

# SURROUND SOUND REFERENCE SPEAKERS & SUBWOOFERS

R10SUB • R10SUB ENC • DSP 2-150 • R12SUB • R12SUB ENC • DSP 2-750

## Product Overview

Created for AV Designers building systems that require the best surround sound available with a look that fits the space aesthetically, the Sonance Reference in-wall subwoofers provide a truly incredible sound without taking up floorspace. Engineered to give you an amazing cinema experience, Sonance Reference has two options for in-wall subwoofers.



R10SUB



R10SUB ENC



DSP 2-150



R12SUB



R12SUB ENC



DSP 2-750

## Features and Benefits

R10SUB and R12SUB in-wall subwoofers combine elegant, modern visual design with uncompromised bass performance for home theaters and multi media solutions.

The Reference subwoofers feature an innovative low profile driver with an ultra low distortion motor and 4" diameter voice coil. The R12SUB in-wall subwoofer incorporates a 12" woofer, while the R10SUB utilizes a 10" woofer. Dual central mount spiders are used in both models to maximize the movement of the laminated carbon fiber cone.

Reference subwoofer enclosures are constructed from a combination of 1/2" and 1" MDF for superior isolation of bass and extruded aluminum bracing for minimal obstruction of airflow inside the enclosure. Mass damping of front and back walls of each enclosure and long strand fiberglass internal damping for standing wave dissipation is also incorporated. In addition, a floating enclosure design minimizes vibration

transfer to adjoining rooms. Both enclosures fit in a standard 2 x 4 stud bay and a blank pre-construction plate is included for easy installation.

Reference subwoofer amplifiers include DSP presets specifically for the R10SUB and R12SUB drivers and enclosures. Each amplifier is capable of driving up to two woofers. The R10SUB with DSP 2-150 amplifier extends down to 30Hz and is capable of producing 108dB of output at 1 meter. The R12SUB with DSP 2-750 amplifier extends down to 25Hz and is capable of producing 114dB of output at 1 meter.

Keeping in mind the different installation stages needed by the CEDIA professional, the Reference subwoofer systems are sold separately in three pieces; a woofer driver with grille, an in-wall enclosure, and the outboard amplifier or as a system that includes two woofer drivers with grilles, two enclosures and the amplifier.

## Subwoofer Features

### Aesthetics

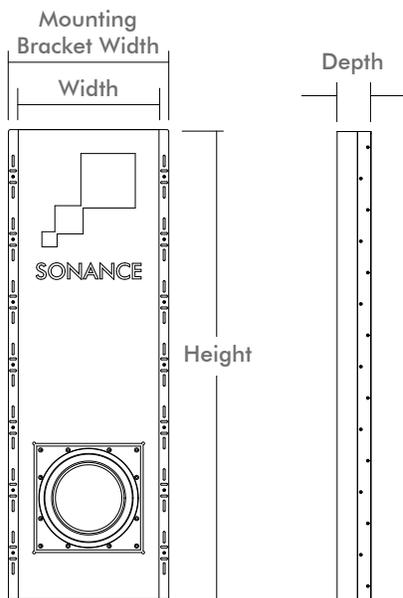
- Mix and match with Reference in-wall or in-ceiling speakers
- One-piece paintable grille to blend into your walls
- Available in 10" or 12" models to suit any sized room or available wall space

### Performance

- 1.4lbs (.64kg) N38SH Neodymium Magnet
- Dual Spider Technology (DST) allows for increased movement
- 4 1/2" (115mm) precision-aligned voice coil with 1 1/2" (30mm) winding height

### Installation

- Designed for installation during the construction or renovation process
- Enclosure is positioned behind the wall to deliver unprecedented performance with minimal visual intrusion
- Custom-tuned amplifiers ensure optimum sonic performance



## R10SUB ENC Specifications

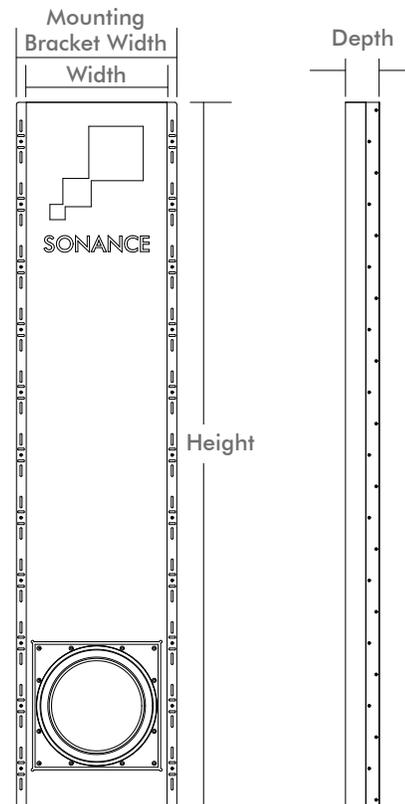
Width:	14 1/4" (362mm)
Height:	47 1/4" (1,200mm)
Depth:	3 7/16" (87mm)
Mounting Depth:	3 3/8" (86mm)
Mounting Width:	16 1/4" (410mm)

## In-Wall Subwoofer Enclosure Features

- Combination of .5" and 1" MDF
- Extruded aluminum bracing for minimal obstruction of airflow inside the enclosure
- Mass damping of front and back walls of enclosure
- Long strand fiberglass internal damping for standing wave dissipation
- Dual positive and negative terminals for maximum wire durability
- Floating enclosure design to minimize vibration transfer to adjoining rooms
- Fits in standard 2 x 4 stud bay
- Blank pre-construction plate for easy installation

## DSP Amplifier Features

- Capable of driving two subwoofers
- Comes with DSP designed specifically for the R10SUB & R12SUB
- DSP 2-150 - 1U half rack space saving design
- DSP 2-750 - 2U rack space



## R12SUB ENC Specifications

Width:	14 1/4" (362mm)
Height:	70 7/8" (1,800mm)
Depth:	3 7/16" (87mm)
Mounting Depth:	3 3/8" (86mm)
Mounting Width:	16 1/4" (410mm)

## Specifications



<b>Model:</b>	R10SUB
<b>SKU:</b>	93354
<b>Unit of Measure:</b>	Each
<b>Woofers:</b>	10" (254mm) laminated carbon fiber cone with a rubber surround
<b>Frequency Response:</b>	30Hz - 250Hz +/-3dB
<b>Impedance:</b>	8 Ohms nominal
<b>Sensitivity:</b>	88dB (2.83V/1) meter
<b>Grille Material:</b>	Perforated steel
<b>Required Enclosure:</b>	R10SUB ENC acoustic enclosure (sold separately)
<b>Required Amplification:</b>	Sonance DSP 2-150 or Sonance DSP 8-130 MKII (Using two channels bridged)



<b>Model:</b>	R12SUB
<b>SKU:</b>	93355
<b>Unit of Measure:</b>	Each
<b>Woofers:</b>	12" (305mm) laminated carbon fiber cone with a rubber surround
<b>Frequency Response:</b>	25Hz - 250Hz +/-3dB
<b>Impedance:</b>	8 Ohms nominal
<b>Sensitivity:</b>	90dB (2.83V/1) meter
<b>Grille Material:</b>	Perforated steel
<b>Required Enclosure:</b>	R12SUB ENC acoustic enclosure (sold separately)
<b>Required Amplification:</b>	Sonance DSP 2-750 (Used in stereo setting)



<b>Model:</b>	R10SUB ENC
<b>SKU:</b>	93354
<b>Unit of Measure:</b>	Each
<b>Material:</b>	MDF wood box with long strand fiberglass acoustic dampening material
<b>Compatibility:</b>	Fits the VP10SUB NC only
<b>Enclosure Dimensions (WxHxD):</b>	14 1/4" x 47 1/4" x 3 7/16" (362mm x 1200mm x 87mm)
<b>Mounting Depth:</b>	3 3/8" (85.7mm)
<b>Mounting Bracket Width:</b>	16 1/4" (409.5mm)
<b>Hardware:</b>	Integrated L-bracket mounting system included
<b>Shipping Weight:</b>	51 lbs.



<b>Model:</b>	R12SUB ENC
<b>SKU:</b>	93355
<b>Unit of Measure:</b>	Each
<b>Material:</b>	MDF wood box with long strand fiberglass acoustic dampening material
<b>Compatibility:</b>	Fits the VP12SUB NC only
<b>Enclosure Dimensions (WxHxD):</b>	14 1/4" x 70 7/8" x 3 7/16" (362mm x 1800mm x 87mm)
<b>Mounting Depth:</b>	3 3/8" (85.7mm)
<b>Mounting Bracket Width:</b>	16 1/4" (409.5mm)
<b>Hardware:</b>	Integrated L-bracket mounting system included
<b>Shipping Weight:</b>	79 lbs.

## Specifications



<b>Model:</b>	DSP 2-150
<b>SKU:</b>	93354
<b>Number of Channels:</b>	2 (1 stereo pair)
<b>Output Power - 8 ohms:</b>	150 Watts RMS per channel (all channels driven)
<b>Output Power - 4 ohms:</b>	224 Watts RMS per channel (all channels driven)
<b>Output Power - 70 Volts:</b>	-
<b>Output Power - 8 ohms (Bridged):</b>	473 Watts
<b>Frequency Response:</b>	5Hz - 50kHz
<b>Operating Voltage:</b>	100 - 12V@60Hz, 220 - 240V@50Hz
<b>Rack Space Requirement:</b>	1U - 1/2 Rack Width
<b>Dimensions With Feet (WxHxD):</b>	8 5/8" x 2 1/8" x 16 13/16" (219mm x 54mm x 427mm)
<b>Rack Mounted Dimensions (WxHxD):</b>	8 5/8" x 1 3/4" x 16 13/16" (482mm x 44mm x 427mm)
<b>Shipping Weight:</b>	11 lbs (5.0kg)



<b>Model:</b>	DSP 2-750
<b>SKU:</b>	93355
<b>Number of Channels:</b>	2 (1 stereo pair)
<b>Output Power - 8 ohms:</b>	500 Watts RMS per channel (all channels driven)
<b>Output Power - 4 ohms:</b>	750 Watts RMS per channel (all channels driven)
<b>Output Power - 70 Volts:</b>	750 Watts RMS per channel (all channels driven)
<b>Output Power - 8 ohms (Bridged):</b>	2000 Watts
<b>Frequency Response:</b>	5Hz - 50kHz
<b>Operating Voltage:</b>	100 - 120V@60Hz, 220 - 240V@50Hz
<b>Rack Space Requirement:</b>	2U
<b>Dimensions With Feet (WxHxD):</b>	17 1/4" x 3 7/8" x 17 7/32" (438mm x 98mm x 437mm)
<b>Rack Mounted Dimensions (WxHxD):</b>	19" x 3 1/2" x 17 7/32" (482mm x 88mm x 437mm)
<b>Shipping Weight:</b>	23.3 lbs (10.6kg)

### R10SUB, R10SUB ENC, R12SUB AND R12SUB ENC LIMITED LIFETIME WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the life of the Product, except for the grille, which is warranted for five (5) years. Sonance will at its option and expense either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

### SONAMP DSP 2-150 AMPLIFIER AND SONAMP DSP 2-750 AMPLIFIER LIMITED TWO (2) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the life of the Product, which is warranted for two (2) years. Sonance will at its option and expense either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

Please visit our website and owner's e-Manual for complete warranty and exclusion information.



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