



SP110

Portable PA System

Travel musician
Busker
Guitarists
Public Speakers
Vocalists
Performers

Specifications

Maximum Output Power	250W + 250W / 4Ω 150W+150W/6Ω @10%THD at 1kHz (SPEAKER L / R)
Frequency Response	20 Hz - 20kHz
Total Harmonic Distortion	0.5% @ 20 Hz - 20kHz , +14 dBu
Hum / Noise (20 Hz–20 kHz, Rs=150 Ω, MIC/ LINE switcg = MIC)	≤-64 dBu Residual output noise (SPEAKER L/R) ≤-87 dBu Residual output noise (MONITOR OUT, REC OUT)
Crosstalk (1 kHz)	-70 dB between input channels
Weight	23 kg (Mixer and two speakers)
Power Consumption	65 W
Shelving turn over / roll off frequency	±15 dB, HIGH 10kHz shelving LOW 100Hz shelving

Speaker

Enclosure	Bass-reflex type
Speaker Unit	LF: 10"(25.4 cm) Cone; HF:1"(2.54 cm) Compression Driver
Cross Over Frequency	4 kHz
Frequency Range	55 Hz - 20k Hz (-10dB)
Maximum Outout Level	116 dB SPL

Part Numbers

110V WH00SP11001US / **220V** WH00SP11001DE

1/4

Gernal Description

The SP110 compact all-in-one design allows for ease of transportation, while its user-friendly controls offer ease of operation, making it the perfect choice for schools, churches, civic organizations and small musical groups. The SP108 features dual two-way speakers driven by a eight-channel, 300 Watt stereo powered mixer, making it ideal for both vocal and musical applications. Among many professional features, the mixer includes digital reverb and music/speech switch. The convenient accessory compartment storage for cables and additional microphones. This clever design allows the powered mixer to be installed in the speaker compartment or detached for easy positioning and access. The SP110 is a high-performance livesound system that will deliver your music or message where you go, indoor or out.

Features

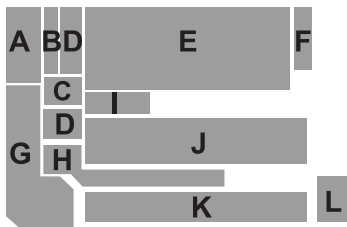
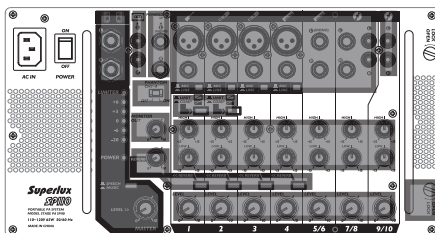
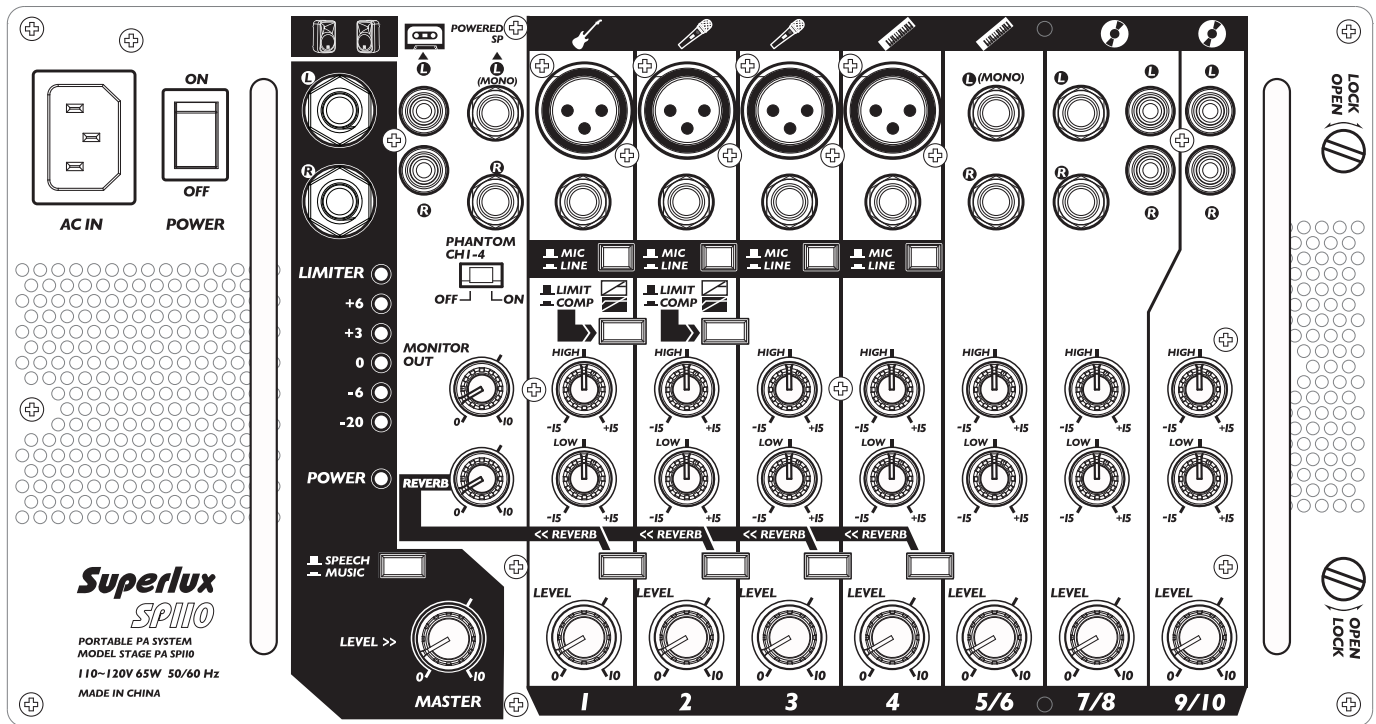
- 500W, 10-ch powered mixer
- 10" 2-way speaker
- Phantom power for condenser microphones
- Compressor and limiter circuitry on channel 1 and 2 for flexible dynamic control
- 35 mm speaker stand socket included
- Less weight, and easy to carry, transport and setup.
- Powered mixer with class D power amp, 2-band channel EQ, reverb, and mic stand mountable.
- Built-in limiter to prevent overload and damage to amp and speakers
- XLR3F, 1/4" (6.3 mm) and RCA jacks for versatile inputs
- Powered mixer can be used either while installed in the speaker compartment or detached for easy positioning and access.
- Storage compartment in the speaker cabinet for packing the included cables, and your microphones.
- Speakers can be used as mains or floor monitor.



System Includes

2x 10" 2-way speakers	2x speaker cables, 5 meter
1x 10-CH Powered Mixer	1x power cord

Made in China



A. Speaker Out

Connect to the speakers by using the included cables.

B. RCA Output Jacks

These jacks are for a recorder.

C. Phantom Power

Provides 15V DC phantom power for condenser mics on 4 mic channels.

D. Monitor Out

This control will determine the level of 1/4" line output jacks to be sent to powered speakers for monitoring.

E. Mic/Line Inputs and Switches

These jacks accept your microphones and instruments, and set the level switch accordingly.

F. Stereo Line In Channels

The RCA jacks are for connecting to your CD or MP3 player, while the 1/4" phone jacks accept a stereo keyboard, synthesizer, sampler, tone generator, external effect processor or any other line level audio equipment.

G Level Meter

Five-stage level meter LEDs plus a convenient Limiter LED to show when the signal is triggering the Limiter circuit

Speech/ Music Switches

Set to Music when you are playing music for getting enhanced bass or set to Speech when making announcements.

Volume Master

This determine the output level of the entire Mix

H. Reverb Send, On/Off Switches

You may send the built-in reverb to channel 1 to 4 by the switches and the reverb volume control.

I. LIMIT/COMP switches

Provides limiting or compression to mic/line channels 1 and 2 for dynamic control.

J. Two-band EQ

This will give +/- 15dB boost or cut at high and low band to compensate your input signal.

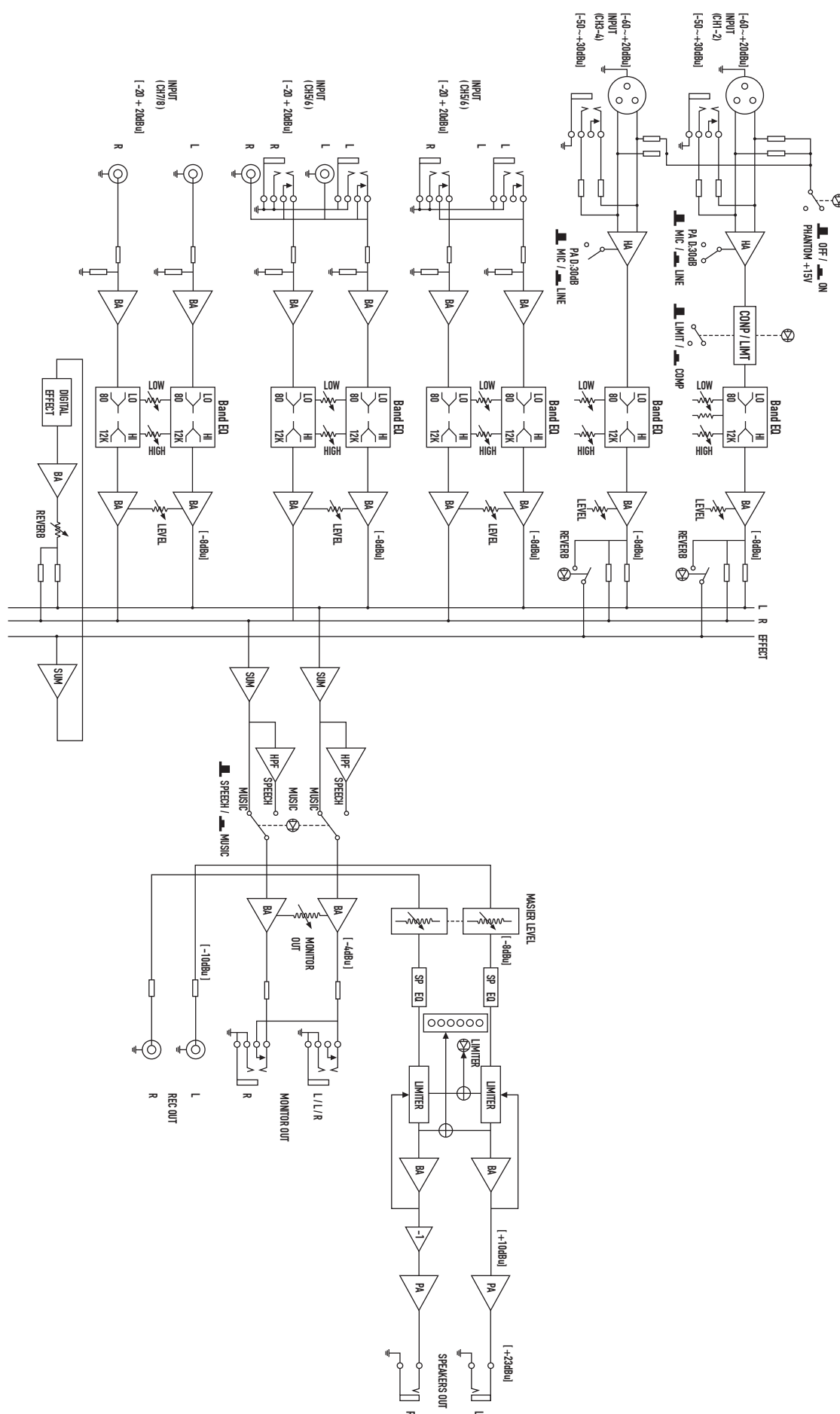
K. Channel Volume

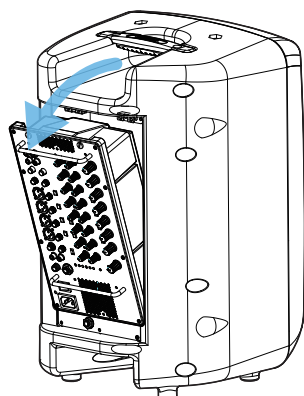
Independent level controls for every input channel to set appropriate mixing level.

L. LOCK/OPEN

Originally, the mixer is installed in the speaker compartment. But you can use a screwdriver or coin to turn each screw on the mixer from LOCK to OPEN until it clicks, and securely hold the mixer's handles to remove it from the speaker

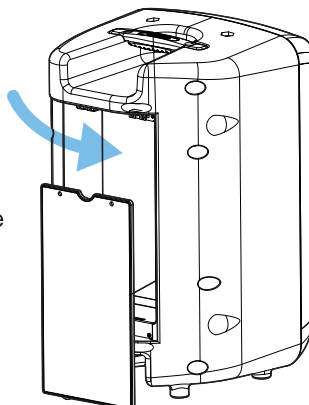
Block Diagram





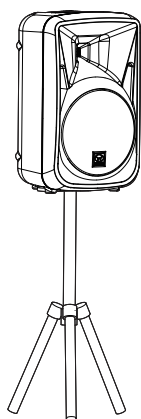
Built-in Powered Mixer

The built-in powered mixer can be used inside the cabinet or taken out from the speaker and placed on a microphone stand through a microphone stand adapter.

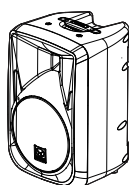


Accessory Compartment

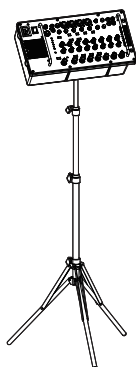
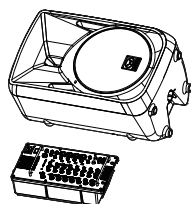
The SP110 involves a storage compartment in the speaker enclosure for storing the included power cable, speaker cable, user guide and optional equipments like microphones. Simply open the back panel of the speaker and put in the things which work with SP110.



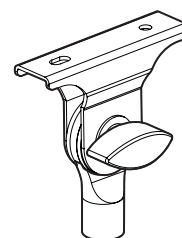
Speaker On a
Speaker Stand



Floor Monitor



Powered Mixer On a
SPS432 Microphone Stand



SPS432

Tripod stand with mounting adapter for SP110 powered mixer, and adjust height from 52cm to 140cm

Mounting adapter's P/N is SPS00SP1080SN and it works well with most of microphone stands

