audio-technica

Audio-Technica Speaker Layout Tool

Operation Guide

English

Introduction

About the Audio-Technica Speaker Layout Tool

This is a web application designed exclusively for our network speakers. During system design, you can intuitively explore speaker placement using simple input and drag-and-drop operations. By entering parameters such as room size, listener ear height, target sound pressure level, and intelligibility, the system automatically calculates the optimal speaker layout. You can visually confirm the -6 dB and -10 dB coverage areas on the floor plan. The layout results can be exported as a simple report in PDF format, making them useful for proposal materials and internal reviews.

- The simulation results from this application are for reference only. When actually building the system, ensure you have thoroughly verified everything yourself before putting it into operation.

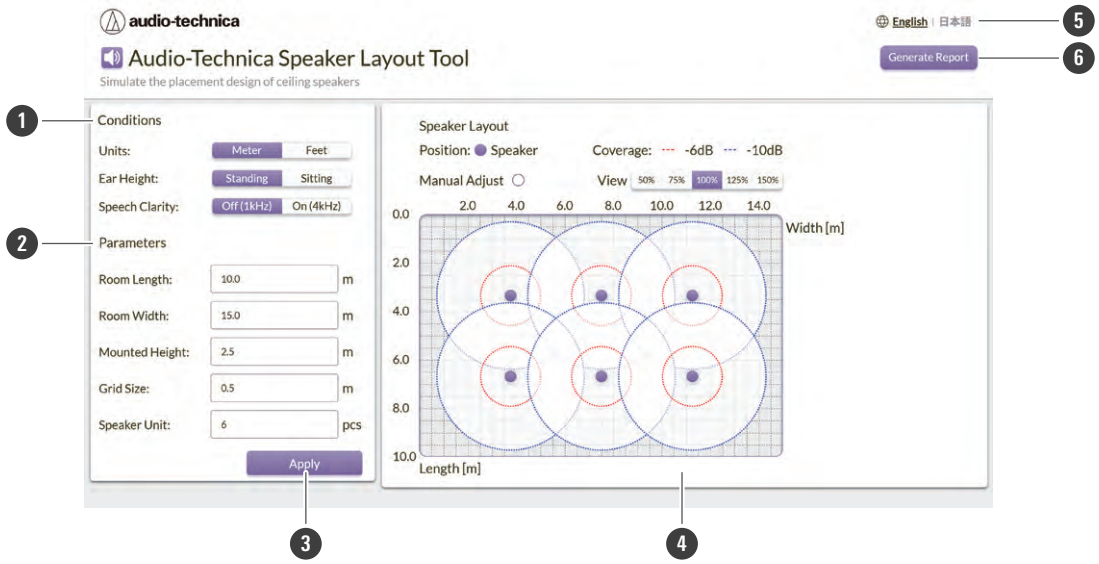
Recommended environment

Audio-Technica Speaker Layout Tool is designed for use with computers. It cannot be used with tablets or smartphones.

Item	Environment
OS	Microsoft Windows macOS
Web browser	Microsoft Edge Google Chrome Safari

Overview of the screen

Main screen



1 Conditions

Item	Description
Units	Select the unit for the parameter.
Ear Height	Select the appropriate setting based on the environment, such as when a person is sitting (approx. 1.2 m) or standing (approx. 1.6 m).
Speech Clarity	Select “On (4kHz)“ if you want to prioritize sound clarity, or “Off (1kHz)“ if you do not.

2 Parameters

Item	Description
Room Length	Set the room size (length: 1.5 m to 50 m).
Room Width	Set the room size (width: 1.5 m to 50 m).
Mounted Height	Set the ceiling height (2 m to 5 m) where the speaker will be installed.
Grid Size	Set the size of the grid squares used to divide the area on the display screen.
Speaker Unit	Set the number of speakers to be installed in the room.

3 Apply button

Apply and update the entered conditions. This will be reflected in the Speaker Layout view.

4 Speaker Layout

This tool automatically calculates the optimal speaker layout and allows you to visually confirm the coverage areas at -6 dB and -10 dB on a floor plan.

Item	Description
Position	This shows the speaker layout.
Coverage	This shows the coverage area for -6 dB and -10 dB.
Manual Adjust	This indicates that the speaker position has been manually changed in the view. If you change it manually, the white icon will turn blue.
View	Select the zoom level for displaying the simulation results. Changing the zoom level in your browser can cause the display to become distorted. We recommend using this option to change the zoom level of the simulation results.

5 Language Selection

Switch the display language.

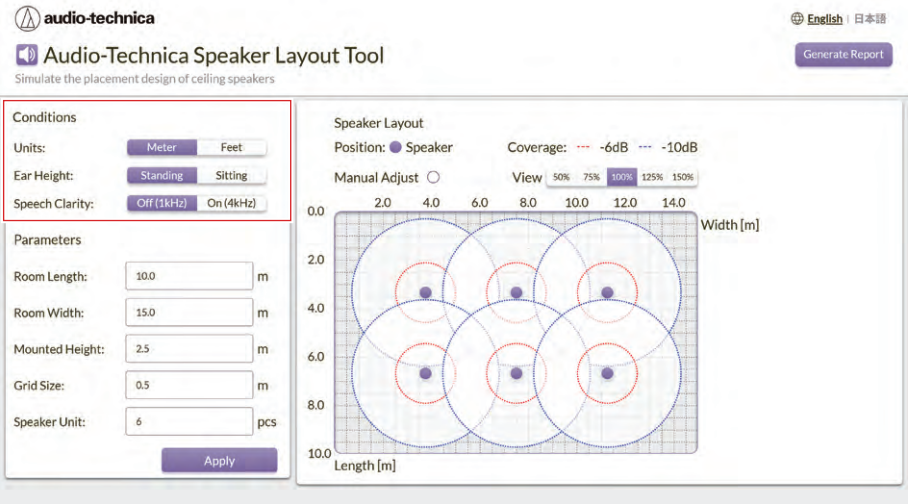
6 Generate Report button

You can export the simulation results as a PDF file or print them.

How to Use

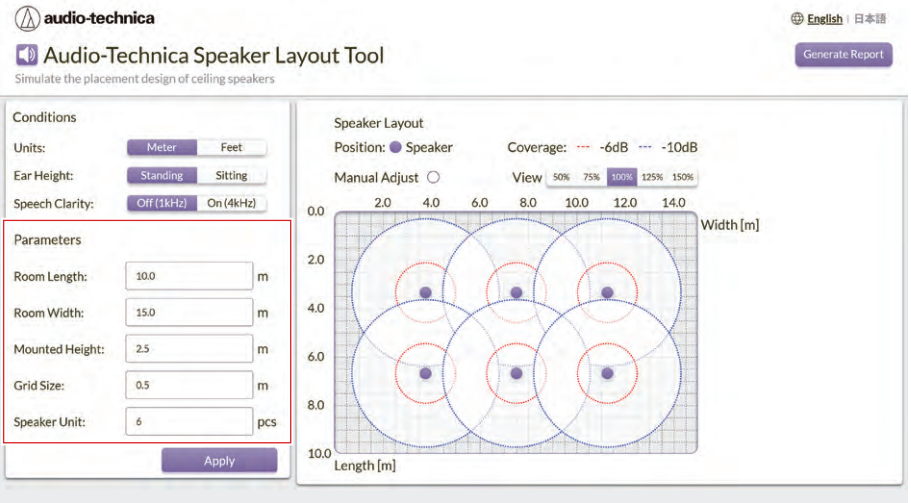
Simulating

1 **Select the “Units,“ “Ear Height,“ and “Speech Clarity“ from the conditions.**



2 **Enter the values for each parameter.**

- You can enter values manually, but if you move the cursor over the input field, ▲▼ will appear, allowing you to adjust the value in 0.1 m increments (the number of speakers is adjusted in increments of one).
- Since maximum and minimum values have been set, you cannot enter values outside of these limits.



3 **Click “Apply.“**

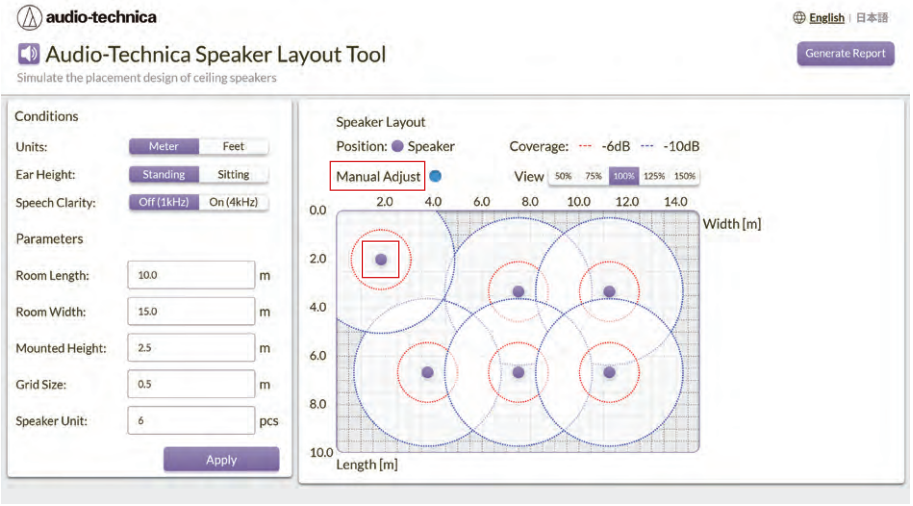
» The simulation will run, and the Speaker Layout view will be updated.

Manually adjusting the speaker positions

If you want to verify the results of the simulation by changing the speaker positions, you can do so manually.

1 Click and drag the circle in the center of the speaker you want to move.

- When you move it, the “Manual Adjust“ circle changes from white to blue.
- If you want to revert to the previous position before moving, click “Apply“ to return to the original position.

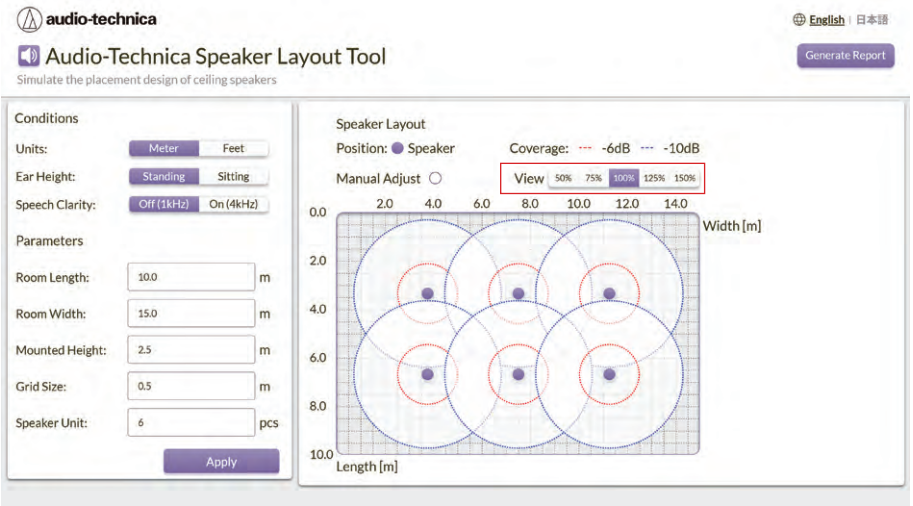


Changing the zoom level for displaying simulation results

Changing the zoom level in your browser can cause the display to become distorted. We recommend using this option to change the zoom level of the simulation results.

1 Select the zoom level for the view.

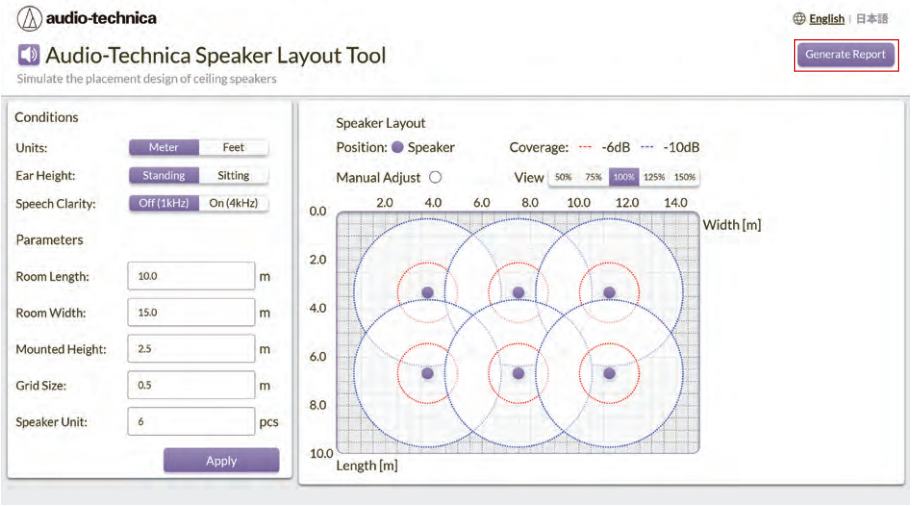
- The grid cells will also be automatically adjusted based on the magnification.



Outputting the simulation results

1 Click “Generate Report.”

- You can save it as a PDF or print it.



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