it allows the dispersion of a flat acoustic wave to over 18kHz, while severely respecting the strictest physical criteria for the creation of an ideal cylindrical wave source. The **gas-injected polypropylene molded enclosure** weighs only 14Kg, permitting a great advantage for flying multiple arrayed cabinets for large events and installations where total system weight could

be a problem and make flying applications difficult.

The **MITUS 206 LA** cabinets **coupling hardware is internally integrated**

and allows the suspension of 12 arrays with a **10:1** safety factor. The cabinets can be easily angled from **0° to 10°, adjustable in 2° steps** by simple pin adjustments on the cabinets' integrated fly ware. The aesthetic elegance of the enclosures makes them ideal for permanent fixed installations where system appearance also is a factor. The Class D (**PWM**) amplifier module with switch mode power supply provides **600W RMS LF+300W RMS HF**. The amp module is contained inside an aluminum die-cast chassis, which also acts as the framework for suspending the system and angle adjustment inclination of the cabinets. The digital signal processor has **8 selectable equalization** presets making the MITUS 206LA easily configurable according to the array curve and the number of speaker units utilized. To increase low frequency SPL, the **MITUS 212FSA** active subwoofer is a perfect match for use with MITUS 206LA line arrays. This compact bass pass design subwoofer features a 1200W RMS Class D amplifier and delivers

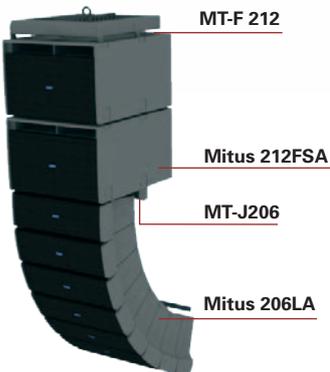


138dB SPL.

It is equipped with **2 x 12" B&C neodymium** magnet woofers custom manufactured for FBT. The MT-J206 joint bar provides for direct connection to the MITUS 206LA enclosures and allows for the subs integration and placement on top of MITUS 206LA line arrays, or for a ground stack configuration for stacking the arrays on top of the sub(s).

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

Through use of the **FBT aiming software program for PC** it is possible to simulate the SPL distribution and frequency response of the listening area; this user-friendly application is a valid tool to determinate the ideal system configuration for any venue.





Mitus 206LA

600W + 300W - 134dB SPL
Active precision coverage
vertical array

- > **2 x 6.5"** (165 mm) **B&C neodymium** woofers with **1.7"** (44 mm) coil
- > **1.4"** (36 mm) exit **B&C neodymium** driver with **2.5"** (64 mm) coil
- > Frequency response from 68Hz to 20KHz
- > Latest class D built-in amplifiers, **600Wrms to the LF and 300Wrms to the HF** with switch mode power supply
- > **DSP on-board** with **8 presets, +/- 5db HF level** control for accurate amplitude shading
- > Control panel with XLR input and link, volume, presets, HF level, HP-filter, ground-lift
- > **100°** horizontal waveguide with very low distortion and near flat wavefront up to 18Khz
- > High impact **polypropylene gas-injected enclosure** with integrated rigging hardware adjustable with **0° to 10°** angle between cabinets at **2° step**



- > Ideal for small to medium sized application, from single pole mounted loudspeakers with 100°H x 10°V coverage to multiple cabinet full sized line array, the MITUS 206LA maybe used also in outdoor applications where the system is not directly exposed to the elements
- > Wide range of hardware accessories for flying and ground stacked configurations
- > **Very lightweight**, only 14Kg



Mitus 206L

500W + 150W/16ohm
129dB SPL LF/133dB SPL HF
Precision coverage vertical
array

- > **Passive version**, recommended amplifier of

500Wrms / 16ohm LF and
150 Wrms / 16ohm HF

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





Mitus 212FSA

1200W - 138dB SPL
Processed Flyable Active Subwoofer

- > **Compact vented band pass subwoofer** 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 **1200WRMS**
- > Switch mode power supply



- > **DSP with 8 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 paint
- > Low frequency extension cabinet for the MITUS 206LA line array for flying or ground stacked configurations.
- > M20 top mount stand socket



Mitus 212FS

1000W -138dB SPL
Flyable Passive Subwoofer

- > **Passive version**, recommended amplifier of **1000Wrms / 8ohm**
- > Neutrik Speakon NL- 4MDV connectors IN & LINK OUT
- > External digital processor required



Mitus 118SA

1200W - 139dB SPL
Processed Active Subwoofer

- > **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 **1200WRMS**
- > Switch mode power supply
- > **DSP with 8 presets**, cardioid and infra configurations, delay
- > Control panel with XLR input and link, volume, presets,



- delay, phase 0°-180°, ground-lift
- > 18 mm (3/4") **birch plywood enclosure**, scratch resistant black paint
- > **Eight M10 fly points**, M20 top mount stand socket and two FBT design aluminum handles
- > Optional 4 swivel-mount casters 80 mm (3.15") on request
- > Perfect low-frequency extension for the MITUS range and an ideal companion for the MITUS 206LA line array for ground stack applications with optional MT-B206 metal base

Mitus 118S

1000W - 139dB SPL
Flyable Passive Subwoofer

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



Mitus 121SA

1200W - 137dB SPL
Processed Active Subwoofer

- > **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 **1200Wrms**
- > **DSP with 8 presets**, cardioid and infra configurations, delay
- > Control panel with XLR input and link, volume, presets, delay, phase 0°-180°, ground-lift
- > 18 mm (3/4") **birch plywood enclosure** with large reflex vent free from turbulence, scratch resistant black paint
- > M20 Stand socket and **six FBT design aluminium handles**
- > Optional 4 swivel-mount casters 80 mm (3.15") on request
- > Perfect low-frequency extension

for the MITUS range and ideal companion for the MITUS 206LA line array for ground stack applications with optional MT-B206 metal base

Mitus 121S

2000W - 139dB SPL
Flyable Passive Subwoofer

- > **Passive version**, recommended amplifier of **2000Wrms / 4ohm**
- > Neutrik Speakon NL- 4MDV connectors IN & LINK OUT
- > External digital processor required



Mitus 112A

600W + 300W
133dB SPL
Processed Active Speaker

- > 2-way, bi-amplified, bass-reflex design
- > **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 with **80°H x 50°V** rotatable horn
- > **Class D** amplifiers, **600WRMS to the LF and 300WRMS to the HF**, switch mode power

- supply
- > Frequency response from 50Hz to 20KHz
- > **DSP with 8 eq presets**
- > Control panel with XLR input and link, volume, presets, HP-filter, ground-lift
- > 15 mm (5/8") **birch plywood enclosure**, scratch resistant black paint finish
- > **Eight M10 fly points**, 35 mm (1.38") speaker stand socket and two FBT design aluminium handles
- > Ideal for live sound reinforcement applications as both front of house main PA, and as a **stage monitor**. Also suited for permanent installations
- > **Very lightweight**, only 20Kg

Mitus 112

700W/8ohm - 131dB SPL
Passive reinforcement speaker

- > **Passive version**, recommended amplifier of **700Wrms / 8ohm**
- > Hi-grade passive internal crossover featuring "soft-trip" circuitry protection of LF and HF transducers
- > Speakon NL - 4MDV connectors IN & LINK OUT



Mitus 115A

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

- > 2-way, bi-amplified, bass-reflex design
- > **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 with **80°H x 50°V** rotatable horn
- > **Class D** built-in amplifiers, **600WRMS to the LF and 300WRMS to the HF**, switch mode power supply
- > Frequency response from 46Hz to 20KHz

- DSP with 8 eq presets**
- > Control panel with XLR input and link, volume, presets, HP-filter, ground-lift
- > 15 mm (5/8") **birch plywood enclosure**, scratch resistant black paint finish
- > **Eight M10 fly points**, 35 mm (1.38") speaker stand socket and two FBT design aluminium handles
- > Ideal for live sound reinforcement applications as front of house main PA. Also suited for permanent installations
- > **Very lightweight**, only 28Kg



Mitus 115

800W/8ohm- 132dB SPL
Passive reinforcement speaker

- > **Passive version**, recommended amplifier of **800Wrms / 8ohm**
- > Hi-grade passive internal crossover featuring "soft-trip" circuitry protection of LF and HF
- > Speakon NL - 4MDV connectors IN & LINK OUT



Mitus 210MA

600W + 300W - 134dB SPL
Processed Active Stage Monitor

- > 2-way bi-amplified, bass-reflex design with coaxial driver
- > **1x250 mm (1 x 10") B&C custom neodymium** magnet **coaxial** speaker with 64 mm (2,5 ") voice coil and **36 mm (1.4")** exit titanium **compression driver with 64 mm (2.5")** voice coil, 70° conical dispersion
- > **B&C custom 250 mm (10") neodymium** magnet woofer with 64 mm (2.5") voice coil
- > Frequency response from 60Hz to 20KHz
- > **Class D** built-in amplifiers, **600WRMS to the LF and**

- 300WRMS 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
- > 15 mm (5/8") **birch plywood enclosure**, scratch resistant black 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



Mitus 210M

800W/8ohm- 132dB SPL
Passive Stage Monitor

- > **Passive version**, recommended amplifier of **800Wrms / 8ohm**
- > Hi-grade passive internal crossover featuring "soft-trip" circuitry protection of LF and HF
- > Speakon NL - 4MDV connectors IN & LINK OUT





Model		206LA	212FSA	118SA	121SA	112A	115A	210MA
Configuration way	way	2	1	1	1	2	2	2
Built-in amplifier cont. rms LF/HF	W	400/200	800	800	800	400/200	400/200	400/200
Built-in amplifier max. rms LF/HF	W	600/300	1200	1200	1200	600/300	600/300	600/300
Built-in amplifier max. peak LF/HF	W	1200/600	2400	2400	2400	1200/600	1200/600	1200/600
Frequency response	@-6dB	68Hz - 20KHz	45Hz - 120Hz	36Hz - 100Hz	29Hz - 100Hz	50Hz - 20KHz	46Hz - 20KHz	60Hz - 20KHz
Low frequency woofer	inch	2x6.5 - 1.7 coil - neodymium	2 x 12 - 3 coil - neodymium	1x18- 3 coil - neodymium	1x21 - 4.5 coil - neodymium	1x12 - 3 coil - neodymium	1x15 - 3 coil - neodymium	2x10 - 2.5 coil - neodymium
High frequency driver	inch	1 x 1.4 - 2.5 coil - neodymium	-	-	-	1 x 1 - 1.7 coil	1 x 1 - 1.7 coil	1 x 1.4 - 2.5 coil - neodymium- coax
Maximum SPL cont/peak	dB	125 / 134	134 / 138 half-space	135 / 139 half-space	133 / 137 half-space	126 / 133	127 / 133	127 / 134
Dispersion	H x V	100° x 10° max dependant upon n° of element	omnidirectional	omnidirectional	omnidirectional	80° x 50°	80° x 50°	70° - conical
Input impedance	kOhm	22	22	22	22	22	22	22
Crossover frequency	kHz	1,2	preset dependant	preset dependant	preset dependant	1,5	1,5	1,2
AC Power requirements	VA	640	640	640	640	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
Power cord	m	5	5	5	5	5	5	5
Net dimensions (WxHxD)	mm	574x220x383 22,6x8,7x15,1	574x420x660 22,6x16,5x26	574x594x730 22,6x23,4x28,7	590x780x760 23,2x30,7x29,9	380x660x380 15x26x15	425x750x421 16,7x29,5x16,6	574x290x402 22,6x11,4x15,8
Net weight	kg	14 / 30,8	36,5 / 80,5	47 / 103,6	58 / 127,8	20 / 45	28 / 61,7	19 / 41,9
Transport dimensions(WxHxD)	mm	655x455x280 25,8x17,9x11	780x710x520 30,7x28x20,5	460x775x765 18,1x30,5x30,1	805x650x930 31,7x25,6x36,6	485x495x750 19,1x19,5x29,5	550x560x860 21,7x22,1x33,9	890x390x510 35x15,4x20,1
Transport weight	kg	15,7 / 34,6	41 / 90,4	56,2 / 123,9	66,5 / 146,6	22 / 48,5	30,5 / 67,3	21,1 / 46,5

Model		206L	212FS	118S	121S	112	115	210M
Configuration	way	2	1	1	1	2	2	2
Recommended amplifier	W rms	500LF/150HF	1000	1000	2000	700	800	800
Long term power	W	250LF/70HF	500	500	1000	350	400	400
Short term power IEC 268-5	W	1000LF/300HF	2000	2000	3600	1200	1400	1600
Nominal impedance	Ohm	16LF / 16HF	8	4	4	8 (8 LF/8 HF)	8 (8 LF/8 HF)	8 (8 LF/8 HF)
Frequency response	@-6dB	75Hz - 20KHz	50Hz - 120Hz	36Hz - 400Hz	29Hz - 250Hz	55Hz - 18KHz	50Hz - 18KHz	65Hz - 20KHz
Low frequency woofer	inch	2x6.5 - 1.7 coil - neodymium	2 x 12 - 3 coil - neodymium	1x18- 3 coil - neodymium	1x21 - 4.5 coil - neodymium	1x12 - 3 coil - neodymium	1x15 - 3 coil - neodymium	2x10 - 2.5 coil - neodymium
High frequency driver	inch	1 x 1.4 - 2.5 coil - neodymium	-	-	-	1 x 1 - 1.7 coil	1 x 1 - 1.7 coil	1 x 1.4 - 2.5 coil
Sensitivity (@1W/1m)	dB	97LF / 108HF	99	101	99	99	100	100
Maximum SPL cont/peak	dB	125/129LF - 129/133HF	134/138 half-space	135 / 138 half-space	136 / 139 half-space	127 / 131	128 / 132	128 / 132
Dispersion	H x V	100° x 10° max dependant upon n° of element	omnidirectional	omnidirectional	omnidirectional	80° x 50°	80° x 50°	70° conical
Crossover frequency	kHz	1,2	external active	external active	external active	1,5	1,5	1.2
Recommended HP filter		65hz - 24dboct	40hz - 24dboct	32hz - 24dboct	25hz - 24dboct	40hz - 24dboct	40hz - 24dboct	50hz - 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	Digital management with FBT presets	-
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	574x220x383 22,6x8,7x15,1	574x420x660 22,6x16,5x26	574x594x730 22,6x23,4x28,7	590x780x760 23,2x30,7x29,9	380x660x380 15x26x15	425x750x421 16,7x29,5x16,6	574x290x402 22,6x11,4x15,8
Net weight	kg/lb	13,5 / 29,8	35 / 77,2	45 / 99,2	56 / 123,5	18 / 39,7	26 / 57,3	17 / 37,5
Transport dimensions (WxHxD)	mm inch	655x455x280 25,8x17,9x11	780x710x520 30,7x28x20,5	460x775x765 18,1x30,5x30,1	805x650x930 31,7x25,6x36,6	485x495x750 19,1x19,5x29,5	550x560x860 21,7x22,1x33,9	890x390x510 35x15,4x20,1
Transport weight	kg/lb	15,2 / 33,5	39,5 / 87	54,2 / 119,5	64,5 / 142,2	20 / 44,1	28,5 / 62,8	19,1 / 42,1

