

This new model in the Soavo Series builds on the Soavo-1 legacy by employing new materials that provide extremely smooth and accurate music reproduction.



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

• The Soavo-3 is offer with dark brown, brown birch, natural birch, or black



Drivers

- Yamaha's exclusive Advanced PMD diaphragm (woofer and midrange)
- Aluminium dome tweeter with DC-Diaphragm™
- Edge-wound ribbon wire voice coil

Soavo 3

3-Way Bass-Reflex Floorstanding

Speaker System

- Spider and Surrounds (woofer and midrange) by Kurt Müller
- Neodymium midrange and tweeter magnets
- Carved wooden port

Cabinet

- Non-parallel surfaces
- Three-way mitered-joint construction
- Two-chamber cabinet (woofer and midrange separated by slanted partition) with vertical bracing
- Chamfered tweeter baffle and diecast aluminium tweeter plate

Networks

- Independent direct crossover connection
- Highest quality parts including ICW capacitors

Main Specifications	
Туре	3-way bass-reflex floorstanding
Woofers	16cm (6-1/2") Advanced PMD cone
Midrange Driver	13cm (5") Advanced PMD cone
Tweeter	3cm (1-1/8") aluminium dome
	with DC Diaphragm™
Frequency Response	35 Hz-50 kHz
Sensitivity	87 dB/2.83 V/1 m
Nominal Input Power	40 W
Maximum Input Power	160 W
Crossover Frequencies	4.50 Hz, 4.5 kHz
Impedance	6 ohms
Dimensions (W x H x D)	349 x 1,051 x 487 mm (with stand);
	13-3/4" x 41-3/8" x 19-3/16"
Weight	26.5 kg; 58.4 lbs./unit

Product designs and specifications are subject to change without notice.

Graceful Soavo design by Toshiyuki Kita

Working in both Japan and Milan, Toshiyuki Kita has designed many successful products for German, Italian and Japanese manufacturers. His designs are in the permanent collections of museums all over the world, including the Museum of Modern Art in New York and the Centre Georges Pompidou in Paris. He also designs traditional Japanese crafts.

Soavo-3

Natural Sound that Meets the Soavo Standard

Yamaha utilized its vast expertise in music, acoustics and especially as the world's leading manufacturer of musical instruments to develop the ultra-highperformance Soavo speakers series. Drawing on the design and construction of the Soavo-1, the Soavo-3 offers further refinements for amazingly "Natural Sound" performance. Using a single woofer in the same cabinet that was developed for the Soavo-1, the Soavo-3 provides outstanding bass attack and damping, and clearly defined sound.

DRIVERS

Design Refinements for Truly Superior Sound

While based on the original Soavo-1, the Soavo-3 drivers (woofer, midrange and tweeter) have been redesigned. Most notably, magnets, cone thickness and surround materials (foam rubber to solid rubber) have been refined to provide sound with greater detail and smoothness in all frequency ranges.

A-PMD Woofer and Midrange Cones

Yamaha's exclusive A-PMD (Advanced Polymerinjected 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 the commonly used 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. Yamaha's original base material also contributes to the beautiful quality of sounds in the vocal range.



Advanced PMD cone woofer







Aluminium dome tweeter with diecast aluminium tweeter plate tweeter (top right) and DC-Diaphragm (bottom)

Aluminium Dome, DC-Diaphragm™ Tweeter

The high-performance 3cm (1-1/8") tweeter features a dome made of aluminium, 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 neodymium magnet is compact yet powerful. You'll enjoy highs that are crisp and clear at all power levels

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. The midrange driver is powered by a newly designed, compact and powerful neodymium magnet. Diecast aluminium baskets ensure solid support for high stiffness, improving sound image localisation and depth reproduction.

Carved Wooden Port

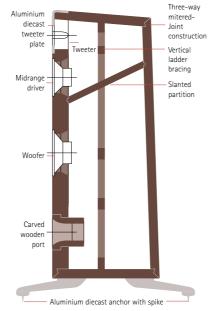
The wooden port is carved from high quality wood, and has thick walls and a flared shape, for smooth sound flow, low port noise and a spacious and massive bass feel.

CABINET

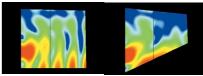
Innovative Cabinet Design

One of the keys to Soavo's ability to deliver Natural Sound music reproduction is the cabinet design. While maximising sound clarity and

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



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 laddertype bracing.



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.

Three-Way Mitered-Joint Construction

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

Tweeter Plate

A diecast aluminium 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 colouration.





The diecast aluminum tweeter plate is very effective in damping the vibrations that occur during high frequency output.

Without plate vs. with plate

Diecast Aluminium Stands

The Soavo-3 is equipped with diecast aluminium stands that provide the necessary solid floor contact for stability.

NETWORKS

Independent Direct Crossover Connections

Yamaha's scrupulous attention to the sound of Soavo-3 is seen in the design of the network circuit. It uses the highest quality parts, including ICW metalised polypropylene capacitors and high grade air-core coil 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.



ICW capacitors and custom-made parts