TOA

Line Array Speaker Systems

Type A / C

Smiles for the Public

Superior sound reinforcement
and uniform sound dispersion

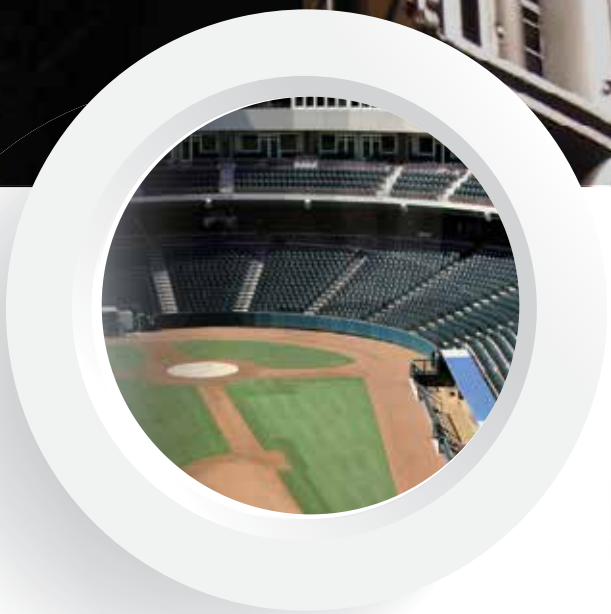
Sound reinforcement applic
outstandi

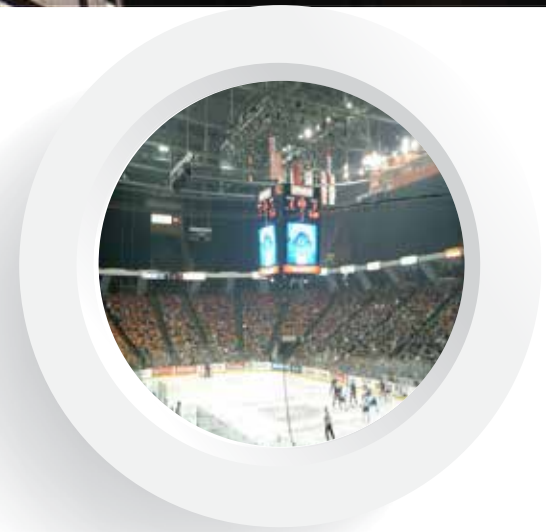
Among TOA's wide range of sound reinforcement products, Line Array Speaker Systems play an important role in providing high quality audio for medium sized venues that can range from gymnasiums, houses of worship to various sports facilities and other problematic environments.

The TOA Line Array Speaker Systems are designed to perform optimally with ideal sound dispersion characteristics in spaces that pose difficulties for more conventional speaker systems. It is available in different configurations and with a wide range of mounting possibilities that will suit particular requirements precisely.

TOA Type C speakers are modular 2-way line array speaker systems featuring a 20cm low-frequency Neodymium woofer and two 2.5cm Neodymium drivers. They are designed to take advantage of original TOA phase wave front control technology, enables creation of a sound field combining both clear audio reproduction and uniform sound dispersion.

The Type C speakers consist of six models and combining different models enables creation of an optimal sound delivery system to specified areas. These Type C speakers are designed to provide superior audio even in such often inhospitable applications as arenas, stadiums, theaters and airports.





Greater Sound Output with Wider Frequency Response

Featuring the line arrayed wave front control technology that creates sound fields with uniform sound pressure and high quality sound clarity, the SR-A12L is a two-way line array speaker ideal for long distance sound transmission.

The SR-A12L employs the multi-amplifier drive system and is designed to be used in conjunction with the optional DP-SP3 Digital Processor.

Wide Frequency Range

- Offering greater output levels with wider frequency response, the SR-A12 modular speaker units are compact but powerful 2-way configurations.

Drive Complement

- Each speaker features a 12” woofer and a high frequency horn that is connected to 2 high performance compression drivers. TOA’s horn features a proprietary phase wave front control throat that realizes the best performance from the compression drivers. Each speaker is loaded with two high-performance compression drivers to achieve greater output.

Sound Coverage Options

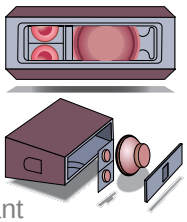
- The Type A Series includes one speaker configuration with a 5-degree taper specifically designed to transmit sound over distance as well as a 15-degree taper configuration which provides greater short range coverage. Both configurations may be combined as required to achieve uniform sound coverage in various environments.

Ideal for Permanent Installations

- Type A Series are capable of high-quality sound with ideal coverage and dispersion characteristics in environments that used to pose severe difficulties for permanent installations, especially when high fidelity sound is desired.

Easy Maintenance and Servicing

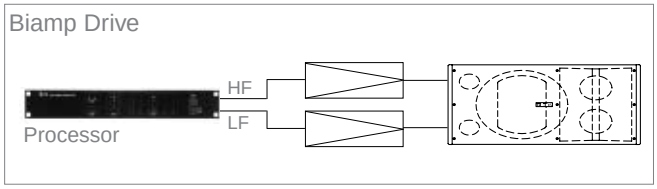
- Keeping operational requirements in mind, TOA has made it possible to quickly replace the low frequency driver as well as the high frequency driver from the rear of the enclosure. In a permanent installation, ease of service and maintenance are important points to consider.



SR-A12L / SR-A12LWP

SR-A12S / SR-A12SWP

Connection Diagram



Subwoofer SR-A18B

Enclosure	Bass-reflex type
Power Handling Capacity	Continuous program: 720W
Rated Impedance	8Ω
Sensitivity	95dB (1W, 1m)
Frequency Response	40-400Hz (when using the optional DP-SP3 Digital Processor)
Crossover Frequency	80Hz (when using the optional DP-SP3 Digital Processor)
Speaker Component	46cm cone-type
Input Connector	M5 screw terminal, distance between barriers: 12.2mm Neutrik NL4MP x 2
Finish Enclosure:	Plywood black, paint
Front Grille:	Punched steel plate, black, acrylic paint
Dimensions	740 (W) x 573 (H) x 698 (D) mm
Weight	66 kg (including accessories)
Accessories	Joint plate x 2, Joint plate mounting bolt (M10) x 16

Specifications

Type A	SR-A12L	SR-A12LWP	SR-A12S	SR-A12SWP
Enclosure	Bass-reflex type			
Power Handling Capacity	Continuous program: Low Frequency; 450W, High Frequency; 180W			
Rated Impedance	Low Frequency; 8Ω, High Frequency; 16Ω			
Sensitivity	Low Frequency: 98dB (1W, 1m) High Frequency: 110dB (1W, 1m)		Low Frequency: 98dB (1W, 1m) High Frequency: 109dB (1W, 1m)	
Frequency Response	50-20,000Hz (when using the optional DP-SP3 Digital Processor)			
Crossover Frequency	1,000Hz (when using the optional DP-SP3 Digital Processor)			
Directivity Angle	Horizontal: 90° Vertical: 5°		Horizontal: 90° Vertical: 15°	
Speaker Component	Low Frequency: 30cm cone-type High Frequency: Wave front control horn 90° (horizontal) x 5° (vertical) + compression driver x 2		Low Frequency: 30cm cone-type High Frequency: Wave front control horn 90° (horizontal) x 15° (vertical) + compression driver x 2	
Input Connector	M5 screw terminal, distance between barriers: 12.2mm and Neutrik NL4MP x 2	--	M5 screw terminal, distance between barriers: 12.2mm and Neutrik NL4MP x 2	--
Connected Cable	--	Direct cable withdrawal from internal speaker: ø 8.6mm, conductor cross section: 1.25mm², 4-core cable, 3m	--	Direct cable withdrawal from internal speaker: ø 8.6mm, conductor cross section: 1.25mm², 4-core cable, 3m
Water Protection	--	IPX4	--	IPX4
Finish Enclosure:	Plywood, black, paint	Plywood, black, urethane coating	Plywood, black, paint	Plywood, black, urethane coating
Front Grille:	Punched steel plate, black, acrylic paint	Punched stainless steel (SUS304), black, paint	Punched steel plate, black, acrylic paint	Punched stainless steel (SUS304), black, paint
Dimensions	740 (W) x 433 (H) x 469 (D) mm		740 (W) x 433 (H) x 467 (D) mm	
Weight	49kg (including accessories)	51kg (including accessories)	47kg (including accessories)	48kg (including accessories)
Accessory	Joint plate x 2, Joint plate mounting bolt (M10) x 16			
Options	Rigging frame: SR-RF12, Digital Processor: DP-SP3	Rigging frame: SR-RF12WP, Digital Processor: DP-SP3	Rigging frame: SR-RF12, Digital Processor: DP-SP3	Rigging frame: SR-RF12WP, Digital Processor: DP-SP3

Optional Accessories

SR-RF12
Rigging Frame
for indoor use

SR-RF12WP
Rigging Frame
for outdoor use

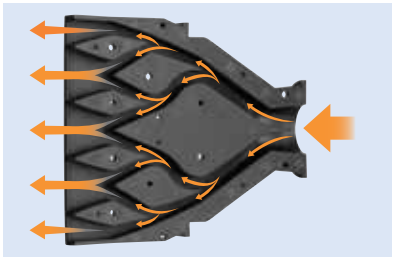
SR-TP12
Tilt Joint Bracket

High Fidelity Sound

The TOA Type C speakers consists of six models: one with a 15° vertical sound dispersion angle, making it ideal for shorter distance applications, another with a 5° vertical dispersion angle, which is intended for longer range sound dispersion applications, and a 38-cm (15”) sufwoofer model. Each of these three models is also available in a splash-proof (IPX4) variation.

Superior Sound Quality

- “Sync-Drive” - Type C feature TOA proprietary “Sync-Drive” wave guide technology, to provide a uniform, high frequency sound field offering excellent sound clarity and minimal interference.



- High-fidelity sound - Thanks to the well thought-out design of the speaker’s phase wave-front control technology, high fidelity sound is produced without causing attenuation of high-frequency sound.

Effective Sound Reinforcement

- Focus on the targeted listening area - Maximally precise sound directivity is designed into the speakers, particularly for vertical dispersion, thereby focusing the audio on the intended reception area more accurately.
- Adjustable sound coverage - With Type C speaker systems, most operating applications can be covered so as to best meet user needs by connecting a number of speakers, and by combining speakers with different dispersion angle.
- Clear sound - Type C speakers are resistant to feedback and enjoy reflection-free operation.

Ease of Maintenance

- Both the low frequency driver and high frequency driver can be quickly replaced from the rear of the speaker enclosure for ease of service and maintenance.

Application Versatility

- Single or bi-amp mode - By changing the position of an internal connector, Type C series speakers can be used in single or bi-amp mode.
- Splash-proof speaker models - SR-C8LWP/SR-C8SWP/SR-C15BWP are available to widen the range of potential applications.

- Optional brackets - More flexible installation options are made possible thanks to a selection of available mounting brackets.

SR-C8L / SR-C8S

SR-S8LWP / SR-C8SWP (IPX4 rated)

Specifications

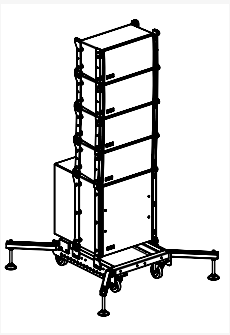
Type C	SR-C8L	SR-C8S	SR-C8LWP	SR-C8SWP
Enclosure	Bass-reflex type			
Power Handling Capacity	Continuous program: 360W (single-amp mode) Low Frequency: 360W, High Frequency: 180W (bi-amp mode)			
Rated Impedance	16Ω (single-amp mode) Low Frequency: 16Ω, High Frequency: 16Ω (bi-amp mode)			
Sensitivity	92dB (1W, 1m) (single-amp mode) Low: 95dB (1W, 1m), High: 110dB (1W, 1m) (bi-amp mode)			
Frequency Response	65 - 20,000Hz (when equalized at recommended parameters)			
Crossover Frequency	1,600Hz (when equalized at recommended parameters)			
Directivity Angle	Horizontal: 110° Vertical: 5°	Horizontal: 110° Vertical: 15°	Horizontal: 110° Vertical: 5°	Horizontal: 110° Vertical: 15°
Speaker Component	Low Frequency: 20cm (8") cone type High Frequency: Wave-front control horn 110° (Horizontal) x 5° (vertical) + compression drivers x 2	Low Frequency: 20cm (8") cone type High Frequency: Wave-front control horn 110° (Horizontal) x 15° (vertical) + compression drivers x 2	Low Frequency: 20cm (8") cone type High Frequency: Wave-front control horn 110° (Horizontal) x 5° (vertical) + compression drivers x 2	Low Frequency: 20cm (8") cone type High Frequency: Wave-front control horn 110° (Horizontal) x 15° (vertical) + compression drivers x 2
Input Connector	M5 screw terminal, distance between barriers: 12.2mm (0.48") and Neutrik NL4MP x 2		--	
Connected Cable	--		Direct cable withdrawal from internal speaker: ø 8.6mm (ø 0.34") conductor cross section: 1.25mm² (0.05"), 4-core cable, 3m (9.84ft)	
Dust / Water Protection	--		IPX4	
Finish Enclosure: Front Grille:	Plywood, black, urethane paint Punched steel plate, black, paint		Plywood, black, urethane coating Punched stainless steel plate, black, paint	
Dimensions	526.6 (W) x 293 (H) x 296 (D) mm (20.73" x 11.54" x 11.65")	526.6 (W) x 293 (H) x 294 (D) mm (20.73" x 11.54" x 11.57")	526.6 (W) x 293 (H) x 296 (D) mm (20.73" x 11.54" x 11.65")	526.6 (W) x 293 (H) x 294 (D) mm (20.73" x 11.54" x 11.57")
Weight	17kg (37.48lb)	16kg (35.27lb)	17kg (37.48lb)	16kg (35.27lb)
Accessory	M8 connection bolt x 4			
Options	Cluster bracket: SR-CL8, Rigging frame: SR-RF8, Tilt joint bracket: SR-TP8, Digital Processor: DP-SP3		Rigging frame: SR-RF8WP, Digital Processor: DP-SP3	

Type C	SR-C15B	SR-C15BWP
Enclosure	Bass-reflex type	
Power Handling Capacity	Continuous program: 450W	
Rated Impedance	8Ω	
Sensitivity	93dB (1W, 1m)	
Frequency Response	40 - 400Hz (when equalized at recommended parameters)	
Crossover Frequency	125Hz (when equalized at recommended parameters)	
Speaker Component	38cm (15") cone type	
Input Connector	M5 screw terminal, distance between barriers: 12.2mm (0.48") and Neutrik NL4MP x 2	--
Connected Cable	--	Direct cable withdrawal from internal speaker: ø 8.6mm (ø 0.34") conductor cross section: 1.25mm² (0.05"), 4-core cable, 3m (9.84ft)
Operating Temperature	--	-10°C to +50°C (14°F to 122°F)
Dust / Water Protection	--	IPX4
Finish Enclosure:	Plywood, black, urethane paint Punched steel plate, black, paint	Plywood, black, urethane coating Punched stainless steel plate, black, paint
Dimensions Front Grille:	526.6 (W) x 594.8 (H) x 550 (D) mm (20.73" x 23.42" x 21.65")	
Weight	41kg (90.39lb)	
Accessory	M8 connection bolt x 4	
Options	Rigging frame: SR-RF8, Digital Processor: DP-SP3	Rigging frame: SR-RF8WP, Digital Processor: DP-SP3

Optional Accessories

SR-CL8
Cluster Bracket

SR-RF8 / SR-RF8WP
Rigging Frame



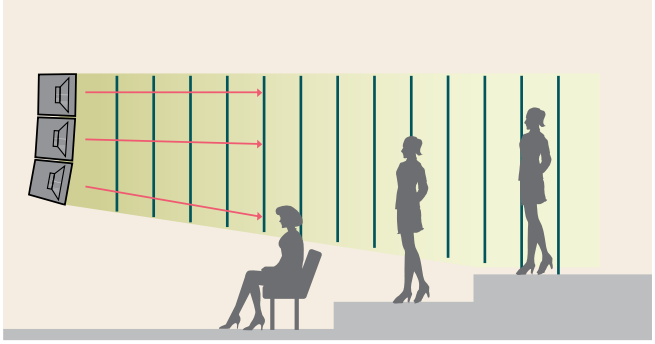
SR-SB8
Rigging Support Bracket

SR-TP8
Tilt Joint Bracket

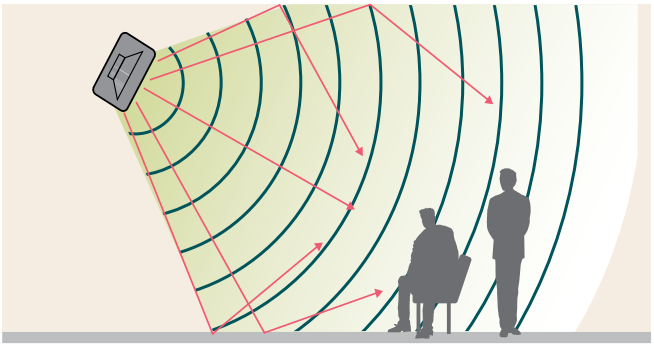
ations with high fidelity and ng clarity

For installations where greater sound output with a wider frequency response are required, the modular SR-A12L, the SR-A12S and a companion SR-A18B (Type A) low frequency module can be utilized. A wide range of mounting brackets enables flexible speaker mounting options for the best sound coverage characteristics.

Line Array Speaker



Standard Speaker



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TOA Electronics Pte Ltd
www.toa.com.sg

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