

aurelia
aniara

User Manual

Congratulations on your excellent choice of loudspeaker!

We hope that you will have a great deal of happy audio moments with your Aurelia Aniara loudspeakers for many years to come!

We recommend that you carefully read the user manual through and follow the guidelines which are provided. This will ensure that the installation and first use of the loudspeaker will be both simple and easy.

Thereafter, you will be able to confidently switch your sound reproduction equipment on and enjoy an unprecedented quality of sound.

Installation to a stand and wall brackets

On the rear panel of Aniara exists a 1/4 "inch thread for ceiling or wall-bracket. Speakers will be mounted to the wall-mounting bracket according to the manufacturer's instructions. Speakers comes with 8 pieces of rubber feets (4 for each speaker) which will be installed in the speaker bottom of each corner. The speakers can also be mounted on pedestals using double-sided tape or Blu-Tack.

The connection of an amplifier to the loudspeakers

NOTE! Always switch the amplifier off before connecting or disconnecting loudspeaker cables.

The loudspeakers are connected to an amplifier through the connections and speaker cables, located behind the loudspeakers. The right loudspeaker is connected to the amplifier's right channel (R) and the left loudspeaker is connected to the left channel (L). When using a home theatre amplifier, speakers are connected to the amplifiers' central and rear channel outputs. Fork connectors or banana plugs can be used when connecting the loudspeakers. The cables can also be connected to the loudspeakers without connectors, by unpeeling the insulator of the loudspeaker cable for about 10 mm and placing the peeled end in the hole on the side of the connector. The connector screw is rotated open thus that the hole alongside the connector screw becomes visible. The cable is placed in the hole and then the screw is tightened to an appropriate hand tightness. A spanner may also be used for the tightening process. In this case, note should be taken that excessive tightness is not used. The black jack is the (-) pole and the red is the (+) pole. The (+) lead from the loudspeaker is attached to the amplifier's (+) terminal and the (-) lead to the (-) connector.

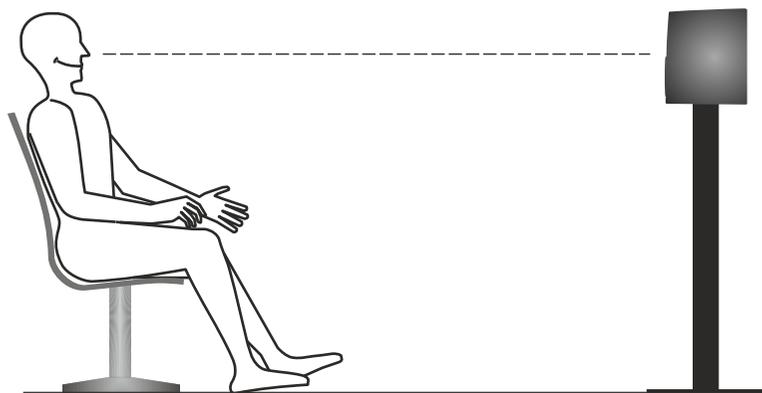
IMPORTANT! Make sure that the (+) and (-) connectors, leads or their cords do not come into contact with each other, as the amplifier may be damaged. Carefully tighten the connectors so that the cables do not later become loose, possibly resulting in a short circuit. Also, read the user manual for the amplifier to ensure that the connectors to the loudspeakers have been completed correctly.

The positioning of loudspeakers in the listening area

Aurelia Aniara speakers are more directional than ordinary speakers and therefore, their positioning in the listening area is easier than normal. Aniaras can be placed on stands, into the bookshelf or be mounted to wall by using proper wall brackets. Due to the directionality, sound reflected from walls, the floor and the ceiling is less than normal and as a result of this, high standard sound can also be enjoyed in locations which are acoustically difficult.

The best quality of sound is achieved when the loudspeakers are placed on the loudspeaker stands far enough away (min. 40 cm) from the room walls, corners, or other surfaces. The recommended models of stands are where the loudspeakers are placed at the same height as the listener's head (Fig 1). In most cases, loudspeaker stands of approx 70 cm are the most suitable in this situation. In so far as the loudspeakers are placed, for example, up on a wall or on a ceiling, it is worthwhile directing the speakers towards the listening position.

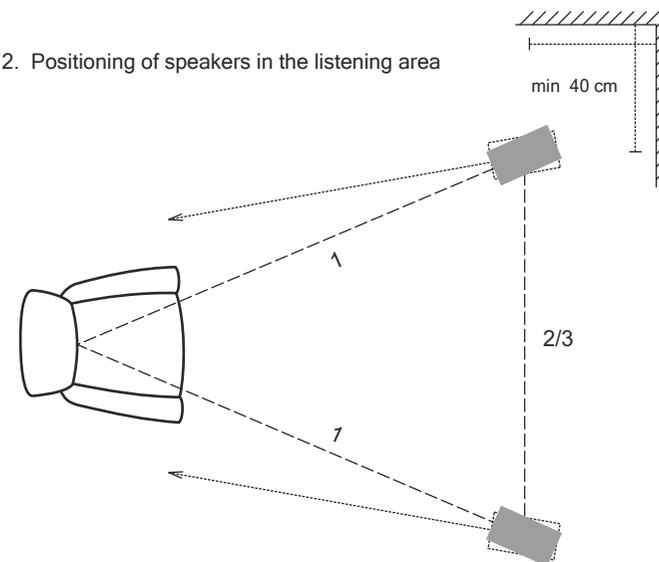
Fig 1. The proper listening height



The loudspeakers should, if possible, be positioned in such a way that they are equal distance from the listener. The distance between the loudspeakers should be about $2/3$ of their distance from the listening position (Fig. 2). Wider positioning could be tested in softer room acoustics. Generally, it is not recommended to place the speakers farther apart, than their distance from the listening position. It is worthwhile thus, to place the loudspeakers so that the elements are directed towards the listener. In some cases, better results can be achieved by turning the loudspeakers away from the listener, slightly outwards from the shoulder line.

The positioning can affect the clarity of the upper treble. If a darker sound is desired, turn the loudspeakers outwards from the listener, whilst turning the loudspeakers towards the listener will attain a brighter sound. The form, size, building materials and interior decoration of the listening location also have a significant affect on the sound. The most appropriate location for the loudspeakers is found through personal listening and experimenting.

Fig 2. Positioning of speakers in the listening area



Reflex tube blocking

The blocking of the reflex tubes is recommended in the event that the loudspeakers are placed close to a wall and / or the bass reproduction is accentuated. If a subwoofer is used with the loudspeakers, the best and most uniform sound is often attained when the reflex tubes are blocked.

Cleaning the loudspeakers

When cleaning the surface of the loudspeakers, we recommend using a dry microfiber cloth. To remove difficult stains, the cloth can be moistened with water and when necessary, a mild soapy solution. When using a cleaning fluid to clean a painted or polished surface, there is reason to first try the rear plate of the loudspeaker to ensure that the surface of the loudspeaker is not damaged.

Fault situations

All Aurelia loudspeakers are measured, tested and checked at the factory during their manufacture. If an error nonetheless occurs with the loudspeakers, they should be returned to the relevant retailer.

The most common cause of faults are improper cable connections. Ensure that the cabling and connections are made correctly. In the event that no sound can be heard from the loudspeakers, you can check the functionality by switching it to an operating loudspeaker channel. If, in this event, the loudspeaker works, the fault is in another location than the loudspeaker. In so far as the speaker remains silent, it is possible that the speaker has been damaged.

Warranty

The warranty of the loudspeaker is two (2) years, from the date of purchase. The warranty covers faults resulting from the manufacturing process and materials, but not damages as a result of incorrect use of the product. The most common fault caused by incorrect use is related to damage to the tweeter element by an audio level which is too high. Also the bass units may be damaged when excessive volumes levels are used.

In so far as the sound of the loudspeaker becomes distorted, it may a sign of an excess volume level. In this case, the volume must be lowered immediately. The warranty does compensate for damages caused by audio levels that are too high.

The opening or removal of the loudspeaker's elements, connector panel or any other part will result in the warranty becoming invalid.

Technical specifications

Operational principle	2-way bass reflex
Tweeter element	25 mm titanium, ECW
Bass element	100 mm DDC
Crossover frequency	2000 Hz
Impedance	6 ohm
Sensitivity	85 dB
Frequency Response	50-20 000 Hz, -6dB
Recommended amplifier power	15-100 W
Dimensions mm (H x W x D)	242 x 132 x 208
Weight	3.0 kg



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