

Soavo series subwoofer designed for the finest possible music reproduction, featuring Advanced YST II, high performance digital amplifier, 25cm (10") F.B.P. diaphragm and beautiful birch veneer enclosure.

Soavo



- The Soavo-900SW is offered with dark brown, brown birch, natural birch, or black finish.



Powerful, Accurate Sound

- Advanced YST II (Yamaha Active Servo Technology II)
- New 25cm (10") F.B.P. (Fiber Blend Paper) diaphragm with diecast aluminium frame
- 600W high performance digital amplifier built in
- Twin wooden Linear Ports

Cabinet

- Heavy-duty construction
- Birch veneer cabinet with piano-quality open-pore finish

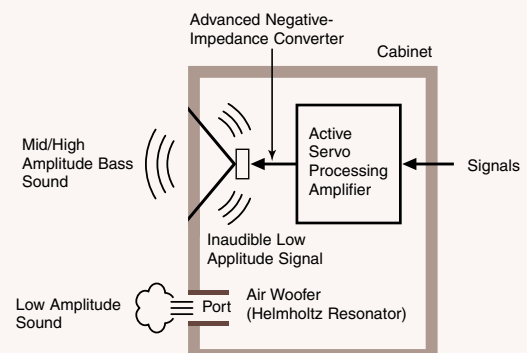
Convenient Features

- Three BASS (Bass Action Selector System) modes
- Three memory presets
- Continuously variable high cut filter
- Full-function remote control unit
- Sleep timer

Main Specifications

Output Power	(4 ohms, 100Hz, 10% THD) 600 W
Frequency Response	18-160 Hz
High Cut Filter	(Continuously Variable) 40-140 Hz
Driver	25cm (10") multi-range
Standby Power Consumption	0.5 W
Dimensions (W x H x D)	410 x 457 x 462 mm; 16-1/8" x 17-15/16" x 18-3/16"
Weight	32 kg; 70.1 lbs.

Advanced YST Principle



Soavo-900SW Concept

In broad terms, music can be divided into two parts — one part with sound and the other without. The silent moment while waiting for a sound explosion to come, or the pulse after a beautiful reverberation, are created by a combination of the two parts, both of which play an essential role in providing musical pleasure.

The designers of the Soavo-900SW took the bold step of emphasizing not only the sound, but also the spaces in between. By being conscious of the intervals between the sounds, they aimed to express the depth and spaciousness of the music more effectively.

Furthermore, the Soavo-900SW meets the challenge of providing an ideal balance between tight sounds (with crisp, fast attack) and deep sounds (with a spacious feeling). Although these two types of sounds, by definition, tend to oppose each other, this subwoofer is capable of representing the tone intervals of all kinds of sounds, adding an ideally balanced flavour to the music. Just as a seasoning enhances but does not obscure the flavour of food, the Soavo-900SW enhances the musical expression of the performers without interfering with the main speakers.

Finally, the enjoyment derived from the Soavo-900SW is not restricted to your ears — with its impressive power it lets you feel the music, too.

Designed for extremely accurate music reproduction, the Soavo-900SW subwoofer proudly takes its place in Yamaha's Soavo Series.

POWERFUL, ACCURATE SOUND

Advanced YST II

Yamaha's Advanced YST II (Yamaha Active Servo Technology II)



combines negative-impedance and constant-current principles to drive the speaker cone with extremely tighter control. Using Advanced Negative Impedance Converter (ANIC) circuits, this system dynamically optimizes effective speaker impedance to maintain excellent linearity. This means more stable and accurate low range response, not to mention higher sound pressure levels. This means more stable and accurate low range response, higher sound pressure levels, and the ability to reproduce clear bass without muddiness.

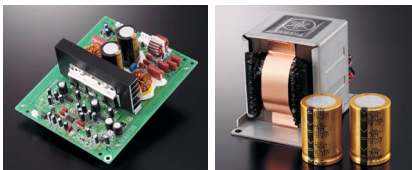
High Performance Driver

The 25cm (10") cone driver uses a new Yamaha-developed material consisting of 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. A large, powerful magnetic circuit also contributes to the driver's fast response. The unit is firmly supported by a strong diecast aluminium frame.



600W Digital Amplifier

The Soavo-900SW has a high-end audio component built in! — its 600W 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.



Yamaha original digital amplifier, and power transformer (4.2kg; 9.3lbs.) and custom-made block capacitors

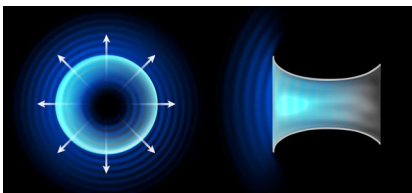
Front Firing Design

The front firing design ensures extremely fast response and attack, and is especially suited to the accurate reproduction of music.

Twin Wooden Linear Ports

The wooden ports are carved from a block of alder wood and aesthetically match the enclosure, the twin ports provide more port area without increasing the subwoofer's size, as one large port would do. The shape is based on a natural logarithm to prevent extraneous wind noise.

Effect of Linear Port



Advanced YST II produces rich bass sound, and the addition of two Linear Ports increases bass output.

CABINET

Heavy-Duty Construction with Three-Way Mitered-Joint Construction

The Soavo-900SW employs three-way mitered-joint construction at the cabinet corners and baffle/body connections to increase the tightness of the joints so the

entire cabinet behaves as a single unit. This improves low frequency response and reduces unwanted vibration. A thick baffle (37mm; 1-1/2") also minimizes vibration, adding to the overall benefits of the stiff cabinet construction.



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 (non-PVC) open-pore finish used on Yamaha's finest wood-grain pianos. Embedded switches also show the scrupulous care that Yamaha has taken in designing this subwoofer.

CONVENIENT FEATURES

Three BASS Modes

The BASS (Bass Action Selector System) function provides a selection of three modes to match the source being listened to. Wide for powerful sound with movies, Normal for natural sound with music and movies, and Narrow to cut unnecessary bass from music sources to enjoy clearer sound quality.

Full-Function Remote Control Unit

The remote unit makes it convenient to operate the subwoofer. It lets the user turn the power on and off, adjust the volume, adjust the high cut filter, select phase (normal/reverse), select BASS mode, engage the sleep timer and set and select the preset memories.

Three Preset Memories

Three combinations of settings (volume, BASS, high cut filter and phase) can be memorized and recalled at the touch of a button on the remote unit.

Sleep Timer

Engaging the sleep timer shuts off the power after two hours. This is both handy and energy-saving, because people often forget to turn off their subwoofer.

Other Notable Features

- Continuously variable high cut filter (40 – 140Hz)
- LFE terminal (bypasses the high cut filter)
- Power can be turned on and off using a Yamaha receiver/amp remote unit
- Remote controllable motor-driven volume control
- Low power consumption with standby power of 0.5W
- Gold-plated terminals
- Frequency response: 18 – 160Hz
- Heavy construction: 32kg (70.1lbs.)