

WS Series



Don't leave Great Sound
out of the picture.

An Amazing Home Theater begins with Amazing Sound

"The WS Series has been specifically designed for those who want to make sure their sound is as impressive as their screen."

— GORD VAN KESSEL, CHIEF ENGINEER

WS SERIES

From **athena** TECHNOLOGIES® comes the WS Series of Flat Panel Speaker Systems, ideal for both high fidelity home theater and audio systems.

Fantastic sound reproduction. Flexible mounting options. Unbelievable affordability. All are key to the success of **athena's** superb design, performance and adaptability for use with flat panel televisions.

All WS Series speakers sonically match the entire **athena** line, providing exceptional sound — crisp, clear, and stunningly realistic. The legendary 1" Teteron tweeter platform is utilized right across the model line for voice matching between models, as well as between series.

The WS Series has been specifically designed to solve the sonic problems presented when wall mounting a speaker, as well as the "standing wave" problems presented by tall, narrow speaker enclosures. Like all **athena** speakers, the WS Series plays loud and clear, and has exceptional bass response.

You may want a flat screen but you definitely don't want flat sound. WS Series precisely recreates the highs, the lows and everything in-between.



Whether building your dream home or your dream home theater system, the WS Series provides a sound foundation.

WS-100

The floorstanding WS-100 is the flagship model of the WS Series, in a dynamic high performance configuration featuring a total of 9 drivers. The 1" Teteron tweeter reproduces the highs, while three 3.5" woofers handle all bass duties with distortion-free ease. A total of five 3.5" passive radiators are utilized to extend bass response down to below 50Hz. The WS-100 features an attractive polycarbonate base for enhanced cosmetics as well as additional stability for its extruded aluminum cabinet.





"With athena's exclusive SCT system, all the guesswork of where to set the controls is eliminated."



WS-60

The WS-60 utilizes a unique multi-transducer arrangement that provides numerous advantages over traditional designs. The multiple woofers provide higher power handling and output levels resulting in excellent bass response and dynamics, an absolute must in a digital home theater environment. The four passive radiators extend the bass response even lower than what would normally be possible with traditional enclosures, whose venting results in more noise than is acceptable in a high resolution home theater system. The included wall mounting bracket functions in both horizontal and vertical alignments, and also serves as a small footprint base. The WS-60 also comes with an attached round table top base for use on a mantle, A/V furniture, or on any flat surface.

The WS-60 includes a wall mounting bracket that allows both horizontal and vertical orientation.



WS-15

The compact WS-15 is a sleek 2-way design for any channel of your home theater system. The WS-15 can also seamlessly blend with the WS-100 and 60 in a multi-channel system to create a breathtakingly realistic soundstage. Lightweight, extremely efficient and attractive in appearance, the WS-15 also features a built-in wall mounting solution. The WS-15 sounds awesome when mated with the matching AS-P4000 or AS-P6000 subwoofer.



The AS-4000 and AS-P6000 feature athena's SCT (Low Pass) set up control, which allows for simple and accurate set up of your subwoofer. Simply turn the control until it matches the model number of athena speaker that you have and the subwoofer will perfectly blend into your system. All the guesswork of where to set the controls is eliminated. The AS-P Series of subwoofers also work with any speaker as they are full featured and flexible in operation.



AS-P4000/AS-P6000 SUBWOOFERS

Complementing the WS Series are the innovative AS-P4000 and AS-P6000 subwoofers, providing top notch, low frequency support for music and home theater systems at an extremely competitive price. The simple yet elegant design features a level control and a two-color status LED on the front panel. The rear panel offers an RCA input, speaker level inputs, as well as a rotating crossover control continuously variable from 40-120Hz ensuring the sub can blend properly with any speaker. Both models feature a dual-vented, down-firing design for effective room loading and a flat room response, regardless of the flooring material. Down-firing also allows the subwoofer to be placed closer to walls and corners with no appreciable impact on the acoustics.



Technically Speaking...

NOTHING BUT THE FACTS

"We refused to sacrifice performance for the sake of style"

— GORD VAN KESSEL, CHIEF ENGINEER

RESEARCH

The WS Series features research and technology that our competitors only dream about. The measurement facilities and anechoic chamber utilized by the **athena** engineering team is second to none. The right people working with the right equipment yields better quality products, time and time again. The audiophile press continually praise us for being able to design and manufacture high quality speaker systems that are priced well under our competitors. Take a look at the unique technology featured in the WS Series.

MOUNTING BRACKET

The WS-60 bracket design provides simple and flexible installation, with multiple attachment points. If the bracket is mounted off-center, or mounted to the nearest wall stud, the speaker can be quickly and securely re-positioned, allowing it to be placed properly without removing the bracket from the wall. This bracket functions in both horizontal and vertical positions – it even acts as a base for either standing upright, or to assist in TV top placement.

THE INNER TRUTH

MDF Baffles

MDF (Medium Density Fiberboard) provides a solid and sonically inert baffle to mount the transducers. The MDF baffle reduces transmission between the drivers and the aluminum shell, creating a very strong, resonance free enclosure. The result is lower distortion.

Injection Molded Woofers

High Quality Injection Molding Polypropylene woofer cones with rubber surrounds provide high excursion and low distortion – all leading to exceptional bass.

Teteron Tweeter

The athena Teteron 1" tweeter platform has continually received critical acclaim for its smooth and accurate response. High power handling, durability and incredible sound quality are its claim to fame.

Passive Radiators (WS-60 / WS-100)

Passive radiators are a precisely built, weighted driver that "tunes" the speaker enclosure much like a tuned port, but produce no wind noise. The WS-60 utilizes four, and the WS-100 has five passive radiators in each speaker to extract as much bass response as possible from their small enclosures.

SWF – Standing Wave Filter (WS-60 / WS-100)

This remarkable filter system sets the WS Series apart from the competition. The SWF is responsible for the WS Series' exceptional bass response and clear midrange. Long narrow speaker enclosures produce excessive standing waves that reduce bass and distort critical midrange frequencies. Precisely placed SWF's control standing waves by reducing the amount of reflected sound inside the enclosure, and by reflecting the remaining sounds at path lengths much higher in frequency eliminating bass cancellation and distortion of the midrange. The result is bass response that is cleaner, deeper, and more accurate than any of our competitors, regardless of price. SWF's help provide a truly flat frequency response for audiophile quality sound.

Aluminum Enclosure

Chosen for its high tech look and high strength, the aluminum shell maximizes internal cabinet volume for maximum bass and efficiency.

Custom Crossover Network

The custom crossover network is designed using our anechoic chamber and measurement equipment to precisely direct the right frequencies to the right components.



WS Series Specifications

WS Series

MODELS	WS-100	WS-60	WS-15
Woofer	Three-3.5" I.M. Polypropylene Woofers	Two-3.5" I.M. Polypropylene Woofers	3.5" I.M. Polypropylene Woofer
Passive Radiator	Five-3.5" I.M. Polypropylene	Four-3.5" I.M. Polypropylene	—
Tweeter	1" (2.5 cm) Teteron	1" (2.5 cm) Teteron	1" (2.5 cm) Teteron
Power Handling	200 W	150 W	100 W
Crossover Point	2.4 kHz	2.4 kHz	2.7 kHz
Impedance	8 Ohm Compatible	8 Ohm Compatible	8 Ohm Compatible
Frequency Response	50 Hz - 20 kHz +/-3dB	60 Hz - 20 kHz +/-3dB	100 Hz - 20 kHz +/-3dB
Sensitivity	90 dB	88 dB	86 dB
Dimensions (HxWxD)	41.6 x 4.2 x 4" 104 x 10.5 x 10 cm	23.8 x 4.2 x 4" 59.5 x 10.5 x 10 cm	6.7 x 4.2 x 4" 16.8 x 10.5 x 10 cm
Weight	14 lbs (6.3 kg) each Packaged in Pairs	10 lbs (4.5 kg) each Packaged Individually	2.8 lbs (1.3 kg) each Packaged in Pairs

Subwoofers

MODELS	AS-P4000	AS-P6000
Woofer	10" Down Firing Injection Molded Cone Rubber Surround 1.5" Voice Coil 28 ounce magnet	12" Down Firing Injection Molded Cone Rubber Surround 1.5" Voice Coil 28 ounce magnet
Power Output	400 W Peak Power 100 W Continuous	800 W Peak Power 200 W Continuous
Frequency Response	23 - 120 Hz +/-3dB	21 - 120 Hz +/-3dB
Ports	Dual - Front and Bottom	Dual - Front and Bottom
Variable Low Pass Filter	YES w/SCT Model Numbers	YES w/SCT Model Numbers
Dimensions (HxWxD)	17.5 x 11.5 x 18" 43.8 x 28.8 x 45 cm	19.5 x 13.3 x 20.5" 48.8 x 33.3 x 51.3 cm
Weight	28 lbs (12.6 kg) each	35 lbs (15.75 kg) each



athena TECHNOLOGIES®

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