



MITUS
206LA

APPLICATIONS

- Permanent installations in:
Theatres, Concert Halls, Clubs, Places of Worship,
Conference Rooms, Indoor Sports, Arenas & Stadiums
- Sound reinforcement for live events:
Touring, Bands, Orchestras

FEATURES

- High impact polypropylene gas-injected enclosure
- Class D amplifiers, 600W RMS to the LF, 300W RMS to the HF
- 2 x 6.5" B&C neodymium woofers with 1.7" coil
- 1.4" exit B&C neodymium driver with 2.5" coil
- DSP on board with 8 preset
- 100° horizontal waveguide
- Input panel with XLR «in&link», volume, preset, HF level, HP filter, GND lift switch
- High SPL capability: 134dB
- Integrated rigging hardware
- Very lightweight: 14kg
- Completely Manufactured in Italy

ACTIVE PRECISION COVERAGE VERTICAL ARRAY



PRODUCT DESCRIPTION

The FBT MITUS 206LA speaker features lightweight, yet rugged gas injected molded polypropylene cabinet construction. The FBT MITUS 206LA is a two-way design incorporating 2 x 6.5" B&C neodymium woofers with 1.7" voice coil and 1.4" exit B&C neodymium driver with 2.5" voice coil. The modularity of the FBT MITUS 206LA makes it extremely flexible for a wide range of applications, from a small 2 cabinet P.A. system to an elaborate line array system consisting of up to 12 MITUS 206LA cabinets along with multiple FBT MITUS 212FSA subs for large concert events. The FBT MITUS 206LA shall meet the following performance criteria: Frequency response of 68Hz to 20kHz, Maximum SPL of 134dB, class D amplifier module that provides 600W RMS to the LF and 300W RMS to the HF. The waveguide, optimized by BEM finite element simulation, offers 100° horizontal dispersion; engineered to be perfectly integrated with the HF compression driver it allows the dispersion of a flat acoustic wave to over 18kHz. The MITUS 206LA cabinets coupling hardware is internally integrated and allows the suspension of 12 arrays with a 10:1 safety factor. The front shall be protected by a heavy duty metal grille with anti-resonance spacers and exclusive synthetic cloth to protect the drivers. The FBT MITUS 206LA provides a wide range of hardware accessories for flying and ground stacked configurations.

ELECTRICAL PERFORMANCE

System Type	2-way
Built-in Amplifiers LF / HF *	cont.: 400W RMS / 200W RMS max.: 600W RMS / 300W RMS peak.: 1200W / 600W
Frequency Response @ -6dB	68Hz - 20kHz
Input Impedance	22kOhm
Maximum SPL (cont. / peak) **	125dB / 134dB
Dispersion	100° x 10° max dependant upon n° of elements
Crossover Frequency	1.2 kHz
AC Power requirement	640 VA

PHYSICAL

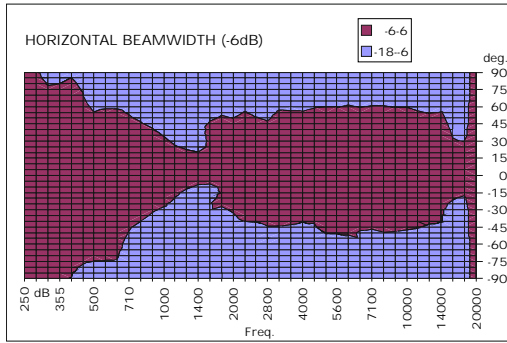
Low Frequency Woofer	2 x 6.5" - 1.7" coil
High Frequency Driver	1 x 1.4" - 2.5" coil
Input Connectors	XLR with loop
Net Dimensions (WxHxD)	22.6" x 8.7" x 15.1" 574 x 220 x 383mm
Shipping Dimensions (WxHxD)	25.98" x 11.02" x 18.11" 660 x 280 x 460mm
Net Weight	30.8 lbs / 14 kg
Shipping Weight	34.6 lbs / 15.7 kg
Enclosure Material	polypropylene
Power cord	5 mt.

* CONT.: 500mS, rms power on nominal speaker impedance
MAX.: 2mS burst, rms power on nominal speaker impedance
MAX PEAK: based on max peak output voltage and nominal speaker impedance

** CONT. SPL: free space, based on continuous power amp rating and LF transducer average sensitivity data, 125mS time average
PEAK SPL: free space, based on max peak power amp rating and system peak sensitivity, 10mS time average

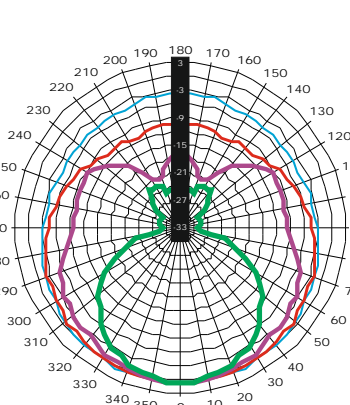


DIAGRAMS



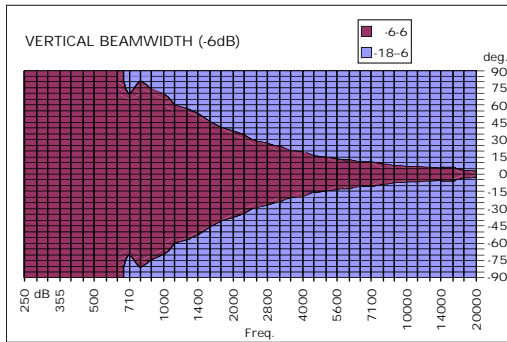
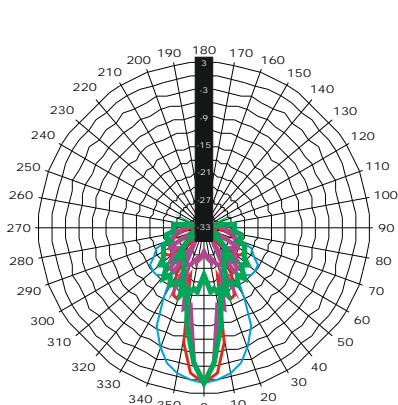
VERTICAL POLAR DIAGRAM

Legend: 250 (cyan), 500 (orange), 1000 (purple), 2000 (green)



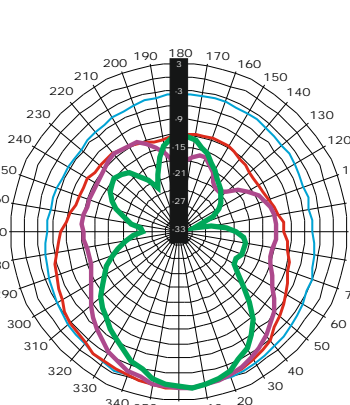
VERTICAL POLAR DIAGRAM

Legend: 4000 (cyan), 8000 (orange), 12500 (purple), 16000 (green)



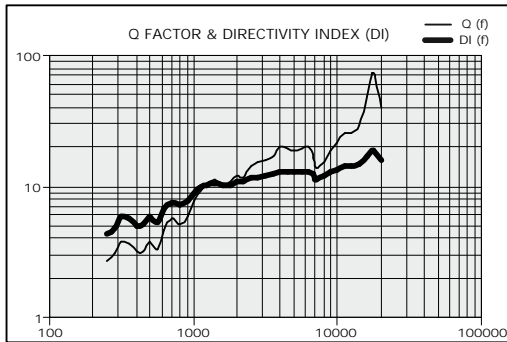
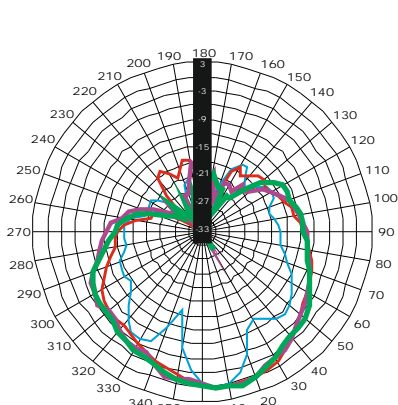
HORIZONTAL POLAR DIAGRAM

Legend: 250 (cyan), 500 (orange), 1000 (purple), 2000 (green)



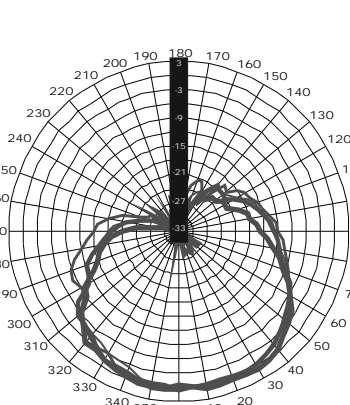
HORIZONTAL POLAR DIAGRAM

Legend: 1400 (cyan), 2000 (orange), 2500 (purple), 3150 (green)



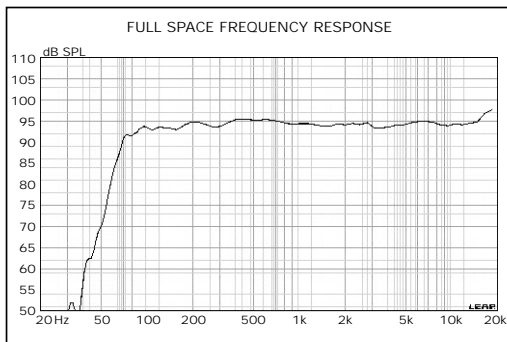
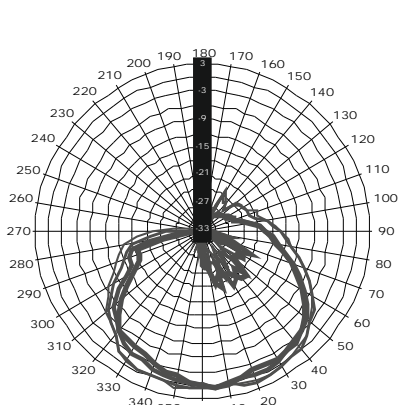
HORIZONTAL POLAR DIAGRAM

Legend: 4000 (cyan), 5000 (orange), 6300 (purple), 8000 (green)



HORIZONTAL POLAR DIAGRAM

Legend: 9000 (cyan), 10000 (orange), 12500 (purple), 14000 (green)

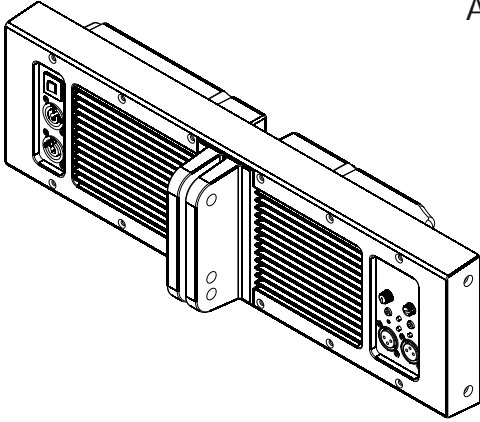




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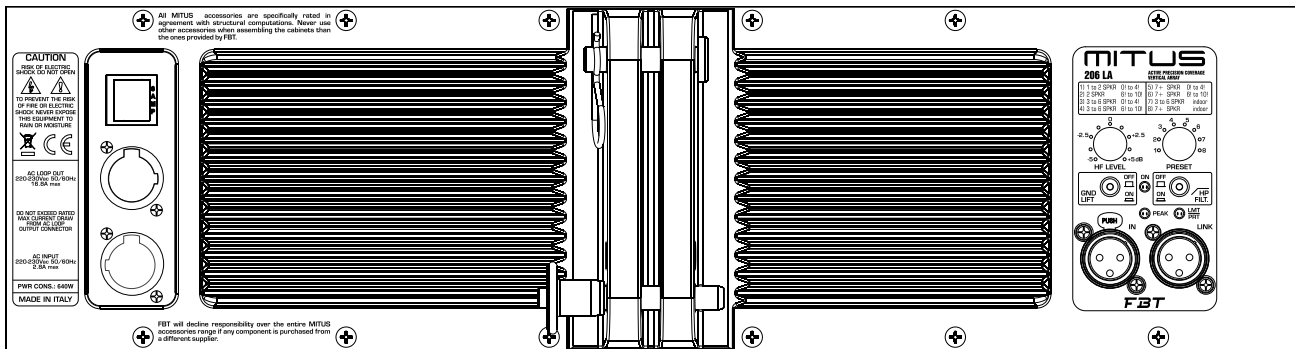
AMPLIFIER MODULE



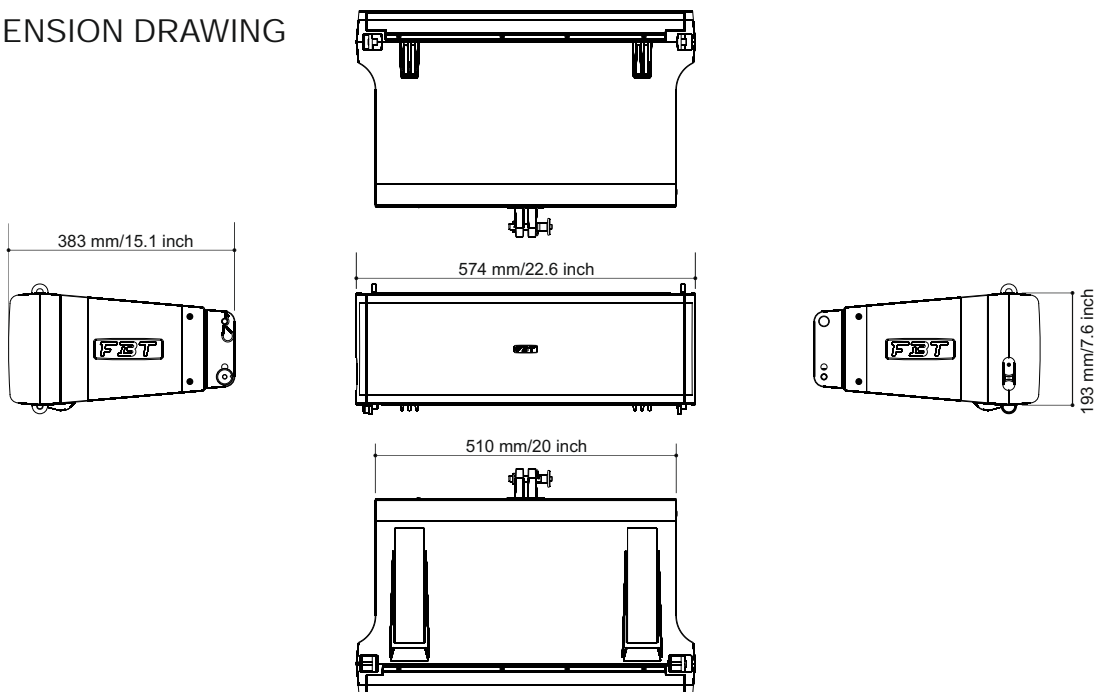
The FBT MITUS 206LA provides a high-efficiency Class D power amplifier module with switching power supply enclosed in a die-cast aluminium chassis.

This permits to protect the electronics against dust, avoid any air loss through the controls – which would cause annoying noises- and maximize heat loss by using the woofer ventilation instead of a cooling fan. The module works also as a bearing structure for flying the units and permits adjusting the inclination angle.

CONNECTION PANEL



DIMENSION DRAWING

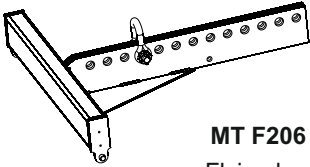




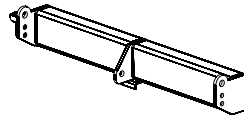
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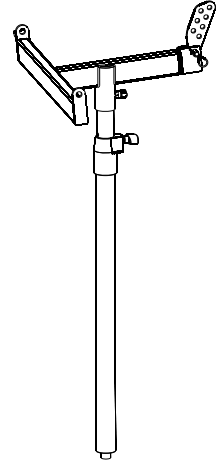
ACCESSORIES



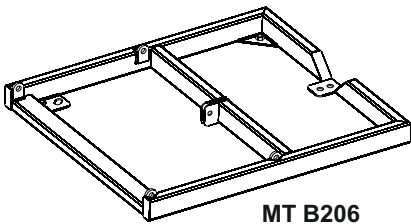
MT F206
Flying bar
MITUS 206LA



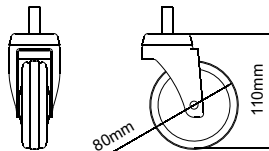
MT J206
Joint bar
MITUS 212FSA
with 206LA



MT S206
Cluster bracket with speaker pole
for 2 x MITUS 206LA

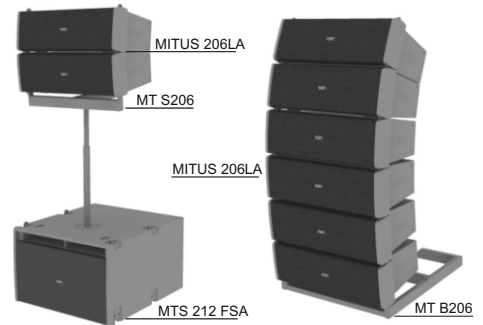
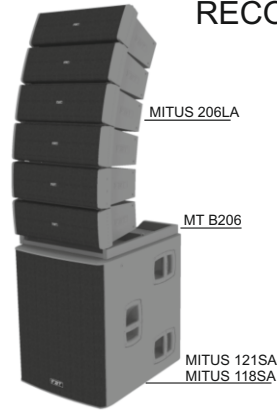
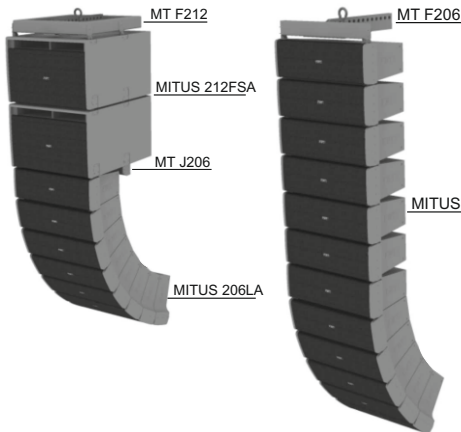


MT B206
Metal base to ground
MITUS 206LA array or stack
on MITUS 118SA or MITUS 121SA

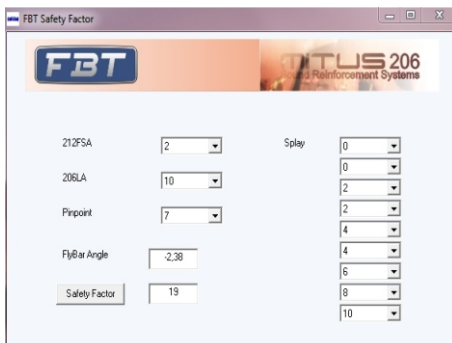


Swivel wheel for easy
transport when the metal base
lays on the ground

RECOMMENDED CONFIGURATIONS



MITUS 206L_FLYING



FBT will place at disposal a software called MITUS 206L_FLYING wich helps calculating the safety factor of the weakest point of MITUS 206LA - MITUS 212FSA unit suspension system according to the used configuration and a software called EASE FOCUS that permits an accurate simulation of the mechanical and acoustic behaviour of the MITUS series line array system.

EASE FOCUS

