

## SPS-S030A/P1

### ECO Digital Amplifier Speaker System (30 watts per channel)



The ABtUS **SPS-S030A/P1** is a new ECO active speaker system that design to delivers quality stereo audio amplification withing a speaker system. With a output power at 2 x 30 watts, this speaker provide a new generation of energy saving. Active speaker offer a powerful and versatile answer to any installation's needs, especially in a multimedia class room.

With it's a energy efficient class D digital amplication circuit, it consume as low as 5.8 watts of power in a typical usage, which make this the most ECO-friendly amplication solution ever.

A RS-232 is integrated so that Volume, Treble, Bass etc. can be controlled by any third party central media control system when required.

#### Features

- Integrated with digital audio amplifier with a low power consumption
- RS-232 controllable
- A fully ECO friendly speaker system

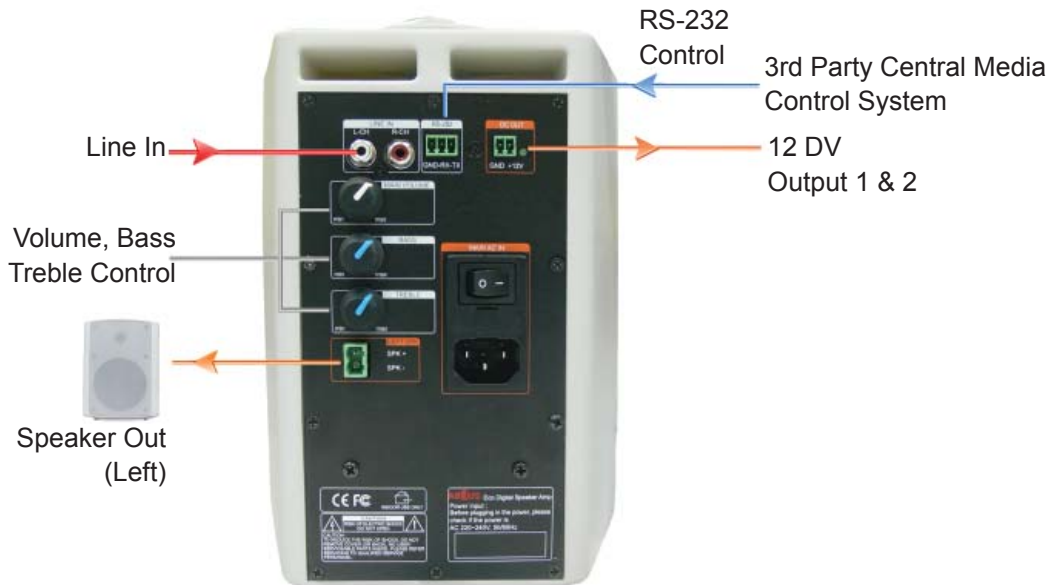
#### Technical specification

	Signal Type	Connector Type
<b>Input:</b>	1 x Stereo Audio Line-in	2 x RCA female connector
<b>Output:</b>	1 x Left Speaker	1 x 2 pin screw type terminal block
	1 x 12V DC (Max 1A)	1 x 2 pin screw type terminal block
<b>Control port:</b>	RS-232	1 x 3 pin screw type terminal block
<b>Output power:</b>	30W + 30W (4 Ohm speaker)	
<b>Speaker unit:</b>	Tweeter	1" (balanced dome)
	Woofer	5 1/4" PP cone
<b>Sensitivity:</b>	88 dB	
<b>Frequency range:</b>	20 Hz to 20 KHz (Amplifier)	
	30 Hz to 18 KHz (Speaker)	
<b>Treble adjust:</b>	± 10 dB	
<b>Bass adjust:</b>	± 10 dB	
<b>Seperation:</b>	≥ 45 dB	
<b>S/N ratio:</b>	≥ 75 dB	
<b>Power supply:</b>	AC 220 ~ 240V 50/60 Hz	
<b>Housing:</b>	ABS enclosure	
<b>Fixedness:</b>	2 x Wall-Mounted U bracket	
<b>Dimensions (L x W x H):</b>	240 x 178 x 162 mm	
<b>Weight:</b>	Active Speaker - 2.9 kg	
	Passive Speaker - 1.8 kg	

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### Diagram



### SPS-S030A/P1 (back panel)

- |                 |  |                     |
|-----------------|--|---------------------|
| 1. Line In      | 2 RCA Stereo Audio   |                     |
| 2. Main Volume  | Main Volume Level Control  | (* Digital control) |
| 3. Bass         | Bass Level Control   | (* Digital control) |
| 4. Treble       | Treble Level Control   | (* Digital control) |
| 5. Left Speaker | Output to Left Speaker   |                     |
| 6. RS-232       | Control Com Port ( * external control from any media central control system) |                     |
| 7. DC Out       | 12V DC 1A Power ( * for supply to any external device)                       |                     |
| 8. Power        | ON/OFF Switcher  |                     |
| 9. Main AC In   | Main AC power Input (* AC 220~240, 50/60 Hz)                                 |                     |

### RS-232 COMMAND CODE

Communication Parameter	
Description	Setting
Baud Rate :	9600bps
Data Length :	8 bits
Parity :	Non Parity
Stop Bit :	One stop bit
X on/Off :	None

RS-232 Connection		
Pin		Function
1	Tx	Transmit data
2	Rx	Receive data
3	GND	Ground



Item	Description	Command code (Hex)
1.	set : VOL to 40 Max (0 to 40 steps)	53   45   54   53   07   02   2D   01   56   53   00   28
2.	set : VOL to 20 Mid (0 to 40steps)	53   45   54   53   07   02   2D   01   56   53   00   14
3.	set : VOL to 00 Min (0 to 40 steps)	53   45   54   53   07   02   2D   01   56   53   00   00
4.	set : BASS to 15 Max (0 to 15 steps)	53   45   54   53   07   02   2D   01   42   53   00   0F
5.	set : BASS to 00 Min (0 to 15 steps)	53   45   54   53   07   02   2D   01   42   53   00   00
6.	set : TREBLE to 15 Max (0 to 15 steps)	53   45   54   53   07   02   2D   01   54   53   00   0F
7.	set : TREBLE to 0 Min (0 to 15 steps)	53   45   54   53   07   02   2D   01   54   53   00   00
8.	set : VOL UP	53   45   54   53   08   02   2D   01   56   55   50   58   58
9.	set : VOL DOWN	53   45   54   53   08   02   2D   01   56   44   4E   58   58
10.	set : BASS UP	53   45   54   53   08   02   2D   01   42   55   50   58   58
11.	set : BASS DOWN	53   45   54   53   08   02   2D   01   42   44   4E   58   58
12.	set : TREBLE UP	53   45   54   53   08   02   2D   01   54   55   50   58   58
13.	set : TREBLE DOWN	53   45   54   53   08   02   2D   01   54   44   4E   58   58
14.	AUDIO SOURCE1 MUTE ON	53   45   54   53   06   02   2D   01   4D   53   31
15.	AUDIO SOURCE1 MUTE OFF	53   45   54   53   06   02   2D   01   4D   53   30
Get Status		
1.	GET : VOL Level	53   45   54   53   07   02   2D   01   47   56   58   58
2.	GET : BASS Level	53   45   54   53   07   02   2D   01   47   42   58   58
3.	GET : TREBLE Level	53   45   54   53   07   02   2D   01   47   54   58   58