SONODYNE®

SPA 110P
professional speaker | owners manual

MAKE IN INDIA
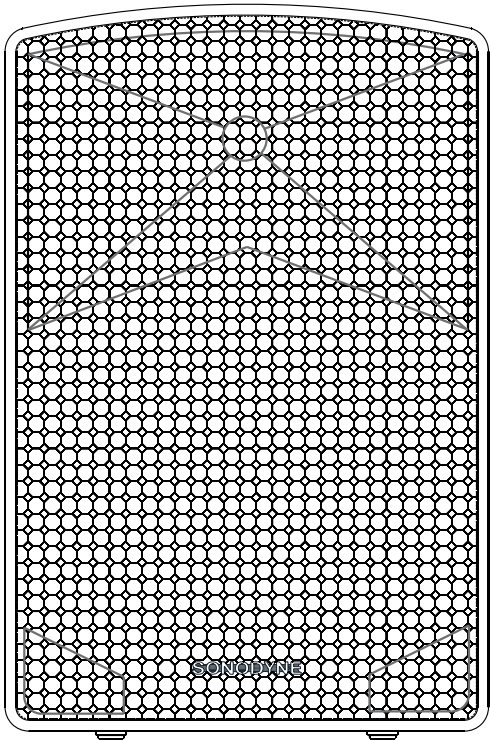
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IMPORTANT SAFETY INSTRUCTIONS

Congratulations on your purchase of the SPA 110P, 2-way active professional speaker. It can be used for live sound reinforcement, permanent installations and a variety of other applications.

The lightning flash with an arrowhead symbol is intended to warn the user that there is uninsulated (dangerous) voltage inside the unit.

The exclamation mark within an equilateral triangle symbol is intended to alert the user of presence of important operating instructions in the owner's manual accompanying the product.

IMPORTANT SAFETY INSTRUCTIONS

1. The unit should be connected only to a wall outlet providing the correct mains voltage and frequency as printed on the product.
2. Connect the unit to the mains only with the mains cable supplied with the unit.
3. Ensure that the wall outlet is properly earthed, that is, the earth must be connected to a earth bus-bar which connects to other audio equipment and is not shared by noisy equipment like computers, air-conditioners, lighting appliances etc. The earth connection must be checked and certified by a qualified electrical engineer.
4. Do not place the unit on an unstable surface that may topple and cause the unit to fall, thereby causing injury to the user or other people.
5. Do not place the unit outdoors where it may be exposed to strong sunlight, rain or moisture. Do not place it near a water body or sprinkler.
6. Do not cover the unit. This may cause it to heat up.
7. Do not place the unit near heat radiating items like stoves, radiator etc.
8. Do not allow liquid or any chemical to spill on or into the product.
9. Do not open the unit or attempt to service it yourself. There is no user-serviceable part inside. Refer servicing to qualified service personnel only.
10. Replace only with the same type and rating of fuse as printed on the product.
11. Do not overload wall outlets that provide power to this unit.
12. Install the unit by following instructions provided by the manufacturer.

UNPACKING • MOUNTING • OPERATION

UNPACKING

To unpack the unit, open the carton by cutting along the edge of the flaps. Push the flaps wide open. Fold any one flap and tilt the carton on this edge taking care that the flap stays open. Gently turn the carton upside down so that all the 4 flaps stay open and spread out, and the unit comes to rest on the Styrofoam buffer. You may need someone to help you with this. Next lift the carton from the unit. Remove the styrofoam buffer on the bottom of the unit, facing you.

Carefully lift the unit from the styrofoam buffer on which it is resting, strip it of its protective cover and place it in its intended location.
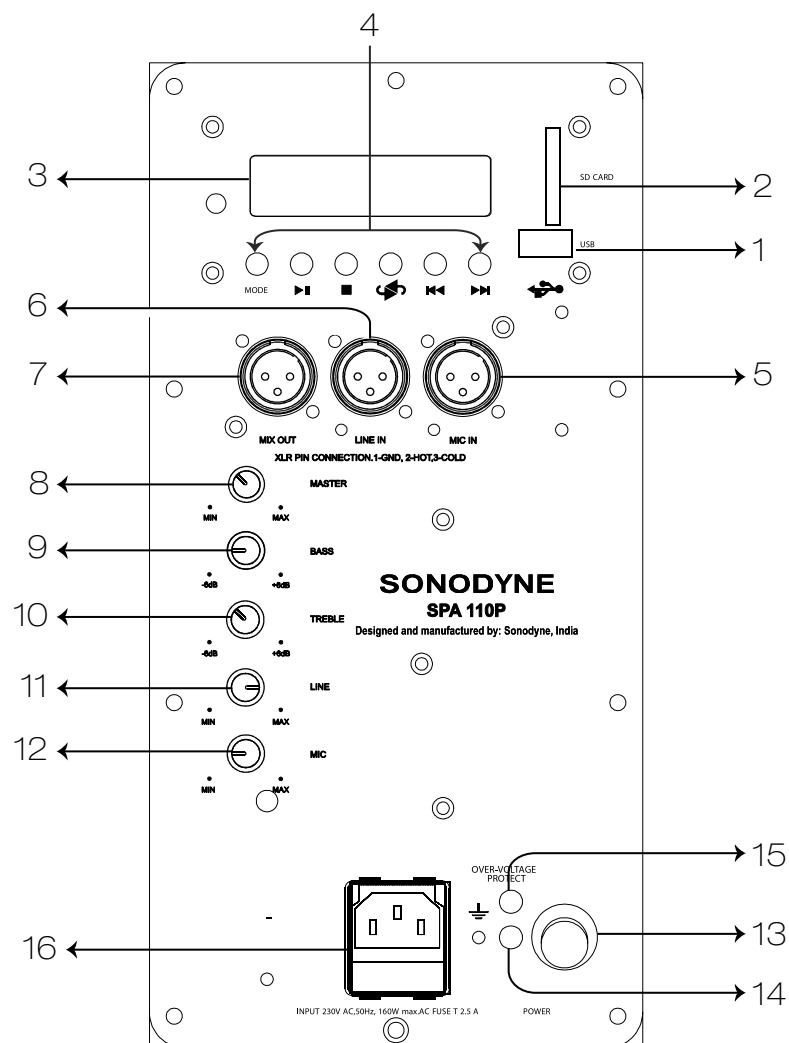
MOUNTING

The speakers may be mounted on stands. The SPA 110P is equipped with pole- mount sockets, for fixing to a pole. It can be found at the bottom of the unit, and is capable of accommodating a pole of diameter 35 mm. The pole mount socket has a depth of 90 mm. The speakers may also be used as stage monitor/wedges.

OPERATION

Connect the balanced output of your mixer or other source equipment to the balanced input (XLR female connectors) of your speaker. Pin connections are pin1-earth or ground, pin2 – hot or positive, and pin3- cold or negative. If the output of your source equipment is unbalanced, (which however is not recommended because of noise pick-up problems), short pin 3 and pin1.

Check that the utility outlet for powering your unit is of matching voltage and frequency printed on the back panel. Also ensure that it is capable of providing the required power, as printed on the back panel. Connect the mains cable supplied with the unit, to the utility wall outlet after you have connected all other equipment. Switch on the console or source equipment first. Switch on power to the monitor last. That way, you will not hear any nasty turn-on thumps generated by other equipment downstream which may be damaging to your ears and your speaker. The power indicator at the back of the unit will light up. This indicates that your unit has powered up and is ready for use.

Keep bass/treble controls in mid-position, initially. Play some recorded source material. Depending on the placement of your speaker and your personal preference for the type of mix you want, you may want to adjust the bass/treble controls. While setting the mic/line controls, it is best to keep the master level control within the 12 o'clock to 3 o'clock range. Doing so will result in clear output. Make sure that the output level of the source equipment is not set too high or distorted output will occur. Use the mode button to switch between USB/SD, Bluetooth and FM Radio.

4

3 ←

SD CARD

2 →

USB

1 →

MODE ▶❙❙ ■ ⟳ ❙◀◀ ▶▶❙

6 ←

7 ←

5 →

MIX OUT   LINE IN   MIC IN
XLR PIN CONNECTION.1-GND, 2-HOT,3-COLD

8 ←

MASTER

MIN   MAX

9 ←

BASS

-6dB   +6dB

SONODYNE

10 ←

TREBLE

SPA 110P
Designed and manufactured by: Sonodyne, India

-6dB   +6dB

11 ←

LINE

MIN   MAX

12 ←

MIC

MIN   MAX

OVER-VOLTAGE
PROTECT

15 →

13 →

16 ←

INPUT 230V AC,50Hz, 160W max.AC FUSE T 2.5 A   POWER

14 →

1. **USB INPUT**
   This is a USB input for playing audio tracks recorded on external USB devices. Plugging in a USB device automatically switches the input mode to USB/SD input. Both Mp3 and WAV file formats are supported.

2. **SD CARD INPUT**
   This is a SD card input for connecting external SD cards. Plugging in a SD card automatically switches the input mode to USB/SD input.

3. **MP3 PLAYER - DISPLAY**
   This is a dot-matrix type LED display for the MP3 player. It displays the input selected, the volume level and the functions of the MP3 player.

4. **MP3 PLAYER - CONTROLS** (From left to right)
   MODE: This is a mode selection button that allows you to switch the input between USB/SD, Bluetooth and FM radio inputs.
   PLAY/PAUSE: This button allows you to play/pause a track. It doubles as a "scan" button while using the FM radio mode, which scans for available radio stations.
   STOP: This button allows you to stop playback while in USB/SD or Bluetooth mode.
   SELECT: This button allows you to play tracks in order or on random while in USB/SD mode.
   SKIP PREVIOUS: This button allows you to play the previous track/radio station.
   SKIP NEXT: This button allows you to play the next track/radio station.

5. **MIC IN**
   This is a balanced XLR microphone input. Pin connections are 1 ground, 2 hot or positive, and 3 cold or negative.

6. **LINE IN**
   This is a balanced XLR microphone input. Pin connections are 1 ground, 2 hot or positive, and 3 cold or negative.

7. **MIX OUT**
   This is a balanced, combined output of the line and mic along with USB/SD and Bluetooth. This output can be connected to the LINE IN on another SPA Powered speaker to expand the system. Pin connections are 1 ground, 2 hot or positive, and 3 cold or negative.

8. **MASTER LEVEL**
   This control allows you to change the master level. At the extreme anti-clockwise position, the output is totally muted.

CONTROLS & SWITCHES

9. **BASS**
    This is a bass control for mic and line input. The bass control allows you to boost or cut the low frequencies. The control allows a maximum variation of +6dB and -6dB at the two extremes. If you do not wish to use this control, keep it at its center position.

10. **TREBLE**
    This is a treble control for mic and line input. The treble control allows you to boost or cut the high frequencies. The control allows a maximum variation of +6dB and -6dB at the two extremes. If you do not wish to use this control, keep it at its center position.

11. **LINE LEVEL**
    This control allows you to change the level of the line input. At the extreme anti-clockwise position, the LINE input is totally muted.

12. **MIC LEVEL**
    This control allows you to change the level of the mic input. At the extreme anti-clockwise position, the mic input is totally muted.

13. **POWER SWITCH**
    This is a rocker type power switch which turns on power to the system. The ON position is indicated with a mark on the switch.

14. **POWER INDICATOR LED**
    This is a power indicator. It turns on when power is switched on.

15. **OVER VOLTAGE PROTECT LED**
    There is a built-in protection feature which automatically shuts off the system when the mains voltage crosses an upper limit. In such case, this LED will glow. After the voltage is normal set will automatically resume operation.

16. **IEC AC SOCKET**
    This is a fused 3-pin IEC AC receptacle for connecting to a wall outlet with the cable supplied. Ensure that the wall outlet is properly earthed, that is, the earth must be connected to a earth bus-bar which connects to other audio equipment and is not shared by noisy equipment like computers, air-conditioners, lighting appliances etc. The earth connection is also required in the interests of your own safety, should any fault occur. Please check that the wall outlet is capable of providing the current requirement of the product, printed on the back panel near the IEC AC socket.

SPECIFICATIONS

DESCRIPTION	2 way active speaker with 10" LF and horn loaded compression driver
ENCLOSURE	Injection moulded professional grade plastic
TRANSDUCER COMPLEMENTS: HF	1" compression driver with 1.1" VC
TRANSDUCER COMPLEMENTS: LF	10" woofer with 2" VC
AMPLIFIER POWER	150W (LF 100W, HF 50W)
AMPLIFIER POWER PROGRAM	300W
MAX SPL	118dB
FREQUENCY RESPONSE (-3dB)	60Hz ~ 18kHz
FREQUENCY RANGE (-10dB)	55Hz ~ 20kHz
DIRECTIVITY (HF H X V)	90° x 50° (HF H x V)
CROSSOVER FREQUENCY	2kHz
INPUTS	Balanced mic: 1 / Balanced line: 1 / Balanced Mix Out: 1
CONTROLS	Level controls: Line, Mic, Master; Bass, Treble
BT VERSION	Version 4.2
DIMENSIONS (HXWXD) MM	510 x 330 x 220
USB SD CARD	Support WMA, WAV, MP3 files; Controls: Play / Pause, Stop, Repeat, Next , Previous
NET WEIGHT	12kg
MOUNTING OPTIONS	Pole mount, floor monitor

NOTE: Due to continuous improvements, all specifications are subject to change