

## TECHNICAL SPECIFICATIONS



# ID1.112-SB

**Product Group:** iDESIGN Installation Group  
**System Type:** Subwoofer, Single 12"

### FEATURES & ADVANCES

- 11 Reinforced 3/8-16 threaded hang points
- Omni-mount locations on 4 sides
- U-Bracket factory hardware available
- Combines with other iDESIGN modules to form arrays

### PRODUCT DESCRIPTION

The ID1.112-SB is a subwoofer designed for permanent installations. This high output foreground module features a direct radiating 12" cone loudspeaker. By combining iDESIGN™ modules in pre-engineered arrays, systems can be configured for larger venues.

### MOUNTING & RIGGING

Mounting locations are distributed across 5 surfaces of the enclosure. Omni-mount™ compatible locations are available on 4 sides of the enclosure, while an additional 11 reinforced 3/8-16 threaded locations are available for other mounting options. iDESIGN iDB™ Series array frames are available to facilitate assembly and suspension of multiple modules as a single cluster. iDESIGN iDB™ Series U-bracket hardware is also available for single unit wall and ceiling mount installation.

### CONSTRUCTION

The enclosure is constructed of 12-ply void-free birch hardwood plywood and is coated with a weather and wear resistant ProCoat™ polyurea hybrid finish. All rigging components are weather protected with a heat cured epoxy powder coat finish. Components in the front of the enclosure are protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.



### AMPLIFICATION & PROCESSING

One channels of discrete amplification and signal processing are required for this module. The preferred signal processors for all iDESIGN products are the McCauley MSeries family of digital processing units. The System Design Group can help in creating a complete amplification and signal processing solution.

### APPLICATIONS

- Houses of Worship
- Performing Arts Centers
- Dance Clubs
- Theme Parks
- Auditoriums
- Theatrical Sound Design
- Live Clubs
- Sports Facilities

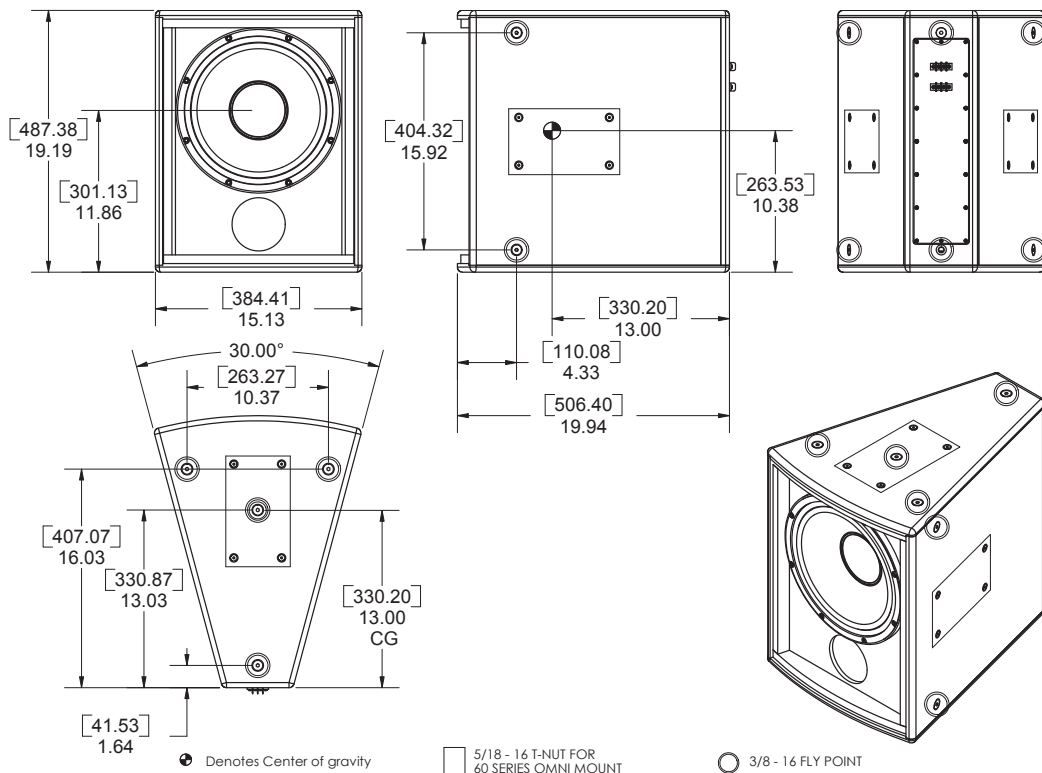
### PERFORMANCE PARAMETERS

<b>System Type</b>	Subwoofer, Single 12"
<b>Frequency Response</b> -10dB +/- 3dB	35Hz - 1.2kHz 55Hz - 800Hz
<b>Sensitivity</b> LF	95dB @ 2.83V 1 m
<b>Maximum SPL</b> LF	(cont. / peak) 124dB / 130dB
<b>Power Ratings</b> LF - RMS	400w @ 8Ω
LF - AES	800w @ 8Ω

### PHYSICAL PROPERTIES

<b>Weight</b>	53lbs / 24.04kgs
<b>Dimensions</b> inches centimeters	19.1 H x 15.3 W x 19.9 D x 5.1 T 48.7 H x 38.4 W x 50.6 D x 12.9 T
<b>Enclosure Material</b>	5/8" 12 ply Birch Laminated
<b>Suspension</b>	(11) 3/8-16 reinforced hang points (4) Omni-Mount™ compatible mounting locations (3) Horizontal U-Bracket mounting locations (1) Vertical U-Bracket mounting location
<b>Finish</b>	Procoat™ Polyurea-Hybrid Weatherproofing (Black is standard, White and / or Custom Colors Available)
<b>Transducers</b>	(1) 12" LF Transducer
<b>Connectors</b>	Barrier terminal strip
<b>Compatible Array Frames</b> (for building clusters)	IDB.22-AF, IDB.828-AF, IDB.252-AF, IDB.222-AF, IDB.282-AF, IDB.525-AF
<b>Compatible U-Brackets</b> (for deploying individually)	IDB.112-H, IDB.112-V

## DIMENSIONAL ILLUSTRATIONS



## ARCHITECTS AND ENGINEERS SPECIFICATIONS

The low frequency loudspeaker system shall incorporate a single 4" (102 mm) voice coil, 12" (303 mm) diameter transducer, mounted in an optimally vented enclosure, and tuned for maximum low frequency response. The horizontal and vertical beam width for a single unit shall be the 360°. Directional characteristics can be achieved with an array of multiple cabinets.

The system frequency response shall vary no more than  $\pm 3$  dB from 45 Hz to 180 Hz measured on axis. The transducer shall produce a Sound Pressure Level (SPL) of 95 dB SPL at a distance of 1 meter with an electrical power input of 1 Watt, and shall be capable of producing a maximum peak output of 130 dB SPL on axis at 1 meter.

The low frequency transducer shall handle 800 Watts of amplifier power (per AES ref Standard AES2-1984-r2003) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall have a maximum weight of 53 lbs.(24.1 kg) and shall measure 15.13" (385 mm) wide at front, 5.16" (203 mm) in width at rear, 19.19" (488 mm) in height, and 19.94"(507 mm) in depth. The enclosure sides shall taper at 15° from a maximum frontal width, narrowing to the rear. The structure of the enclosure shall be constructed of 12-ply void-free birch hardwood plywood and shall have a weather and wear resistant ProCoat(tm) polyurea hybrid finish.

Input connectors shall be two, two-terminal barrier strips, each connector wired in parallel.

A total of twelve 3/8"-18 UNC threaded mounting/suspension points (four on top, three on bottom, two per side and one back) shall be provided. Four additional mounting points shall be provided on the top, bottom, and each side configured to accept an OmniMount brand, Series 60 bracket.

Components in the front of the enclosure are to be protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

The low frequency loudspeaker system shall be the McCauley Sound model iD1.112-SB.