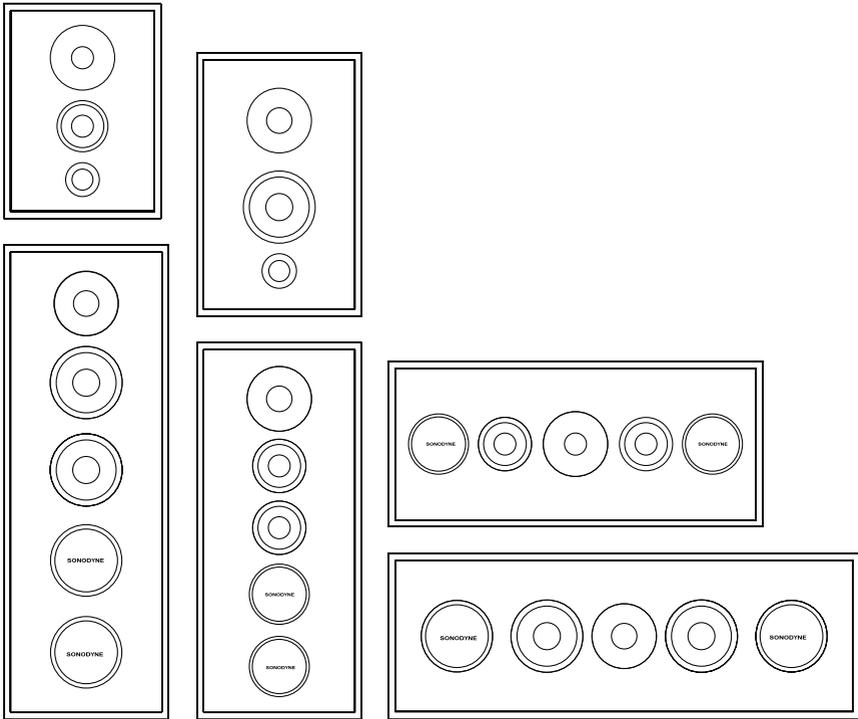


IWO

passive speakers | owners manual



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INTRODUCTION

Congratulations on your purchase of your IWO series loudspeaker. The IWO Series is a break-through in loudspeaker design for the modern home, combining style and decor with an amazing sound quality. Elegantly finished in glossy white or black, it is only 4" deep, and yet produces a full-bodied dynamic and detailed sound. It can be easily hung on your wall without looking obtrusive. What's more, you can even flush-mount on your wall using the ingenious wall-mounting kit (optional).

As far as performance is concerned, the IWO series ticks all the right boxes - 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 play your favourite music and movies and let your eyes and ears feast.

UNPACKING

Your carton contains:

- 1 x loudspeaker
- Audiophile grade speaker cable, 3m long

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. Recommended power ratings of amplifier are given under specifications. Please see page 20 & 21.

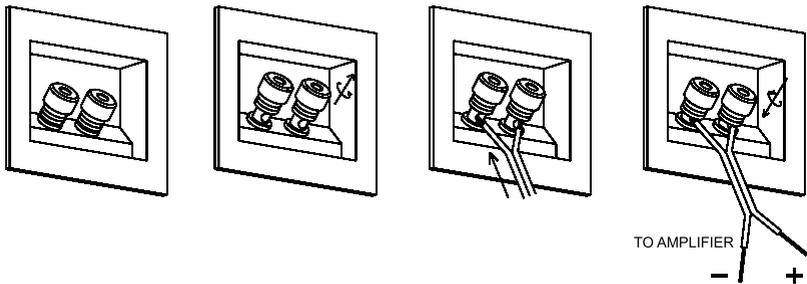
In the event that the power is greater, care must be taken to avoid playing music at excessively loud levels and thus damage the speaker. Also, while using an amplifier with rms power lower than the rated power handling of the speaker, please ensure that the amplifier volume is set such that there is 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 tweeter.

WIRE CONNECTIONS

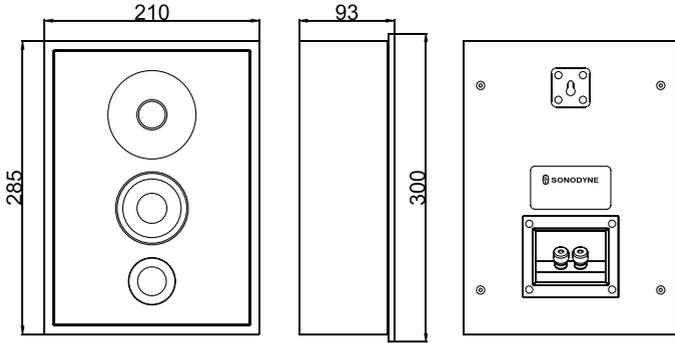
Please proceed with the connection in the following fashion:

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.

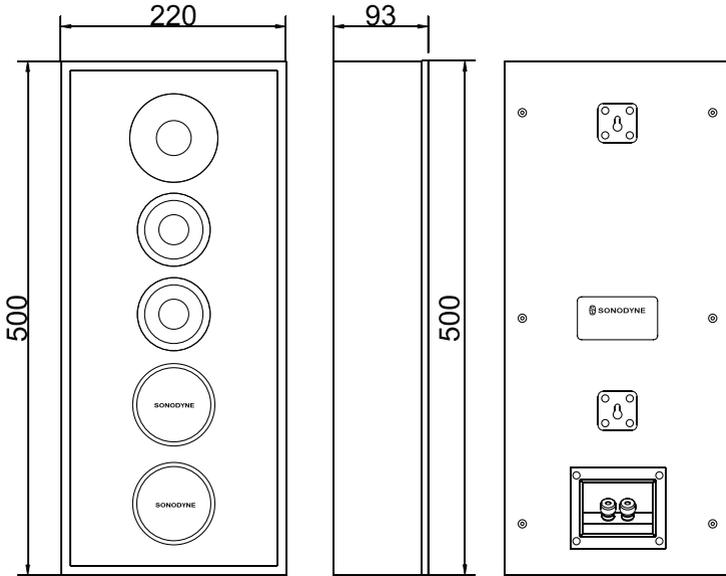
The above are illustrated by the following sketch



● line drawings ●

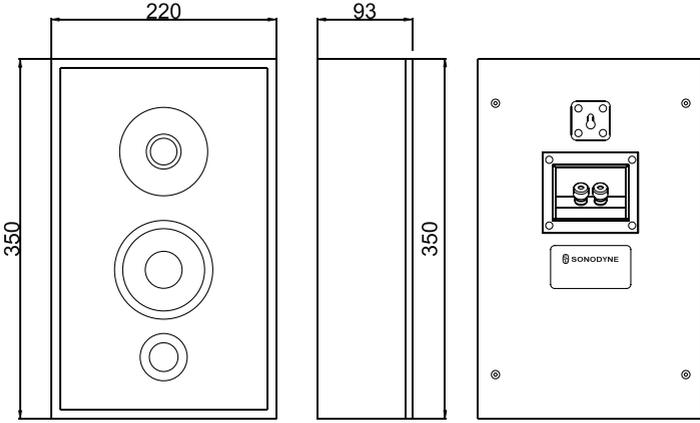


● IWO 501 ●

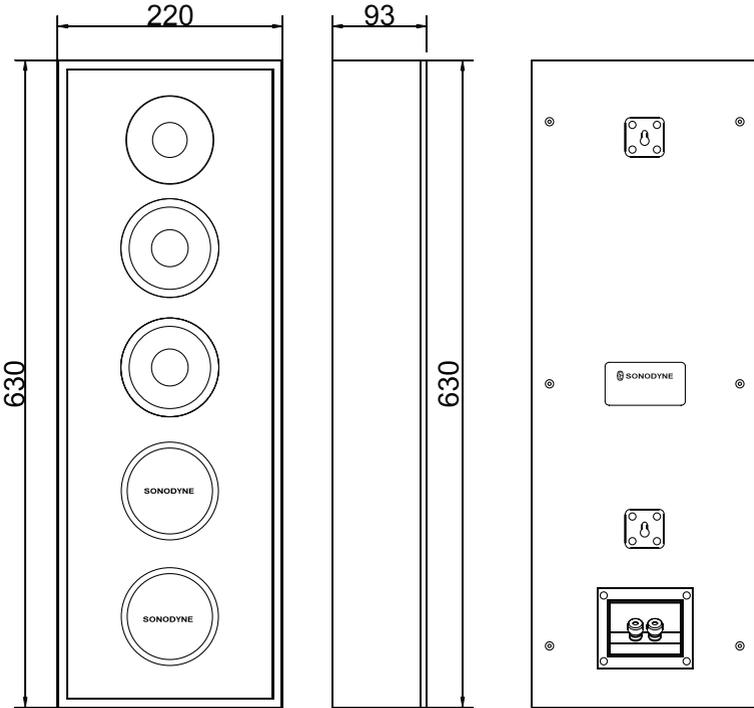


● IWO 611 ●

● line drawings ●

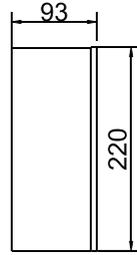
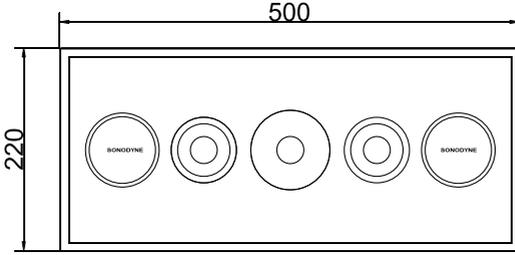


● IWO 502 ●

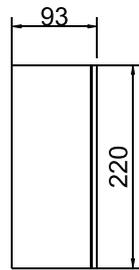
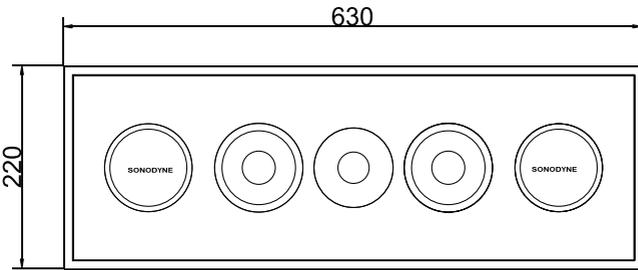
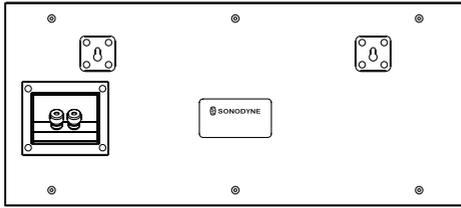


● IWO 612 ●

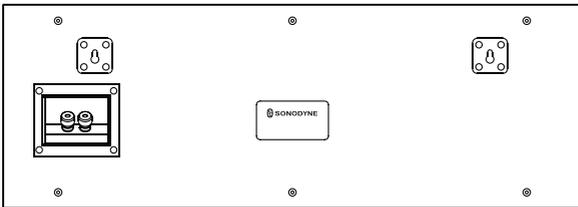
● line drawings ●



● IWO 621 ●



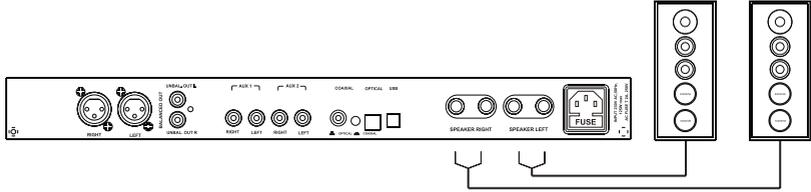
● IWO 622 ●



● connection diagrams ●

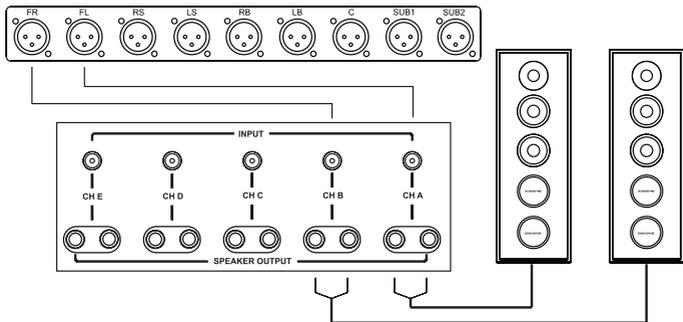
6a. CONNECTING IWO 501, 502, 611 and 612

The following figure shows the IWO 501, 502, 611 and 612 connected to a stereo setup.



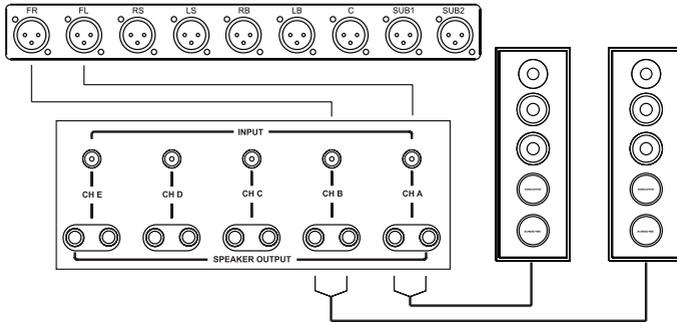
6b. CONNECTING IWO 501, 502, 611 and 612

connected as the front left and front right speakers in a 5.1 system



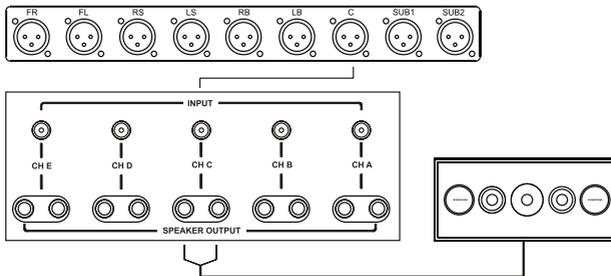
6c. CONNECTING IWO 621 and 622

The following figure shows the IWO 621 and 622 connected as the center speaker in a 5.1 (or larger multichannel) system



6d. CONNECTING ADDITIONAL IWO 501, 502, 611 & 612 AS SURROUND SPEAKERS

The following figure shows 2 x IWO 501,502,611 and 612 connected as the surround speakers in a 5.1 system



• speaker placements •

7a. PLACING STEREO OR FRONT LEFT AND RIGHT SPEAKERS IN A MULTI-CHANNEL SYSTEM

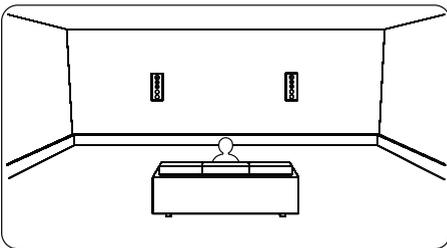
Finding the right position for the IWO 501, 502, 611 and 612 are also very important. The following should aid in locating that optimal position:

Ensure that there are no objects between the speaker and the listener in general. Avoid placing the loudspeakers near corners which 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. As a guideline, for optimum placement, the distance to the side wall should be at least 50 ~ 80 cm.

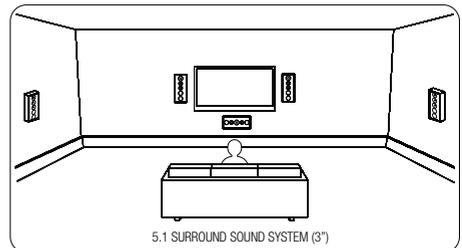
The distance between the IWO 501, 502, 611 and 612 should be the same as the distance from either loudspeaker (left and right) to your preferred listening position (thus forming an equilateral triangle with the left, right speakers, and you as the three vertices.) If distances are not a premium, then the optimal position could be attained by playing a stereo recording, separating the left and right speakers till an acoustical hole is formed in the middle. Then bring the two speakers together to attain a uniform sound front.

Another important point to bear in mind while placing the speakers is that the tweeters of the speaker are at ear level. Detach the grill so you can see the tweeter

The following figure shows a typical room placement with the 501,502, 611 and 612 connected as the front left and right speakers in a stereo system



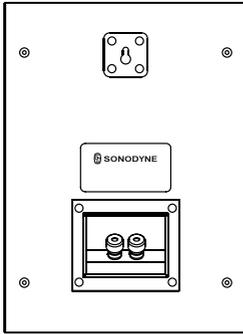
The following figure shows a typical room placement with the IWO 501,502,611 and 612 connected as the front left and right speakers in a 5.1 system



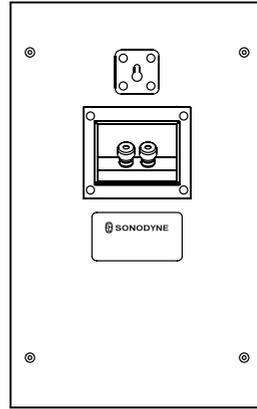
● on-wall mounting ●

IWO 501 and 502

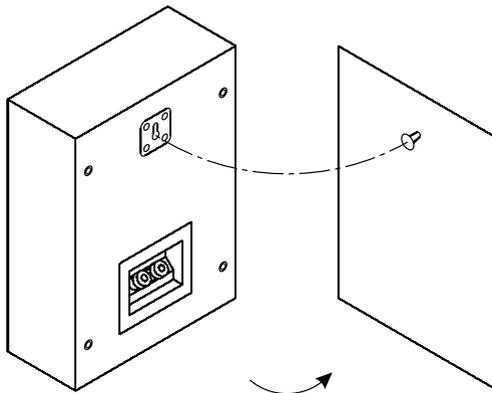
The IWO 501 and 502 have a key-hole type bracket at the rear, right in the middle, near the top. You can use this to hang the speaker on the wall, like a picture frame. Please see figure below.



IWO 501



IWO 502



ON WALL MOUNTING

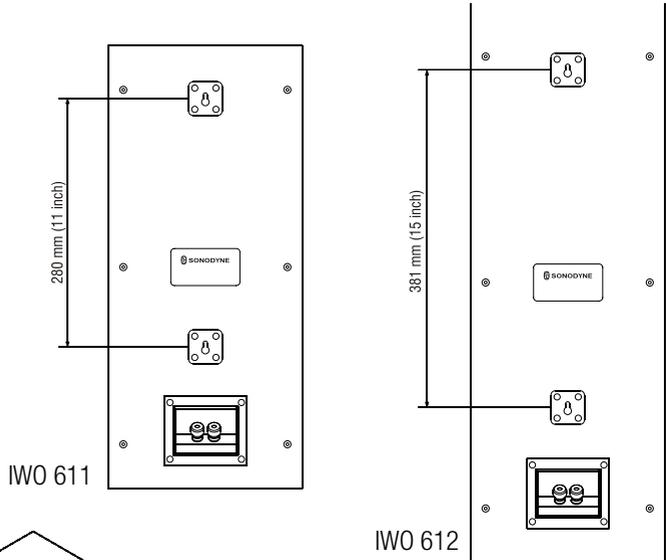
● on-wall mounting ●

IWO 611 and 612

The IWO 611 and 612 have 2 such key-hole brackets, placed vertically on the rear of the cabinet and at the horizontal center. Fix 2 screws vertically on the wall at a center distance as follows

- 280mm or 11", for the IWO 611
- 381mm or 15", for the IWO 612

Make sure that the screws lie on the same vertical plane. Hang the speaker on these 2 screws. Please see figure below



ON WALL MOUNTING

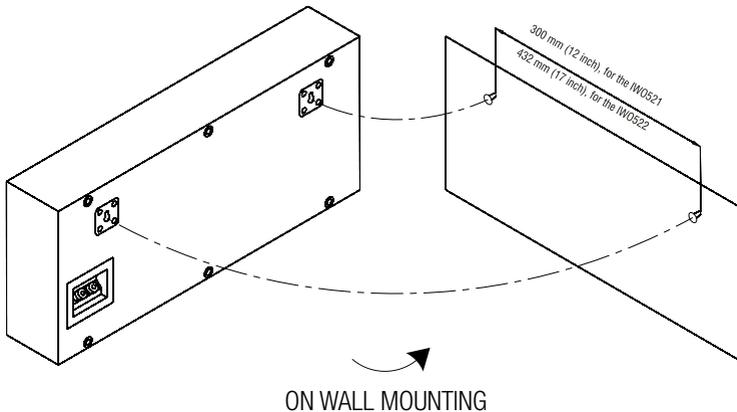
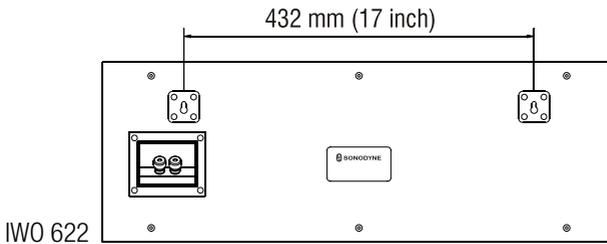
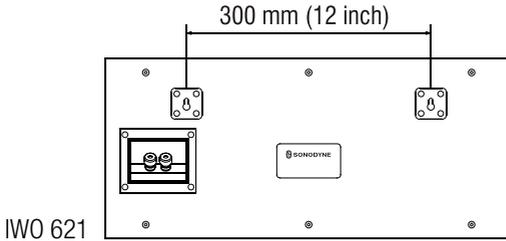
● on-wall mounting ●

IWO 621 and 622

These cabinets are supposed to be mounted vertically. Two key-hole type brackets are provided on the rear, in the same horizontal line on which the cabinet is hung. Fix 2 screws horizontally on the wall at a center distance as follows

- 300mm or 12", for the IWO 611
- 432mm or 17", for the IWO 612

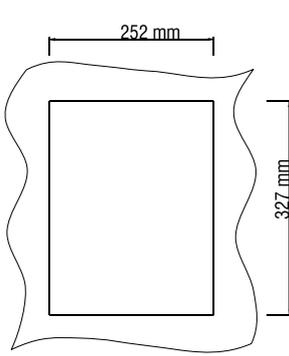
Make sure that the screws lie on the same horizontal line or the speaker will be tilted when hung. Hang the speaker on these 2 screws. Please see figure below



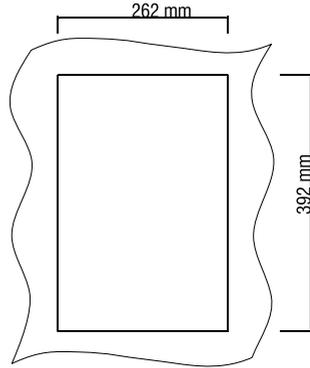
• cut-out on dry wall •

• in-wall mounting •

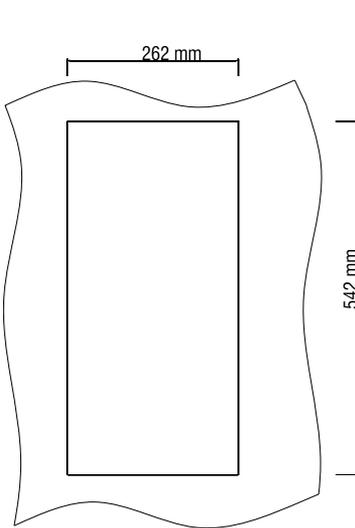
Each IWO speaker is provided with mounting inserts on the rear that allow them to be flush-mounted on a wall with the help of the optional in-wall mounting kit. First make a cut-out on the dry wall for the IWO speakers as shown in the figure below.



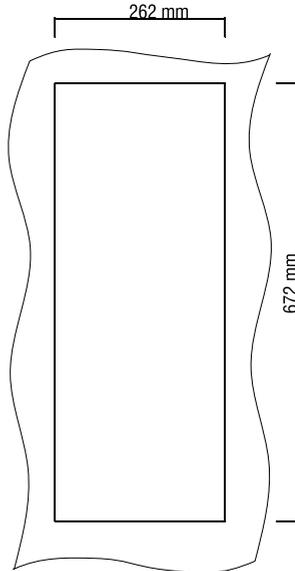
IWO 501



IWO 502

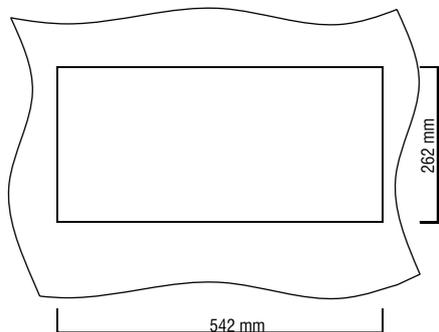


IWO 611

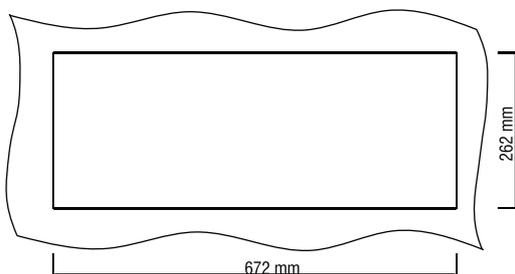


IWO 612

● in-wall mounting ●



IWO 621



IWO 622

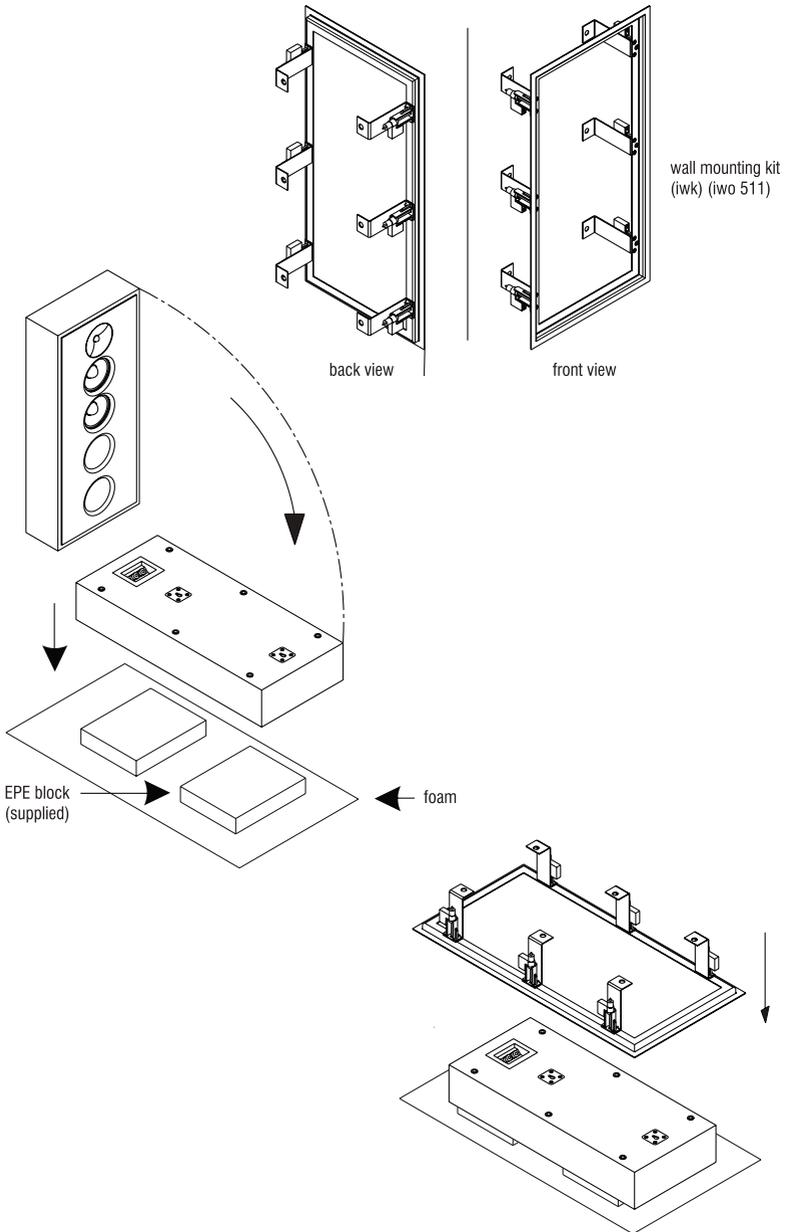
● cut-out on dry wall ●

Next fit the in-wall mounting kit to the speakers. Proceed as follows

- Detach the magnetic grill and put the cabinet face down on a table. Use a foam or similar substance so that the cabinet front does not develop any scratch. Position the kit so that the frame of the kit slides into the cabinet till the metal tongues of the kit come to rest on the cabinet back.
- Fix the machine screws along with flat washer and spring washer supplied, to hold the tongues to the cabinet back. Tighten the screws.
- Next fit the plastic accessories known as dog-ears. Slide the dog-ears inside the plastic tubes on the frame and fix with self-tapping screws supplied. Do not tighten – ensure that the screws are just mated with the dog-ears.
- Turn the dog-ears so that they are vertical. Hold the metal frame and insert the cabinet inside the cut-out on the dry-wall.
- Tighten the screws so that the dog-ears hold the metal frame snugly against the dry-wall.
- Attach the new grill supplied with the kit.

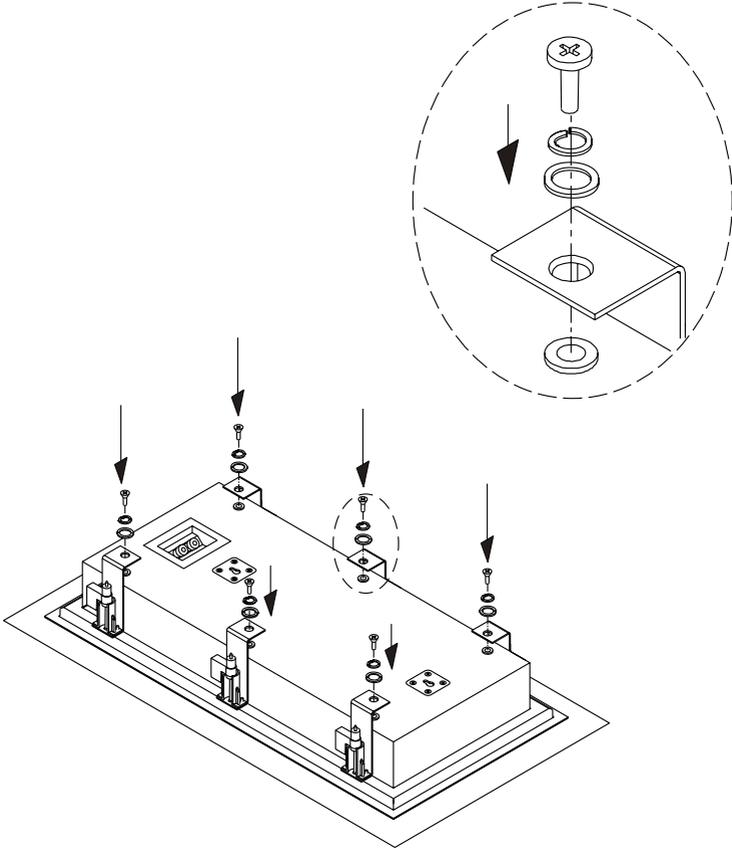
● in-wall mounting ●

FIG. 1



• in-wall mounting •

FIG. 2



• in-wall mounting •

FIG. 3

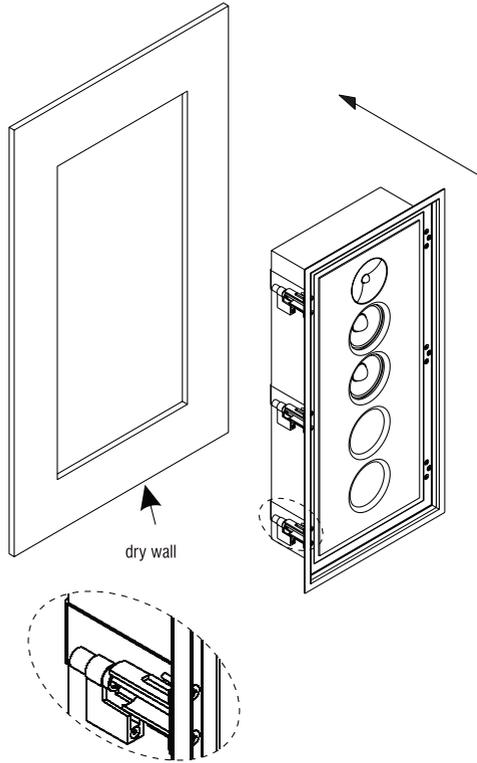
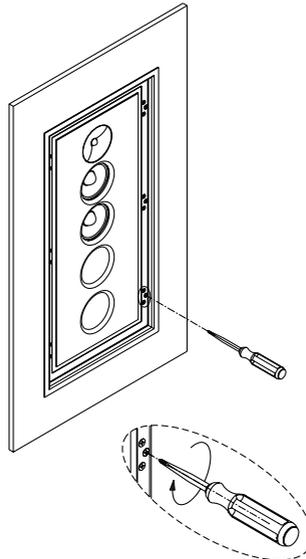
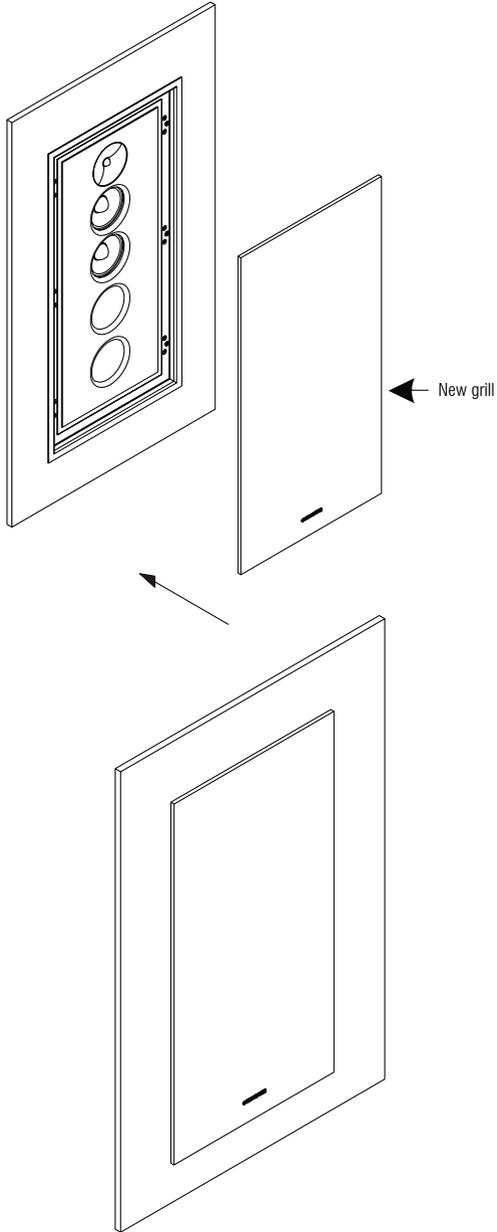


FIG. 4



● in-wall mounting ●

FIG. 5



• 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 your listening room, clap your 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 & 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's 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 ●

	IWO 501	IWO 502	IWO 611
DESIGN	2 way, bass-reflex on-wall/in-wall speaker	2 way, bass-reflex on-wall/in-wall speaker	2½ way, bass reflex on-wall/in-wall speaker
ENCLOSURE	MDF	MDF	MDF
TRANSDUCER COMPLEMENTS	3" woofer 1" dome tweeter	4" woofer 1" dome tweeter	2 x 3" woofer 1" dome tweeter 2 x 3" passive radiator
RECOMMENDED AMPLIFIER POWER	40 ~ 80 watt	60 ~ 100 watt	60 ~ 100 watt
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω
SENSITIVITY, 1W 1M	80dB 80Hz ~ 20kHz	85dB 70Hz ~ 20kHz	83dB 75Hz ~ 20kHz
FREQUENCY EXTENSION (-10 dB)	70Hz ~ 22kHz	60Hz ~ 22kHz	65Hz ~ 22kHz
CROSSOVER FREQUENCY	1.6kHz	1.8kHz	970Hz, 2.3kHz
INPUTS	Gold plated binding post	Gold plated binding post	Gold plated binding post
FINISH	Colour options: semi gloss white/black	Colour options: semi gloss white/black	Colour options: semi gloss white/black
DIMENSIONS (H x W x D) mm	285 x 210 x 98	350 x 220 x 98	500 x 220 x 98
NET WEIGHT	3kg	3.7kg	5kg

Due to continuous improvements, all specifications are subject to change

● specifications ●

	IWO 612	IWO 621	IWO 622
DESIGN	2½ way, bass reflex on-wall/ in-wall speaker	2 way, MTM, bass-reflex, on-wall /in-wall, center speaker	2 way, MTM, bass-reflex, on-wall /in-wall, center speaker
ENCLOSURE	MDF	MDF	MDF
TRANSDUCER COMPLEMENTS	2 x 4" woofer 1" dome tweeter, 2 x 4" passive radiator	2 x 3" woofer 1" dome tweeter 2 x 3" passive radiator	2 x 4" woofer 1" dome tweeter 2 x 4" passive radiator
RECOMMENDED AMPLIFIER POWER	60 - 120 watt	60 - 100 watt	60 - 120 watt
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω
SENSITIVITY, 1W 1M	88dB 70Hz ~ 19kHz	82dB 75Hz ~ 20kHz	87dB 70Hz ~ 19kHz
FREQUENCY EXTENSION (-10 dB)	55Hz ~ 22kHz	65Hz ~ 22kHz	55Hz ~ 22kHz
CROSSOVER FREQUENCY	770Hz, 2.3kHz	1.6kHz	2.5kHz
INPUTS	Gold plated binding post	Gold plated binding post	Gold plated binding post
FINISH	Colour options: semi gloss white/ black	Colour options: semi gloss white/ black	Colour options: semi gloss white/ black
DIMENSIONS (H x W x D) mm	630 x 220 x 98	220 x 500 x 98	220 x 630 x 98
NET WEIGHT	6.4kg	4.9kg	6kg

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

SONODYNE[®]

SONODYNE, India • H.O.: 98 NB Block E New Alipore, Kolkata 700053

 sonodyneofficial

 1 800 31 31 035

 +91 9830855260

 response@sonodyne.com

 sonodyneofficial

 www.sonodyne.com