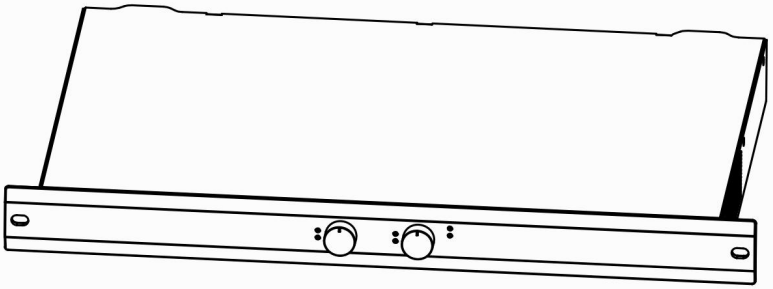
SPON

PROFESSIONAL POWER AMPLIFIER

Installation Manual



IP NETWORK CONFERENCE SYSTEM

Summarize

Safety precaution

Please abide by the warning and the relevant safety tips.

Please take this manual in convenient place after you reading the guide for future reference.

Warning

The sign means there is potential safety hazard, when operate wrong may result in death or serious injury.

The sign is used to remind the user that attached is the important operation and maintenance data.

Setting and Installation

（1）Avoid being wet with the water.

Don't make the machine or exposed to rain water or other liquid contamination of the environment, or lead to fire or get an electric shock.

（2）Don't use unspecified voltage.

Using the marked voltage on the machine.

Using more than the logo of voltage could lead to fire or shock.

（3）Don't scratch the power cord.

Don't scratch the power cord or cut it.

Simultaneous, keep the power line far way from heated objects, put heavy things on it will lead to fires or electric shock.

Using machine

（1）In case of the anomalies

Please turn off the power supply immediately when finding the abnormal phenomena, please connect with the agency. if you continue to use, it will likely fires or shock.

·The smoke or odor of the machine.

·The inside of the machine is flooded by water or foreign bodies intrusion.

·Machine falling or machine shell damage.

·The power cord damage(wire core is exposed of broken, etc).

·Fault(eg:it can't network, no sound ...ect).

（2）Don't open the machine internal or modify the machine.

Do not let foreign matters invade the machines internal.

Don't let the metal items or inflammable objects inserting machine such as foreign inserting machines or throw into the vents machines internal, otherwise will likely cause fires or electric shock.

（3）Please do not touch it when thundering.

To avoid electric shock, please do not touch the machine and the plug when lightning, etc.

（4）Please do not place containers with liquid or small metal objects on machine above.

If gets upset containers, and let the fluid inflow to the machine that will likely fires or

cause shock.

（5）Do not open the machine internal or modify the machine.

The machine internal contains high voltage parts, once open the cover or modify the machine, it will likely fires or cause shock. All the maintenance and other machine modification should be operated by professional personnel.

（6）Maintenance and the precautions for not using in a long time.

While maintenance, if the machine is not using for 10 days or more , please shut off power supply switch for safety. If do not comply with this provision, it will likely cause electric shock or fires.

Product Introduction

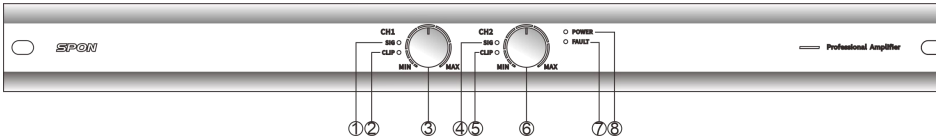
Professional power amplifier is used for meeting room, lecture hall, auditorium, playground, command center and other scenes.

Feature

- 1U thin body, novel and simple appearance design.
- The standby power as low as 5W, the machine operating efficiency is up to 90%, greatly reducing power waste.
- Built-in peak level limiter reduces the probability of clipping signal damage to the speaker,and the clipping indicator can remind users to reduce the volume appropriately.
- Built-in overheat level control, it can ensure that the power amplifier automatically proportionally compress signal under extreme high temperature conditions, and not be turned off, to ensure normal operation.
- Provide complete protection functions, including soft start, DC, high frequency, over voltage, under voltage, overload, short circuit, voltage limit, overheating, etc. With good compatibility.
- Power input and power output end adopt lightning surge protection design, which is better than the national standard EMI performance.
- Global universal PFC power supply, can be used anywhere in the world, with little interference to the grid and reduce the requirements on the grid.
- Adopts temperature sensing stepless speed regulation heat dissipation mode it can intelligently balance heat and wind noise under full power output state.
- Power input has external fuse box design, which is built-in backup fuse, it can protect the device and facilitate maintenance.

Interface Description

Front Panel



①Signal indicator [1]: When the signal level of the corresponding channel is higher than -45dB, there is no signal input and the it will be off. When the signal frequency is lower than 50Hz or the level is lower than -40dB, it will blink with the signal size.

②Overload indicator [1] : It will light up when distortion of channel 1 audio reach to a critical state.

③Volume knob 1: Adjust the output volume of channel 1, the volume will increase when it be clockwise rotated and the volume will decrease when it be counterclockwise rotated .

④Signal indicator [2] : when line input 2 has audio signal input, signal indicator [2] will be solid green, when no signal input it will be off.

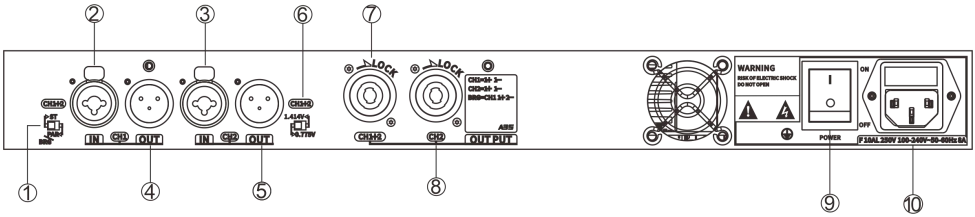
⑤Overload indicator [2] : It will light up when distortion of channel 2 audio reach to a critical state.

⑥Volume knob 2: Adjust the output volume of channel 2, the volume will increase when it be clockwise rotated and the volume will decrease when it be counterclockwise rotated .

⑦Protection light: It will light up when the device is come into protection state or faulty.

⑧Power light: When the device is powered on, it will be solid red.

Back Panel



①Mode switching switch: ST: Stereo mode; PAR/BRG: Signal parallel connection mode, routing the channel 1 signal to channel 2;

②Line input 1 interface

③Line input 2 interface

④Line output 1 interface

⑤Line output 2 interface

⑥Input sensitivity dip switch

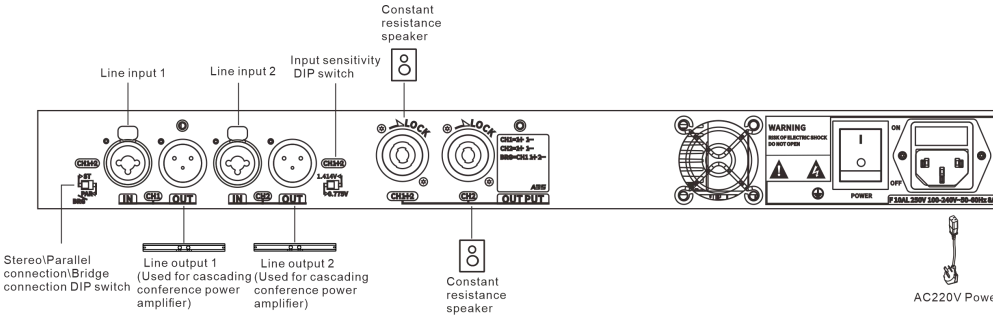
⑦Constant resistance output 1 interface

⑧Constant resistance output 2 interface

⑨Power Switch

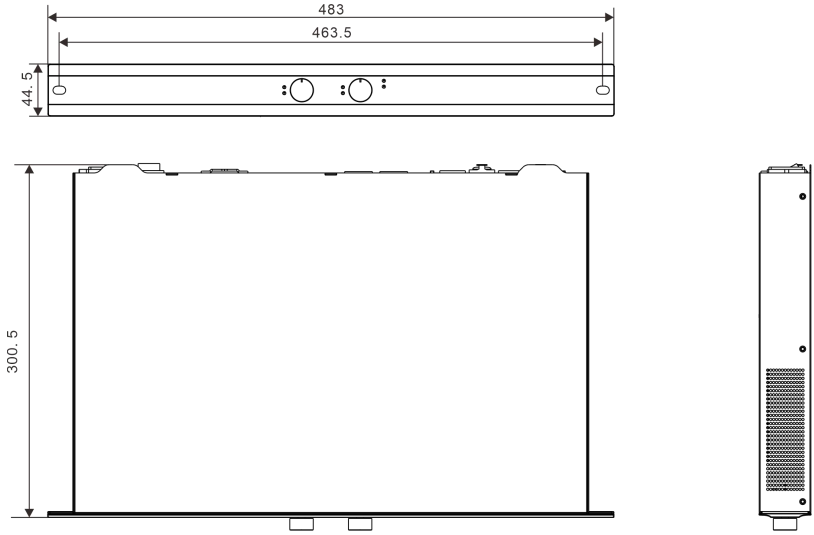
⑩Power input interface

Wiring



Output end wiring: In stereo mode, 1+, 1- should be connected, and in bridge mode, 1+, 2- of CH1 should be connected.

Appearance Installation Diagram (Units: mm)



Specification、Function unit& Parameter

Power	AC100～240V 50Hz～60Hz
Surge Protection	Power input supports differential mode 1KV, common mode 2KV protection; Power output supports common mode 2KV protection
Stand-by Power Consumption	< 5W
Power Consumption	1/8 rated power 8Ω(1KHz):120W; 1/3 rated power 8Ω(1KHz): 280W
Output Power	350W×2 @8Ω (1); 700W×2 @4Ω (1); BTL:700W×1@16Ω (2); BTL:1400W×1@8Ω (2);
Frequency Response	20Hz-20KHz
THD (Total Harmonic Distortion)	< 0.05% @1KHz 1/3 power output
SNR(Signal to Noise Ratio)	> 100dB(A Weighted）
Input Impedance	Equilibrium 20KΩ/ Nonequilibrium 10KΩ
Input Sensitivity	0.775Vrms/1.414Vrms
Maximum Input Level	3.5Vrms（13dBu）
Interface	2 Line input, 2 Line output, 2 Power output.
Operating temperature, Operating humidity	0℃-45℃，≤90％RH（non condensing）
Dimension(mm)	300.5*483*44.5

(1)@1KHz is the power measured at single channel rated load.

(2)@1KHz is the peak power measured at rated load.

Packing List

Power cord 1pcs
(3*1.0mm^2/1. 5m)
(Optional)

Foot pad 4pcs
(FF-7)

Installation
manual 1pcs

Certification
1pcs

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Reserve the amendment right without notice

V1. 1B240322