



Raidho Acoustics

Owners' manual

Raidho TD-series

Thank you for choosing Raidho Loudspeakers!

Placing your speakers...

This set-up guide consists of some basic steps. Once the setup procedure has been completed, you will have a good starting point for further refinement.

The livingroom is an integral part of your soundsystem.

Buying a good speaker is not the key to achieve really good sound, if the placement is not optimal.

This is the point where most people, who experience bad or not optimal sound from their new investment, could easily reach the goal of high quality sound. And the best part is, that it is not even that difficult, and it isn't necessary to remodel the room or fill it with acoustical treatment as the room needs to be a tool in itself.

Let's get started.....

Follow the instructions. When you start working with it, you will see that it all makes sense.

Speaker placement is first and foremost about finding the optimal position for the speakers

in the listening room. What we want is to find a position where the speakers will counter-act standing notes in the room, yielding the flattest and most linear bass response.

Rear wall distance: This is the distance from the wall behind the speakers, to the front-center of the speaker.

Measure the total length (L) of the room. (ex. 8 m)

Now divide the result into the following: $1/7$; $1/5$; $2/7$; $1/3$

Discard any result below 1m

Mark each result on the floor of the room

Measure the total width (W) of the room. (ex. 6 m)

Divide the result into the following: $1/7$; $1/5$; $2/7$; $1/3$

Discard any result below 1m

Mark each result on the floor of the room

(W) Side-wall distance typically affects the 80-150Hz range

(L) Rear-wall distance typically affects the 20-80 Hz range

Finding your optimal listening position

The optimal listening position is normally between an even sided triangle and the "golden" triangle. The listening position should also

be kept a minimum of 1 meter away from the wall behind it.

Try calculating the listening position distance to the back wall, the same way as with the loudspeakers - you could be in for a surprise! (Listen for the best bass performance)

If placing the speakers more than 1m from the sidewall is not practically possible, (typically rooms below 5m in width) then it is VERY important to place damping material on the sidewall (between speaker and listener) to dampen the first reflection. This will ensure that the reproduction of the soundstage is affected as little as possible.

Toe-in and adjustment

Raidho speakers doesn't require a toe-in directly to the ears. The dispersion of the tweeters allows the speakers to create a huge and airy soundspace that allows them to "disappear".

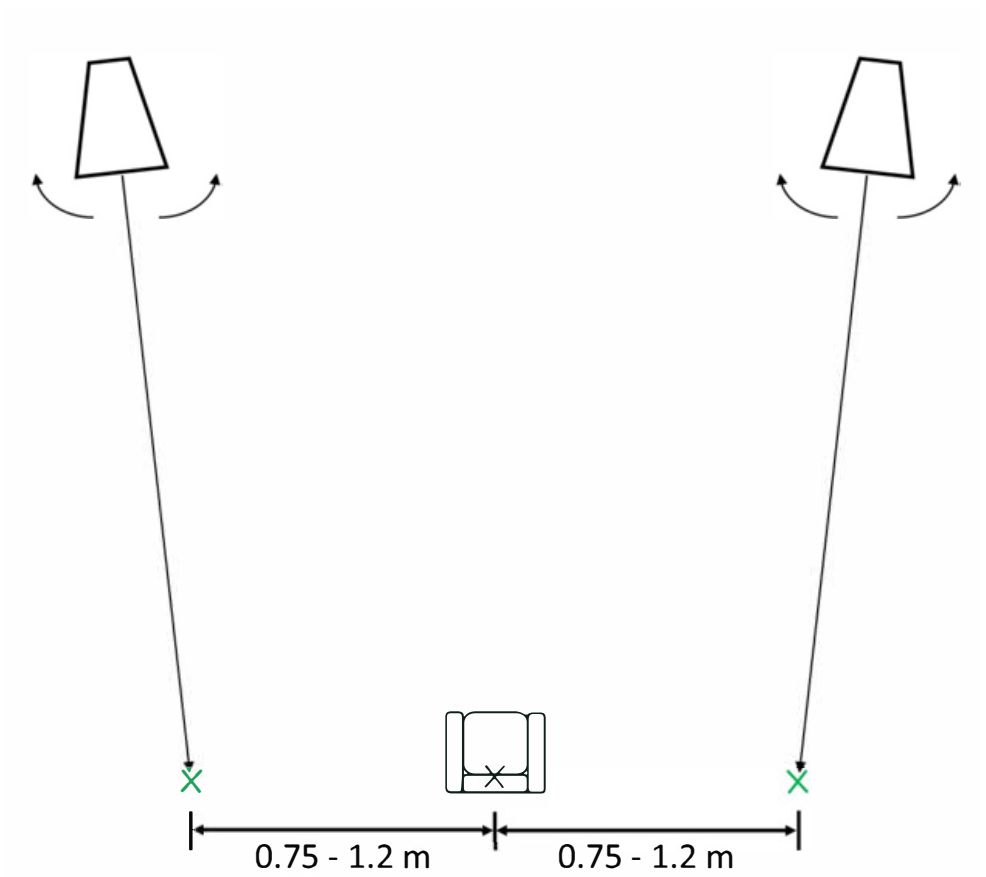
The picture illustrates recommended placement in a typical livingroom. Let the tweeters beam out and away from you and carefully work with the toe-in until you

reach a level where the speaker disappears and blends in the room.

To work with the bass, which is typically the biggest challenge, please move around in the room to check the low-frequency output. The room and the reflections will always vary a lot depending on where you sit in the room. When you sit in your listening position, the bass should blend in with the rest of the sound, being fast, punchy and dynamic. If it is boomy, the speakers need more adjustment, and even a few millimetres can make a huge difference.

Placement in the room can be calculated by dividing the length of the room in fifths or sevenths, measured from the rear wall and to the front of the speaker at tweeter-level. Use a laser-pointer to find the distance and doing the adjustments. The same goes for the sidewalls where possible.

Depending on if your listening position is high or low, the speakers might need more tilt forward or backwards. This is audible if the treble is lacking a little energy. If you are sitting low, try raising the speaker in the back – are you sitting high, adjust the tilt more backwards.



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Warranty 5 years

The packaging of Raidho speakers is a doublebox design (except the TD3.8, 4.2 and 4.8 which comes in wooden crates due to the size and weight), protecting the speakers during shipping etc.

When you unpack them, they are easily removed from the box. For the smaller models, open the box, fold the sides down and flip the box over, lifting it away from the speakers.

This is the correct way to do it, so you avoid lifting them and risking a back injury.

When handling the bigger models, we recommend being 2 persons during the lifting and handling. Be careful when handling the bigger models since they are heavy and the highgloss surface can be slippery if you have sweaty hands.

To avoid scratches and dents when handling your new speakers, put a small piece of cloth, blanket etc on the floor while handling the speakers.

We recommend saving the boxes in case of repairs or transportation of the speakers.

PRODUCT:

SERIAL NO:

A close-up photograph of a black speaker. The top part shows a tweeter with a silver grille. Below it is a larger woofer with a black cone and a silver surround. The speaker is mounted on a dark surface.

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www.raidho.dk