

Formula F212

Four Way Line Array Element

F212 is a four way Line Array enclosure especially designed to be combined with Formula Sub F221 that complete its low frequency reproduction down to 22Hz. The double bi-wired 12in. in hybrid configuration, both reflex and horn loaded, are capable of providing a great quantity of extended and more precise Low-Mid frequencies reproduction such as a Full Range stand alone system. F212 can be used in every kind of applications where deepest low frequencies are not required. The Medium range section is equipped with a pair of horn loaded 6.5in. giving a wide operating range from 350Hz up to 3KHz. Focusing the medium frequency range in a dedicated unit, F212, is capable to reduce the unnecessary conflicts between the crossover points maintaining and maximizing the vocal intelligibility for a great detailed sound reproduction where most of the program is located.

The Mid-Hi section is driven by a proprietary patent pending double parabolic waveguide combined with three 1in. compression drivers that contain a high energy neodymium magnet system and a unique annular ring diaphragm. The ring diaphragm works similar as a wound long ribbon diaphragm providing linear frequency response up to 20 kHz. The unique double parabolic phase plug provides a coherent planar wave front without internal diffraction allows perfect acoustical coupling of individual units to create virtually continuous line source giving a dispersion of 90° on the horizontal axis and 10° on the vertical axis.

The Flybar Kit allows the systems to be flown or ground stacked. Significant building criteria, together with the employment of the latest technologies and innovative materials, are able to guarantee great reliability and longevity. The anti-scratch Polyurea final paint makes the cabinet extremely resistant to atmospheric agents. It can be matched mainly with Formula Sub F221 and with all the most challenging subwoofer systems of the VH Subwoofer range: VH Sub118/218R, VH Infra218R, VH Sub218H, VH Sub121H. It can be widely employed in Large Open Spaces, Arenas, Stadiums, Theaters, Conference Halls, Concert Halls and Large Scale Discos.

Applications: Touring || Theatre || Congress || Club



CONFIGURATION

	Transducers	Loading
LMF	Dual 12in. (32cm) woofer	Horn loaded
MF	2 x 6.5in. midrange	Horn loaded
HF	3 x 1in. comp.driver	Horn loaded planar wave guide

Operating Mode

Amplifier Channels	External Signal Processing
4: LMF1, LMF2, MF, HF	xta DP 448 or Armonia Pro Audio

PERFORMANCE

Operating Range	65Hz to 21kHz +/-4 dB	Crossover points
LMF		65Hz - 350Hz
MF		350Hz - 3kHz
HF		3kHz - 21kHz

Nominal Bandwidth

H Coverage	90 deg. @ -6dB point		
V Coverage	10 deg. @ -6dB point (Depending on Array units)		
Axial Sensitivity	(whole space SPL)	Max SPL cont.	Max SPL peak
LMF	106dB 2.83V@1mt	139dB	145dB
MF	109dB 2.83V@1mt	135dB	142dB
HF	116,5dB 2.83V@1mt	140dB	146dB

Input Impedance

	Nominal
LMF	8 + 8 ohm (2 x 8 ohm Low-Mid bi-wired woofer)
MF	8 ohm (2 x 16 ohm Pure Midrange paralleled)
HF	5,3 ohm (3 x 16 ohm comp. driver paralleled)

Rated Power

	Recommended System High Pass Filter >> 50Hz, 24 dB/octave Suggested System High Pass Filter >> 65Hz, 24 dB/octave
LMF	LMF1 + LMF2 2000 Watts AES (4000 Watts Program)
MF	360 Watts AES (720 Watts Program)
HF	240 Watts AES (480 Watts Program)

Dimensions	W,H,D, (mm/in.)	In & Out Connections	Shell Construction
	Weight (Kg/lbs)	Description	Description
Width (Front)	1254mm/49.37"	Two Neutrik NL8 speakON	5 deg. trapezoidal
Width (Rear)	1254mm/49.37"	paralleled connectors	Multi-laminate
Height (Front)	444mm/17.48"	Pins 1+1- LMF1	birch ply 18/24mm
Height (Rear)	336mm/13.22"	Pins 2+2- MF	Polyurea coated
Depth	630mm/24.80"	Pins 3+3- HF	paint
Weight	90Kg/198lbs	Pins 4+4- LMF2	Perforated black
			protection grille
			with transparent
			acoustic foam

>>> Features

- >>> Four Way Line Array Element
- >>> All Horn Loaded Design
- >>> Very high performances
- >>> Compact arrayable trapezoid cabinet
- >>> Floor & Sub Stacking possibility
- >>> Proprietary Integrated fast rigging (1 deg. step)
- >>> Single unit Skate
- >>> Four units Dolly
- >>> Nylon Protection Bag
- >>> Anti-scratch PCP Polyurea coated paint

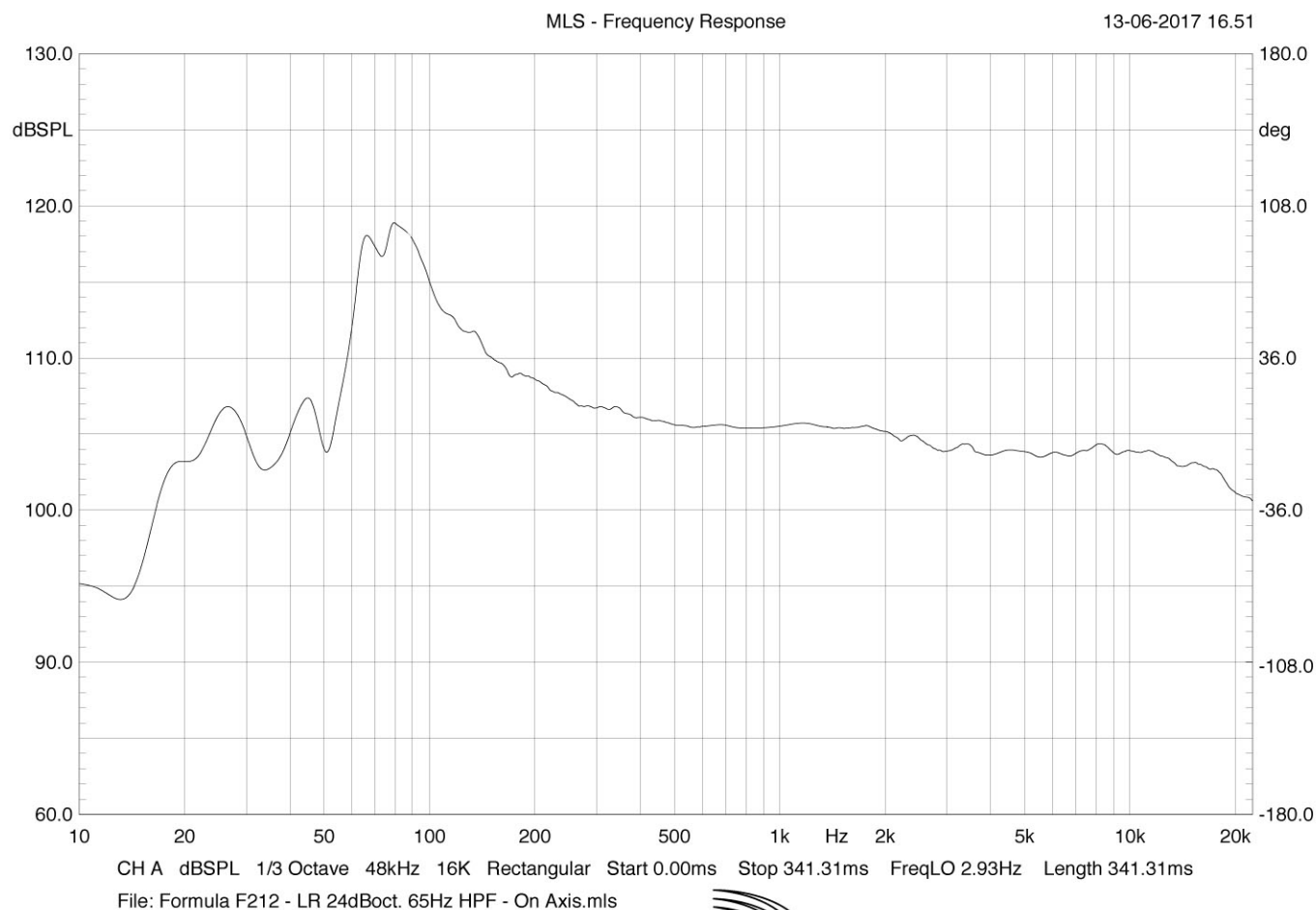
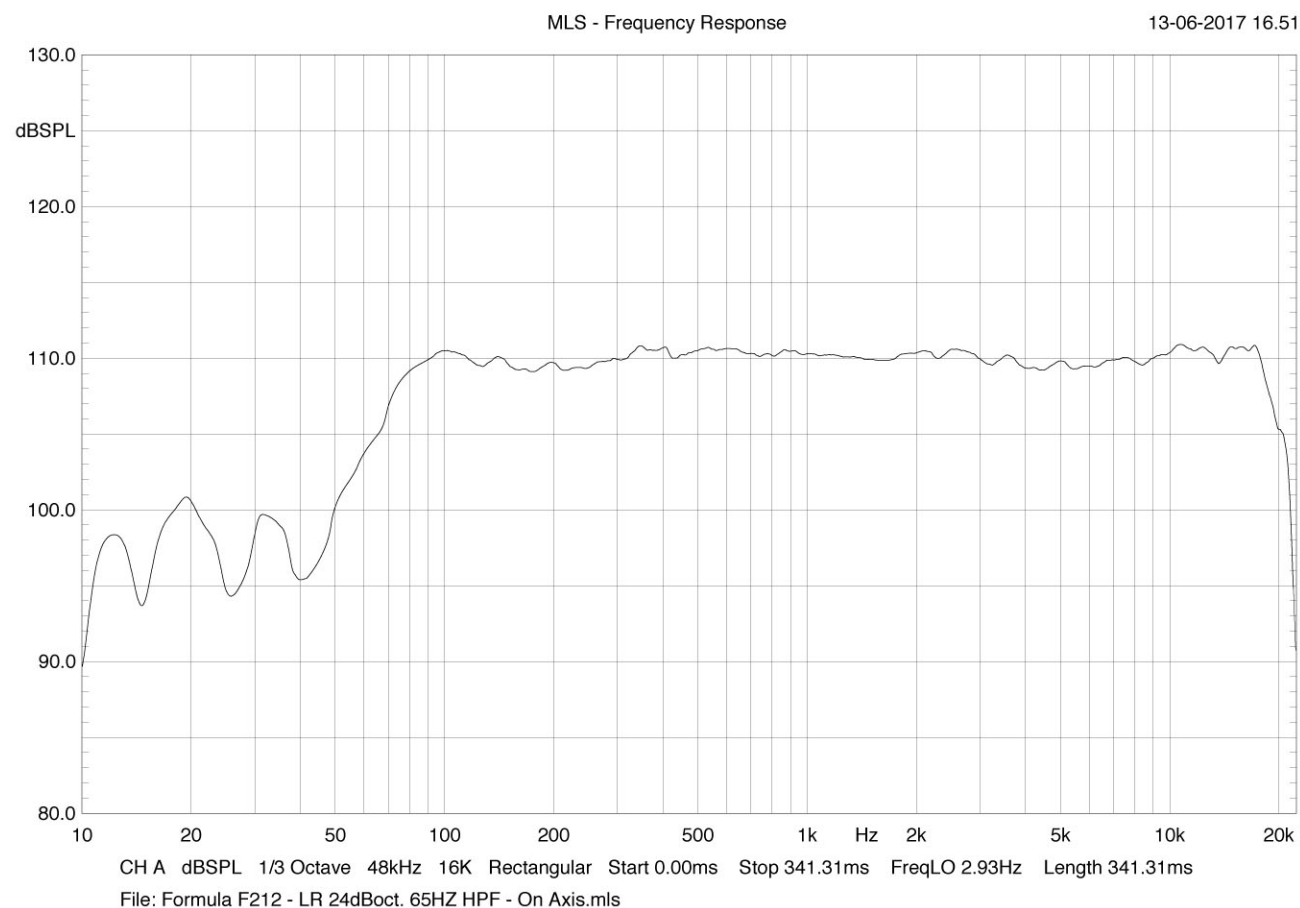


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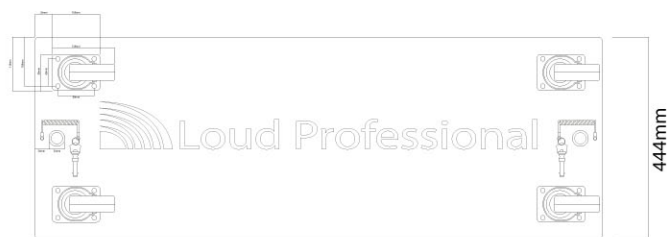
Frequency Response

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Drawings

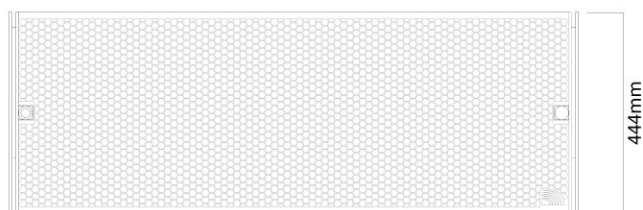
Single unit Skate
Top view



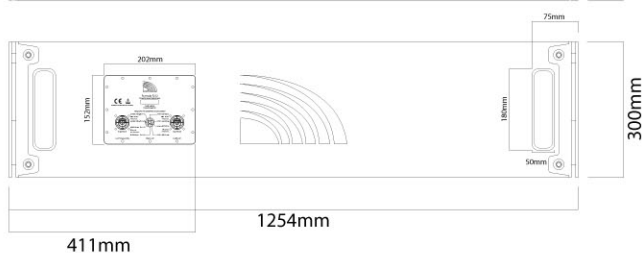
Single unit Skate
Side view



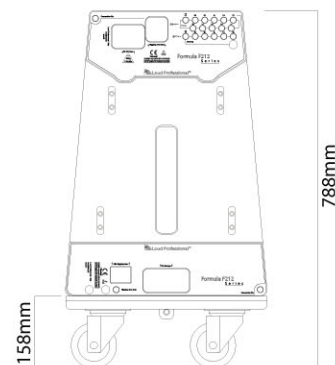
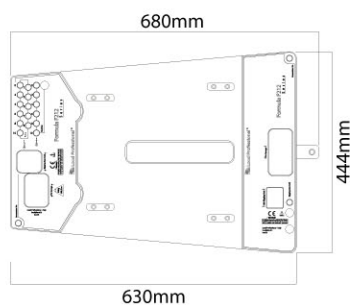
Front View



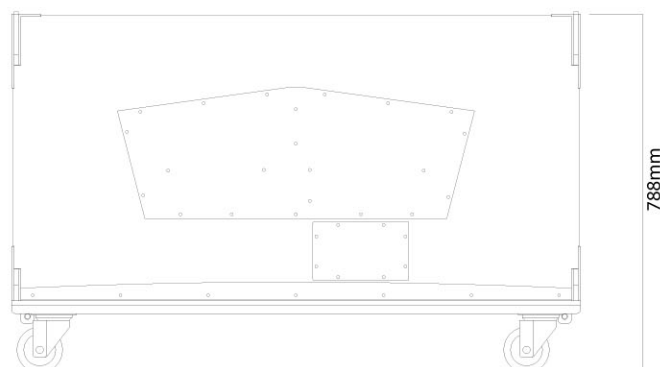
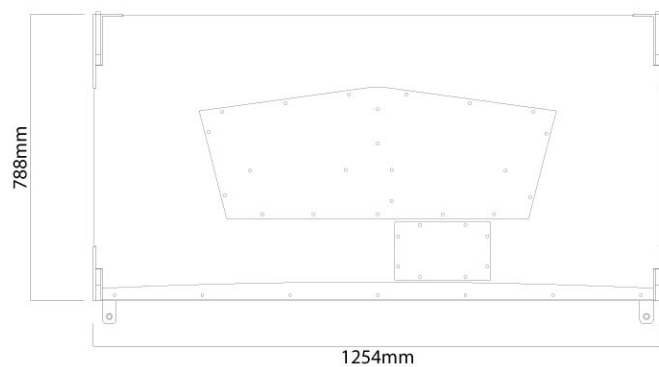
Rear view



Side view



Top/Bottom view



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