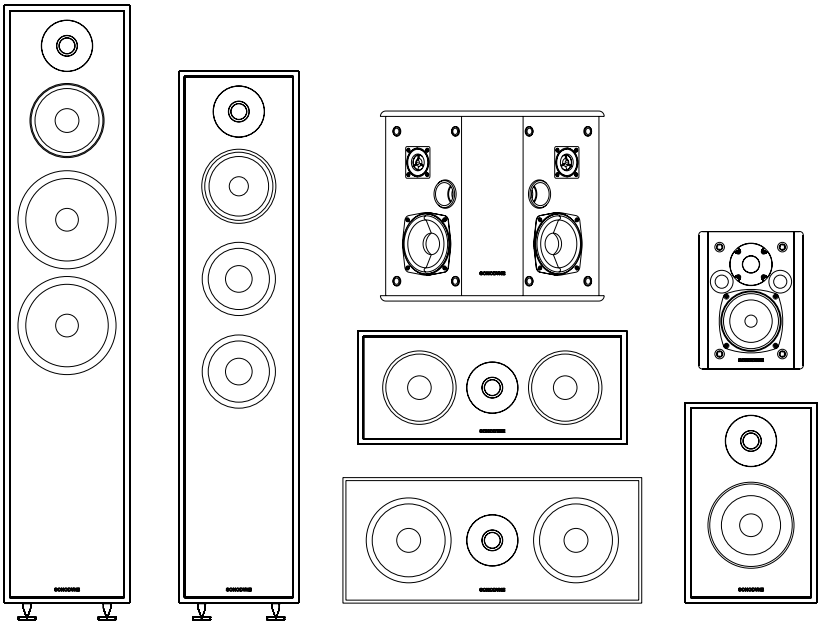
SONODYNE®

A LEGACY OF TRUE SOUND

SONUS 3000

owners manual



MADE IN INDIA
since 1970

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INTRODUCTION

Congratulations on your purchase of your Sonus 3000 Series loudspeaker. A worthy successor to the award winning 2000 series, this range surpasses its predecessor in build quality, design, frequency and dynamic bandwidth, and detailing. Be it for stereo or multichannel audio, you will find a suitable solution from this range. So go ahead and enjoy your favourite music and movies on the new Sonus 3000 Series.

UNPACKING

Your carton contains:

- 1 x loudspeaker
- 2.0 sq mm speaker cable 3m long
- For 3165, 3155: 4 sets of mounting accessories, each set comprising a spike and a disc for the spike

Please retain all packing materials in case you need to transport the loudspeaker

We suggest that the loudspeaker be "broken in", i.e., played for some time, so that it can quickly start performing at its best! If you do not want to do this when you are at home set your source unit, i.e., CD player on "repeat entire disc" mode. Then, allow the loudspeaker to play at moderate volume level for 6 - 8 hours.

AMPLIFIER SELECTION

We recommend using amplifiers whose continuous (rms) power per channel is greater than or equal to that the speaker handles.

The recommended amplifier is given under specifications. Please refer to page 14, 15 & 16. In the event that the power is greater, care must be taken to avoid playing music at excessively loud levels and thus damage the speaker. Also, while using an amplifier with rms power lower than the rated power handling of the speaker, please ensure that the amplifier volume is set such that there is no audible distortion. Lower powered amplifiers, operating at close to maximum volume, often produce distorted signals at high levels. This can lead to damage of the high frequency driver, the tweeters.

WIRE CONNECTIONS

Please proceed with the connection in the following fashion:

1. Turn off the amplifier
2. Gently pull off the insulation on the cable ends (which has been pre-cut at the factory) and twist the strands on the wire
3. Insert them into the holes on the gold plated binding posts and turn them to tighten. Please note the following

   A. Verify that the wires from the positive terminal and negative terminal do not touch each other, as a short-circuit could damage the amplifier.

   B. Verify that the loudspeaker is in proper phase: The + (red) terminal on the loudspeaker is connected to the + (red) terminal on the amplifier. The - (black) terminal on the loudspeaker is connected to the - (black) terminal on the amplifier.

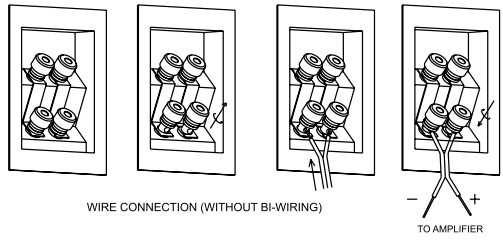
BI-WIRING SONUS 3155 AND 3165

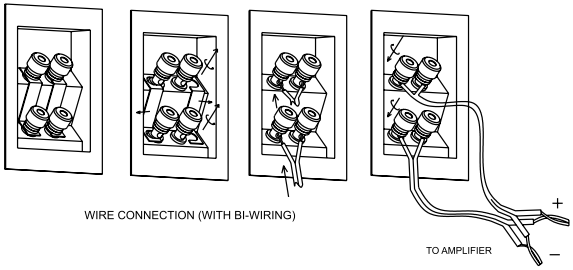
The Sonus 3165 and Sonus 3155 are equipped with (bi-wirable) gold-plated binding post terminals, where red indicates positive and black, negative. This allows discrete signals to the woofers, and the midrange + tweeter. This minimises crosstalk and distortion.

Please proceed as follows.

SINGLE WIRING: In this mode of connection, the bridges between the terminals should stay connected, and either pair of connectors (top or bottom pair) may be used

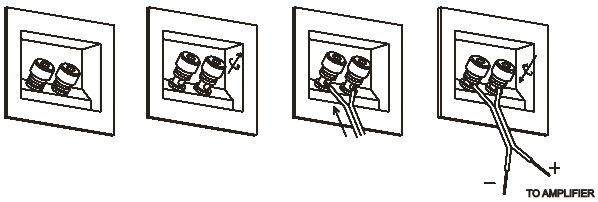
BI-WIRING: Please remove the bridges between the terminals and proceed for connection. Separate cables, one for woofer, and one for midrange + tweeter have to be used, as shown in the connection diagram below.





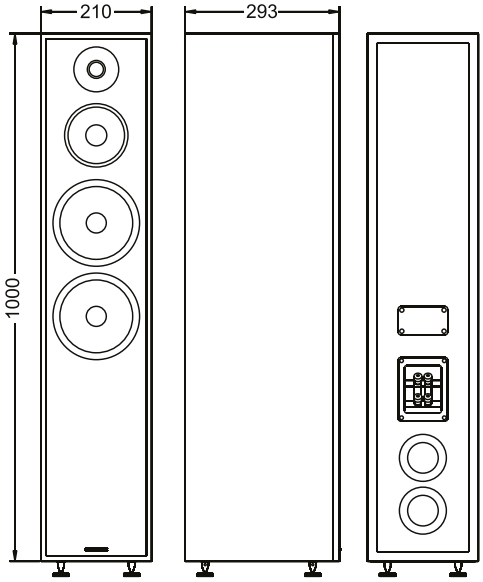
BI-WIRING SONUS 3260, 3360, 3350, 3440, 3540

These models have only one pair of terminal. Please proceed as per connection diagram below

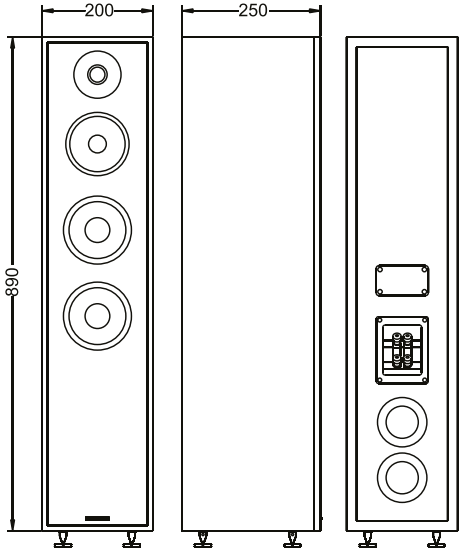


• line drawings •

SONUS 3165

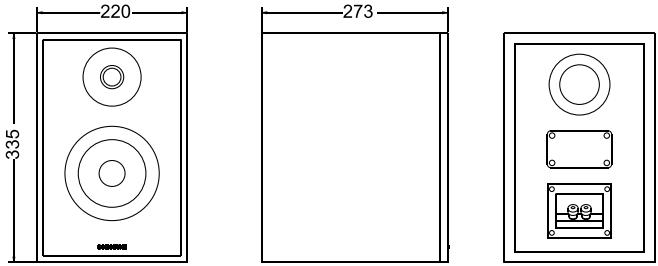


SONUS 3155

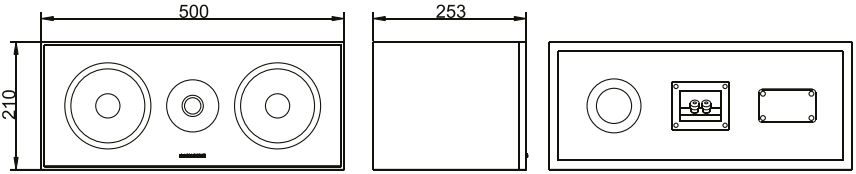


• line drawings •

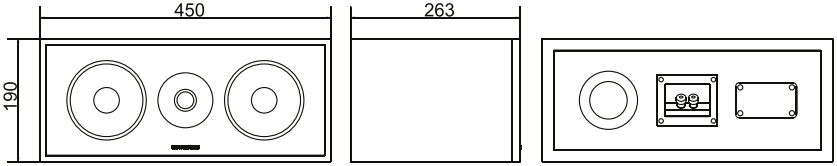
SONUS 3260



SONUS 3360

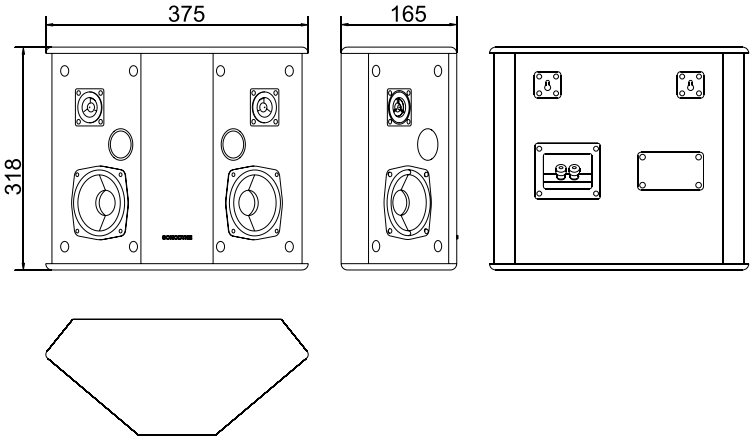


SONUS 3350

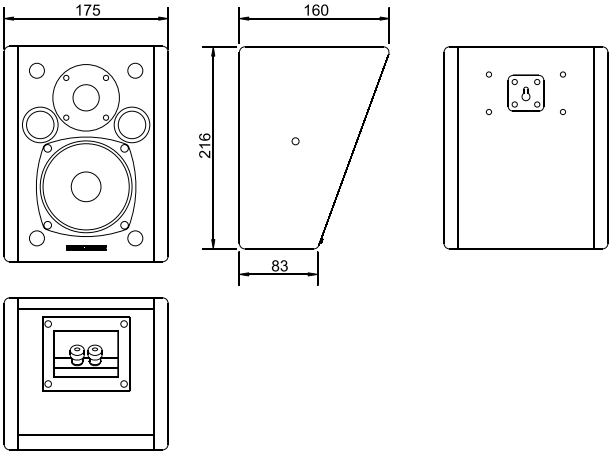


• line drawings •

SONUS 3440

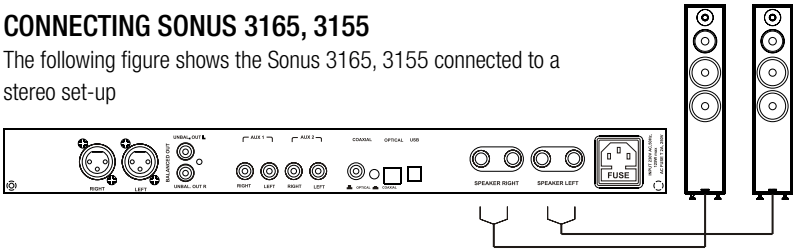


SONUS 3540

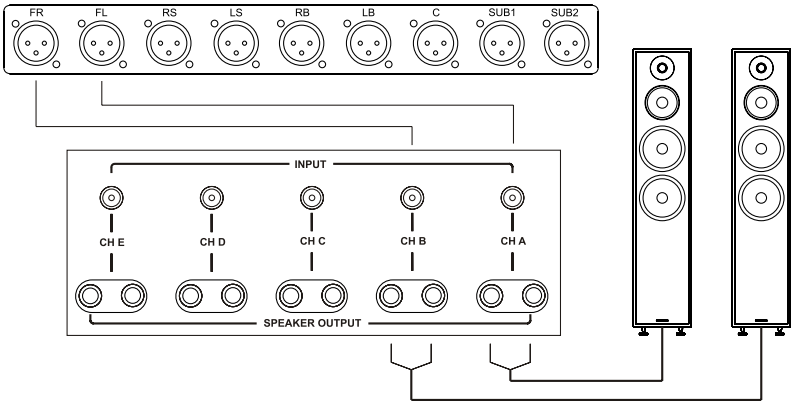


CONNECTING SONUS 3165, 3155

The following figure shows the Sonus 3165, 3155 connected to a stereo set-up

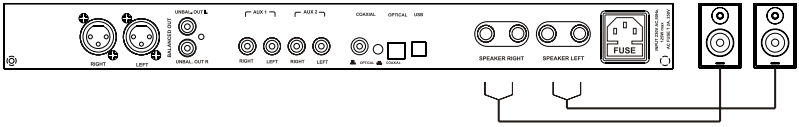


The following figure shows the Sonus 3165, 3155 connected as the front left and front right speakers in a 5.1 system



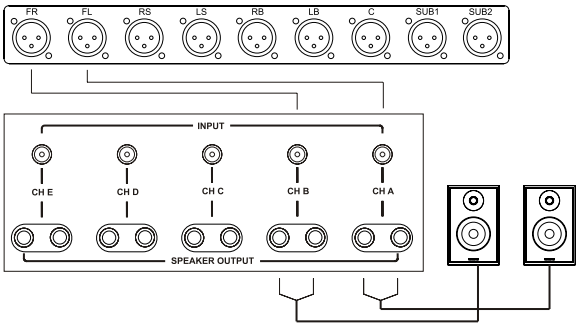
CONNECTING SONUS 3260

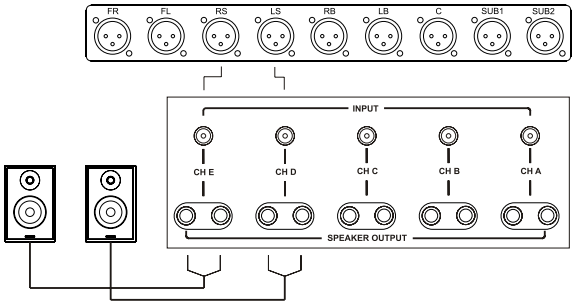
The following figure shows the Sonus 3260 connected to a stereo set-up



• connection diagrams •

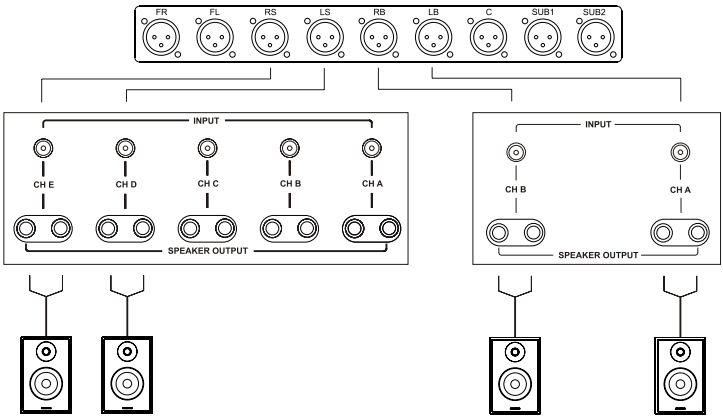
The following figure shows the Sonus 3260 connected as the front left and front right speakers in a 5.1 system





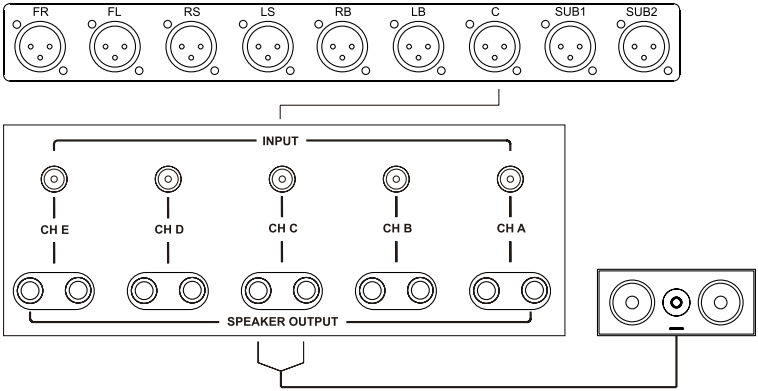
The 3260 may also be utilised as surround speakers, as shown in the attached connection diagram for a 5.1 system

For a 7.1 system, 4 x Sonus 3260s can be connected as shown in the diagram below



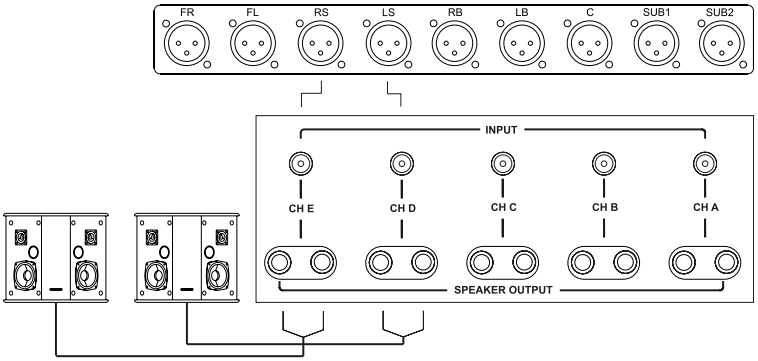
CONNECTING SONUS 3350, 3360

The following figure shows the Sonus 3350, 3360 connected as centre speakers in a 5.1 (or larger multi-channel) system



CONNECTING SONUS 3440, 3540

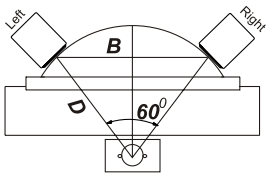
The following diagram shows 2 x Sonus 3440/ 3540 connected as surround speakers in a 5.1 system



PLACING SONUS 3155, 3165

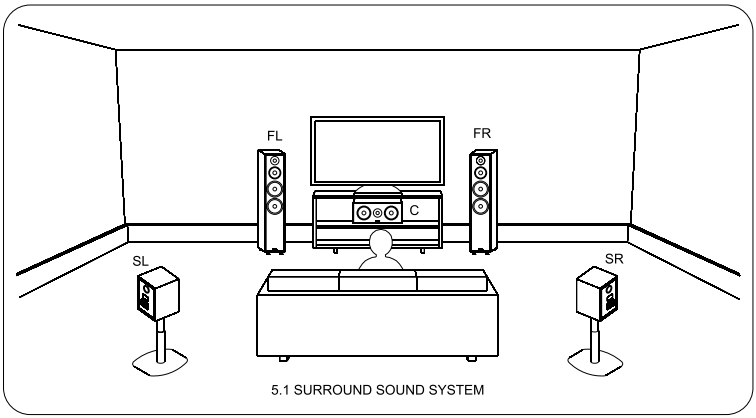
Finding the right position for the Sonus 3165, 3155s are also very important. The following should aid in locating that optimal position:
Ensure that there are no objects between the speaker and the listener in general. Placing a loudspeaker near a rear and /or side wall will boost the low frequency level but at the same time create reflections in the midrange and treble area, which results in a deterioration of the stereo image. Therefore, it is not possible to recommend one single perfect placement in relation to the rear wall, as the optimum distance will depend very much on the acoustics of the listening room. As a guideline, the optimum placing will be about 30 ~ 60 cm from the rear wall. The distance to the side wall should be at least 50 ~ 80 cm.

The distance between the Sonus 3165, 3155s should be the same as the distance from either loudspeaker (left and right) to your preferred listening position (thus forming an equilateral triangle with the left, right speakers, and you as the three vertices.) If distances are not a premium, then the optimal position could be attained by playing a stereo recording, separating the Sonus 3165, 3155s till an acoustical hole is formed in the middle. Then bring the two Sonus 3165, 31555s together to attain a uniform sound front.
The Sonus 3165, 3155s should be angled slightly toward the listening position, to suit room acoustics and your taste. This will also ensure that the optimum listening position becomes less critical.



D=0.7 TO 2M

The following figure shows a typical room placement with the Sonus 3165 and 3155 connected as front left and right speakers in a 5.1 system



5.1 SURROUND SOUND SYSTEM

PLACING SONUS 3260

Finding the right position for the onus 3260s is very important. The following should aid in locating that optimal position:

As main speakers in your home theater system or in your stereo system

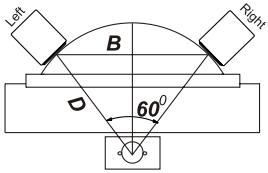
Ensure that there are no objects between the speaker and the listener in general, placing a loudspeaker near a rear and/or side wall will boost the low frequency level but at the same time create reflections in the midrange and treble area, which results in a deterioration of the stereo perspective. Therefore, it is not possible to recommend one single perfect placement in relation to the rear wall, as the optimum distance will depend very much on the acoustics of the listening room. As a quideline, the optimum placing will be about 30 ~ 60 cm from the rear wall. The distance to the side wall should be at least 50 ~ 80 cm.

The distance between the Sonus 3260s should be the same as the distance from either loudspeaker (left and right) to your preferred listening position (thus forming an equilateral triangle with the left, right speakers, and you as the three vertices.) If distances are not a premium, then the optimal position could be attained by playing a stereo recording, separating the Sonus 3260s till an acoustical hole is formed in the middle. Then bring the two Sonus 3260s together to attain a uniform sound front.

The Sonus 3260s should be angled slightly toward the listening position, to suit room acoustics and your taste. This will also ensure that the optimum listening position becomes less critical.

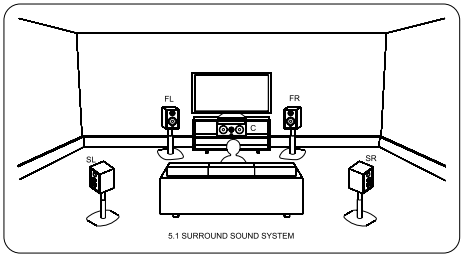
The Sonus 3260s should be placed on either a solid bookshelf or a floor-stand to raise the centre point of the loudspeaker's front baffle position (mid position between the woofer's center and the tweeter's center) to the actual ear level, which for an average person is about 1m from the floor.

The Sonus 3260s may be placed on speaker stands or wall-mounted. To wall mount, the built-in inserts on the bottom may be utilised for making a L type shelf mounted to the wall.

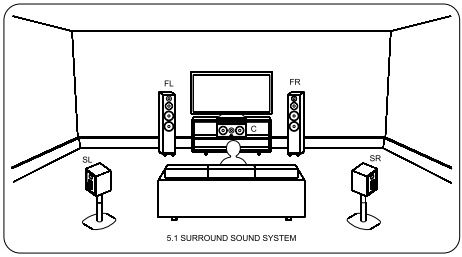


D=0.7 TO 2M

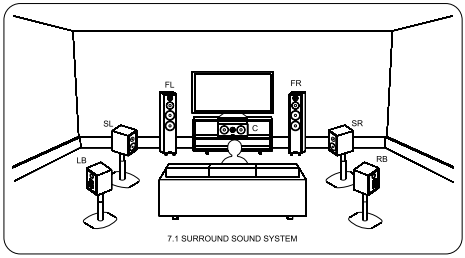
The following figure shows the 3260s used as front left and right speakers in a 5.1 system



The following figure shows the 3260s used as surround speakers in a 5.1 system

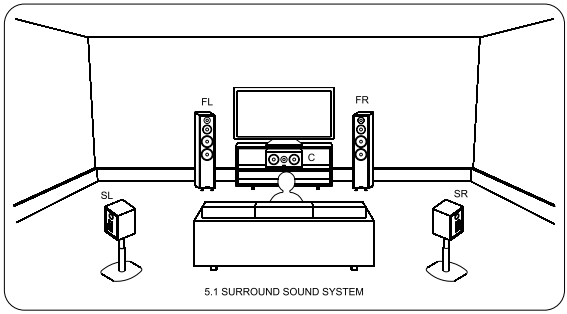


The following figure shows the 3260s used as surround speakers in a 7.1 system



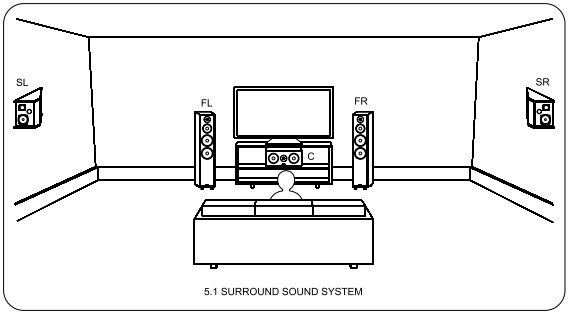
PLACING SONUS 3360, 3350

Sonus 3350/ 3360 should be placed immediately above or below the TV set. This position ensures perfect integration between picture and sound, thus the optimum and most realistic experience, as illustrated in the figure below



PLACING SONUS 3440

The Sonus 3440 is intended to be used as the left and right surround speakers in a 5.1 system. The objective of the Sonus 3440 is to create a diffused surround sound field: one in which vou should be immersed. To do so, the Sonus 3440 must be mounted ideally to the left and right wall of where the listener is seated. The key is to produce a null sound field directly in front. The sound from the speakers do not reach the listener directly, instead the reflections from adjoining surfaces reach the listener.



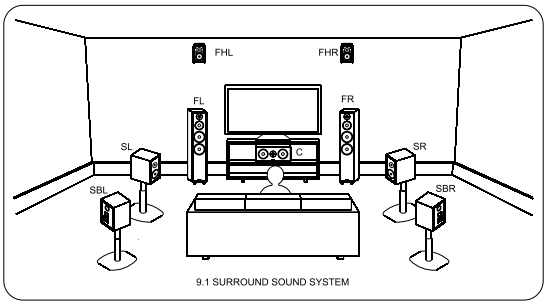
The Sonus 3440 has a pair of key-hole brackets on the rear to hang them on the wall. Drill holes on the wall at a center distance of 203mm (8 inch) and drive mounting screws into the wall. Hang the speaker on these two screws. Ensure that the holes are on the same horizontal line or the speakers would be tilted when hung. You may also, of course, set them atop a customised rack or shelf.

PLACING SONUS 3540

The Sonus 3540 can be used as

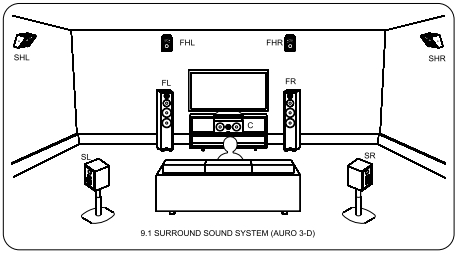
- front height speakers (left and right) in a 9.1 system such as Audyssey DSX, DTS Neo:X, Dolby ProLogicIIz
- both as front height and side height speakers in Auro 9.1 3-D system
- additionally as height speakers for ceiling in 11.1 channel system.

For wall-mounting the Sonus 3540, a key hole bracket is provided on the rear to mount directly on the wall. For ceiling mount, a U bracket is provided which is fixed to the sides, allowing the speaker to be tilted to make it down-firing. When used as front height speakers in a 9.1 system they are generally mounted at a height of about 2- 3 meterand angled to fire at the listener



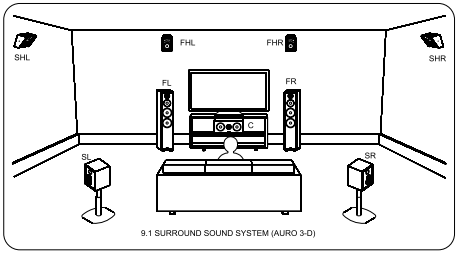
9.1 SURROUND SOUND SYSTEM

For Auro 3-D 9.1 surround sound system the side surround speakers are replaced by a left height and a right height surround speaker, thus requiring a total of 4 height surround speakers for all of which the Sonus 3540s can be used. This is shown in the figure below.



9.1 SURROUND SOUND SYSTEM (AURO 3-D)

In 11.1 channel systems, there are 2 additional ceiling mount speakers as shown in the figure below.



9.1 SURROUND SOUND SYSTEM (AURO 3-D)

ACOUSTICS OF THE LISTENING ROOM

The acoustical makeup of your listening room is key in determining how good (bad) is the sound that reaches your ear. The contents of a room (carpets, curtains, furniture etc.), its shape, and the material of which the boundaries are made, make or break your sound. The idea is to have a listening area where the absorptions and reflections are calibrated to attain, as far as possible, a neutral environment. While there are no 'quick fix' formulae to convert a 'room' to an 'ideal listening room,' here are some things that you might try to attain optimal performance.
In vour listening room, clap our hands. snap your fingers, and jingle a ring of keys.
If the resulting sound is unintelligible (muffled), and resonating, your room is inclined toward being reflective. In this event, you might want to: Hang up curtains/ Lay a carpet or rug/ Introduce book cases/ other racks. In the event that the resulting sound is too damped your room is inclined toward being absorptive. You might want to remove some of the absorptive material (like those given above)

CARE AND MAINTENANCE

All Sonodyne loudspeakers of the Sonus range are manufactured with modern and thoroughly tested materials, which normally do not require any maintenance other than once in a while opening the front grille and vacuuming the cloth. If the loudspeaker cabinet becomes greasy you may clean it by moistening a soft cloth with water and a mild soap to remove the dirt. Then, use a dry cloth to wipe and restore the original finish.
Please DO NOT use scouring powder, petrol, or any sort of alcohol or solvents to clean the loudspeaker. It will damage the finish permanently

SPECIFICATIONS

	SONUS 3165	SONUS 3155
DESCRIPTION	3 way vented, floorstanding speaker	3 way vented, floorstanding speaker
ENCLOSURE	MDF	MDF
TRANSDUCER COMPLEMENTS	2 x 6" woofer 1 x 5" midrange 1 x 1" dome tweeter	2 x 5" woofer 1 x 5" midrange 1 x 1" dome tweeter
RECOMMENDED AMPLIFIER POWER	60 ~ 150 watt	60 ~ 125 watt
NOMINAL IMPEDANCE	8Ω	8Ω
SENSITIVITY, 1W 1M	92dB	90dB
FREQ. RESPONSE (-3dB) ON AXIS	50Hz ~ 20kHz	60Hz ~ 20kHz
FREQ. EXTENSION (-10dB)	38Hz ~ 22kHz	42Hz ~ 22kHz
CROSSOVER FREQ.	900Hz, 3.5kHz	930Hz, 3.5kHz
INPUTS	Gold plated binding post	Gold plated binding post
FINISH	Front: Ash; Outer skin: Option of black ash or rosewood	Front: Ash; Outer skin: Option of black ash or rosewood
DIMENSIONS (H x W x D)	1000 x 210 x 293 mm	890 x 200 x 250 mm
NET WEIGHT	19.2kg	15kg

Due to continuous improvements, all specifications are subject to change

• specifications •

	SONUS 3360	SONUS 3350
DESCRIPTION	2 way, MTM, vented center speaker	2 way, MTM, vented center speaker
ENCLOSURE	MDF	MDF
TRANSDUCER COMPLEMENTS	2 x 6" woofer 1 x 1" dome tweeter	2 x 5" woofer 1 x 1" dome tweeter
RECOMMENDED AMPLIFIER POWER	60 ~ 150 watt	60 ~ 125 watt
NOMINAL IMPEDANCE	8Ω	8Ω
SENSITIVITY, 1W 1M	90dB	90dB
FREQ. RESPONSE (-3dB) ON AXIS	55Hz ~ 20kHz	65Hz ~ 20kHz
FREQ. EXTENSION (-10dB)	50Hz ~ 22kHz	58Hz ~ 22kHz
CROSSOVER FREQ.	3.2kHz	2.6kHz
INPUTS	Gold plated binding post	Gold plated binding post
FINISH	Front: Ash; Outer skin: Option of black ash or rosewood	Front: Ash; Outer skin: Option of black ash or rosewood
DIMENSIONS (H x W x D)	210 x 500 x 253 mm	190 x 450 x 263 mm
NET WEIGHT	9.8kg	7.9kg

Due to continuous improvements, all specifications are subject to change

• specifications •

	SONUS 3260	SONUS 3440	SONUS 3540
DESCRIPTION	2 way vented, bookshelf speaker	2 way vented dipole surround	2 way vented height surround
ENCLOSURE	MDF	MDF	MDF
TRANSDUCER COMPLEMENTS	1 x 6" woofer 1 x 1" dome tweeter	2 x 4" woofer 2 x 1/2" dome tweeter	1 x 4" woofer 1 x 1" dome tweeter
RECOMMENDED AMPLIFIER POWER	60 ~ 100 watt	60 ~ 125 watt	60 ~ 100 watt
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω
SENSITIVITY, 1W 1M	89dB	88dB	85dB
FREQ. RESPONSE (-3dB) ON AXIS	55Hz ~ 20kHz	75Hz ~ 20kHz	80Hz ~ 20kHz
FREQUENCY EXTENSION (-10dB)	45Hz ~ 22kHz	60Hz ~ 22kHz	65Hz ~ 22kHz
CROSSOVER FREQUENCY	3.2kHz	3.5kHz	3.2kHz
INPUTS	Gold plated binding post	Gold plated binding post	Gold plated binding post
FINISH	Front: Ash; Outer skin: Option of black ash or rosewood	Front: Ash; Outer skin: Option of black ash or rosewood	Matte black painted
DIMENSIONS (HxWxD)	335x220x273 mm	318x375x165 mm	216x175x160 mm
NET WEIGHT	7kg	8.9kg	3.2kg

Due to continuous improvements, all specifications are subject to change

• warranty information •

In substitution of any warranty or condition implied, this equipment is warranted against failure arising through faulty workmanship or material for a period of 24 calendar months from the date of purchase. During this period, subject to the conditions stated here, the manufacturer will replace or repair any defective part free of charge (including parts and labour). This warranty is only given with respect to faulty workmanship and/ or materials and does not cover misuse or consequential damage. Claims under the warranty will be considered only if the product is returned to an authorised SONODYNE Service Centre directly, or through an authorized reseller.

- This warranty is applicable only to the original purchaser when purchase is made directly from SONODYNE or from an authorized SONODYNE reseller. Any claim be accompanied by the original Tax / GST invoice.
- The warranty DOES NOT COVER:
  a. Damage resulting from incorrect installation or use not in accordance with the operating instruction issued by the manufacturer.
  b. Consequential damage.
- This warranty will be rendered invalid if any unauthorized alteration, modification or substitution is carried out or if the Serial No. is altered and/ or defaced.
- All equipment for servicing must be sent, carriage paid, to an authorized Service Centre, The Company will accept no responsibility for loss or damage in transit
- If the equipment or any part of it is returned for any cause not covered by the warranty, all costs involved, including charges for inspection and handling will have to be borne by the customer.
- No reseller has the authority to vary the terms of this warranty.

Register your product
to activate your warranty:
https://sonodyne.com/registerproduct

Upload a picture or video of your Sonodyne product or write about your Sonodyne experience.
https://sonodyne.com/review

If you have anything less than a 5 star experience,
please contact us at **response@sonodyne.com**
and we will make it right

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