SR-C8LWP

LINE ARRAY SPEAKER



The SR-C8LWP is a 2-way line array speaker featuring wave front control technology which creates a sound field with high sound clarity and uniform sound pressure. Recommended digital speaker processor is the DP-SP3. It can be converted into the bi-amplifier drive system by changing the internal connection.

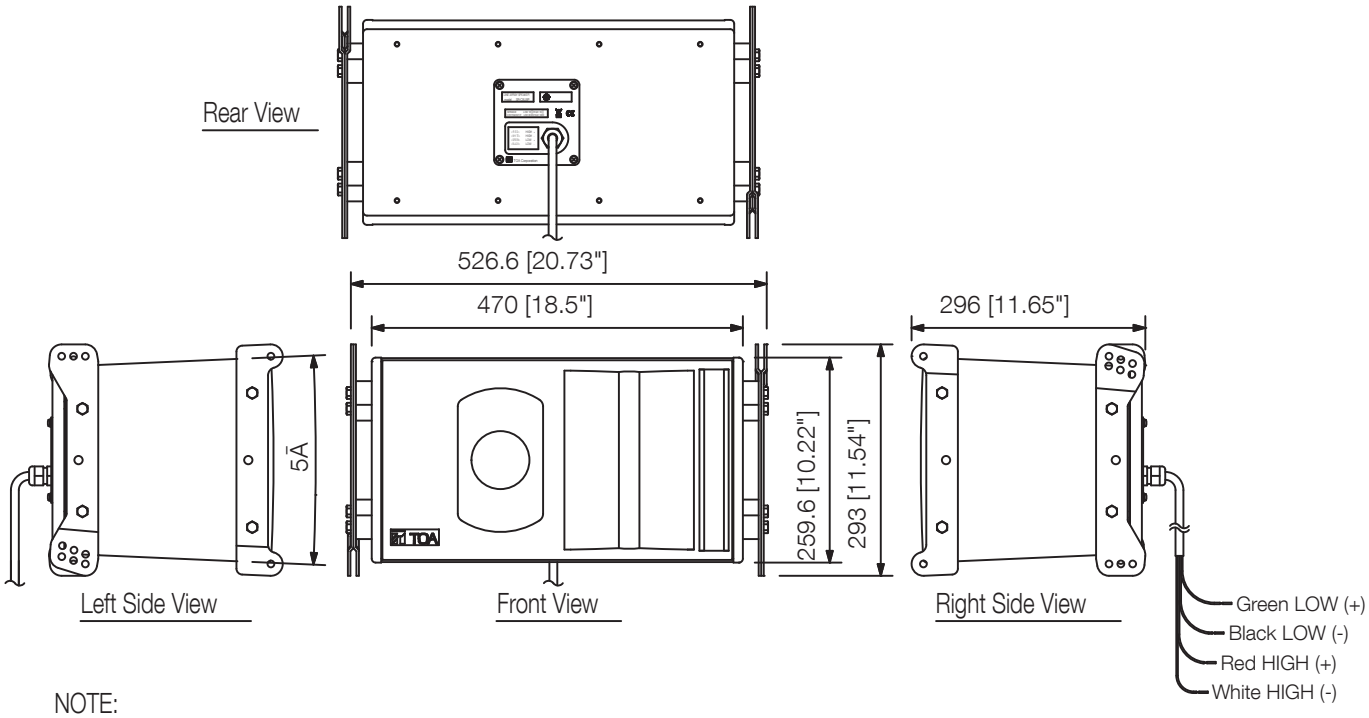
Key features

- Sync-Drive wave guide technology
- Uniform, high frequency sound field with excellent sound clarity and minimal interference
- Phase wave-front control technology for a high-frequency sound range that is attenuation free and high fidelity
- Adjustable sound coverage by connecting a number of speakers and combining speakers with different dispersion angles
- Feedback resistant - reflection-free operation
- Single or bi-amp mode
- Drivers can be quickly replaced from the rear of the speaker enclosure

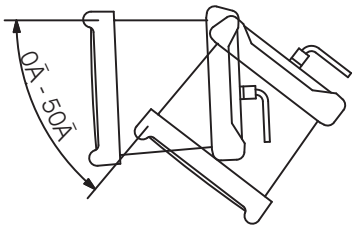
Specifications

Enclosure	Bass-reflex type
Power Handling	Continuous program: 360 W (single-amp mode) Low: 360 W, High: 180 W (bi-amp mode)
Rated Impedance	16 Ω (single-amp mode) Low: 16 Ω, High: 16 Ω (bi-amp mode)
Sensitivity	98 dB (1 W, 1 m) (single-amp mode) Low: 95 dB (1 W, 1 m), High: 110 dB (1 W, 1 m) (bi-amp mode)
Frequency Response	65 Hz - 20 kHz (when recommended parameters are applied by the optional DP-SP3)
Crossover Frequency	1.6 kHz (when recommended parameters are applied by the optional DP-SP3)
Directivity Angle	Horizontal: 110°, Vertical: 5°
Speaker Component	Low frequency: 20 cm (8) cone-type High frequency: Wave front control horn 110° (horizontal) x 5° (vertical) + compression driver x 2
Connected Cable	Direct cable withdrawal from internal speaker: #8.6 mm (#0.34)
Water Protection	IPX4
Finish	Enclosure: Plywood, black, urethane coating Front grille: Punched stainless steel, black, paint
Dimensions	526.6 (W) x 293 (H) x 296 (D) mm (20.73 x 11.54" x 11.65")
Weight	17 kg (37.48 lb)
Included Accessories	M8 connection bolt …4
Optional Accessories	Rigging frame: SR-RF8WP

Dimensions



NOTE:
1. It features the water-protection construction (IPX4), however it is recommended that it be installed under roofs, eaves, or other locations not directly exposed to rain or snow.
2. Do not install the SR-C8LWP at places where it is likely to be corroded such as bath room, indoor pools, or seaside.
3. Install the speaker with its air hole down. The air hole are provided at the bottom surface.
4. For outdoor permanent installation, the installation angle of the speaker as shown at the right must be between 0° horizontal and 50° downward.
5. When permanently installing the speaker outdoors, inspect it periodically.



Mounting example

UNIT:mm SCALE:1/10

A&E specifications

The speaker shall be a two-way component module designed for use in a modular line array system. The low-frequency section shall consist of one 8" (20cm) Neodymium woofer. The high frequency section shall consist of two compression drivers, each having a 1" (25 mm) Neodymium driver. The high frequency waveguide shall consist of two throat sections feeding a single shared mouth, with each throat section incorporating 8 paths of equal length from the driver throat to the waveguide mouth to obtain effectively isophasic output for maximum efficiency of operation in a line array system. The speaker shall include an integral input connection cable, 8.6 mm (0.34") outside diameter, 4-conductor, 3 m (9.84") long.
The speaker shall meet the following performance criteria. Power handling in biamp mode: Low Frequency input: 360 W continuous program; High Frequency input: 180 W continuous program. Power handling in single-amp mode: 360 W continuous program. Frequency response (10 dB below rated pressure sensitivity, with recommended crossover and equalization): 65 Hz to 20 kHz. Sensitivity (1 W at 1 m) in bi-amp mode: Low Frequency: 95 dB; High Frequency: 110 dB. Sensitivity (1 W at 1 m) in single-amp mode: 98 dB. Rated impedance in bi-amp mode: Low Frequency: 16 ohms nominal; High Frequency: 16 ohms nominal. Rated impedance in single-amp mode: 16 ohms nominal.
The speaker's horizontal and vertical coverage shall be tailored for use in a line array consisting of multiple units from the same series arranged one above the other so that each pass-band section forms a vertical line. The horizontal coverage shall be 110 degrees nominal. The vertical coverage shall be 5 degrees nominal. Extending the vertical coverage area shall be possible by stacking multiple units from the same series. The consistency of coverage shall not be degraded when multiple units are stacked. The combined vertical coverage of multiple units, when stacked, shall be adjustable from that of a straight line array (coverage area defined by the height of the array) to a curved array, with the combined coverage angle adjustable in 1 degree increments.
The speaker enclosure shall be made of plywood and finished with black urethane coating. The speaker shall comply with the IEC IPX4 standard for dust and water resistance and operate within a temperature range from -10°C to +50°C (14°F to 122°F). The speaker grille shall be made from a single punched stainless steel plate and finished with black paint. The dimensions (W x H x D) shall be 526.6 x 293 x 296 mm (20.73" x 11.54" x 11.65") and weight shall be 17 kg (37.48 lbs.). The speaker enclosure shall be equipped with M8 threaded steel plates for the secure attachment of optional accessory brackets.
The loudspeaker shall be TOA model SR-C8LWP.
The rigging frame shall be TOA model SR-RF8WP.