

Yamaha, with more than a century of experience in the field of music, has channeled its dedication to producing fine musical instruments into the creation of a speaker that allows people to enjoy life with music.

Soavo 1



Soavo-1
3-Way Bass-Reflex Tower Speaker System

- The Soavo-1 is offered with dark brown, brown birch, natural birch, or black finish.



● Not all finishes are available in all areas.

Soavo™ Concept: A speaker that can reproduce music that offers the reality of “Natural Sound.”

Drivers

- Yamaha's exclusive Advanced PMD diaphragm (woofers and midrange)
- Aluminum dome DC-Diaphragm™ tweeter
- Edge-wound ribbon wire voice coil
- Spider by Kurt Müller
- Neodymium midrange magnet
- Carved wooden port

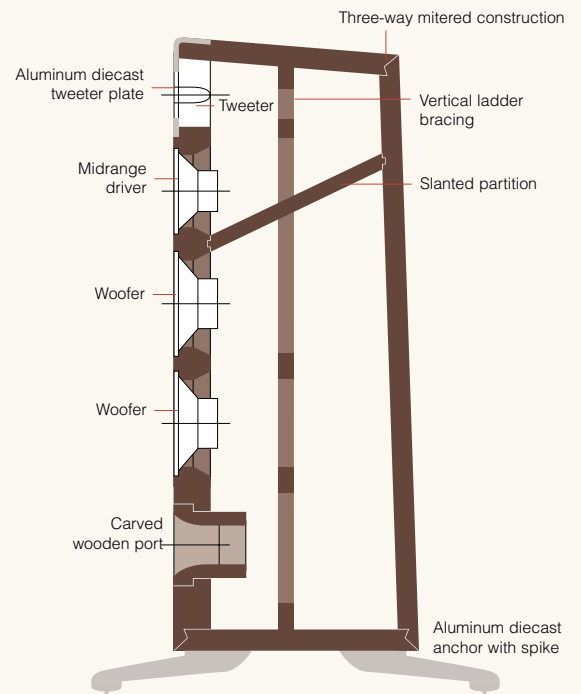
Cabinet

- Non-parallel surfaces
- Three-way mitered construction
- Two-chamber cabinet (woofer and midrange separated by slanted partition) with vertical bracing
- Chamfered tweeter baffle and diecast aluminum tweeter plate
- Birch veneer cabinet with open-pore finish

Networks

- Independent direct crossover connection
- Highest quality parts including Solen capacitor

Cabinet has non-parallel surfaces, with internal slanted partition and vertical bracing.



Soavo Concept: Delivering Natural Sound

Yamaha has utilized its vast expertise in music, acoustics and especially as the world's leading manufacturer of musical instruments to develop a new high performance speaker: the Soavo-1. Yamaha has a half-century of experience in creating "Natural Sound" speakers and other audio components, and the Soavo-1 not only embodies but re-energizes the Natural Sound concept.

Our primary goal was to achieve realistic reproduction of music. We accomplished this through a combination of advanced design technology, the selection of superior materials, and an extensive testing/tuning process.

The Soavo-1 sound is characterized by: no coloration, so the sound is completely unembellished; high resolution, for good detail even at low levels; transparency, for a crisp, bracing feeling; and a deep stereo image with well balanced depth and width.

DRIVERS

A-PMD Woofer and Midrange Cones

Yamaha's exclusive A-PMD (Advanced Polymer-injected Mica Diaphragm) cones are extremely light, rigid and sturdy thanks to the use of a low specific gravity material called PMP (Poly-Methyl-Pentene) that is much lighter than either paper or polypropylene. It provides very fast response time (sound rise and fall), as well as excellent midrange clarity and bass response. Outstanding internal loss characteristics decrease unwanted resonances to achieve the smooth frequency response that results in natural sounding vocals. The base resin mix of mica and talc has been perfected by Yamaha over long years of development and testing, and also contributes to the beautiful quality of sounds in the vocal range. The midrange creates a feeling of presence as if someone is actually singing in the room. The dual woofer design delivers deep and tight bass.



Advanced PMD cone woofer (top) and Advanced PMD cone midrange driver (bottom)

Aluminum Dome, DC-Diaphragm™ Tweeter

The high-performance 1" (3cm) tweeter features a dome made of aluminum, with Yamaha's DC-Diaphragm that integrates the diaphragm and voice coil. It is extremely light yet durable, and transmits large amounts of sound information (highly detailed sound) for a denser sound field. The magnet is an extra-powerful neodymium type. As a result, this tweeter delivers highs that are crisp and clear at all power levels.



Aluminum dome tweeter with diecast aluminum tweeter plate (left) and DC-Diaphragm (right)

Selected High Performance Parts

The edgewise-wound ribbon wire voice coil contributes to high resolution, exceptional sound detail and excellent imaging. The spider is a high performance model made by Kurt Müller of Germany. The midrange driver is powered by a newly designed, compact and powerful neodymium magnet. Diecast aluminum baskets ensure solid support for high stiffness, improving sound image localization and depth reproduction.

Carved Wooden Port

The wooden port is carved from high quality wood, and has thick walls and a flared shape, for smooth sound flow, low port noise and a spacious and massive bass feel.

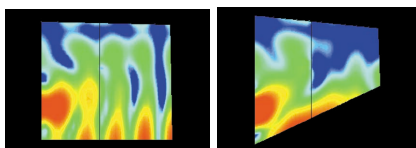
CABINET

Innovative Cabinet Design

One of the keys to Soavo's ability to deliver Natural Sound music reproduction is the cabinet design. While maximizing sound clarity and imaging, the designers strived to drastically reduce internal standing waves and produce an expansive sound with an exceptional feeling of depth. Their solution was to create a cabinet with non-parallel sides, divide the woofer and midrange sections by a slanted partition, and strengthen the interior with large, vertical ladder-type bracing.

Three-Way Mitered-Joint Construction for a Rigid Body

Yamaha's excellence in woodworking is used to good advantage in the three-way mitered construction of the cabinet joints. This technique ensures extremely tight joints so



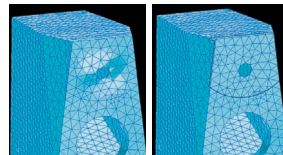
Sound Pressure Distribution Inside the Midrange Driver

Left: Ordinary enclosure; Right: Non-parallel surfaces. The image on the left shows that there are standing waves. The non-parallel surfaces restrict standing waves, preventing degradation of midrange sound.

the entire cabinet behaves as a single unit, providing tight bass reproduction.

Tweeter Plate

A diecast aluminum tweeter plate isolates the tweeter from cabinet vibration and provides a solid attachment for the tweeter unit, preventing unwanted movement, so the high range sound is clear and transparent, with no coloration.



Without plate vs. with plate

Birch Veneer Cabinet with Open-Pore Finish

Birch is an acoustically excellent material that is used in Yamaha pianos. Yamaha's long decades of woodworking expertise have confirmed the superior performance of birch veneer for speaker cabinets, particularly in the shading of bass sounds. The cabinet is given the same luxurious and environmentally friendly open-pore finish used on Yamaha's finest wood-grain pianos.

Diecast Aluminum Stands

The Soavo-1 is equipped with diecast aluminum stands that provide the necessary solid floor contact for stability.



NETWORKS

Independent Direct Crossover Connections

Yamaha's scrupulous attention to the sound of Soavo-1 is seen in the design of the network circuit. It uses the highest quality parts, including Solen metalized polypropylene capacitors and large hollow center coils with carefully selected wire. Furthermore, these parts are connected by directly soldering each one individually, instead of using printed circuit boards. This contributes to the speaker's rich and vivid sound.



Woofer crossover network (left), Solen metalized polypropylene capacitors (center) and large hollow center coils (right)

Main Specifications	
Type	3-way bass-reflex design
Woofers	Dual 6-1/2"-(16cm) Advanced PMD cone
Midrange Driver	5" (13cm) Advanced PMD cone
Tweeter	1" (3cm) aluminum dome
Frequency Response	35 Hz-50 kHz (-10 dB)
Sensitivity	89 dB/2.83 V/1 m
Maximum Input Power	200 W
Nominal Input Power	50 W
Crossover Frequencies	500 Hz/5 kHz
Impedance	6 ohms
Dimensions (W x H x D)	13-3/4" x 41-3/8" x 19-3/16"; 349 x 1,051 x 487 mm
Weight	59.5 lbs.; 27 kg

• Product designs and specifications are subject to change without notice.