

Waveburg
CUSTOM ACOUSTIC DESIGN **PRO**®
By syncrotek



www.waveburg.com

syncrotek 
HOLDING



DESIGN PHILOSOPHY...

We at Waveburg, believe that human-ears deserve a lot more than 'Typical PA Sound'.

We also believe that sound systems, whether in small clubs or in large indoor and outdoor venues, shouldn't sound any less than high-end loudspeakers used at home or in the studio.



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A WORD FROM THE CEO...

Leading Syncrotek Holding along with our arsenal of experts, including Award-winning Electro-Acoustic engineers, Live Sound Engineers, Award-winning Light Designers, Architects, Creative Designers, Touring / Events experts, World Class Musicians, and System Integration engineers was a lifelong journey of joy, challenges and fulfillment. Only with such a wide spectrum of expertise, we've reached our objectives of world class audio/visual products and services that place us in a constant test of our limits and the extents of the available technology. We at Waveburg, believe that human ears deserve a lot more than "Typical PA Sound". We also believe that sound system, whether in small clubs or in large indoor and outdoor venues, shouldn't sound any less than high-end loudspeakers used at home or in the studio.

With our research, I believe that we will change many fundamental beliefs in the industry. Solely since the beginning of 2020, we've developed 6 new patents based on hydrodynamics for high dispersion and high-frequency models. The Shiva project and the Hydracoustics research studies we are conducting will allow new horizons in higher end and lower-cost alternatives to stereo-type speaker systems. My decision to defy the market patterns was internally supported by my courageous creative and technical teams. We look forward to a very fruitful future for our research and design challenges. Thank You to my entire team and our partners, who never fail to surprise me. What a ride!...

Mohamed Gab

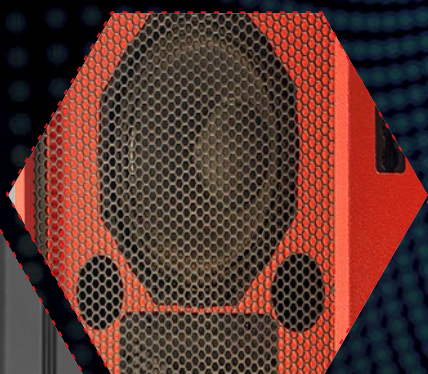




1 TOURING



2 INSTALLATION



3 CUSTOM MADE

OUR PRODUCTS

TOURING 1





LA-8
Dual 8" line-array with Wooden
Hand-Made Waveguide >>



LA-10
Dual 8" line-array with Wooden
Hand-Made Waveguide >>



HL-118S LTR
18" Horn Loaded / Direct Radiation
subwoofer Very High Efficiency >>



WS-115S
Compact 15" High Output
Subwoofer >>



WS-118S
Compact 18" High Output
Subwoofer >>



WS-218S
Dual 18" High Output
Subwoofer >>



MCX-12
High Power Coaxial 12"
Stage Monitor >>



MCX-15
High Power Coaxial 15"
Stage Monitor >>



i-12
High Efficiency Multi-purpose
2 way Loudspeaker 12" >>



i-15
High Efficiency Multi-purpose
2 way Loudspeaker 15" >>

LA-8 LA-10

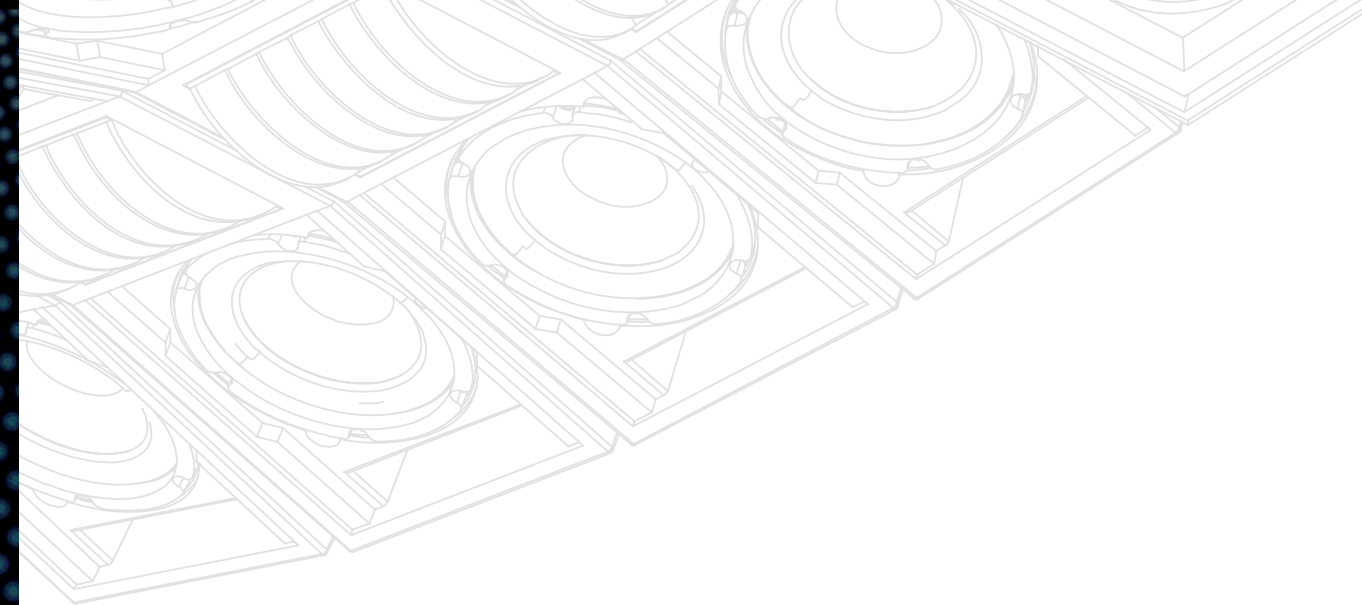


COMPACT LINE ARRAY SYSTEMS

When Waveburg acoustics decided to build and design this compact line array, it had two objectives in mind.

- 1- *Staying away from harsh professional stereotype sound quality*
- 2- *Best and most natural possible reproduction of instruments and human tonal range at the highest possible SPL with minimum Harmonic distortion.*

This approach to design has ruled out several elements of which, using aluminum or industrial material in the construction of the high-frequency horns and waveguides. If you ever listened to a metallic or plastic violin, you will instantly realize the reason. Carefully designed wooden waveguides based on the mechanical Bessel function has provided the LA8 with a horizontal dispersion of 120 degrees +/- 5 .5 dB.



Most impressive is the clarity and HI-FI quality of sound that resembles audiophile equipment. Along with the angles at which the 8-inch drivers are placed on the front baffle the overall horizontal dispersion is way beyond what is expected from a compact line array.

The total group delay of the Midbass drivers is 8 ms at 1.2 kHz, which is way below the norm of a pro application. This is due to the placement and the large Helmholtz resonator exit surface. Coupling of the Midbass drivers to the cabinet went through a long process of reverse engineering to achieve the minimum possible Ratio of vent acceleration and velocity to driver acceleration and velocity. This, in turn, minimizes the vent noise and sound coloration associated with bass reflex cabinets.

Overall speed was a primary target in the design process, this was achieved by tuning the Q of the cabinet to provide a very small cone excursion, well below the Xmax of the high-efficiency 8-inch drivers.



LA-8



COMPACT LINE ARRAY SYSTEM

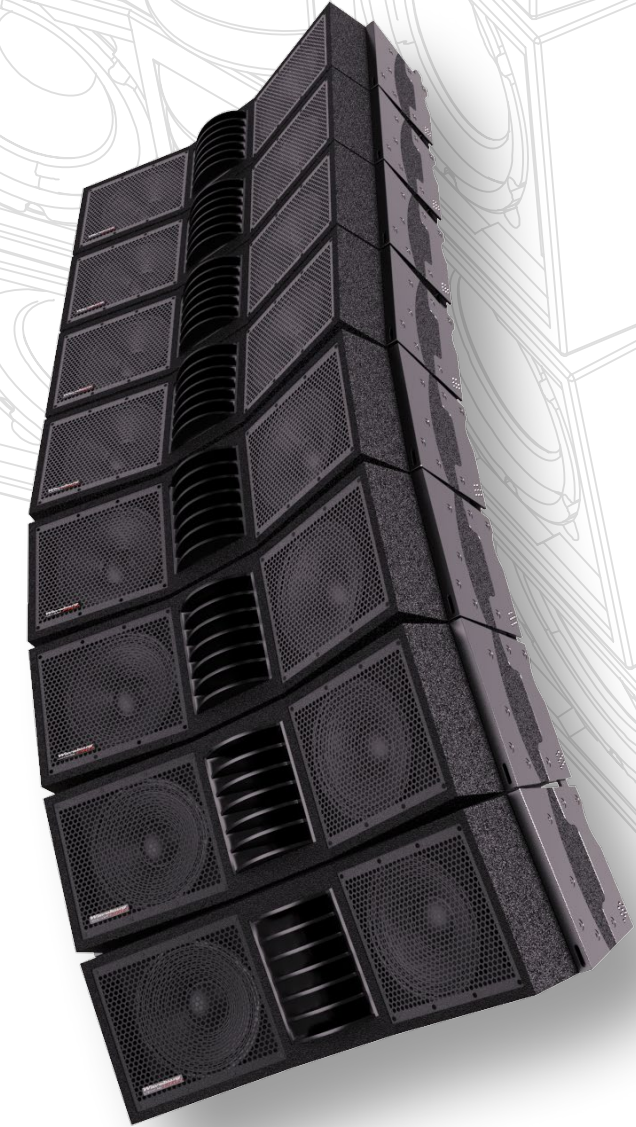


Features

- Patented high-frequency wooden waveguide
- Wide High frequency 120° dispersion optimized for use in wide areas
- Pure Titanium HF compression driver with Neodymium magnet
- High efficiency, long excursion with flat response 8-inch Midbass drivers
- Proprietary flying ware, adjustable and modular
- 2 Optional Impedance loads, 4 Ω or 16 Ω (Specifying upon order)
- Bi-amp configurations

Specifications

	LA-8
System Configuration	Bi-amp Mid-High unit
Components MB/LF HF	2 x 8 inch High output Mid-bass driver 2 x 1-1/3 inch voice coil, 1 inch exit Driver on Wooden hand-made Waveguide Horn
Frequency Response +/-3dB -10dB	85 Hz to 20k Hz 65 Hz to 21k Hz
Sensitivity (SPL, 1W@1m)	LM: 98 db HF : 110 dB
Impedance	MB: 16 Ω HF: 16 Ω
Power Rating (LF / HF) Continuous (2) Program (3) Peak (4)	400 W / 60 W 800 W / 120 W 1600 W / 240 W
Calculated Maximum Sensitivity (LF / HF) Continuous Program Peak	124 dB / 128 dB 127 dB / 131 dB 130 dB / 134 dB
Coverage An Horizontal Vertical	120° 10°



LA-8

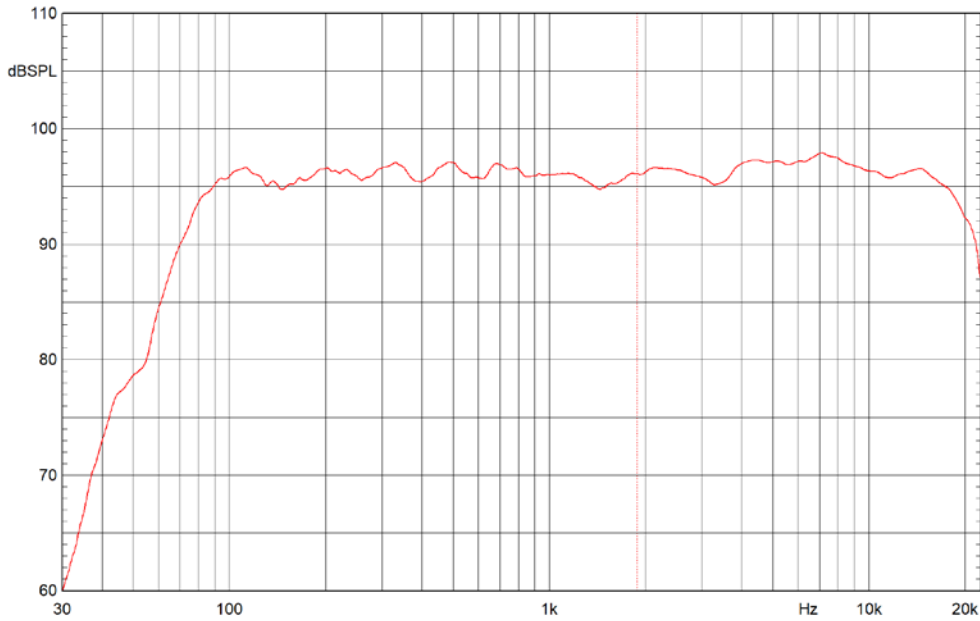


COMPACT LINE
ARRAY SYSTEM

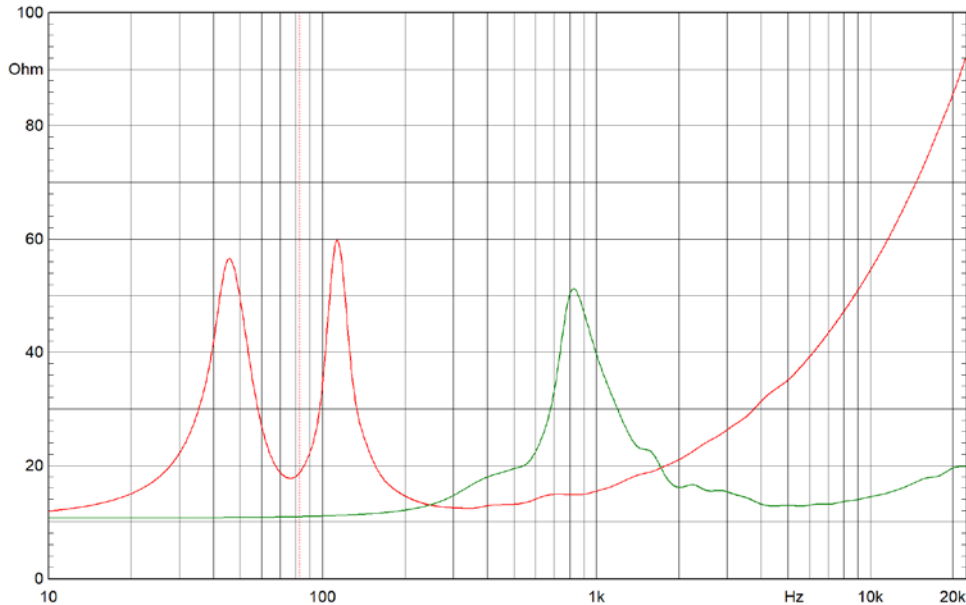
Construction info

	LA-8
Enclosure	Multil-layer Birch Plywood Constructed
Finishing	Cabinet: Black Texture
Mounting Hardware	Full flying hardare & removable pins
Connectors	2 x Speakon 1+/1- (MB+/MB-), 2+/2- (HF+/HF-)
Protective Grille	15 Guage perforated steel
Dimensions	254mm(H) x 814mm(W) x 370mm(D)
Net Weight	25kgs (55lbs)
Packing	Flightcase for two units

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



LA-10



HIGH-OUTPUT MID-SIZED LINE ARRAY SYSTEM

Features

- Patented high-frequency wooden waveguide
- Wide High frequency 120° dispersion optimized for use in wide areas
- Pure Titanium HF compression driver with Neodymium magnet
- High efficiency, long excursion with flat response 10-inch transducers
- Extremely high output to size and weight ratio.
- Proprietary flying ware, adjustable and modular.
- Two Optional System Impedance, 16Ω or 4Ω (Specifying upon order)
- Bi-amp configurations

Applications

- Touring
- Concert hall
- Multi-purpose hall
- Theatre and Opera
- House of worship
- Large Club

Specifications

	LA-10
System Configuration	Bi-amplification
Components	LF: 2 x 10-inch Ultra-high output bass driver (SDR) Single Demodulating ring for lower distortion External neodymium magnet assembly HF: 2 x high frequency neodymium magnet driver 3" Pure Titanium Diaphragm 1.4" exit on Wooden Waveguide
Frequency Response +/-3dB -10dB	58Hz -20KHz 45Hz -20KHz
Sensitivity (SPL, 1W@1m)	102.5 dB Recommended Crossover Point 1.6k Hz
Impedance	16-ohm (4-ohm Optional)
Power Rating Continuous Program Peak	HF 160 W/ LF 700W HF 320W/ LF 1000W HF 640W/ LF 3000 W
Calculated Maximum Sensitivity (LF / HF) Continuous Program Peak	136dB/ LF 130.5dB 139.1dB/ LF 132dB 142.1dB/ LF 136.8dB
Coverage An Horizontal Vertical	120° 10°



LA-10

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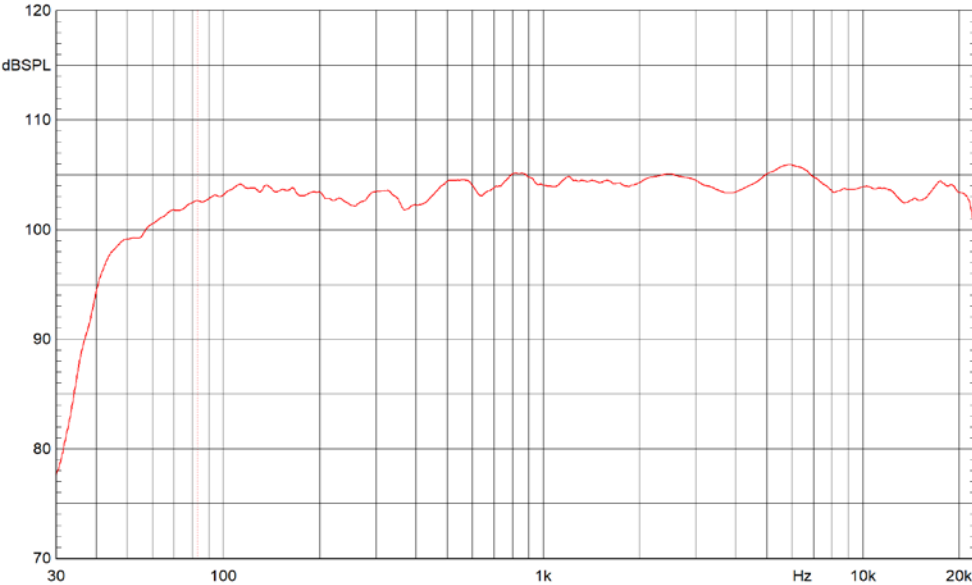
HIGH-OUTPUT
MID-SIZED
LINE ARRAY SYSTEM

Construction info

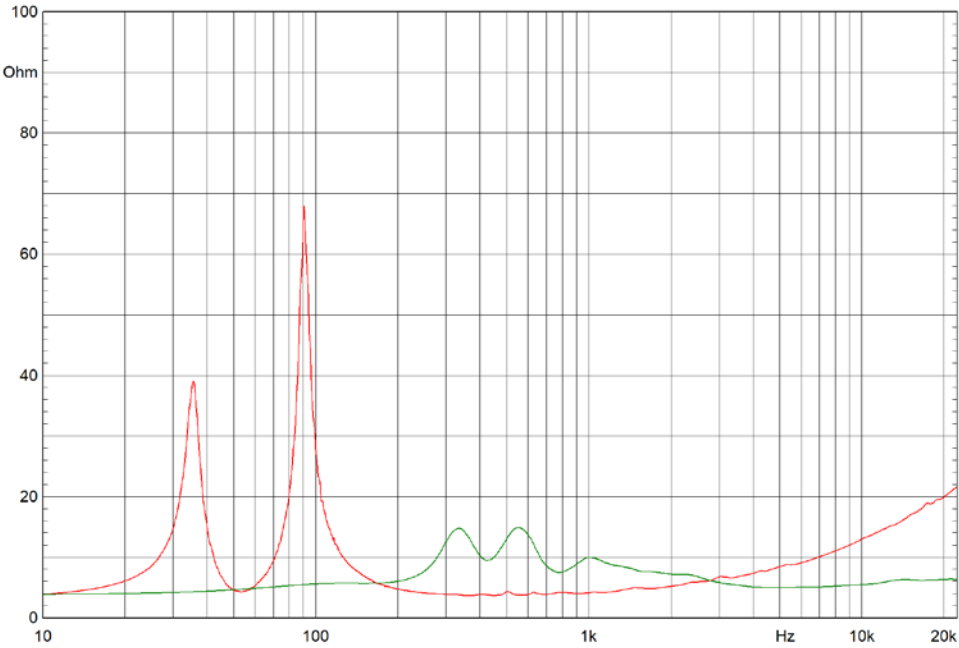
	LA-10
Enclosure	Multi-layer Birch Plywood Cabinet
Finishing	Black Polyuria Texture Paint
Grill	Black Powdered Paint
Mounting Hardware	Full flying hardare & removable pins
Connectors	2 x SpeakOn NL4
Protective Grille	15 Guage perforated steel
Dimensions	340mm(H) x 926mm(W) x 475mm(D)
Net Weight	38kgs (83.77lbs)



FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



HL-118S LTR

FOLDED HORN 18-INCH SUBWOOFER

Features

- Powerful output up to continuous power of 1000W for extreme requirement application
- State-of-the-art European transducer with ultra-high sensitivity and extra-low distortion.
- Very low Excursions at extreme drive level, due to the accurate design of the rear load of the bass horn
- Enhanced bracing for a rigid cabinet for tight bass
- Stackable cabinets Vertical / Horizontal (3 options) Medium Through / Long Through / Ultra Long Through
- Phase problems free in the near field notorious of horn-based designs

Applications

- Touring
- Stadiums
- Concert halls and Ballrooms
- Large Clubs
- Multi-Purpose Halls



HL-118S LTR

FOLDED HORN 18-INCH SUBWOOFER

Specifications

System Configuration

Direct radiation / Rear Loaded

Components

1 x 18" high power transducer, carbon fiber reinforced, straight ribbed cone and the Double Silicon Spider (DSS), assure an ultra-linear piston action and provide full control across the entire working range.

Frequency Response (1W@1m)

+/-3dB

60 Hz to 250 Hz

-10dB

35 Hz to 300 Hz

Sensitivity (SPL, 1W@1m) (1)

105 dB

Recommended Crossover point

150 Hz

Impedance

8 ohm

Rated Power

Continuous (2)

1000 W

Program (3)

2000 W

Peak (4)

7000 W

Calculated Full-range Maximum Sensitivity

Continuous

135 dB

Program

138.01dB

Peak

143 45dB

Construction info

Enclosure

Multil-layer Birch Plywood Construced

Finishing

Cabinet: Black Polyurea Texture Paint

Grill: Black Powdered Paint

Mounting Hardware

5 x Handle (Aluminium)

2 x castor

Protective Grille

15 Gauge Hexagon Perforated Steel Connectors

2 x Neutrik Speakon NL4

Dimensions

1330mm(H) x 580mm(W) x 809mm(D)

Packing Dimensions

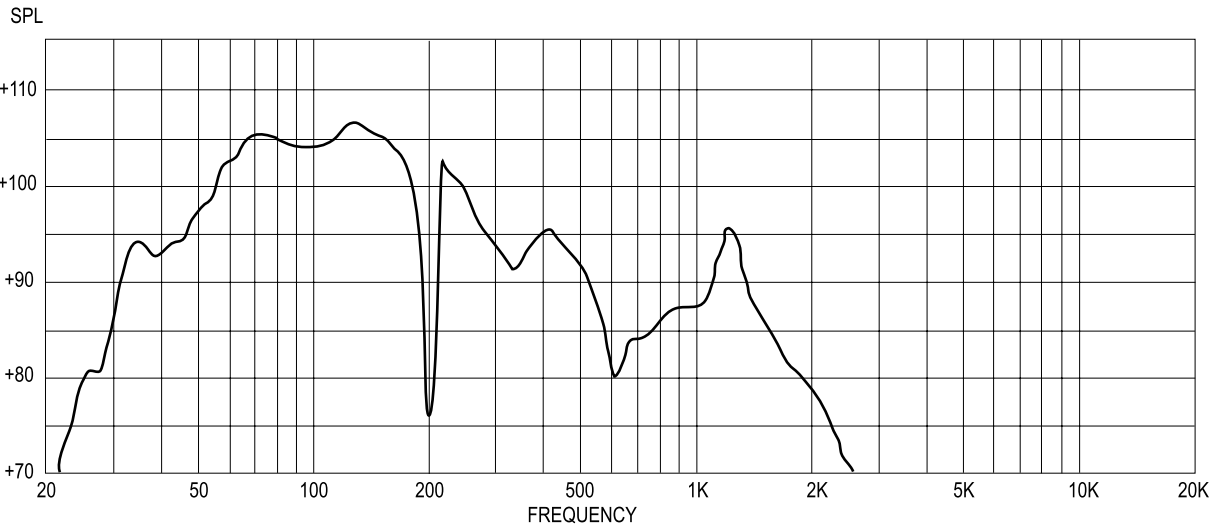
1380mm (H) x 630mm(W) x 860mm(D)

Volume : 0.7477cbm

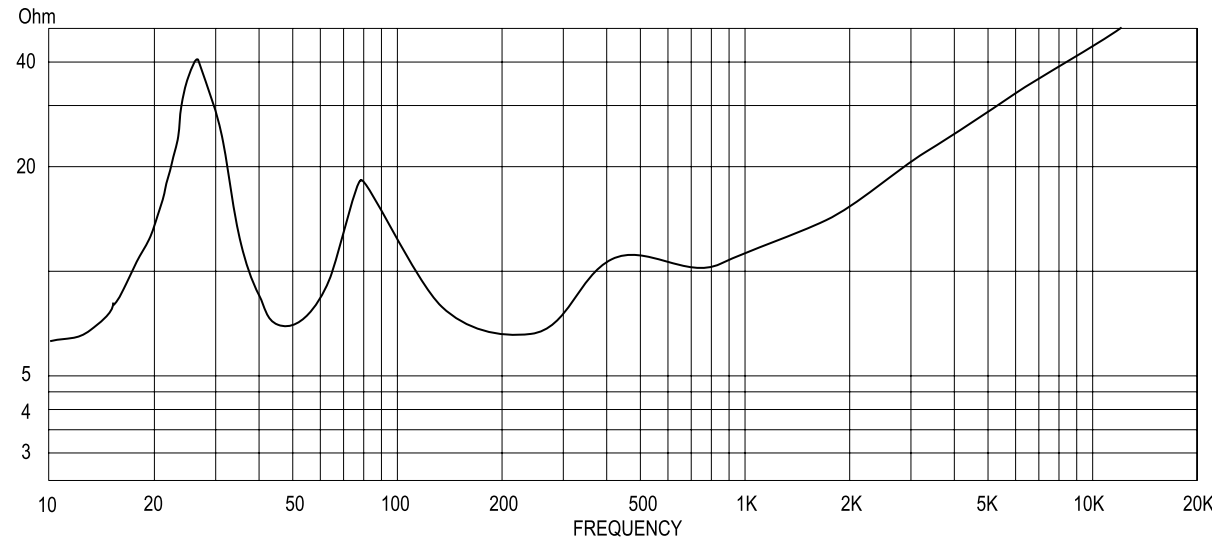
Net Weight / Gross Weight

62kgs (136.4lbs) / 65kgs (143lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE

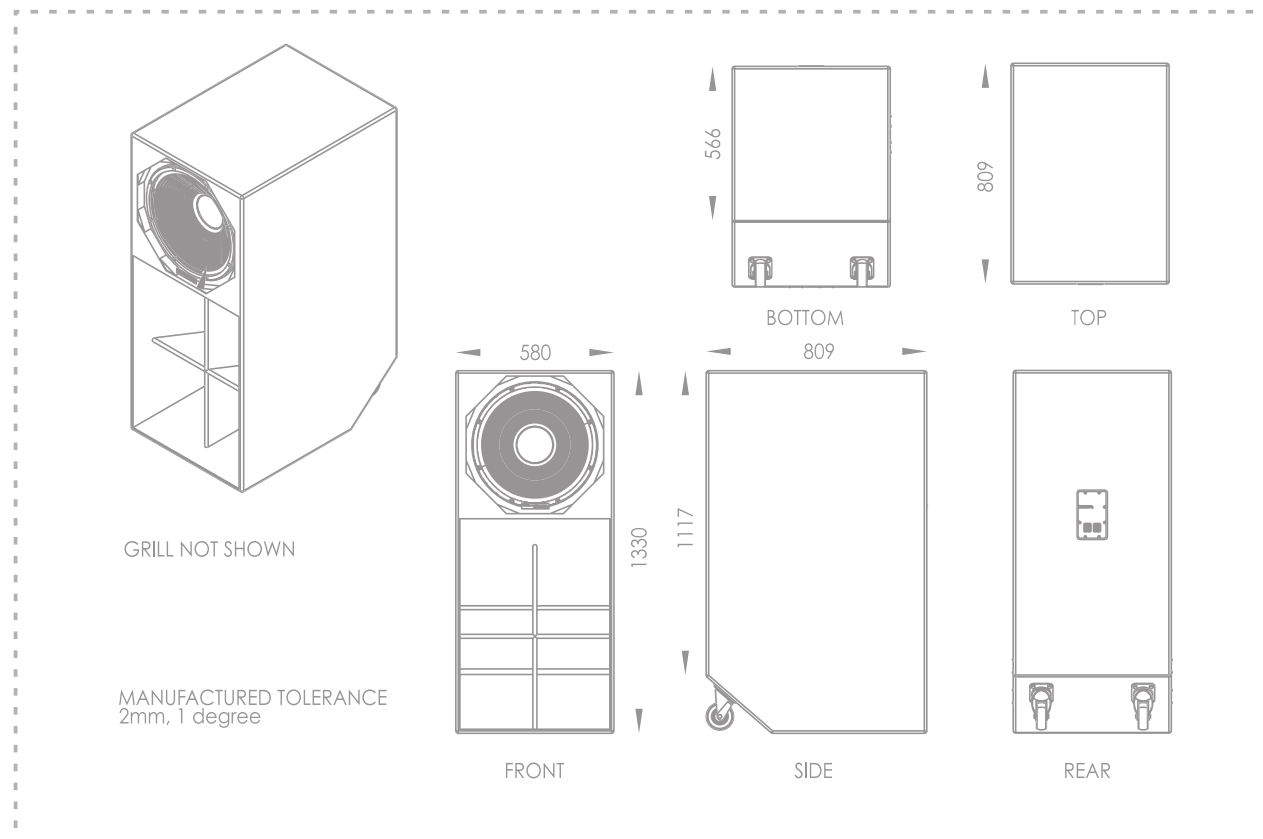


HL-118S LTR



FOLDED
HORN 18-INCH
SUBWOOFER

Dimensions



Stacking Options



WS-115S

15 INCH POWERFUL HIFI SUBWOOFER

Features

- A powerful output of continuous power 1000W
- European transducer with ultra-high fidelity and extra-low distortion
- Enhanced bracing for a rigid cabinet for tight bass
- Stackable cabinet
- Optimized venting placement with enlarged vented areas for lower distortion and group delay of under 10 ms

Applications

- Concert hall and House of worship
- Club / Lounge installation
- Live system for Small to medium venues
- Drums side fill coupled with MCX12 / MCX15



Specifications

System Configuration

Subwoofer

Components 1 x 15-inch High-Fidelity, Carbon-fiber transducer with DSS (Double Silicon Spider) provides Clean, Linear reproduction at high power levels

Frequency Response (1W@1m)

+/-3dB 45 Hz to 1 KHz
-10dB 35 Hz to 2.5k Hz

Sensitivity (SPL, 1W@1m) 96 dB

Recommended Crossover point 55-250kHz

Impedance 8 ohm

Rated Power 1000W
Continuous 2000W
Program 7000W
Peak

Calculated Full-range Maximum Sensitivity

Continuous 126dB
Program 129.01dB
Peak 134.45dB

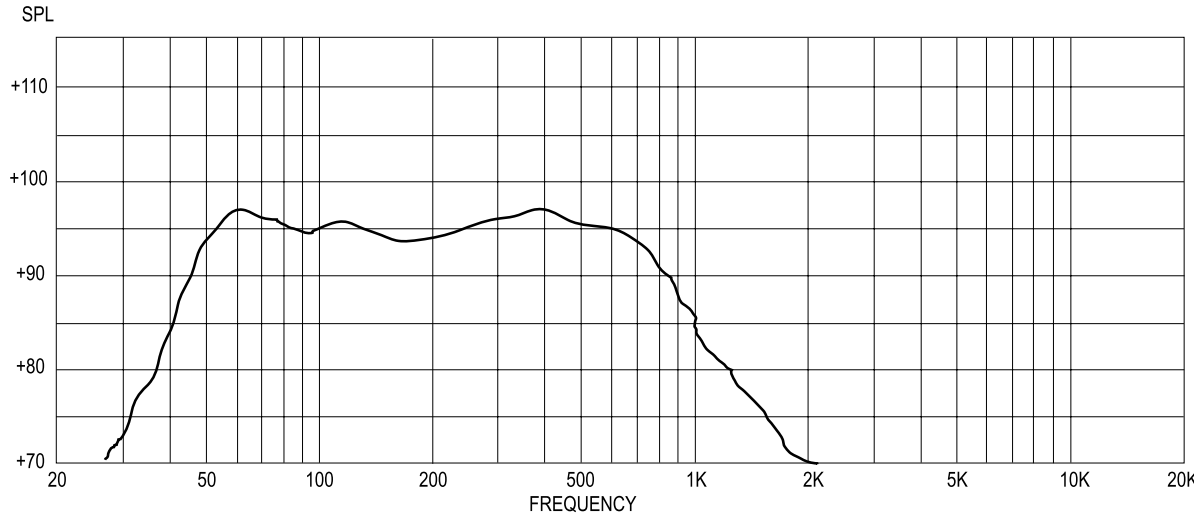
WS-115S

15 INCH POWERFUL HIFI SUBWOOFER

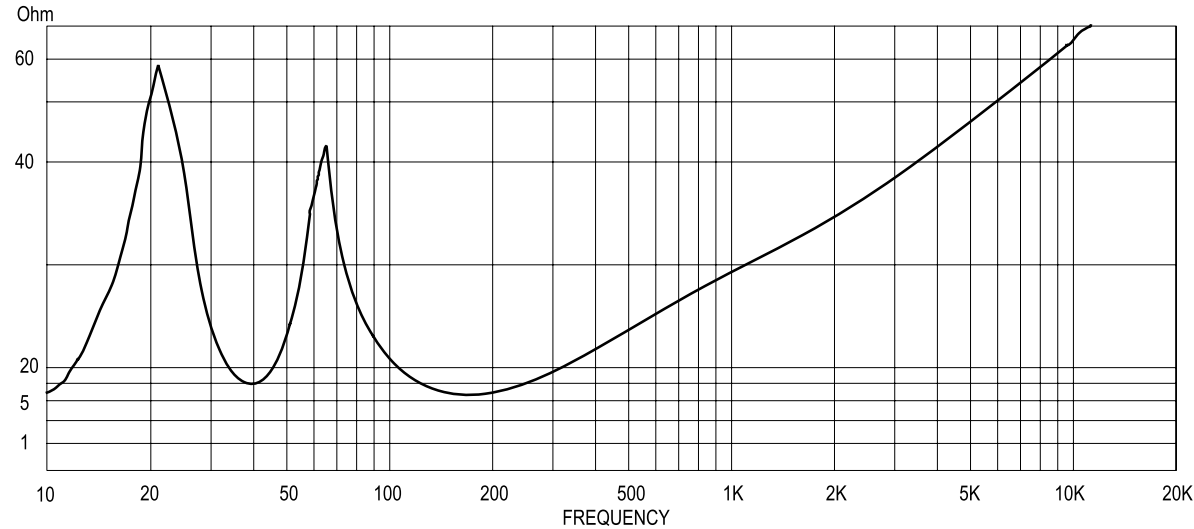
Construction info

- Enclosure**
Cube Construction
Multi-layer Birch Plywood Constructed
- Finishing**
Cabinet: Water-based Black Texture Paint
Grill: Black Powdered Paint
- Mounting Hardware**
2 x Handle (Aluminium)
1 x pole piece
- Connectors**
2 x Neutrik Speakon NL4
- Protective Grille**
15 Guage Hexagon Perforated Steel
- Dimensions**
500mm(H) x 500mm(W) x 552mm(D)
- Packing Dimensions**
550mm (H) x 550mm(W) x 570mm(D)
Volume : 0.1724cbm
- Net Weight**
35kgs (77lbs)
- Gross Weight**
38kgs (83.6lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



WS-118S

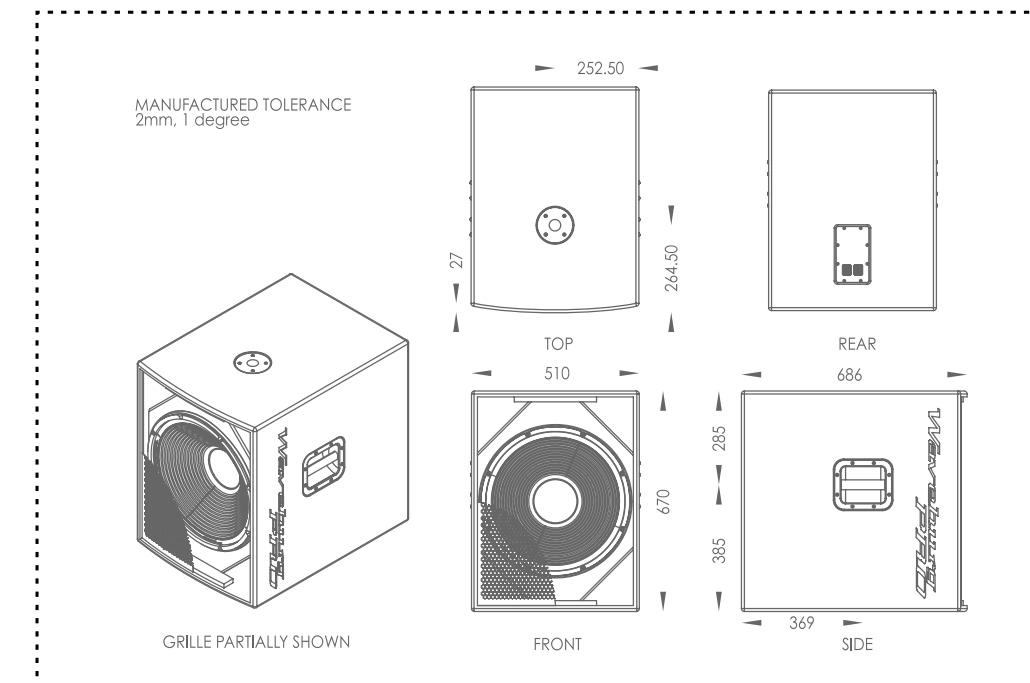
18 INCH HIGH POWER SUBWOOFER

Features

- A powerful output of continuous power 1000W for extreme requirement application
- One of the best subwoofer transducers with ultra-high output and extra-low distortion
- Ultra control of bass with new technologies of the transducer
- Enhanced bracing for a rigid cabinet for tight bass
- Stackable cabinet
- Optimized venting placement with enlarged vented areas for lower distortion and group delay of under 10 ms
- One of the fastest subwoofers in the industry



Dimensions



Applications

- Concert hall and House of worship
- Club / Lounge installation
- Corporate A/V
- Live system for medium to large size venues

WS-118S

18 INCH HIGH POWER SUBWOOFER



Specifications

System Configuration

Reflex bass Subwoofer

Components

1 x 18" high power transducer, carbon fiber reinforced, straight ribbed cone and the Double Silicon Spider (DSS), assure an ultra-linear piston action and provide full control across the entire working range

Frequency Response 1W@1m

+/-3dB 45 Hz to 1k Hz
-10dB 35 Hz to 2kHz

Sensitivity SPL, 1W@1m

98dB

Recommended Crossover Point

50-250kHz

Impedance

8ohm

Power Rating

Continuous 1000W
Program 2000W
Peak 7000W

Calculated Maximum Sensitivity

Continuous 128dB
Program 131.01dB
Peak 136.45dB

Construction info

Enclosure

Rectangular Construction
Multil-layer Birch Plywood

Finishing

Cabinet: Black Polyuria Texture Paint
Grill: Black Powdered Paint

Mounting Hardware

2 x Handle (Aluminium)
1 x pole piece

Protective Grille

15 Gauge Hexagon Perforated Steel Connectors
2 x Neutrik Speakon NL4

Dimensions

670mm(H) x 510mm(W) x 686mm(D)

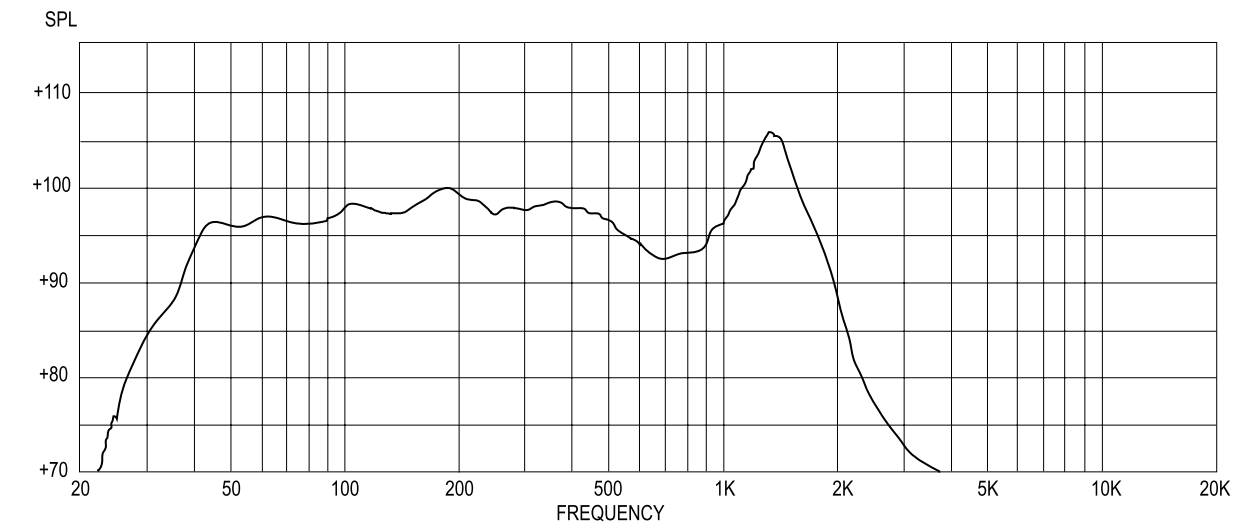
Packing Dimensions

720mm (H) x 560mm(W) x 730mm(D)
Volume : 0.2943cbm

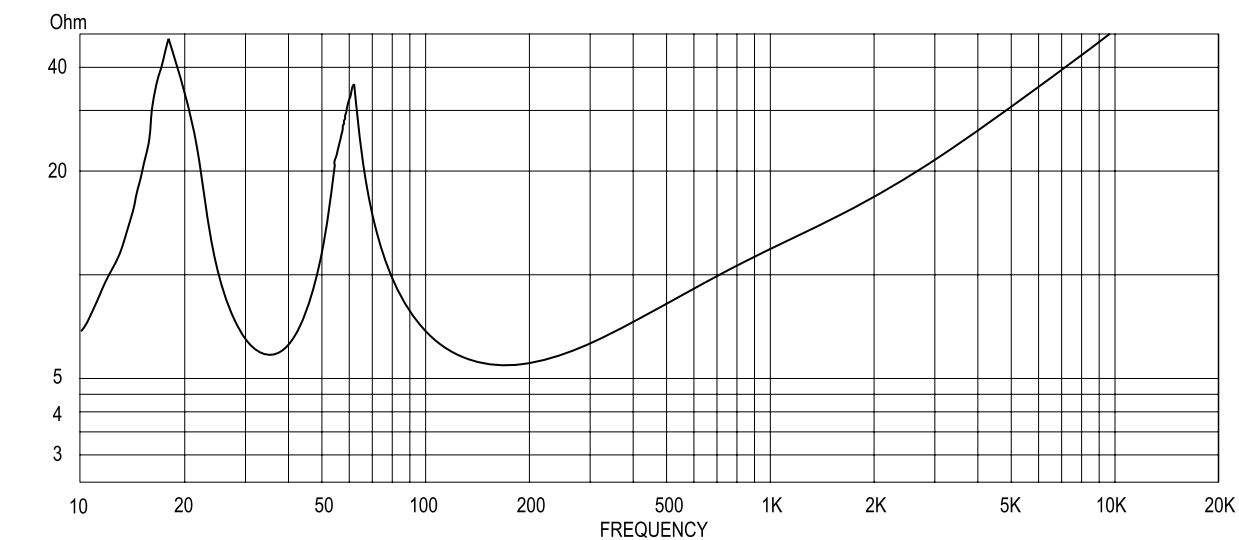
Net Weight / Gross Weight

39kgs (85.8lbs) / 42kgs (92.4lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



WS-218S

DUAL 18 INCH HIGH POWER SUBWOOFER

Features

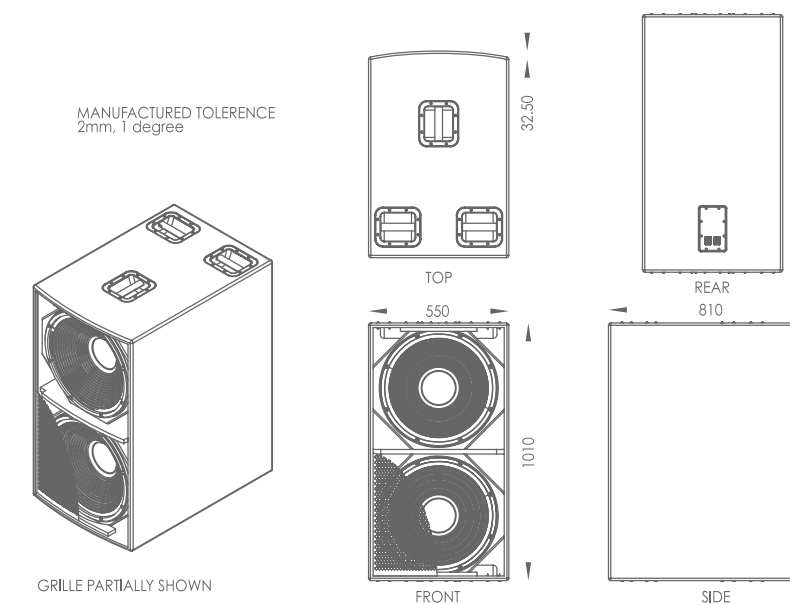
- Powerful output continuous power 1400W for extreme requirement application
- One of the best subwoofer transducers with ultra-high sensitivity and extra-low distortion
- Ultra control of bass with new technologies of the transducer
- Enhanced bracing for a rigid cabinet for tight bass
- Stackable cabinet
- Optimized venting placement with enlarged vented areas for lower distortion and group delay of under 10 ms
- One of the fastest subwoofers in the industry



Applications

- Concert hall and House of worship
- Club / Lounge installation
- Disco installation
- Live system for medium to large size venues

Dimensions



WS-218S

DUAL 18 INCH HIGH POWER SUBWOOFER



Specifications

System Configuration

Dual loaded Subwoofer

Components

2 x 18-inch Ultra-high output Subwoofer driver

Frequency Response 1W@1m

+/-3dB 45 Hz to 1k Hz

-10dB 35 Hz to 2kHz

Sensitivity SPL, 1W@1m

101dB

Recommended Crossover Point

80-250kHz

Impedance

4ohm

Power Rating

Continuous 1400W

Program 2800W

Peak 5600W

Calculated Maximum Sensitivity

Continuous 132.5dB

Program 135.5dB

Peak 138.5dB

Construction info

Enclosure

Rectangular Construction

Multil-layer Birch Plywood Construction

Finishing

Cabinet: Black Polyurea Texture Paint

Grill: Black Powdered Paint

Mounting Hardware

6 x Handle (Aluminium)

Protective Grille

15 Gauge Hexagon Perforated Steel Connectors

2 x Neutrik Speakon NL4

Dimensions

1010mm(H) x 550mm(W) x 810mm(D)

Packing Dimensions

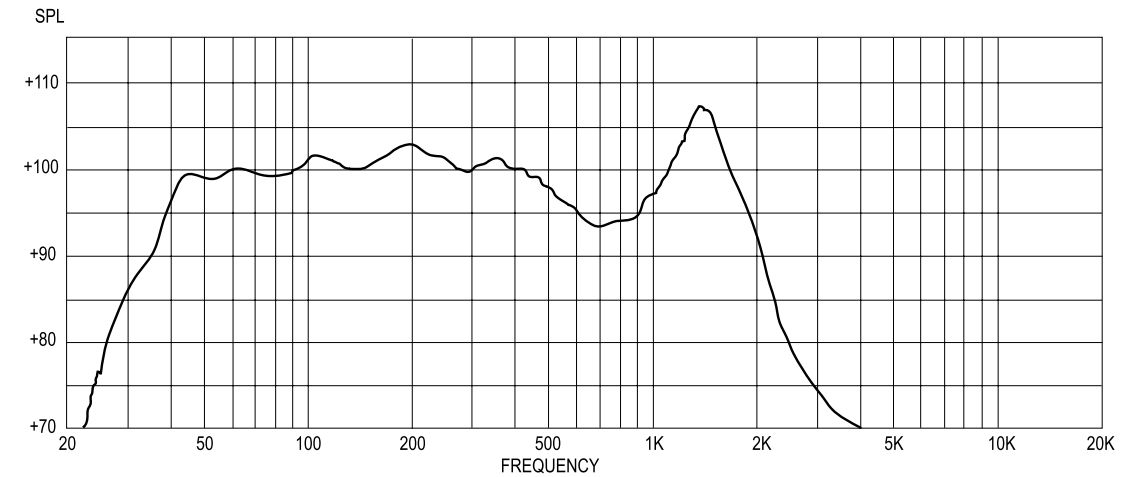
1060mm (H) x 600mm(W) x 860mm(D)

Volume : 0.5469cbm

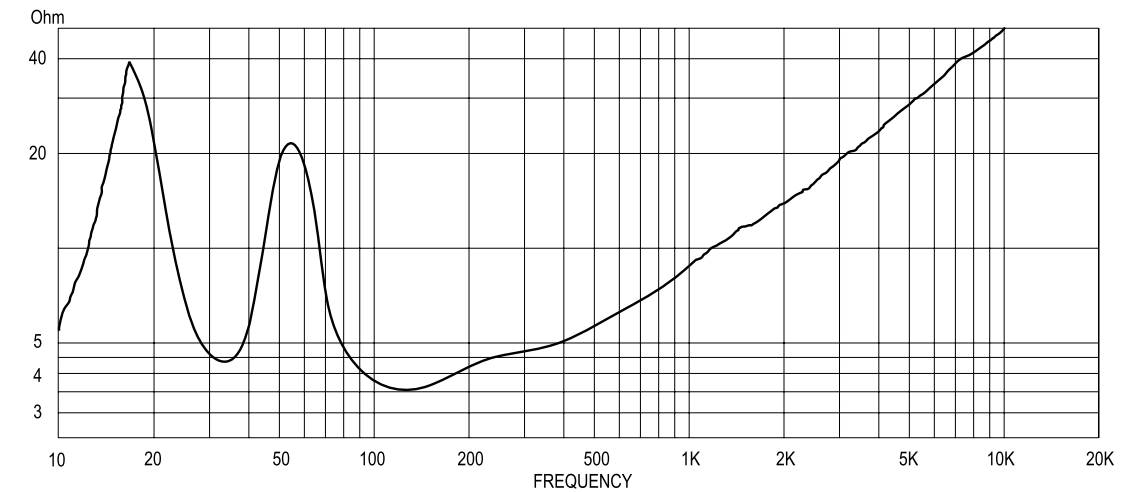
Net Weight / Gross Weight

65kgs (143lbs) / 68kgs (150lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



MCX-12

HIGH POWER COAXIAL STAGE MONITOR

Features

- High output for extreme requirement application
- Point source radiation of 70° conical coverage
- Neodymium HF 3 inch Voice coil compression driver
- Compact design for stage uses
- The asymmetric enclosure at 40° and 50° available for floor monitoring
- Accurate and fast response for the full spectrum
- High-quality Passive crossover design with high-grade components for Great heat dissipation and performance

Applications

- Stage Monitoring at extreme SPL levels
- Concert hall and House of worship
- Club / Lounge installation
- Conferencing and Broadcasting
- FOH for small to medium venue
- Filling for High output system
- Installation at which high fidelity music and voice required
- AV and surround sound installations
- Multi-purpose hall



Specifications

System Configuration
2way Full Range Monitor

Components
12" Ultra-high output woofer
3 " voice coil, 1.4" exit HF Driver

Frequency Response 1W@1m
+/-3db 85 Hz to 18k Hz
-10db 55 Hz to 20k Hz

Sensitivity SPL, 1W@1m
97.5db

Crossover Point
1.5kHz

Impedance
8ohm

Power Rating
Continuous 400W
Program 600W
Peak 1200W

Calculated Maximum Sensitivity
Continuous 123.5db
Program 125.28db
Peak 128.29db

Coverage Angle
Conical 70°

MCX-12

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HIGH POWER
COAXIAL STAGE
MONITOR

Waveburg

CUSTOM ACOUSTIC DESIGN

PRO

By syncrotek

Construction info

Enclosure
Asymmetric Construction
Multi-layer Birch Plywood Constructed

Finishing
Cabinet: Black Polyurea Texture Paint
Grill: Black Powdered Paint

Mounting Hardware
2 x Handle (Aluminium)

Connectors
2 x Speakon

Protective Grille
16 Guage Hexagon Perforated Steel

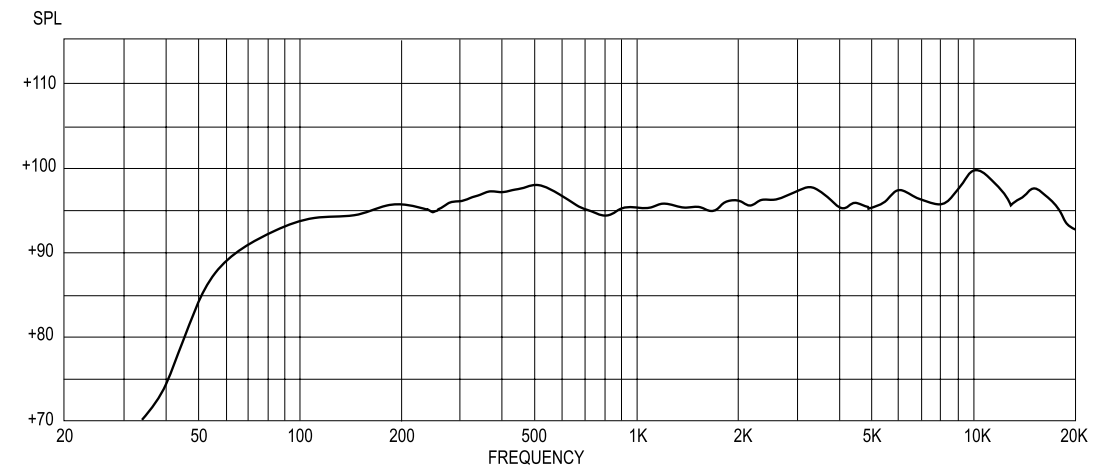
Dimensions
430mm(H) x 546mm(W) x 478mm(D)

Packing Dimensions
480mm (H) x 600mm(W) x 530mm(D)
Volume : 0.1526cbm

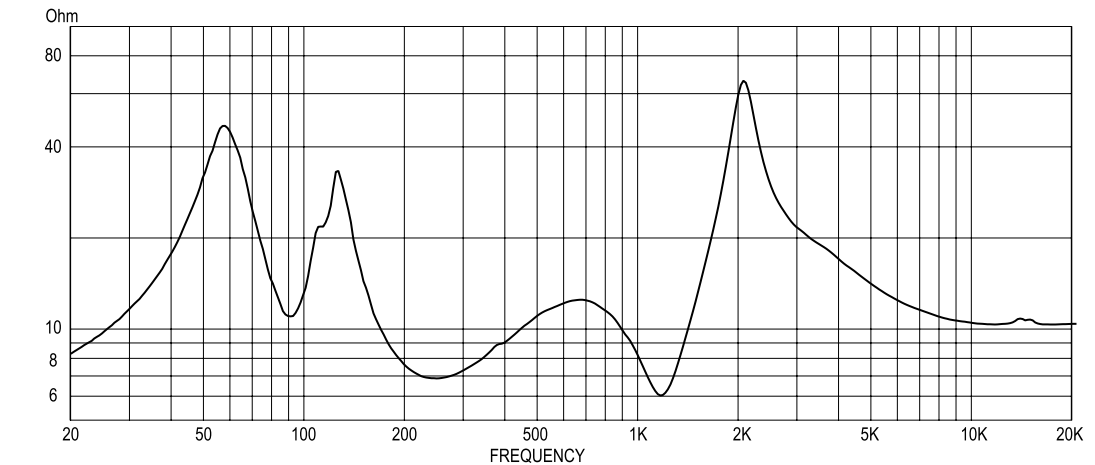
Net Weight
25kgs (55lbs)

Gross Weight
27kgs (59.5lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



MCX-15

HIGH POWER COAXIAL STAGE MONITOR

Features

- Ultra-high output for extreme requirement applications.
- Point source radiation of 70° conical coverage.
- Neodymium HF 3 inch Voice coil compression driver.
- Protected cone and plates for outdoor usage Weather.
- Compact design for stage applications.
- The asymmetric enclosure at 40° and 50° available for floor monitoring.
- Accurate and fast response for the full spectrum.

Applications

- Stage monitoring at extreme SPL levels; great drum fill, DJs side fill, lead vocal monitor, or wherever high power before feedback may be needed
- Concert hall and House of workshop
- Club / Lounge installation
- FOH system for small to medium size venue
- Filling for High output system
- AV and surround sound installations
- Multi-purpose hall



Specifications

System Configuration :Bi-amplification

Components: LF 15-inch Ultra-high output bass driver
HF 3-inch voice coil, 1-2/5 inch exit Driver

Frequency Response 1W@1m
45Hz -20KHz
LF 45 Hz to 3.5k Hz
HF 500 Hz to 20k Hz

Sensitivity SPL, 1W@1m
107.5 dB/98dB

Recommended Crossover Point
1.6k Hz

Impedance
8 ohm

Power Rating
Continuous HF 75 W/ LF 850W
Program HF 150W/ LF 1200W
Peak HF 300W/ LF 3000 W

Calculated Maximum Sensitivity
Continuous HF 126.3dB/ LF 127.29dB
Program HF 129.3dB/ LF 128.79dB
Peak HF 132.3dB/ LF 132.77dB

Coverage Angle
Conical 70°

Construction info

Enclosure
Asymmetric Construction
Multi-layer Birch Plywood Constructed

Finishing
Cabinet: Black Polyurea Texture Paint
Grill: Black Powdered Paint

Mounting Hardware
2 x Handle (Aluminium)

Connectors
2 x Speakon

Protective Grille
16 Guage Hexagon Perforated Steel

Dimensions
455mm(H) x 700mm(W) x 502mm(D)

Packing Dimensions
500mm (H) x 750mm(W) x 550mm(D)
Volume : 0.2062cbm

Net Weight
32kgs (70.4lbs)

Gross Weight
35kgs (77lbs)

MCX-15

HIGH POWER COAXIAL STAGE MONITOR

Construction info

Enclosure

Asymmetric Construction
Multi-layer Birch Plywood Constructed

Finishing

Cabinet: Black Polyurea Texture Paint
Grill: Black Powdered Paint

Mounting Hardware

2 x Handle (Aluminium)

Connectors

2 x Speakon

Protective Grille

16 Guage Hexagon Perforated Steel

Dimensions

455mm(H) x 700mm(W) x 502mm(D)

Packing Dimensions

500mm (H) x 750mm(W) x 550mm(D)
Volume : 0.2062cbm

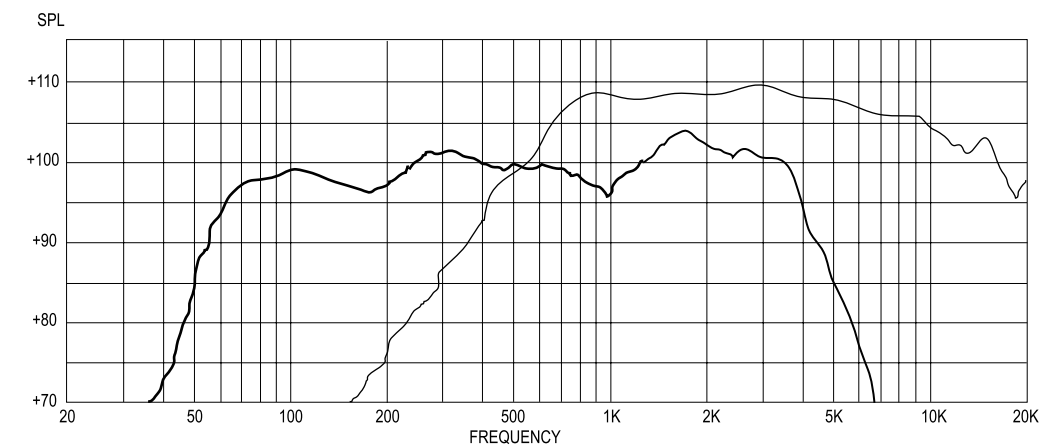
Net Weight

32kgs (70.4lbs)

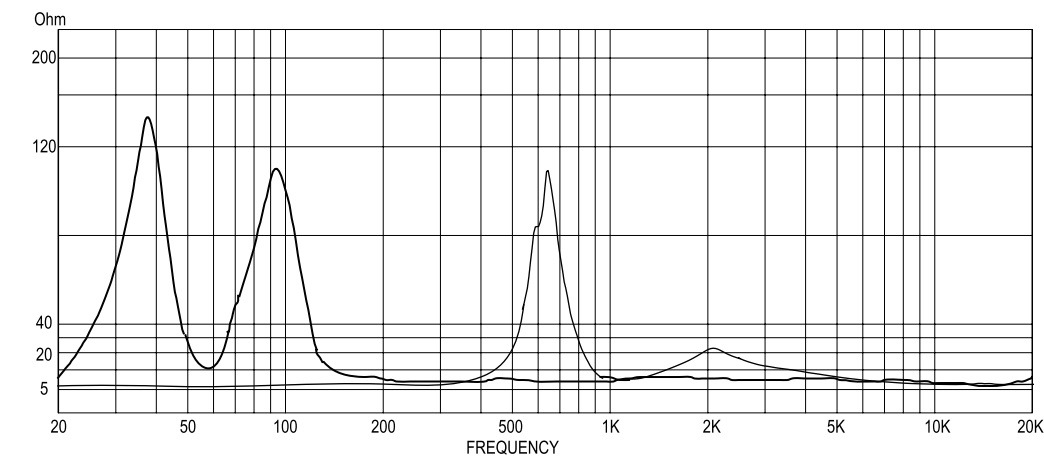
Gross Weight

35kgs (77lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



i-12-G2

HIGH- EFFICIENCY LOUDSPEAKER

Features

- High fidelity output for professional applications
- Ultra flattened full spectrum for demanding reproduction of sound for varies applications
- Well tuned LF vented enclosure provides an accurate response
- Symmetric enclosure for easy installation
- High-quality Passive crossover design with high-grade components.

Applications

- Portable systems Indoor / Outdoor
- House of Worship
- Corporate AV
- Theatre
- Club installation
- Conferencing and Broadcasting
- PA system for small to medium size venue
- Filling for High output system
- Side-fill &/or Drum-fill



Specifications

System Configuration

2way Full Range

Components

LF	1 x LF 15-inch excellent linearity high efficiency transducer
HF	1 x HF driver 1-1/3-inch Pure Titanium Diaphragm 1" exit on 90 H X 60 V horn

Frequency Response (1W@1m)

+/-3dB	75 Hz to 18k Hz
-10dB	65 Hz to 20k Hz

Sensitivity (SPL, 1W@1m) (1)	99.5 dB
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Crossover Point	1.8k Hz
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Impedance	8 ohm
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Power Rating

Continuous (2)	350W
Program (3)	500W
Peak (4)	1000W

Calculated Maximum Sensitivity

Continuous	124.9dB
Program	126.5dB
Peak	129.5dB

Coverage Angle

Horizontal	90°
Vertical	60°

i-12-G2

>>

HIGH-EFFICIENCY
LOUDSPEAKER

Construction info

Enclosure

Trapezoidal Construction
Multil-layer Birch Plywood Constructed

Finishing

Cabinet: Water-based Black / White / Red
(Custom colors available) Texture Paint
Grill: Black Powdered Paint

Mounting Hardware

12 x M8 Eyebolt Point
3 x Handle (Wooden)
1 x Pole piece (Aluminium)

Connectors

2 x Neutrik Speakon NL4

Protective Grille

15 Gauge Hexagon Perforated Steel

Dimensions

650mm(H) x 417mm(W) x 489mm(D)

Packing Dimensions

700mm (H) x 470mm(W) x 540mm(D)
Volume : 0.1777cbm

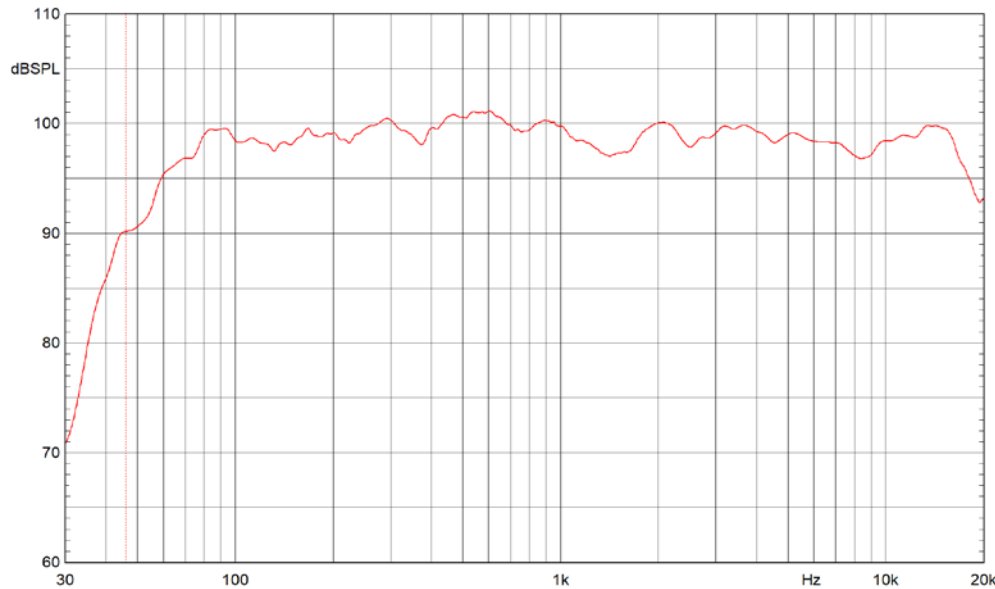
Net Weight

21kgs (46.2lbs)

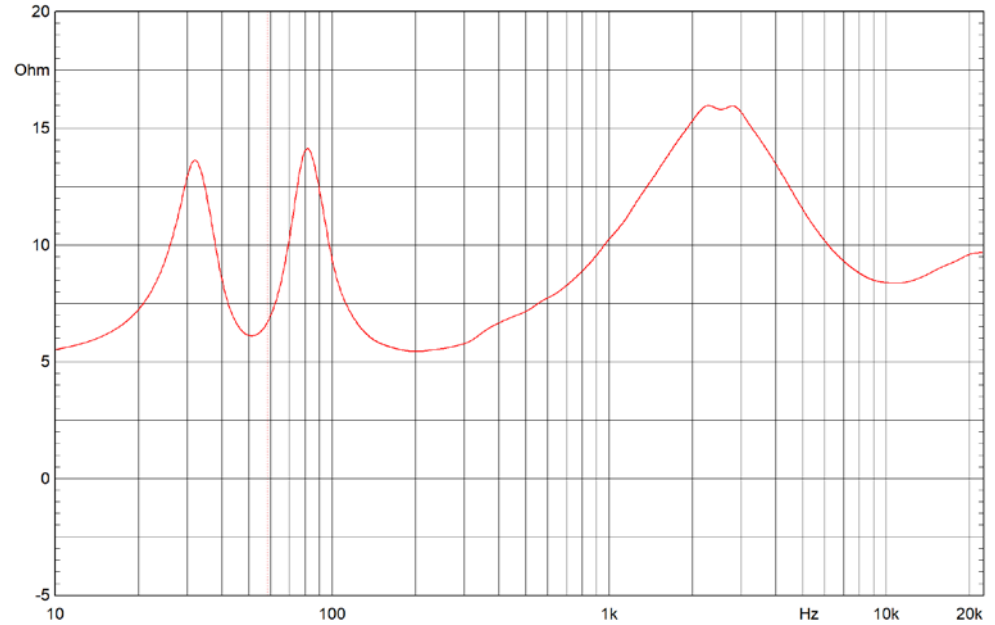
Gross Weight

23kgs (50.6lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



i-15

HIGH- EFFICIENCY LOUDSPEAKER

Features

- High fidelity output for professional applications
- Ultra flattened full spectrum for demanding reproduction of sound for varies applications
- HF compression driver with high efficiency and lightweight advantages
- Well tuned LF vented enclosure provides an accurate response
- Symmetric enclosure for easy installation
- High-quality Passive crossover design with high-grade components

Applications

- Portable systems Indoor / Outdoor
- Club installation
- Bar / Lounge installations
- Conferencing and Broadcasting
- PA system for small to medium size venue
- Filling for High output system
- Corporate AV
- House of Worship



Specifications

System Configuration:
2way Full Range

Components:
15-inch high output LF driver
1.1/3 inch voice coil, 1-inch exit Driver on 90° x 60°
Horn

Frequency Response:
+/-3dB 75 Hz to 18k Hz
-10dB 55 Hz to 20k Hz

Sensitivity SPL, (@1W @1m):
100.5 dB

Crossover Point:
1.8 kHz

Impedance:
8Ω

Power Rating:
Continuous 350W
Program 500W
Peak 1000W

Calculated Maximum Sensitivity:
Continuous 126.9dB
Program 128.4dB
Peak 131.5dB

Coverage Angle:
Horizontal 90°
Vertical 60°

Construction info

Enclosure
Trapezoidal Construction
Multi-layer Birch Plywood Constructed

Finishing
Cabinet: Water-based Black / White / Red
(Custom colors available) Texture Paint
Grill: Black Powdered Paint

Mounting Hardware
12 x M8 Eyebolt Point
3 x Handle (Wooden)
1 x Pole piece (Aluminium)

Connectors
2 x Neutrik Speakon NL4

Protective Grille
15 Guage Hexagon Perforated Steel

Dimensions
712mm(H) x 461mm(W) x 613.5mm(D)

Packing Dimensions
765mm (H) x 510mm(W) x 665mm(D)
Volume : 0.2014cbm

Net Weight
24kgs (52.8lbs)

Gross Weight
26.5kgs (58.3lbs)

i-15



HIGH-
EFFICIENCY
LOUDSPEAKER

Construction info

Enclosure

Trapezoidal Construction
Multi-layer Birch Plywood Constructed

Finishing

Cabinet: Water-based Black / White / Red
(Custom colors available) Texture Paint
Grill: Black Powdered Paint

Mounting Hardware

12 x M8 Eyebolt Point
3 x Handle (Wooden)
1 x Pole piece (Aluminium)

Connectors

2 x Neutrik Speakon NL4

Protective Grille

15 Guage Hexagon Perforated Steel

Dimensions

712mm(H) x 461mm(W) x 613.5mm(D)

Packing Dimensions

765mm (H) x 510mm(W) x 665mm(D)
Volume : 0.2014cbm

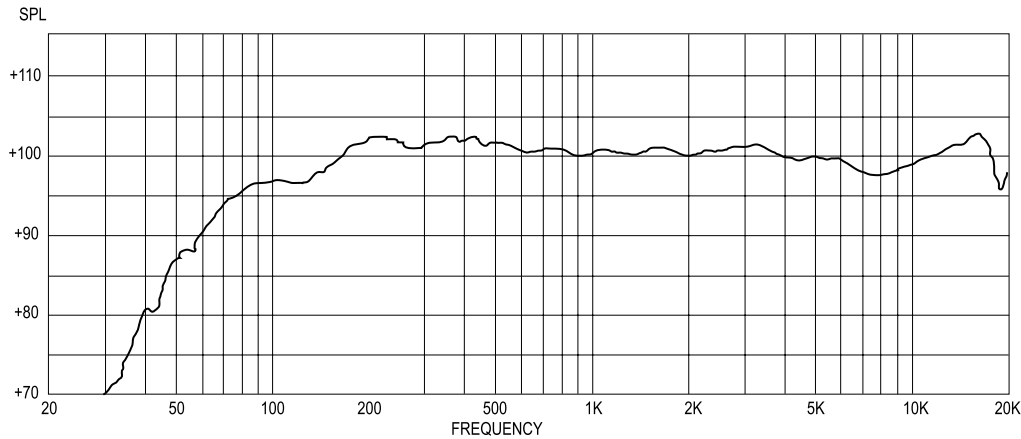
Net Weight

24kgs (52.8lbs)

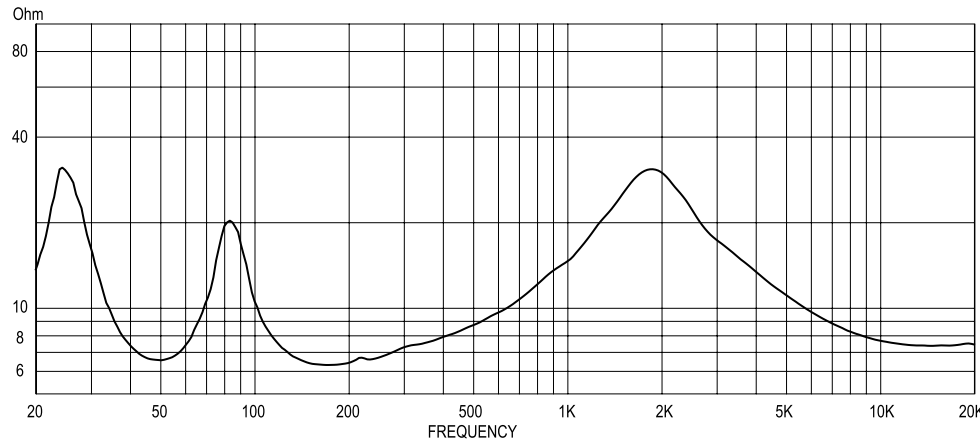
Gross Weight

26.5kgs (58.3lbs)

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



INSTALLATION 2





iCX8-R
Coaxial 2 way high output
Loudspeaker »



iC-5/6/8 RTU
High Fidelity In-Ceiling 2 way
6" Speaker »



WS-115S
Compact High Output 15"
Subwoofer »
* Page 30



i-12
High Efficiency Multi-purpose 2
way Loudspeaker 12" »
* Page 50



i-15
High Efficiency Multi-purpose
2 way Loudspeaker 15" »
* Page 54



iCX8-R

COMPACT COAXIAL LOUDSPEAKER

Features

- High-fidelity output.
- Extremely high-output to size and weight ratio
- Ultra flattened full spectrum for demanding reproduction of sound for varies applications
- European Coaxial transducer provides point source radiation of 90° conical coverage
- Multi flying point enclosure for easy installation
- High-quality Passive crossover design with high-grade components
- Weather protected cabinet and cone



Specifications

System Configuration

2way Full Range

Components

1 x Coaxial transducer
LF 8-inch high output woofer
HF 1-inch voice coil, 1-inch exit compression driver

Frequency Response 1W@1m

+/-3dB 85 Hz to 20k Hz
-10dB 58 Hz to 20k Hz

Sensitivity SPL, 1W@1m

95dB

Crossover Point

2.2kHz

Impedance

8ohm

Power Rating

Continuous 280W
Program 400W
Peak 800W

Calculated Maximum Sensitivity

Continuous 119.47dB
Program 121.02dB
Peak 124dB

Coverage Angle

Conical 90°

Construction info

Enclosure

Trapezoidal Construction
Multi-layer Birch Plywood Constructed

Finishing

Cabinet: Water-based Black / White / Red (Custom colors available) Texture Paint
Grill: Black Powdered Paint

Mounting Hardware

12 x M8 Eyebolt Point

Connectors

2 x Speakon

Protective Grille

17 Guage Hexagon Perforated Steel

Dimensions

374mm(H) x 246mm(W) x 263mm(D)

Packing Dimensions

420mm (H) x 295mm(W) x 315mm(D)
Volume : 0.039cbm

Net Weight

10kgs (22lbs)

Gross Weight (2 per carton)

22.5kgs (50.3lbs)

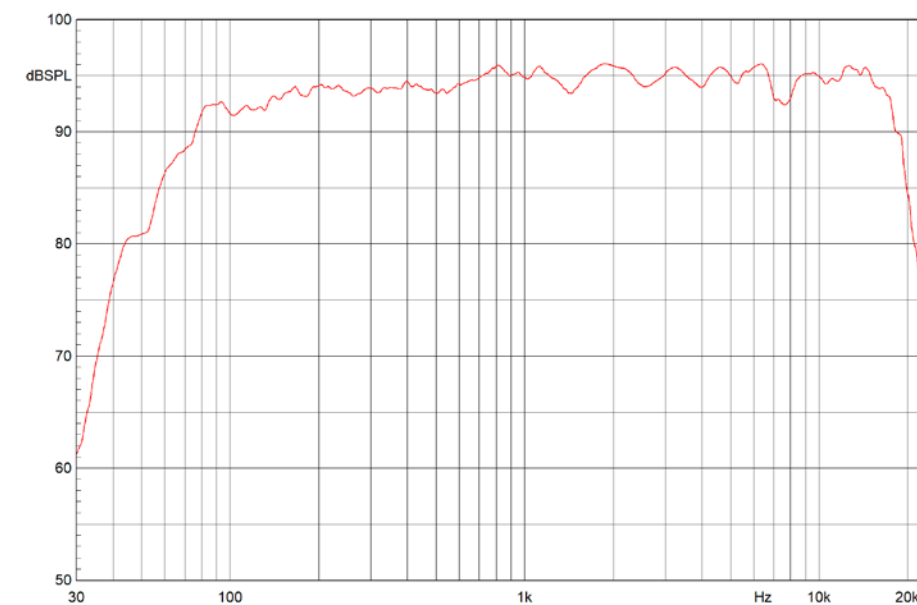
iCX8-R

COMPACT COAXIAL LOUDSPEAKER

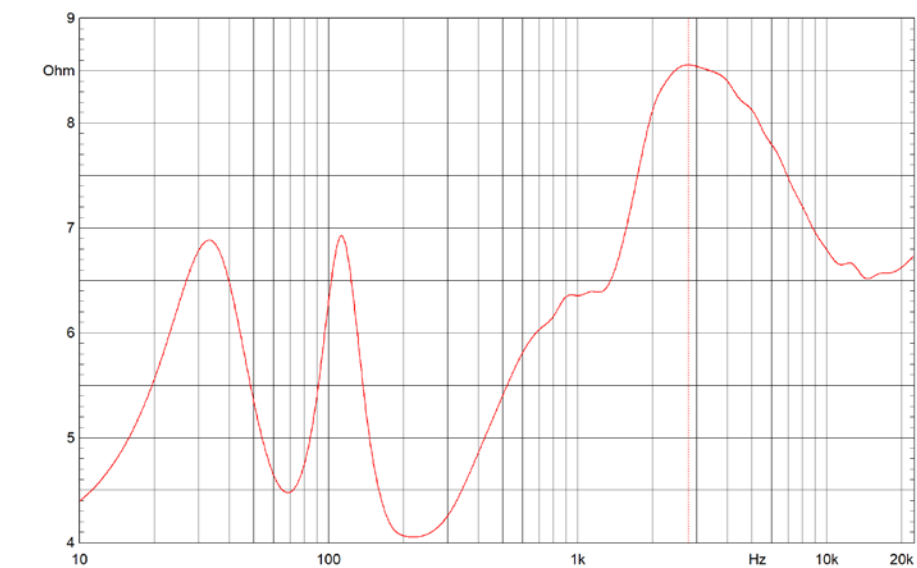
Applications

- Portable systems Indoor / Outdoor
- Club installation
- Bar / Lounge installation
- Conferencing and Broadcasting
- PA system for small to medium size venue
- Filling for High output system
- Corporate AV
- Multi-purpose hall

FREQUENCY RESPONSE



IMPEDANCE MAGNITUDE



iC-5/6/8 RTU

IN-CEILING
HIGH FIDELITY
LOUDSPEAKER

Specifications

IC-5RTU
IC-6RTU
IC 8RTU

Sensitivity (1 w @ 1 m)

91 dB
93 dB
93 dB

Frequency Response

90 Hz - 20 kHz
80 Hz - 20 kHz
60 Hz - 20 kHz

Impedance : 70V

Power Tapping (in watts)

70 v : 20 / 10 / 5
70 v : 30 / 15 / 7.5
70 v : 40 / 20 / 10

Input Terminals : Cable connection



Woofer Type

5" polypropylene cone
6" polypropylene cone
8" polypropylene cone
Tweeter Type : ½ " Mylar Tweeter
Coverage Angle : 110° @ 1KHz - 80° @ 4 KHz - 60° @ 8 KHz

Mounting Cutout

6.692" (170mm)
7.874" (200mm)
9.448" (240mm)

Min.Vertical Clearance

3.543" (90mm)
3.937" (100mm)
4.527" (115mm)

Dimensions (Dia × Depth)

7.992" (203mm) Dia × 3.149" (80mm)
9.055"(230mm) Dia × 3.543" (90mm)
10.629" (270mm) Dia × 4.133" (105mm)

Net W eight

2.645 lbs (1.2 Kgs)
3.086 lbs (1.4 Kgs)
4.409 lbs (2 Kgs)

Baffle Ring / Grill color : Off-white

CUSTOM MADE **3**





Egypt Hall Conference center

Client Brief

1. NO BLACK BOXES
2. NO LINE ARRAY
3. NO LEFT & RIGHT STACKS
4. Stereo Image even in far-left or far-right
5. Must be usable for Concerts, digital Cinema, and Corporate /Social events
6. Homogenous coverage all over the area in all setups Banquet, Theatre, Classroom
7. SO your only way is the ceiling

System:

- 12 unit In-Ceiling, Bi-AMP high-power coaxial 15" woofer 2.4" Compression driver, Flat with ceiling
- 12 unit In-Ceiling, Bi-AMP high-power coaxial 15" woofer 2.4" Compression driver, Angles 30 degrees to enhance stereo imaging
- 8 unit 18" In-Ceiling, horn-loaded subwoofer

Fever Pub / Restaurant

Client Brief :

- MUST be ribbon tweeters
- Match Theme of the venue



Private client (Underdevelopmemnt) DIAMOND D8



Client Brief

ONE MODEL matching all projects Fashion/
RETAIL Stores, Hotels, Cafes, etc,
NOT ONLY Matching identity, must be
a unique design



Virgin Megastores

High-power full-range loudspeakers, branded with Virgin and
matching Virgin CI (Corporate Identity) for use for in-store
events

D'Appolito Design

Dual 15" with 4" Compression Driver (Bi-AMP)

Dual 10" with 2.4" Compression Driver (Bi-AMP)



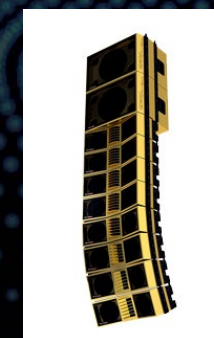
Cloak and Dagger, Washington DC

Pub / Restaurant



Bellvue Convention Center, Chantilly, Virginia

White LA8 with custom Flying hardware / WHite ICX8



LA8 GOLD (Private)

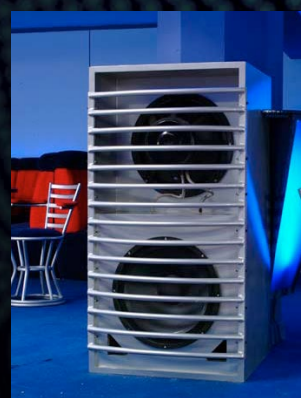
LA8 with special Golden Paint, Private, UAE



Calypso, Hurghada, Egypt.

Client Brief :

1. Match the THEME, Spacey Design
2. Quick, powerful and tight bass is a must
3. Consider to match the acoustics of the venue



Galliera 40 Complex (Shopping Mall / Office buildings)

Client Brief :

High Dynamic range background music allover the shopping areas /
High power in-ceiling system for events&/or concerts

108 units 8" Coaxial Wallmount - in-wall - in-Ceiling

24 units 12" Coaxial in-ceiling

8 units 18" Subwoofer in-ceiling





Fanar >>



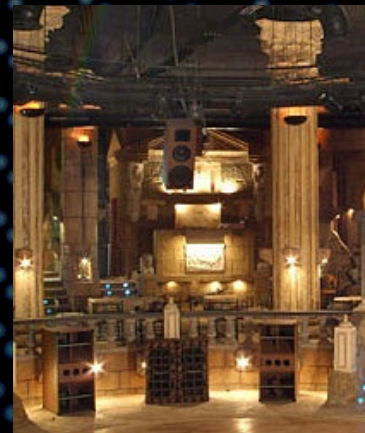
Fanar >>



Crystal Ballroom >>



Crystal Ballroom >>



Caligula Restaurant / Club >>



Caligula Restaurant / Club >>



Caligula Restaurant / Club >>



Cave Bar >>



Cave Bar >>



Cave Bar >>



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