



Loud Speaker Systems

*Concert Series™*



## Yamaha technology can make a living room sound like a 20,000 sq. ft. movie palace.

*That's why you need a speaker system that covers all the angles.*

When it comes to bringing home the real drama of a movie, seeing alone isn't believing. It takes sound as impressive as your picture to put you right in the middle of the action. And that takes both sophisticated electronics and superior speaker technology. Yamaha has years of experience at both.

Our components employ the most advanced surround-sound processing technology available today. And decades of Yamaha experience in sound field measuring and processing, custom integrated circuit design and audio microchip fabrication go even further – taking you where no home theater system has gone before.

Stepping up to the superior sound of home theater means expanding beyond the basic two-speaker set-up of a conventional stereo system. Which speakers to buy – and how many – depends on the kind of surround sound technology your A/V receiver or signal processor provides.

On the following pages, you'll find a complete family of Yamaha speakers. They're engineered with the expertise we've gained through decades as one of the world's leading manufacturers of fine musical instruments. And they're designed to work together as a system to let you hear all the performance your components were designed to deliver.

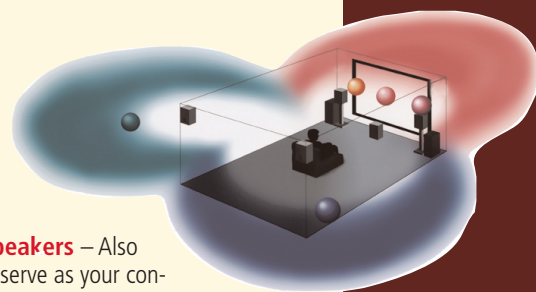
As the room illustrated on the following page shows, the speakers you'll need to create your own home theater fall into several basic categories.

**Dolby® Pro Logic®** – A big step beyond two-speaker stereo. One additional channel feeds two rear effects speakers, while another serves a center channel speaker. Dolby Pro Logic positions dialogue and effects around the room, so they closely match the action on screen.

**Cinema DSP** – The ultimate in home theater sound reproduction. Yamaha's exclusive Cinema DSP signal processing technology applies the vast library of sound field data we've amassed creating products for audio professionals, both on the stage and in the studio. When integrated with Dolby Digital Surround (AC-3) and Tri-Field Processing, Cinema DSP maintains the depth, openness and realism the director envisioned. While also preserving the directional relationships of every sound.

**Dolby Digital Surround (AC-3)** – Positions sounds with even greater precision. Separate, full-bandwidth channels serve each of your rear speakers, and low-bass signals are routed to a dedicated subwoofer. Front left, right and center channels complete the picture, surrounding you with an incredibly accurate sound image.

**Tri-Field Processing** – It's the secret to making a small room sound like a huge theater. And only Yamaha has it. Proprietary digital signal processing technology expands the apparent dimensions of your sound field, creating the unmistakable sensation of a first-run theater's acoustic spaciousness.

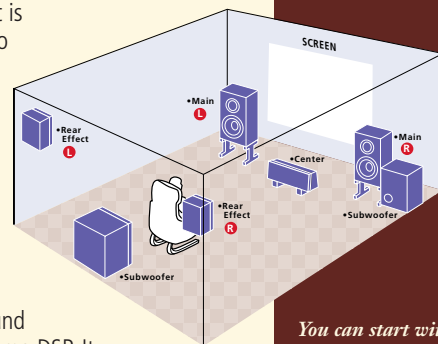


**Main Speakers** – Also designed to serve as your conventional full-range stereo speakers for audio-only performances, these create the basic stereo image at the front of your room. Alternatively, you can use small satellite speakers, along with a subwoofer, providing a full spectrum of sound from an easy-to-conceal speaker system.

**Surround or Effects Speakers** – Typically positioned toward the back of your room, these play a key supporting role in your home theater system. They generate the rear-channel sounds that make going to a movie theater a three-dimensional sonic experience. More elaborate systems may also add effects speakers at the front of the room for music DSP and enhanced movie applications.

**Subwoofer** – It is specially designed to deliver thundering lows ordinary speakers can't touch – whether it shares a signal with other speakers, or gets its own dedicated bass channel from Dolby Digital Surround (AC-3) and our Cinema DSP. It generally comes with its own amplifier. Because deep bass fills a room from all directions, you can put this speaker almost anywhere in your home theater.

**Center Channel Speaker** – With Dolby Pro Logic, Dolby Digital Surround or our Cinema DSP, this speaker uses special information encoded on the soundtrack to fill in the sonic gap between your two main speakers. So the sounds of dialogue and effects that happen on your screen come from precisely that direction.



*The proprietary Yamaba Tri-Field Processing technology used in our Cinema DSP lets you experience the acoustic spaciousness of a large theater, while hearing every creak, rumble, voice and musical note from exactly where the director intended.*

*You can start with pairs of main and surround speakers, then add to your home theater with a center channel speaker and subwoofer for even more impressive sound.*

## NS-AW1 and NS-AW1W All-Weather Speaker

Yamaha's NS-AW1 is Yamaha's first speaker designed for use outdoors. The two-way acoustic suspension design system uses a weather resistant, sealed enclosure made of UV-stable polypropylene with an aluminum grille. A 5" high compliance glass filled cloth woofer/midrange delivers solid reproduction of the lower and middle frequencies, while the upper end of the frequency range is handled by Yamaha's 1/2" pure titanium dome tweeter. The speaker is magnetically shielded, so it can be placed on a TV or video monitor without degrading the picture via stray magnetic fields. To assure flexibility, durability, and the best electrical connection possible, Yamaha has equipped the NS-AW1 with gold-plated five-way binding posts. The five-way binding posts can accept banana plugs and variety of other connectors, as well as speaker wire. The gold plating assures that once the connection is physically made, the electrical connection is not degraded by weather or other conditions. For easy mounting both inside and outdoors, the NS-AW1 come with mounting brackets. The NS-AW1 features a black micro-pebble finish. The identical speaker in white is designated NS-AW1W.



## NS-E103 — Surround Effects Speaker

Designed expressly for home theater applications, these wall mountable/shelf speakers add depth and dimension to your listening pleasure. They feature Bass Reflex design, 4" full-range drivers able to handle 50 watts of power – more than ample for all but the most extreme listening situations.





### ■ NS-A528

It's rare to come across a bookshelf speaker this size that sounds as good as the NS-A528. But what's even more impressive is its price. Representing one of the best speaker values anywhere, the NS-A528 features an efficient two-way design with a 6" woofer and  $\frac{3}{4}$ " ferro-fluid cooled dome type tweeter. Its black Micro-Pebble finish looks great wherever you place it. Magnetic shielding lets you use them near any TV monitor.



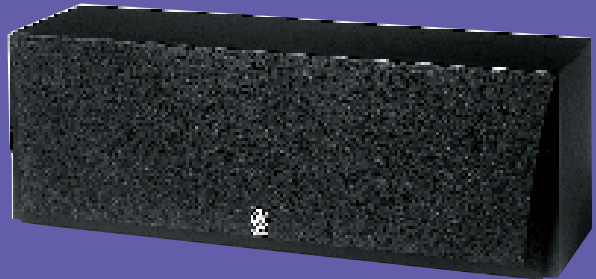
### ■ NS-A838

Setting new standards for bass performance in a bookshelf speaker, the NS-A838's impressive 3-way design features a 12" high compliance, long-throw woofer, 4" midrange with inverted dust cover for natural sound even under adverse conditions, and 1" high-tech neodymium, dome tweeter. The NS-A838 also features an acoustically transparent removable grill and a striking black Micro-Pebble finish, all in a magnetically shielded design you can place near any TV monitor.



### ■ NS-A638

To call these bookshelf speakers impressive is an understatement indeed. Beneath its acoustically transparent removable grill, the NS-A638 features an 8" woofer, 4" midrange and  $\frac{3}{4}$ " ferro-fluid cooled dome type tweeter. Magnetic shielding lets you use them near any TV monitor. Put them up anywhere and they'll bring down the house.



### ■ NS-AC143

Setting new standards for price and performance, the NS-AC143 is ideally suited for Yamaha components equipped with Dolby Pro Logic, Dolby Digital and DTS. It includes two  $5\frac{1}{4}$ " high compliance glass-filled woofers with inverted dust covers and a 1" high-tech neodymium dome tweeter with a built-in tweeter attenuator. Magnetically shielded and designed to visually and acoustically blend with all Yamaha main and effects speakers. Suitable for use above or below your video screen.

## NS-A1738 — Flagship Tower Four-Way Speaker System

Yamaha's new NS-A1738 is a true four-way speaker system, internally braced to eliminate resonances. Deep and accurate bass is assured through the use of 15" woofers arranged in a mirror-image, side firing configuration. The drivers are long-throw polymer coated devices. The low bass response of the NS-A1738 eliminates the need for a separate subwoofer. Inside the cabinet, Yamaha has created separate chambers to house the two mid-range drivers. The result is that the two drivers respond differently, due to the relative air volume surrounding them, and augment each other. The drivers are identical 6 1/2" high compliance glass-filled models and use an inverted dust cover. The high-frequency response is accurately handled by a 1" glass-filled cloth dome tweeter. For the ultimate in sound purity, Yamaha's NS-A1738 can be bi-amped, so that separate amps would serve the woofers and mid-range/ tweeter combination. The speaker is magnetically shielded, so it can be placed near a TV or video monitor without degrading the picture. Satin grille cloth provide an attractive and acoustically transparent protective cover for the drivers, while the micro-pebble black laminate cabinet offers exceptional durability. Five-way binding posts make speaker connection versatile and gold plating assures the best possible electrical connection.

## NS-A1638 — Tower Four-Way Speaker System

Yamaha's new NS-A1638 is another true four-way speaker system containing mirror-image woofers, dual mid-range drivers, and a dome tweeter. Solid, accurate bass created through the use of 12" woofers arranged in a mirror-image, side firing configuration. The drivers are long-throw polymer coated devices. As with the NS-A1738, the low bass response of the 1638 eliminates the need for a separate subwoofer. Inside the cabinet, separate chambers house two mid-range drivers. The result is that the two drivers respond differently, due to the relative air volume surrounding them, and augment each other. The drivers are identical 5 1/4" high compliance glass-filled models using inverted dust covers. High-frequency response is accurately handled by a 1" glass-filled cloth dome tweeter. The speaker is magnetically shielded, so it can be placed near a TV or video monitor without degrading the picture. Satin grille cloth provide an attractive and acoustically transparent protective cover for the drivers, while the micro-pebble black laminate cabinet offers exceptional durability. Five-way binding posts make speaker connection versatile and gold plating assures the best possible electrical connection.



## YST-SW160 — Our Finest Subwoofer for Music or Video

A great way to supplement the low end of any sound system. The YST-SW160 features Yamaha's Advanced Active Servo Technology, a complementary amplifier/speaker system utilizing negative impedance feedback in the amp and a Helmholtz resonator in the speaker to provide strong and accurate bass from small speakers. Dual 8-inch drivers and 150 watt amplifier assures enough power to deliver movie theater-like bass effects, while the dual drivers translates power into clear bass sound from

20 to 160 Hz. The subwoofer is magnetically shielded so it can be placed near a TV monitor or receiver without fear that it will degrade the picture. The user adjustable continuously variable high-cut filter sets the highest frequency the subwoofer will deliver. It can be set anywhere from 40 to 140 Hz. This allows the sub's output to be matched to the other speakers in the system and the room's acoustics for a seamless presentation. The volume control permits the perfect matching of the sub's output to the overall volume of the system.

For convenience, the YST-SW160 has a signal sensing circuit. When the subwoofer detects an audio signal, it turns its power on. When it senses no signal for several minutes, it shuts itself off. The phase normal/reverse switch makes it easy to phase the subwoofer with the other speakers in your system. The entire system is designed so the unit can be oriented either vertically or horizontally, making placement within the room easy. Two sets of inputs allow this versatile subwoofer to accept either line level or speaker level input signals, while three-way speaker terminals accept banana plug and a variety of other connectors, as well as traditional speaker wire.



## YST-SW90 Powerful Bass for Music or Video

The YST-SW90 also features Yamaha's Advanced Active Servo Technology a complementary amplifier/speaker system utilizing negative impedance feedback to provide strong and accurate bass from small speakers. A 100 watt amplifier and an 8" spruce cone driver deliver strong bass response for music and home theater sound from 23 to 170 Hz. The subwoofer is magnetically shielded so it can be placed near

a TV monitor or receiver. The user adjustable continuously variable high-cut filter sets the highest frequency the subwoofer will deliver, from 50 to 150 Hz. This allows the sub's output to be matched to the other speakers in the system and the room's acoustics for a seamless presentation. The volume control permits the perfect matching of the sub's output to the overall volume of the system. For convenience, the YST-SW90 has a signal sensing circuit. When the subwoofer detects an audio signal, it turns its power on. When it senses no signal for several minutes, it shuts itself off. The phase normal/reverse switch makes it easy to phase the subwoofer with the other speakers in your system. The subwoofer can be oriented either vertically or horizontally, making placement within the room easy. Two sets of inputs allow the unit to accept either line level or speaker level input signals, while three-way speaker terminals accept banana plug and a variety of other connectors, as well as traditional speaker wire.

## YST-SW45 — Natural Sound Subwoofer

Using the same Advanced Active Servo Technology as the 90 and 160, the YST-SW45 incorporates a 70 watt amplifier and 8" spruce cone driver to deliver a frequency range of 30 to 200 Hz. The subwoofer is magnetically shielded, with a user adjustable continuously variable high-cut filter that allows the sub's output to be matched to the other speakers in the system and the room's acoustics. The volume control permits the perfect matching of the sub's output to the overall volume of the system. For convenience, the YST-SW45 also features the signal sensing circuit. Again, the unit can be oriented either vertically or horizontally, making placement within the room easy. Three-way speaker terminals accept banana plug and a variety of other connectors, as well as traditional speaker wire.





## NS-AP101 — Three-Piece Center/Surround Speaker System

Yamaha's NS-AP101 package includes an NS-AC2A center channel speaker and a pair of NS-A76A rear effects speakers. The NS-AC2A is a two-way design incorporating a pair of 5" cone woofers and a 2" cone tweeter. The frequency range is 70 to 20,000 Hz, which enables the speaker to naturally reproduce dialog and other important center channel information. The NS-AC2A is magnetically shielded, so it can be placed on a TV or video monitor without degrading the picture via stray magnetic fields. The NS-A76As surround speakers each use a single 5" full-range driver, with frequency of 95 to 13,000 Hz.



## NS-AP150

Expand your home theater experience by supplementing the stereo speakers you already own with this three-speaker package. Our NS-AC3 center channel speaker with two 5" woofers and a 3/4" ferro-fluid cooled dome type tweeter matches up perfectly with a pair of two-way NS-A770 surround speakers.

## CLS-200 — High Performance Home Theater Speaker System

The six-speaker grouping of the CLS-200 includes five identical Yamaha NS-A200X speakers providing the Main, Center, and Rear Effects channels, plus a Yamaha Advanced Active Servo Technology subwoofer, providing the low bass. Each of the five NS-A200X's is a full-range two-way acoustic suspension system incorporating 5 1/4" high compliance glass-filled cloth midrange and a 1" glass-filled cloth dome tweeter. Each two-way speaker delivers full-range frequency response from 55 to 22,000 Hz,  $\pm 3$  dB. You are assured of complete timbre matching, because all speakers are identical, so they provide the same tonality. There is no chance that the bass response of one speaker will overpower another and unbalance the theatrical effect. For easy speaker placement, Yamaha's NS-A200X's can be wall or shelf mounted vertically or horizontally. Five-way speaker binding posts make cable connection just as easy. The NS-A200X's are magnetically shielded, so they can be placed near or on a TV or video monitor without degrading the picture via stray magnetic fields. The low bass for the CLS-200 is provided by the Yamaha SW-5 Advanced Active Servo Technology subwoofer. It features a 12" driver and 200 watt amplifier to deliver the sonic punch needed for home theater and is magnetically shielded. The subwoofer will automatically activate when its circuitry senses an audio signal and will turn off when the signal has ceased for several minutes.



## CLS-150 — High Performance Six-Element Home Theater Speaker System

The six-speaker complement of the CLS-150 includes five identical Yamaha NS-A425A speakers providing the Main, Center, and Rear Effects channels, plus a Yamaha Active Servo Technology subwoofer, providing the low bass. You are assured of complete timbre matching, because all speakers are identical, so they provide the same tonality. There is no chance that the bass response of one speaker will overpower another and unbalance the theatrical effect. Each two-way speaker delivers full-range frequency response from 60 to 22,000 Hz,  $\pm 3$  dB. For easy speaker placement, Yamaha's NS-A425A's can be wall or shelf mounted vertically or horizontally. Five-way speaker binding posts make cable connection just as easy. The NS-A425A's are magnetically shielded, so they can be placed near or on a TV or video monitor without degrading the picture via stray magnetic fields. The low bass for the CLS-150 is provided by the Yamaha SW-4 Advanced Active Servo Technology subwoofer. It features a 10" driver and 100 watt amplifier to deliver the sonic punch needed for home theater. The subwoofer will automatically activate when its circuitry senses an audio signal and will turn off when the signal has ceased for several minutes. A continuously variable high-cut filter operating between 50 and 150 Hz makes it easy to match the subwoofer to the other speakers and the room acoustics for a seamless sonic presentation.



<b>NS-AW1 &amp; NS-AW1W All-Weather Speaker</b>	
Midrange/Woofers	5" High Compliance Glass Filled Cloth Woofer, Magnetically Shielded
Tweeter	1/2" Pure Titanium Balanced Dome
Suggested Amp. Power	60 W Nominal Power, 120 W Music Power
Frequency Response	55 Hz to 22 kHz $\pm$ 10 dB
Sensitivity	86 dB/W/M
Impedance	6 ohms
Dimensions (W x H x D) / Wt.	5-7/8" x 8-1/2" x 5-1/2" / 4 lbs.
<b>NS-E103 Effects/Surround Speakers</b>	
Midrange/Woofers	4" Full Range Driver
Suggested Amp. Power	25 W Nominal Power, 50 W Music Power
Frequency Response	70 Hz to 20 kHz (-10 dB)
Dimensions (W x H x D)	7-1/16" x 9-3/16" x 4-7/16"
<b>NS-A528 Bookshelf Speaker</b>	
Midrange/Woofers	6" Hi-Polymer Coated Cone w/Inverted Dust Cover, Magnetically Shielded
Tweeter	3/4" Dome, Ferro-fluid Cooled
Suggested Amp. Power	30 W Nominal, 60 W Music Power
Frequency Response	95 to 20,000 Hz
Sensitivity	90 dB/W/M
Impedance	8 ohms
Dimensions (W x H x D) / Wt.	8" x 12" x 9-5/8" / 7.75 lbs.
<b>NS-A638 Bookshelf Speaker</b>	
Midrange/Woofers	4" Cone / 8" Hi-Polymer Coated Cone, both w/ Inverted Dust Covers, Magnetically Shielded
Tweeter	3/4" Dome, Ferro-fluid Cooled
Suggested Amp. Power	70 W Nominal, 140 W Music Power
Frequency Response	90 to 20,000 Hz
Sensitivity	91 dB/W/M
Dimensions (W x H x D) / Wt.	10-1/2" x 16-3/16" x 13" / 14 lbs. 6 oz.
<b>NS-A838 Bookshelf Speaker with Thundering Bass</b>	
Midrange/Woofers	4" Cone Midrange / 12" Hi-Polymer Coated Cone, Long Throw, Magnetically Shielded
Tweeter	1" Dome, Neodymium Magnet
Suggested Amp. Power	100 W Nominal, 200 W Music Power
Frequency Response	40 to 20,000 Hz $\pm$ 3.5 dB
Sensitivity	92 dB/W/M
Impedance	8 ohms
Dimensions (W x H x D) / Wt.	14-3/4" x 22-5/8" x 14-7/8" / 30 lbs. 6 oz.
<b>NS-AC143 2-Way Center Channel Speaker</b>	
Midrange/Woofers	Dual 5-1/4" High compliance Glass Filled Cloth Woofer w/Inverted Dust Cover Magnetically Shielded
Tweeter	1" Glass-Filled Cloth Dome Tweeter with Attenuator
Suggested Amp. Power	80 W Nominal Power, 160 W Music Power
Frequency Response	80 Hz to 20 kHz
Sensitivity	89 d/W/M
Impedance	8 ohms
Dimensions (W x H x D) / Wt.	19-1/16" x 6-1/2" x 6-3/4" / 11 lbs. 8 oz.
<b>NS-A1738 4-Way Flagship Narrow Tower Speaker</b>	
Midrange/Woofers	6-1/2" x 2 Cone Midrange / Mirror Image 15" Cone, Side Firing, Magnetically Shielded
Tweeter	1" Glass-Filled Cloth Dome Tweeter
Suggested Amp. Power	120 W Nominal Power, 240 W Music Power
Frequency Response	30 to 20,000 Hz
Sensitivity	88 dB/1W/1M
Impedance	6 ohms
Dimensions (W x H x D) / Wt.	8-1/16" x 39-1/4" x 19-1/4" / Wt. 56.5 lbs.
<b>NS-A1638 Two 4-Way Narrow Tower Speaker</b>	
Midrange/Woofers	5-1/2" Cone x 2 Midrange / Mirror Image 12" Cone Side Firing, Magnetically Shielded,
Tweeter	1" Glass-Filled Cloth Dome Tweeter
Suggested Amp. Power	100 W Nominal Power, 200 W Music Power
Frequency Response	35 Hz to 20,000 Hz
Sensitivity	88 dB/1W/1M
Impedance	6 ohms
Dimensions (W x H x D) / Wt.	7-1/16" x 36-1/2" x 17-1/16" / Wt. 46.5 lbs.
<b>YST-SW-160 8" Powered Subwoofer</b>	
Driver	8" Cone x 2, Magnetically Shielded
Suggested Amp. Power	Built-in 150 Watt Amplifier Yamaha Advanced Active Servo Technology
Frequency Response	20 Hz to 160 Hz
High-Cut Filter	Continuously Variable from 40 to 140 Hz
Dimensions (W x H x D) / Wt.	9-1/4" x 23-3/4" x 18-1/4" / 44 lbs.

<b>YST-SW-90 8" Powered Subwoofer</b>	
Driver	8" Spruce Cone, Magnetically Shielded
Suggested Amp. Power	Built-in 100 Watt Amplifier Yamaha Advanced Active Servo Technology
Frequency Response	23 Hz to 170 Hz
High-Cut Filter	Continuously Variable from 40 to 140 Hz
Dimensions (W x H x D) / Wt.	9-1/4" x 19-1/4" x 16-1/4" / 31 lbs.
<b>YST-SW-45 8" Powered Subwoofer</b>	
Driver	8" Spruce Cone, Magnetically Shielded
Suggested Amp. Power	Built-in 70 Watt Amplifier Yamaha Advanced Active Servo Technology
Frequency Response	30 Hz to 20 Hz
High-Cut Filter	Continuously Variable from 50 to 150 Hz
Dimensions (W x H x D) / Wt.	10" x 13-3/4" x 11-3/4" / 18.2 lbs.
<b>NS-API01 Three-Piece Center/Surround Speaker System</b>	
Carton Dimensions (W x H x D) / Wt.	20-3/4" x 15" x 8" / 13 lbs.
<b>NS-AC2A — Center Channel</b>	
Midrange/Woofers	5" Cone x 2, Magnetically Shielded
Tweeter	2" Cone
Frequency Response	70 to 20,000 Hz
<b>NS-A76A — Surround/Effects Speakers</b>	
Midrange/Woofers	5" Full Range Driver
Frequency Response	95 to 13,000 Hz
<b>NS-API50 Three-Piece Center/Surround Speaker System</b>	
Carton Dimensions (W x H x D) / Wt.	21" x 20-1/2" x 10-3/4" / 27 lbs.
<b>NS-AC3 — Center Channel</b>	
Midrange/Woofers	5" Cone x 2, Magnetically Shielded
Tweeter	3/4" Ferro-Fluid Cooled Dome
Suggested Amp. Power	Min. 10 W / Max. 100 W
Frequency Response	80 to 20,000 Hz $\pm$ 3 dB
Nominal Impedance	8 ohms
Dimensions (W x H x D)	18" x 6-1/2" x 7-3/4"
<b>NS-A770 — Surround/Effects Speakers</b>	
Midrange/Woofers	5" Cone, Magnetically Shielded
Tweeter	3/4" Ferro-Fluid Cooled Dome
Suggested Amp. Power	Min. 10 W / Max. 100 W
Frequency Response	90 to 20,000 Hz $\pm$ 3 dB
Nominal Impedance	8 ohms
Dimensions (W x H x D)	7-5/16" x 11" x 6-1/2"
<b>CLS-200 Home Theater Speaker System</b>	
Carton Dimensions (W x H x D) / Wt.	24" x 33-1/2" x 21" / 96 lbs.
<b>NS-AP200X — Main Speaker Package (5) main, center &amp; surround</b>	
Midrange/Woofers	5-1/4" High Compliance Glass Filled Cloth Midrange w/Inverted Dust Cover Magnetically Shielded, A/V Ready
Tweeter	1" Glass Filled Cloth Dome
Suggested Amp. Power	80 W Nominal Power, 160 W Music Power
Acoustic Suspension Design	
Speaker Sensitivity	89 dB/W/M
Frequency Response	55 Hz to 22,000 Hz $\pm$ 3 dB
5-way Binding Post for Flexible Connectivity	
Dimensions (W x H x D) / Wt.	7" x 10-3/8" x 5-5/8" / 4lbs. 12-oz. ea.
<b>SW-5 — Powered Subwoofer</b>	
Woofers	12" Woofer w/built-in 200 watt advanced YST Power Amplifier Magnetically Shielded, A/V Ready
Frequency Response	18 Hz to 170 Hz
High Cut Continuously Variable From	50 Hz to 150 Hz
Dimensions (W x H x D) / Wt.	15-3/4" x 19-3/4" x 17-1/4" / 56-lbs 4 oz.
<b>CLS-150 Home Theater Speaker System</b>	
Carton Dimensions (W x H x D) / Wt.	22" x 30-3/4" x 19" / 72 lbs.
<b>NS-AP425A — Main Speaker Package (5) main, center &amp; surround</b>	
Midrange/Woofers	4" Grey Polymer Coated Woofer Magnetically Shielded, A/V Ready
Tweeter	1/2" Ferro-Fluid Cooled
Suggested Amp. Power	60 W Nominal Power, 120 W Music Power
Acoustic Suspension Design	
Speaker Sensitivity	88 dB/W/M
Frequency Response	60 Hz to 22,000 Hz $\pm$ 3 dB
5-way Binding Post for Flexible Connectivity	
Dimensions (W x H x D) / Wt.	6" x 9" x 4-1/4" / 3.8lbs. ea.
<b>SW-4 — Powered Subwoofer</b>	
Woofers	10" Woofer w/Built-in 100 Watt Advanced YST Power Amplifier Magnetically Shielded, A/V Ready
Frequency Response	25 Hz to 200 Hz
High Cut Continuously Variable From	50 Hz to 150 Hz
Dimensions (W x H x D) / Wt.	14-1/2" x 18-1/4" x 15-1/4" / 31 lbs





*WHERE HOME THEATER LIVES*

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