

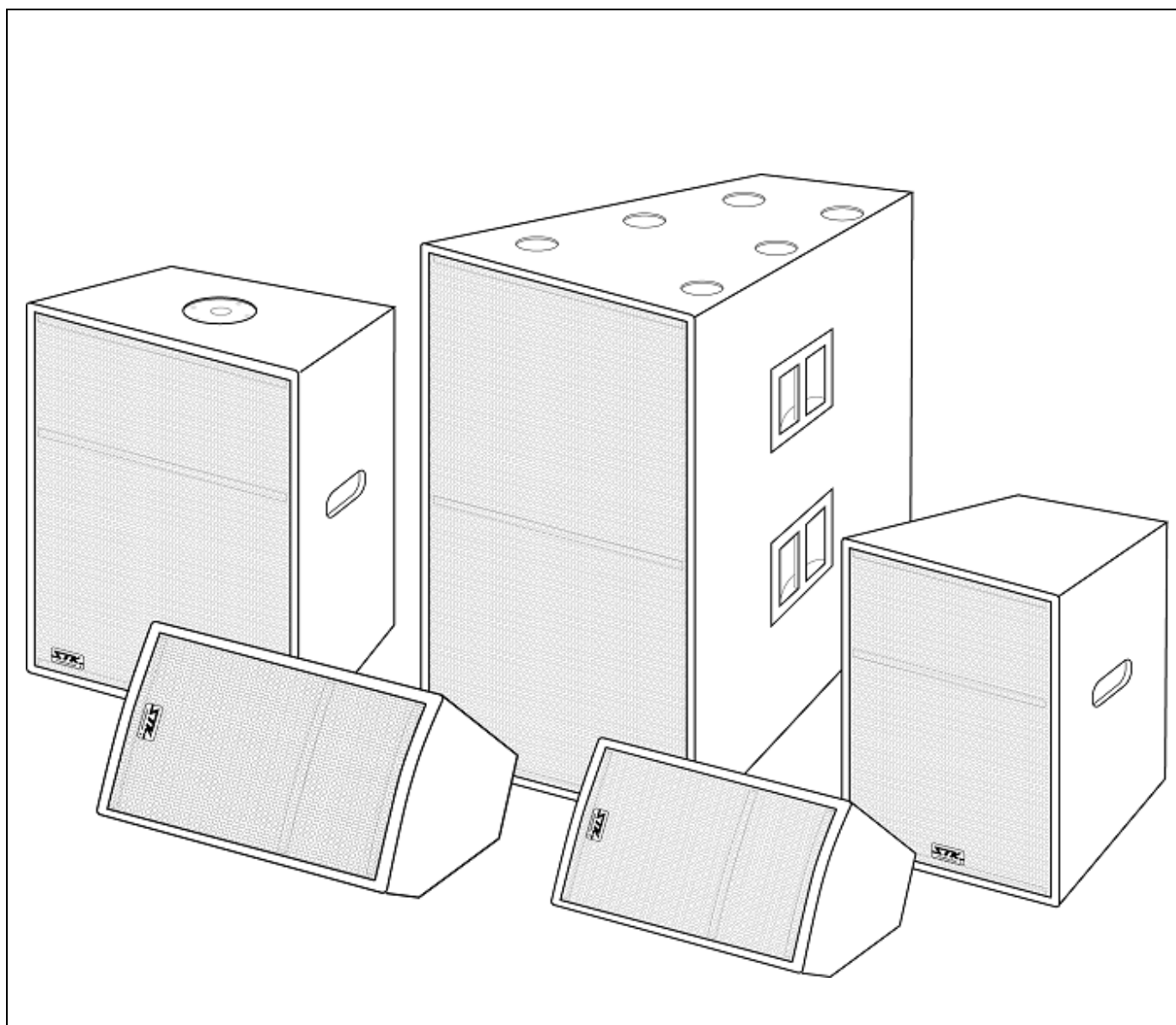


**PROFESSIONAL AUDIO**  
**ENGINEERING AND MANUFACTURING**

## ***PASSIVE SPEAKER SYSTEMS***

**OWNER'S MANUAL**

**ENGLISH**



## Warranty Information

### UNPACKING

As a part of our system of quality control, every STK product is carefully inspected before leaving the factory to insure flawless appearance. After unpacking, please inspect for any physical damage. Save the shipping carton and all packing materials, as they were carefully designed to reduce the possibility of transportation damage should the unit again require packing and shipping. In the event that damage has occurred, immediately notify our dealer so that a written claim to cover the damage can be initiated with the carrier. The right to any claim against a public carrier can be forfeited if the carrier is not promptly notified and if the shipping carton and packing materials are not available for inspection by the carrier. Save all packing materials until the claim has been settled.

**STK Customer Service Department**  
369-2 KURAERI YANGCHON-MYUN KIMPO-CITY  
KYOUNGGI-DO, KOREA.  
TEL : +82-(0)31-981-1788  
FAX : +82-(0)31-981-1784  
E-mail : [stkcom@stkpro.com](mailto:stkcom@stkpro.com)  
[www.stkpro.com](http://www.stkpro.com)

*For you own protection, fill out the information below for you own records.*

Model Number \_\_\_\_\_

Dealer \_\_\_\_\_

Salesman \_\_\_\_\_

Other Information

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### STK LIMITED 1 YEAR WARRANTY

STK electronics are warranted to be free from defects in materials and workmanship under normal use for a period of 1 year from date of original purchase. During that period, STK will at its option, repair or replace materials at no charge if product has been delivered to STK by an STK dealer or STK Service Center together with the original sales receipt or other proof of purchase. Warranty excludes fuses, exterior finish, normal wear, failure due to abuse, or operation outside of specified ratings. Warranty applies to original purchaser only. This warranty gives you specifically rights which vary from state to state. For more information about warranty repair, please contact: **Customer Service Dept., The STK Professional Audio.**

### FOR YOUR RECORDS

All of us at STK thank you for your expression of confidence in STK products. The unit you have purchased is protected by a limited 1 year warranty. To establish the warranty, be sure to fill out and mail the warranty card attached to your product.

Serial Number \_\_\_\_\_

Date Of Purchase \_\_\_\_\_

Phone \_\_\_\_\_

## Introduction

The STK speaker system places professional quality full range, stand-mount pro audio speaker technology within easy reach of the working, budget mounted performer. Recent developments include an improved constant directivity horn for better off-axis response in the high frequency range.

High-frequency which enables them to continue to function, without damage, during typical overload condition.

### STANDARD FEATURES

- ▶ Ultra tough Warnex texture coating
- ▶ Heavy-gauge, perforated metal speaker grille.
- ▶ Dual speaker jacks.
- ▶ Metal stand adapters. (except large cabinet).
- ▶ 3/4" plywood and chipboard construction.
- ▶ Horn tweeter protection circuitry.

## Features

### SP-112

A 2-Way system with one 12 inch heavy duty speaker and one high frequency bullet compression tweeter in an extremely lightweight aluminum stand adaptor.

- ▶ Frequency response: 70Hz to 18kHz
- ▶ SPL: 100dB at 1W/1m
- ▶ Power handling 150watts continuous, 300watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-2, VM-4DDR, VM-6SDRV,

### SP-122

One 12inch heavy duty speaker and on high frequency horn in an extremely light weight vented enclosure with aluminum stand adaptor..

- ▶ Frequency response: 63Hz to 18kHz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 250watts continuous, 500watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-2, V-3.5M, V-6, VM-8DRV, VM-11SDRV

### SP-152L

One 15inch heavy duty speaker and on high frequency horn in an extremely light weight vented enclosure with aluminum stand adaptor..

- ▶ Frequency response: 60Hz to 18kHz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 200watts continuous, 400watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-2, V-3.5M, V-6, VM-8DRV, VM-11SDRV,

### SP122H

The SP-122H is the compact solution for high power loud speaker applications where space is premium . A two way passive, trapezoid system, the SP-122H has a 12"Con Bass driver for high power handling, coupled with a 2" voice coil compression driver.

- ▶ Frequency response: 60Hz to 18kHz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 400watts continuous, 800watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-6, VS-15, V-9, VM-11SDRV, VM-16SDDR, VM-14SDDR, SM-16SDDR

### SP152H

The SP-152H is the compact solution for high power loud speaker applications where space is premium . A two way passive, trapezoid system, the SP-152H has a 15"Con Bass driver for high power handling, coupled with a 2" voice coil compression driver.

- ▶ Frequency response: 60Hz to 18kHz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 300watts continuous, 600watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-6, VS-15, V-9, VM-11SDRV, VM-16SDDR, VM-14SDN

### SP-153H

A 3-way enclosure, with one 15inch heavy duty speaker. One heavy duty 6inch mid range, and one 2.5inch horn tweeter. The SP153 is pre-wired for full range or bi-amp operation.

- ▶ Frequency response: 53Hz to 19kHz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 300watts continuous, 600watts program
- ▶ Impedance: 8 ohms.
- ▶ Suggestion system: V-6, VS-12, V-9, VM-11SDRV, VM-14SDDR, VM-16SDDR

### SP-4730N

High-efficiency, three-way system enclosure, with one 15inch heavy duty speaker. One heavy duty 8inch mid range, and one 2inch horn tweeter. The SP4730N is pre-wired for full range or bi-amp operation.

- ▶ Frequency response: 53Hz to 18kHz
- ▶ SPL: 100dB at 1W/1m
- ▶ Power handling 400watts continuous, 800watts program
- ▶ Impedance: 4 ohms.
- ▶ Suggestion system: V-9, VS-15, VS-2004, SM-16SDDR

### SP-4730H

High-efficiency, three-way system enclosure, with one 15inch heavy duty speaker. One heavy duty 8inch mid range, and one 2inch horn tweeter. The SP4730H is pre-wired for full range or bi-amp operation.

- ▶ Frequency response: 53Hz to 18kHz
- ▶ SPL: 100dB at 1W/1m
- ▶ Power handling 400watts continuous, 800watts program
- ▶ Impedance: 8 ohms.
- ▶ Suggestion system: V-9, VS-15, VS-2004, SM-16SDDR

### SP-253N

High power, 2-Way system featuring two high power 15inch speakers, a large format compression driver. The SP-253N is pre wired for full range and bi-amp operation.

- ▶ Frequency response: 50Hz to 19kHz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 800watts continuous, 1600watts program
- ▶ Impedance: 4ohms.
- ▶ Suggestion system: VS-15, VS-2004, VS-20, SM-16SDDR

### SP-4733N

High power, 2-Way trapezoidal system engineered for full range or bi-amp operation. Features two 15inch speakers with impregnated

cones plus a high frequency compression driver coupled to a die cast aluminum horn.

- ▶ Frequency response: 50Hz to 18kHz
- ▶ SPL: 103dB at 1W/1m
- ▶ Power handling 1200watts continuous, 2400watts program
- ▶ Impedance: 4ohms.
- ▶ Suggestion system: VS-15, VS-2004, VS-20, VS-34

### SP-218S (SUB WOOFER)

The SP218S is a dedicated high performance sub bass system designed to augment the Low frequency output of the SP-218 in large scale applications where the sub bass enclosures must be used.

- ▶ Frequency response: 30Hz to 200Hz
- ▶ SPL: 98dB at 1W/1m
- ▶ Power handling 1600watts continuous, 3200watts program
- ▶ Impedance: 4 ohms.
- ▶ Suggestion system: VS-34, VS-40

## Features

### SP-118S (SUB WOOFER)

Designed for a variety of professional applications, the SP118S adheres to a continuing legacy of high efficiency and performance value. A dedicated sub woofer with dual 18 inch transducer in a vented trapezoidal enclosure engineered to complement the SP series

full range system. Recessed cup on the top accept the footpads of a SP4733A or another SP 118S.

Frequency response: 30Hz to 200Hz

- ▶ SPL: 95dB at 1W/1m
- ▶ Power handling 800watts continuous, 1600watts program
- ▶ Impedance: 8 ohms.
- ▶ Suggestion system: VS-20, VS-2003

### SPM-122 (ABS MOLDED CABINET)

The SPM-122 is compact full range sound system with tough molded ABS cabinets.

Its very light and easy carry full range speaker system.

- ▶ Frequency response: 55Hz to 19kHz
- ▶ SPL: 100dB at 1W/1m
- ▶ Power handling 200watts continuous, 400watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: VM-4DRV, VM-8DRV, V6, SP-158AP for satellite

### SPM-152H (ABS MOLDED CABINET)

The SPM152H is a 2-way full range system with ABS molded cabinet.

Enclosures are trapezoidal in shape and easy stacked

- ▶ Frequency response: 55Hz to 19kHz
- ▶ SPL: 98dB at 1W/1m
- ▶ Power handling 300watts continuous, 600watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-6, V-3.5M, VM-8DRV, VM-11SDRV, VM-11TDRV

### SPM-155H (ABS MOLDED CABINET)

The SPM155H is a 2-way full range system with ABS molded cabinet.

Enclosures are trapezoidal in shape and easy stacked

- ▶ Frequency response: 55Hz to 19kHz
- ▶ SPL: 98dB at 1W/1m
- ▶ Power handling 500watts continuous, 1000watts program
- ▶ Impedance: 8ohms.
- ▶ Suggestion system: V-6, V-3.5M, VM-8DRV, VS-15, VM-11SDRV, VM-11TDRV

### SP-115S (SUB WOOFER)

The SP-115S is for sub woofer system in a bass reflex rectangular enclosure .

- ▶ Frequency response: 53Hz to 350Hz
- ▶ SPL: 99dB at 1W/1m
- ▶ Power handling 400watts continuous, 800watts program
- ▶ Impedance: 4 ohms.
- ▶ Suggestion system: V-9, VS-15, SP-158AP EXTERNAL delivered

### SP-118SL (SUB WOOFER)

The SP-118SL is for sub woofer system in a bass reflex rectangular enclosure .

- ▶ Frequency response: 30Hz to 200Hz
- ▶ SPL: 100dB at 1W/1m
- ▶ Power handling 600watts continuous, 1200watts program
- ▶ suggestion system for SUB : SP-1812AP
- ▶ Impedance: 4 ohms.

### SP-115M

The SP-115M is professional 2-way full range monitor system with 15" SK15300 transducers vented the enclosure designed specialized floor wegge for perfect pattern control with dual purpose stage monitor and main.

- ▶ Frequency response: 55Hz to 18kHz
- ▶ SPL: 99dB at 1W/1m
- ▶ Power handling 250watts continuous, 500watts program
- ▶ suggestion system for SUB : SP-1812AP
- ▶ Impedance: 8 ohms.

### SP-112M

The SP-112M is professional 2-way full range monitor system with 12" SK12150 transducers vented the enclosure designed specialized floor wegge for perfect pattern control with dual purpose stage monitor and main.

- ▶ Frequency response: 70Hz to 18kHz
- ▶ SPL: 99dB at 1W/1m
- ▶ Power handling 150watts continuous, 300watts program
- ▶ suggestion system for SUB : SP-158AP
- ▶ Impedance: 8 ohms.

### SP-215S (SUB WOOFER)

The SP-215S is for sub woofer system in a bass reflex rectangular enclosure .

- ▶ Frequency response: 47Hz to 350Hz
- ▶ SPL: 101dB at 1W/1m
- ▶ Power handling 1200watts continuous, 2400watts program
- ▶ suggestion system for SUB : V-9, VS-12, SP-158AP EXTERNAL delivered
- ▶ Impedance: 4 ohms.

## ENCLOSURE CONSTRUCTION

The STK speaker system enclosure utilizes a structural material that combines the strength of high-quality plywood with the density and acoustic damping of particle board without brittleness. Road-Wood uses the same principle of crossbreeding veneers, as in plywood, in order to achieve its very high rigidity. Alternate layers are perpendicularly bonded under intense heat and pressure to form panels of superior uniformity. Unlike many grades of plywood, Road-Wood is dimensionally stable, water-resistant and free from voids.

A combination of dado-cut joints, tough adhesives, and proper bracing ensure a sonically dead enclosure free from panel resonances. The densely-woven, industrial-grade, abuse-resistant carpeting provides a finish that is both attractive and highly durable. Large, heavy-duty metal corner protectors, firmly secured rubber feet, and recessed handles complete the enclosure and ensure that the Music Town series system is ideally suited to a long and reliable life "on the road."

## CONNECTIONS

The STK speaker system is equipped with high quality Speakon connectors. Two connectors are installed in parallel allowing additional STK speaker system to be installed. One matching Speakon connector is supplied with each system. These connectors are locking, self-polarizing and capable of 30 amps RMS continuously. Additional connectors and cables can be purchased from your dealer.

## BI-AMPING

The SP153H, SP4730N and SP4733N may be easily converted for bi-amp operation. On the rear connector panel there are two 6pin terminal block with exposed link bar connector. For full range operation the 4 link bar is as figure 1.

Reconnecting the 2 link bar in the bi-amp operation. The crossover frequency for bi-amp operation should be between 500 and 800 Hz with either a second-order Butterworth (12-dB-per-octave slopes), a third-order Butterworth (18-dB-per-octave slopes), or a fourth-order Butterworth (24-dB-per-octave slopes) response characteristic.

For flattest response in the crossover region when a second-order or fourth-order crossover is used, the polarity between the woofer and high-frequency sections should be the same, i.e., the positive output terminal of the low-frequency amplifier should go to the positive woofer input on the SP4730N (SP153H, SP4733N, SP253N) and the positive output terminal of the high-frequency amplifier should go to the positive high-frequency input on the SP4730N, SP4730H. (SP153H, SP4733N, SP253N).

This instruction assumes of course, that there is no polarity shift between the high-and low-frequency amplifier channels.

**When a third-order crossover is use, the polarity between the woofer and high-frequency section should be reversed.**

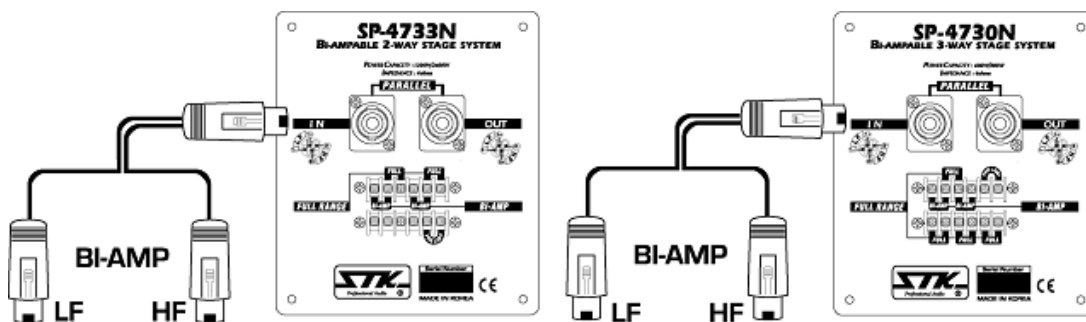
The pin arrangements are:

Full Range:	Bi-Amp:
1 - = IN (-)	1 - = LF (-)
1 + = IN (+)	1 + = LF (+)
2 - = Not used	2 - = HF (-)
2 + = Not used	2 + = HF (+)

## Dear STK Speaker System Customer,

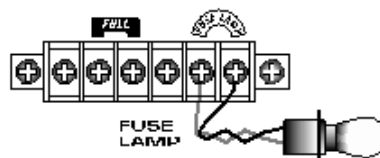
Your new STK speaker system has been upgraded to include our latest design improvements. So that you can fully understand the new features of your STK speaker system, the upgraded is described below. If you have any questions regarding your STK speaker or its operation, please contact your STK Dealer or STK Authorized Service Center. We wish you all the best in the use of your outstanding STK speaker system.

The high frequency horn or tweeter driver on your STK speaker is protected by a specially designed circuit using a Fuse Lamp. In the event of a sudden loss of high frequency performance, it is likely that your horn or tweeter driver is OK and Fuse Lamp has failed. The Fuse Lamp should be replaced by a qualified technician using a replacement lamp of the same type and rating.



## QUICK REPAIR

You can install a temporary Fuse Lamp externally using the terminal strip connections on the rear panel of your speaker. If your horn or tweeter driver is unharmed, this will restore high frequency operation. Be sure to use a lamp of the same type and rating as the factory. Using any other type of lamp will either lessen performance or protection of your speaker system. DO NOT short the terminal strip connections and amp is available. Doing so will operate your horn or tweeter driver without overload protection and will likely result in damage to your speaker system's high frequency components. Such damage is not covered by the warranty. Replace the internal lamp at the earliest available opportunity.



# SPECIFICATION

model		SP112	SP112M	SP122	SP122H	SP152H
SYSTEM TYPE		2-way Speaker System	2-way Monitor Speaker System	2-way Speaker System	2-way Speaker System	2-way Speaker System
POWER	Continuous Program	150 W 300 W	150 W 300 W	200 W 400 W	400 W 800 W	300 W 600 W
IMPEDANCE	(nominal)	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
SENSITIVITY	(SPL1W/1m)	100 dB	100 dB	101 dB	105 dB	101 dB
FREQUENCY RANGE	(-3dB)	70 - 18000 Hz	70 - 18000 Hz	63 - 18000 Hz	61 - 19000 Hz	55 - 19000 Hz
CROSSOVER FREQUENCY		3.3kHz	3.3kHz	3.0kHz	2.5kHz	2.5kHz
TRANSDUCERS:	HF	SK20STN N/A	SK20STN N/A	SK30STN N/A	SK60D N/A	SK-60D N/A
	LF	300mm(12") SK12150	300mm(12") SK12150	300mm(12") SK12200	380mm(15") SK12400	380mm(15") SK15300
CONNECTIONS		2 speaker jack (in parallel)	2 speaker jack (in parallel)	2 speaker jack (in parallel)	2 speaker jack (in parallel)	2 speaker jack (in parallel)
DIMENSIONS	(WXHxD)	400x564x330mm	420x564x397mm	480x632x350mm	414x654x440mm	480x704x480mm
NET WEIGHT		16.54kg	17.76kg	21.9kg	28.7Kg	29.3Kg

Model		SP152L	SP153H	SP4730N	SP4730H	SP-115M
SYSTEM TYPE		2-way Speaker System	3-way Speaker System	3-way Speaker System	3-way Speaker System	2-way speaker system
POWER	Continuous Program	200 W 400 W	300 W 600 W	400 W 800 W	400 W 800 W	250W 500W
IMPEDANCE	(nominal)	8 ohm	8 ohm	4 ohm	8 ohm	8 ohm
SENSITIVITY	(SPL1W/1m)	101 dB	101 dB	103 dB	103 dB	101 dB
FREQUENCY RANGE	(-3dB)	60 - 18000 Hz	53 - 19000 Hz	53 - 18000 Hz	53 - 18000 Hz	55 - 18000 Hz
CROSSOVER FREQUENCY		2.5kHz	500Hz, 3.5kHz	500Hz, 3.5kHz	500Hz, 3.5kHz	2.5kHz
TRANSDUCERS:	HF	SK30STN	SK-60D	SK-60D	SK-60D	SK30STN
	MF	N/A	205mm(8") SK8200	205mm(8") SK8200	205mm(8") SK8200	N/A
	LF	380mm(15") SK15300	380mm(15") SK15300	380mm(15") SK15500-4	380mm(15") SK15500-8	380mm(15") SK15300
CONNECTIONS		2 speaker jack (in parallel) 480x704x397mm	2 speaker jack (in parallel) Full & biamp terminal	2 speaker jack (in parallel) Full & biamp terminal	2 speaker jack (in parallel) Full & biamp terminal	2 speaker jack (in parallel)
DIMENSIONS	(WXHxD)	480x704x397mm	600x754x480mm	600x832x480mm	600x832x480mm	460x669x424mm
NET WEIGHT		25Kg	35.0kg	40kg	41kg	26kg

Model		SP-253N	SP-4733N	SP-118S	SP-218S	SP-215S
SYSTEM TYPE		2-way Speaker System	2-way Speaker System	Subwoofer Speaker System	Subwoofer Speaker System	Subwoofer Speaker System
POWER	Continuous Program	800 W 1600 W	1200 W 2400 W	800 W 1600 W	1600 W 3200 W	1200W 2400W
IMPEDANCE	(nominal)	4 ohm	4 ohm	8 ohm	4 ohm	4 ohm
SENSITIVITY	(SPL1W/1m)	101 dB	103 dB	95 dB	98 dB	101 dB
FREQUENCY RANGE	(-3dB)	50 - 19000 Hz	50 - 18000 Hz	31 - 200 Hz	30 - 200 Hz	47 - 350 Hz
CROSSOVER FREQUENCY		1.5kHz	1.5kHz			
TRANSDUCERS:	HF	SM110MD 2.5" voice coil	SK120MDN 3" voice coil			N/A
	MF	N/A	N/A	N/A	N/A	N/A
	LF	380mm(15") SK15500-8X2	380mm(15") SK15600X2	457mm(18") SK18800	457mm(18") 2 x SK18800	380mm(15") 2 X SK15600
CONNECTIONS		2 speaker jack (in parallel) Full & bi amp terminal	2 speaker jack (in parallel) Full & bi amp terminal	2 speaker jack (in parallel)	2 speaker jack (in parallel)	2 speaker jack (in parallel)
DIMENSIONS	(WXHxD)	560x1240x460mm	600x1240x480mm	604x592x754mm	604x1165x754mm	912 x 476 x 595mm
NET WEIGHT		60.0kg	66.70kg	43kg	80kg	45kg

# SPECIFICATION

model		SP-115S	SP-118SL	SPM-122	SPM-152H	SPM-155H
SYSTEM TYPE		SUB WOOFER Speaker System	SUB WOOFER Speaker System	2-way Speaker System	2-way Speaker System	2-way Speaker System
POWER	Continuous Program	400 W 800 W	600 W 1200 W	200 W 400 W	300 W 600 W	500 W 1000 W
IMPEDANCE	(nominal)	4 ohm	4 ohm	8 ohm	8 ohm	8 ohm
SENSITIVITY	(SPL1W/1m)	99 dB	100 dB	98 dB	98 dB	98 dB
FREQUENCY RANGE	(-10dB)	53 - 350Hz	30 - 200Hz	55 - 19000 Hz	55 - 19000 Hz	54 - 19000 Hz
CROSSOVER FREQUENCY		N/A	N/A	2.5kHz	2.5kHz	2.5kHz
TRANSDUCERS:	HF MF LF	N/A N/A 380mm(15") SK15500	N/A N/A 457mm(18") SK18600S	SK-40 N/A 300mm(12") SK12200	SK-70 N/A 380mm(15") SK15300	SK-70 N/A 380mm(15") SK15500-8
CONNECTIONS		1 speakon jack (in parallel)	2 speakon jack (in parallel)	2 speakon jack (in parallel)	2 speakon jack (in parallel)	2 speakon jack (in parallel)
DIMENSIONS	(WXHXD)	476x540x595mm	568x640x595mm	426x598x326mm	452x700x348mm	452x700x348mm
NET WEIGHT		29kg	41.5kg	26.76kg	20.44kg	20.44kg



The all speaker systems generates magnetic field.  
Do not place them closer than two or three  
Feet(60-100cm) from TV or computer monitors.  
Check the screen for any magnetic audio or  
Video tapes or computer discs near the  
active systems.



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