



## Features and Characteristics

- (1). Manual impedance compatible design as high quality sound effect.
- (2). Low electric power consumption, not easy generating heat.
- (3). Speaker power: 50W/channel (RMS) and 150W/channel (Music Power).
- (4).  $4\Omega$  and  $8\Omega$  can be used for speaker systems.
- (5). Removable connector can load 12-22 AWG capacity of speaker cable.
- (6). Dimension: 430(W) x 194(D) x 66(H) mm

### 1. SP160-10V Manual matching protection functions

SP160-10V is provided with advanced systems, manual-selectable impedance compatible design and high acoustical quality for enjoyment. No matter you

are using  $4\Omega$  or  $8\Omega$  speakers, SP160-10V can be manually set for impedance matching over the impedance pair selector located on the back of the unit. While multiple speakers are connected to AMPLIFIER at the same time, the getting lower of the speaker impedance may become easily burning down input AMPLIFIER. Therefore, it is important to select the impedance pair right. Set the number of the speaker pair that you desire to install on the speaker output and this adjustment for impedance matching can be made through the Impedance Pair Selector on the back of the unit using a flat-head screwdriver. **Note:** The unit having factory preset of impedance-pair at 10, but the number should be selected accurately in accordance with the quantity of the speaker pairs that have been connected in your real installation for the achievement of sound performance.

### 2. Capable of Selecting 2 Sets of AMPLIFIER Independently

SP160-10V has 2 sets of AMPLIFIER input functions at the same time, and it also can select A or B AMPLIFIER independently, it can also have a ten-mixing selection of A or B AMPLIFIER. Hence, you can randomly switch to your favorite audio source for each zone.

### 3. Switching ON/OFF Independently

SP160-10V has ON/OFF switch functions for each individual zone. Therefore, it allows users to turn the speakers on or off for each pair independently.

**Note:** Ensure the switch is off position before wiring speakers for safety purpose.

### 4. Capable of Control Channel Sound independently

SP160-10V sound volume control has 12 steps and -42dB attenuation (as shown on the Table 1), and frequency responses (30~20KHz) which has  $\pm 2\text{dB}$  of deviation. The first section is OFF and turn the rotary knob clockwise to gain the volume for each zone independently!

**Note:** In order to avoid clipping or distortion caused by improper volume setting upon initial installation, we suggest the amplifier/receiver should be at its lowest volume level and the selector at highest volume level. Then slowly adjust the amplifier/receivers volume to an acceptable level.

Switch Steps	1	2	3	4	5	6	7	8	9	10	11	12
Attenuation	OFF	-42dB	-36dB	-30dB	-24dB	-18dB	-15dB	-12dB	-9dB	-6dB	-3dB	0

Table 1



## Installation

The left and right audio channel circuits are separated, so please ensure the connectors(+ and - , L and R)of INPUT and SPEAKER OUTPUT have been connected correctly and correspondingly as referring to the following wiring diagram!

## Operations

SP160-10V 10pairs speaker selector is easy in operation with following steps:

1)Connect the amplifier sources to inputs A and B

It's important to preset the amplifier/receiver volume at it's lowest level before setting system volume as referring to the mentions on paragraph 4.

2)Connect the speakers as you desire to the rear speaker outputs and ensure the volume on/off button to be set at off position before doing connection.

It's important to select right the number from the impedance matching pair selector at the rear being correspondent correctly to the quantity of the speakers that have been connected to the unit.

3)Press A/B button to select the source amplifier A or B.

Press down the A/B button to select the source B or up to get source A.

4)Press down the on/off button to turn the speakers on independently for each zone according to your favorite.

5)Turn clockwise the volume rotary knob to gain the sound level you desire and enjoy the music everywhere you like in your home.

## Wiring diagram

