



**Experience a true feeling of presence,
with highest quality sound.**

The beautiful cabinet is meticulously finished with the same techniques used for Yamaha grand pianos. The sound is notable for its rich expressiveness with high resolution sources and new audio formats that utilize large amounts of data. This is the magnificent new Soavo. Bringing you a deeper level of music excitement.

The elegant appearance of a piano finish and a beautiful design. Capable of achieving transparent sound from data-rich, high resolution sound sources with excellent response. Delivers musical excitement with outstanding expressiveness.

Soavo


Superior Sound Quality

- New A-PMD Midrange reproduces high resolution sources with richly clear detailed sound
- New A-PMD Woofer provides low range reproduction with abundant power and responsiveness
- Aluminum dome tweeter with DC-Diaphragm™ with neodymium magnet
- Innovative cabinet design (non-parallel surfaces, three-way mitered-joint construction, separate woofer and midrange sections)
- Highest quality parts including Solen capacitors in the networks
- Advanced YST II (Yamaha Active Servo Technology II) Subwoofer
- 600 W High Output Power Subwoofer
- 25 cm (10") F.B.P. (Fiber Blend Paper) diaphragm with diecast aluminum frame for Subwoofer

Elegant Design

- Graceful appearance designed by Toshiyuki Kita
- Choice of Piano Black, Piano White and other finishes

Soavo

Soavo is a new word combining the Italian words "soave", meaning graceful, and "voce", meaning voice. The name offers the image of a "voice", the musical instrument we are all most familiar with, and symbolizes the fact that this speaker was created to realistically express "genuine music", from the fundamental sounds of musical instruments to the rich vocals of a diva.



Superior Sound Quality

Soavo Concept: Delivering Natural Sound

Soavo speakers are created by Yamaha based on our long history and rich experience, including over 125 years of making musical instruments and more than half a century of making speakers. In order to reproduce new high resolution sound sources with the highest quality, the NS-901 series feature new speaker units and undergo extensive sound quality tuning to further refine their expressive capabilities. You can be sure these speakers will deliver all the aural excitement that music and movies have to offer.

New A-PMD Midrange reproduces high resolution sources with richly clear detailed sound

The NS-901 Series adopts Yamaha's unique new A-PMD (Advanced Polymer-injected Mica Diaphragm) with improved cone paper in order to reproduce high resolution sound sources. Taking advantage of the strong points of the A-PMD—extreme lightness, rigidity and stability—the speaker achieves smoothness, very fast response, and sound with good dissemination, reproducing information-rich sound sources with an impressive feeling of density. The A-PMD incorporates

a powerful magnetic circuit with a large neodymium magnet and a highly stiff aluminum diecast frame that increases the aperture ratio, achieving outstanding power handling and responsiveness in the mid frequency range, the heart of the music. The rubber surround, a spider made by Kurt Müller of Germany and meticulous tuning also contribute to the reproduction of high quality music and movie sound.



New A-PMD Woofer provides low range reproduction with abundant power and responsiveness

The bass unit also adopts the new A-PMD with a paper cone upgraded for the reproduction of high resolution sound. The use of a large ferrite non-shielded magnet ensures high drive power that provides prodigious bass volume. By utilizing high quality parts such as a high rigidity aluminum diecast frame that dampens resonance, it reproduces bass with a



deep sense of scale, achieving both power and speed, leaking out of the speaker cone. This means the full power of the waves is forced out through the air port, resulting in clear, powerful bass.

Totally faithfully to even the highest range Aluminum Dome, DC-Diaphragm™ Tweeter

The 3 cm (1") dome tweeter is made of aluminum for both hardness and responsiveness, and like the midrange unit, uses a neodymium magnet. It delivers sound that links the medium and high ranges with natural smoothness and transparency. Firmly integrating the diaphragm and voice coil and using a thick surround material increases the sound density and resolution in the high range. With a heavy aluminum diecast tweeter plate that minimizes unwanted resonances and an extremely fine mesh grill that provides ideal sound dissemination, it faithfully reproduces dense sound atmospheres and nuances from high resolution sound source.

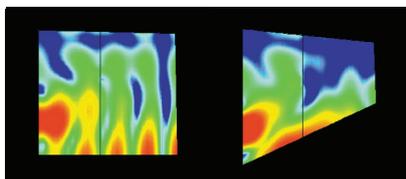




Superior Sound Quality

Built for Powerful, Accurate Sound Reproduction with an Innovative Cabinet design

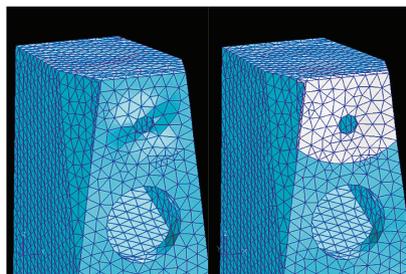
The design of the cabinet is of course extremely important if the aim is to create a speaker with superior reproduction capabilities. The goal was to reduce standing waves to ensure highest accuracy, as well as to provide a full, three-dimensional sound with an awesome feeling of depth. The solution was to design a cabinet with non-parallel surfaces, having the woofer and midrange sections divided by a slanted partition, and strengthening the entire enclosure with vertical ladder bracing. Another important point is the three-way mitered construction of the cabinet joints, achieved thanks to Yamaha's excellence in woodworking. This technique ensures extremely tight joints so the entire cabinet behaves as a single unit, providing tight, powerful and accurate bass reproduction.



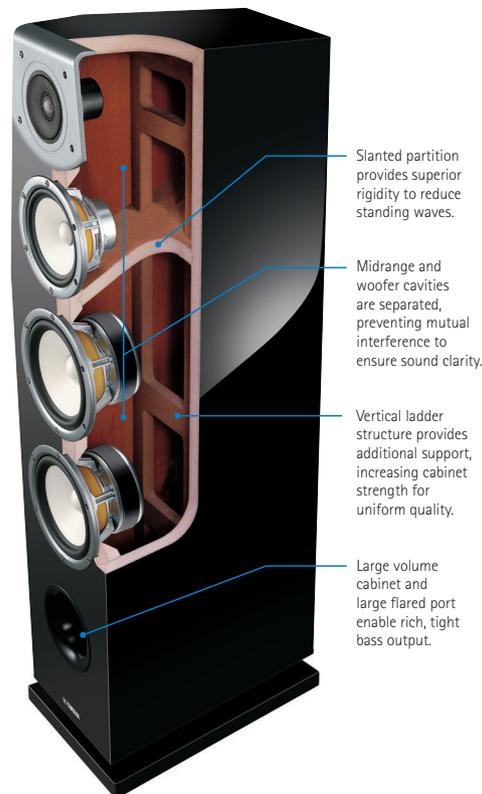
Sound Pressure Distribution Inside the Midrange Driver
Left: Ordinary enclosure; Right: Non-parallel surfaces. The image on the left shows that there are standing waves. The non-parallel surfaces restrict standing waves, preventing degradation of midrange sound.

Aluminum Tweeter Plate

A diecast aluminum tweeter plate isolates the tweeter from cabinet vibration and provides a solid attachment for the tweeter unit. This prevents incidental movement, helping to ensure that the high range sound is clear and transparent, with no coloration.



Without plate vs. with plate
The diecast aluminum tweeter plate is very effective in damping the vibrations that occur during high frequency output.



Carved Wooden Port (NS-F901)

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.

High Quality Parts Including Solen Capacitors for the Network

The crossover networks employ the highest quality parts, including Solen metalized polypropylene capacitors and large iron-core coils with carefully selected wire. All parts are connected by directly soldering each one individually, instead of using printed circuit boards, further contributing to the rich and vivid sound. Finally, meticulous sound tuning ensures optimum transitions between drivers for smooth and natural sound across the entire frequency range.



Speaker Soavo Series

NEW PRODUCT BULLETIN

Elegant Design

Graceful Appearance Thanks to Noted Designer Toshiyuki Kita

The original and beautiful form with no flat surfaces was designed by Toshiyuki Kita, an internationally famous product designer. In addition to its high sound quality due to minimal standing waves, the elegant presence of the speaker displays expressions which vary according to the viewing angle. Shaping the stand as a trapezoid without flat surfaces to match the cabinet provides a well-integrated design that looks fine in any location. The real wood



vener with luxurious piano finish presents an elegant appearance for any home theater.



Graceful Soavo design by Toshiyuki Kita

Toshiyuki Kita has designed many products for German, French, 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 has worked with Japanese traditional craftsmen over 40 years as one of his lifework.

Yamaha Piano Black or White Finish

The glossy, lustrous finish is applied using the same techniques developed by Yamaha over many decades of manufacturing beautiful grand pianos. It provides a perfect visual complement to the smooth, rich sound you enjoy from the speakers.



Subwoofer

Impressively deep bass output from a powerful subwoofer with a beautiful exterior.

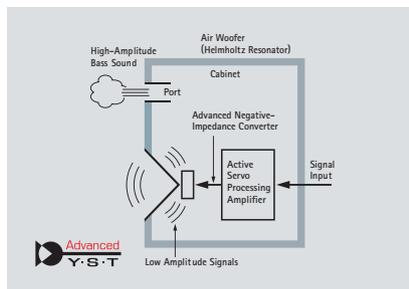


NS-SW901
Advanced YST II and Front-Firing Subwoofer

Advanced YST II (Yamaha Active Servo Technology II)

Advanced Yamaha Active Servo Technology (Advanced YST) uses an Active Servo Processing amplifier circuit to achieve zero impedance, giving the speaker unit a more perfectly linear motion. In Advanced YST II, an Advanced Negative Impedance Converter enables the speaker cone to be driven with

even tighter control. The result is more stable and accurate low range response, as well as higher sound pressure levels, for more natural and energetic bass reproduction.



600 W High Output Power and 25 cm (10") F.B.P. (Fiber Blend Paper) Diaphragm

The NS-SW901 derives its bass thrust from a built-in 600 W digital amplifier. Featuring Yamaha's exclusive Power Engine chipset, it uses a constant gain PLL modulator circuit, a cross feedback loop circuit, an Active Power Control system, a highly efficient power

supply and the highest quality parts. It delivers exceptionally high levels of power and sound quality, yet with low power consumption and compact size. The 25 cm (10") cone diaphragm is made of Yamaha-developed F.B.P., which is paper with a blend of carbon fibers and aramid fibers. Its extreme stiffness and extra-long stroke prevent distortion from occurring even during large, deep bursts of sound.



Other Notable Features

- Heavy-Duty Construction with Three-Way Mitered-Joint Construction
- Twin Wooden Liner Port
- Three Bass Modes (wide, normal and narrow)
- Full-Function Remote Control Unit
- Three Preset Memories
- Sleep Timer

Optimized for high-resolution sound source reproduction to deliver pure audio enjoyment.



NS-B951
2-Way Bass-Reflex
Bookshelf Speakers

16 cm (6-1/2") Woofer with New A-PMD Combines Power with Accuracy

The large 16 cm (6-1/2") woofer ensure that you can enjoy music at high volumes with no loss of clarity or accuracy. The diaphragm is Yamaha's newest A-PMD (Advanced Polymer-injected Mica Diaphragm) which has improved cone paper. It also incorporates a powerful magnetic circuit with a large ferrite non-shielded magnet and a highly stiff aluminum diecast frame, for outstanding power handling and responsiveness. Taking advantage of the A-PMD's extreme lightness, rigidity and stability, this woofer achieves smooth, fast response, and will capably reproduce high resolution sound sources.



High Performance Parts

These bookshelf speakers will deliver superb sound quality, thanks to Yamaha's use of high performance parts. The crossover network, for example, features Solen metalized polypropylene capacitors and large iron-core coils with carefully selected wire.



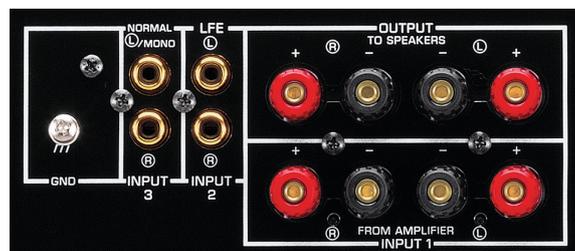
Cabinet with Three-Way Mitered Joints

Like the NS-F901, the NS-B951 has a cabinet with non-parallel surfaces, whose sides are attached using Yamaha's three-way mitered-joint construction. This technique ensures extremely tight joints so the entire cabinet behaves as a single unit, providing tight, powerful and accurate bass reproduction.

Specifications

	NS-F901	NS-C901	NS-B901	NS-B951
Type	3-way bass-reflex floorstanding	2-way bass-reflex bookshelf	2-way bass-reflex bookshelf	2-way bass-reflex bookshelf
Woofers	Dual 16 cm (6-1/2") Advanced PMD cone	Dual 13 cm (5") Advanced PMD cone	13 cm (5") Advanced PMD cone	16 cm (6-1/2") Advanced PMD cone
Tweeter	3 cm (1") aluminum dome with DC-Diaphragm™	3 cm (1") aluminum dome with DC-Diaphragm™	3 cm (1") aluminum dome with DC-Diaphragm™	3 cm (1-1/8") aluminum dome with DC-Diaphragm™
Midrange	13 cm (5") Advanced PMD cone	-	-	-
Frequency Response	32 Hz-50 kHz	56 Hz-50 kHz	52 Hz-50 kHz	45 Hz-50 kHz
Sensitivity	89 dB/2.83 V/1 m	90 dB/2.83 V/1 m	87 dB/2.83 V/1 m	88 dB/2.83 V/1 m
Nominal Input Power	50 W	50 W	30 W	30 W
Maximum Input Power	200 W	200 W	120 W	120 W
Crossover Frequencies	450 Hz, 3.5 kHz	4.2 kHz	4 kHz	3 kHz
Impedance	6 ohms	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	270 X 1,060 X 425 mm 10-5/8" X 41-3/4" X 16-3/4"	500 X 170 X 271 mm 19-5/8" X 6-3/4" X 10-5/8"	220 X 349 X 237 mm 8-5/8" X 13-3/4" X 9-3/8"	220 X 380 X 353 mm 8-5/8" X 15" X 13-7/8"
Weight	30.7 kg; 67 lbs.	8.4 kg; 18 lbs.	5.9 kg; 13 lbs.	9.7 kg; 21.4 lbs.

	NS-SW901
Type	Advanced YST II and with Linear Port
Driver	25 cm (10") cone
Magnetic Shielding	Yes
Output Power	600 W
Frequency Response	18-160 Hz
Dimensions (W x H x D)	410 X 457 X 462 mm 16-1/8" X 18" X 18-1/4"
Weight	32 kg; 70.5 lbs.



* Photo shows NS-SW901 rear panel.