



FLOOR MONITOR SPEAKER SYSTEMS

SR-M1
SR-M2



The AC-M1 electronic control unit (optional) is required when using the SR-M1 or SR-M2 speaker system.

GENERAL DESCRIPTION

The TOA SR-M1/SR-M2 are floor monitor speaker systems featuring high power handling capability and quality sound output. Driven by the bi-amplification method, both speaker systems need a dual-channel electronic control unit AC-M1 (optional) which features a channel dividing function.

The SR-M1 contains one woofer, and the SR-M2 two woofers. The woofer employs a 20 cm (7.9") magnet that gives a flux density of 16,200 gauss, assuring highly-efficient, quick-response reproduction of low frequencies.

The SR-M1 and SR-M2 speakers employ the HFD-652 high-power driver unit with a titanium diaphragm, and the constant directivity horn (40° horizontal by 40° vertical), the combination of which provides uniform distribution of pleasant sound.

Apiton plywood enclosure (18 mm, 0.7" in thickness) finished with rugged epoxy coating ensures high durability and excellent acoustic characteristics. Also, Neutrik's INL4MPR input connectors located on both sides of the speaker facilitate a cascade speaker connection.

FEATURES

1. High power handling capability and heavy-duty construction.
2. Bi-amplification system.
3. Highly efficient 30cm (12") woofer employing a 200mm (7.9") diameter magnet.
4. Large, high-power driver with a titanium diaphragm for high-range coverage. A constant directivity horn (40° horizontal by 40° vertical) ensures a uniform sound dispersion pattern.
5. Apiton plywood enclosure (18mm, 0.7" in thickness) with rugged epoxy coating.
6. Two Neutrik NL4MPR input connectors.

INPUT CONNECTORS

Two Neutrik NL4MPR connectors are provided on both sides of the speaker. Because they are internally parallel-connected, you can use either of the two.

Each contact of the connector is wired as shown in the following table.

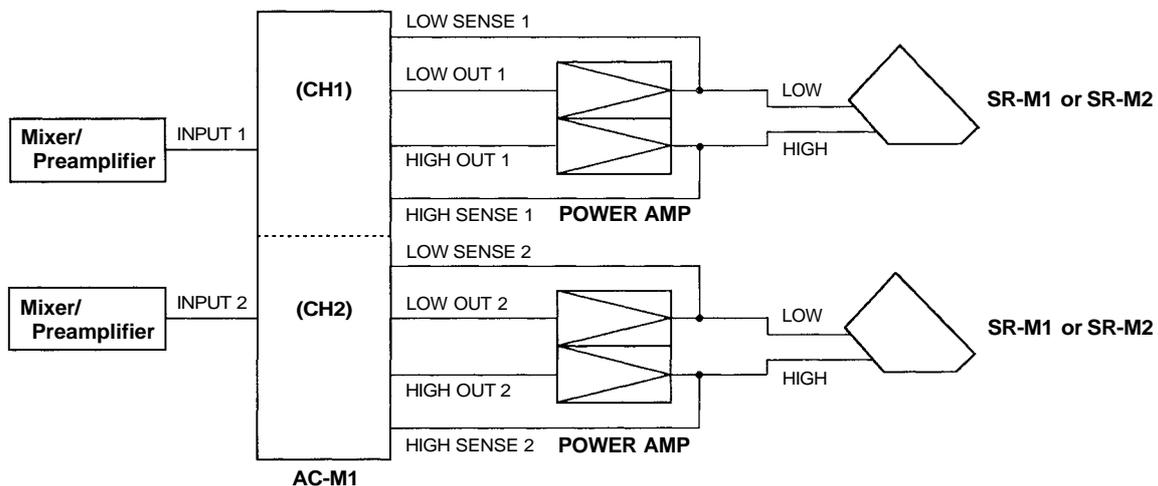
Contact number	SR-M1/SR-M2
1 +	LOW +
1 -	LOW -
2 +	HIGH +
2 -	HIGH -

Applicable cable connector: Neutrik NL4FC

The LOW input impedance is 8 ohms for both the SR-M1 and SR-M2. (In the SR-M2, two 16 ohm woofers are internally parallel-connected at the LOW input.)

CONNECTION

● Basic Connection Block Diagram

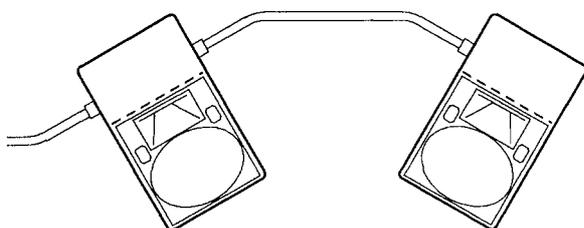


● Power amplifier types to use

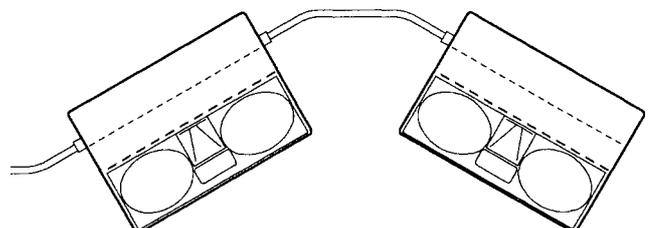
With the biampification system being employed, dual-channel power amplifiers must be used to drive the SR-M1 or SR-M2. Be sure to use a 300W (at 8 ohm load) or more powerful amplifier per channel. If smaller-power amplifiers are used, the speaker's original performance will suffer.

● Parallel connection of two speakers

Two speakers can be connected in parallel using the input connectors on both sides of each speaker, as shown below. To connect two speakers in parallel, the amplifier output power must be 450W or more (at 4 ohm load).



Parallel-connection of two SR-M1



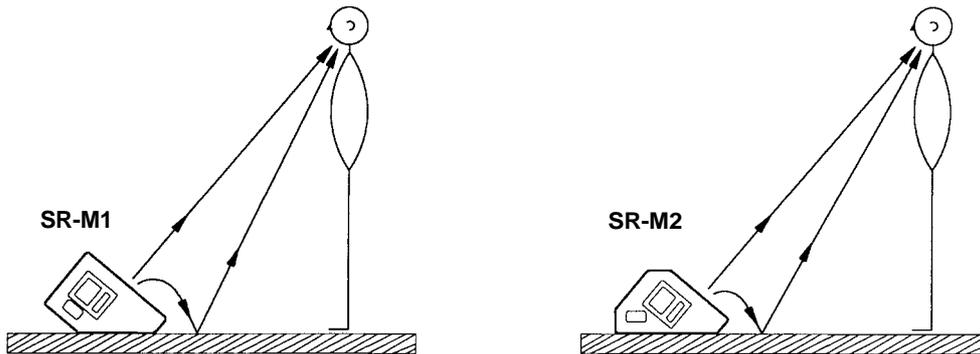
Parallel-connection of two SR-M2

● Connection precaution

Neither the SR-M1 or SR-M2 has an internal circuit to protect a high-range driver. If the LOW signal is input to the high-range driver due to wrong connection, the driver may be damaged. To avoid this, carefully check for proper connection before use.

INSTALLATION

The SR-M1 and SR-M2 are designed for installation on flat floor.



The AC-M1 electronic control unit has an internal equalizer to ensure the optimum sound output when the speaker is installed as shown above. In addition, the control unit is equipped with the FC (Floor Correction) switch to minimize the influence of reflected waves produced when the speaker is directly installed on the floor. (For more details, refer to the AC-M1 Instruction Manual.) Usually, set the FC switch to IN.

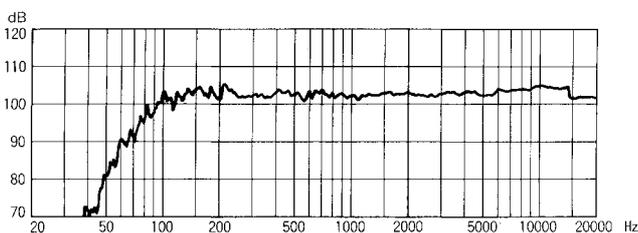
AC-M1 electronic control unit (optional)

The optional AC-M1 control unit features the following functions for the best possible sound reproduction from the SR-M1 and SR-M2 speakers:

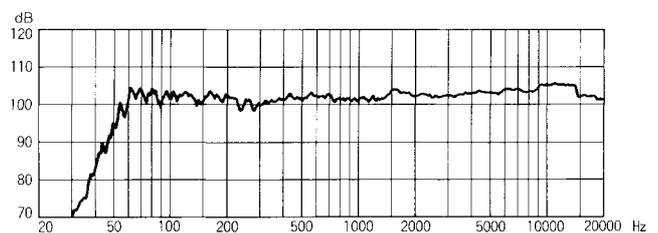
- Channel divider
- Phase matching /time alignment
- Equalizer
- Limiter
- Floor correction

CHARACTERISTIC DIAGRAMS (1/3 Octave Pink Noise)

● SR-M1 (1/4 W input/1 m, at 2 kHz of HIGH frequency)



● SR-M2 (1/4 W input/1 m, at 2 kHz of HIGH frequency)



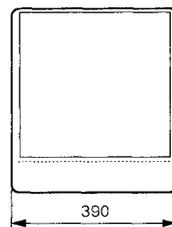
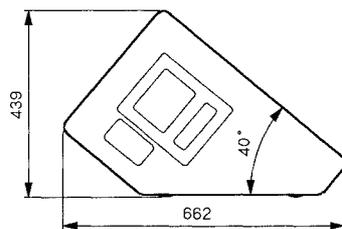
SPECIFICATIONS

Model		SR-M1	SR-M2
Enclosure		Bass reflex type	
Speaker	Low Frequency	30 cm (12") dia. cone speaker × 1	30 cm (12") dia. cone speakers × 2
	High Frequency	CD horn (40° horizontal × 40° vertical) fitted with compression driver	
Nominal Impedance		Low frequency : 8 Ω High frequency : 16 Ω	Low frequency : 8 Ω (16 Ω × 2, parallel-connection) High frequency : 16 Ω
Sensitivity		Low frequency : 99 dB (1W/1m) (*1) High frequency : 109 dB (1W/1m) (*2)	Low frequency : 102 (1W/1m) dB (*1) High frequency : 109 (1W/1m) dB (*2)
Frequency Response		70 ~ 20,000 Hz (when AC-M1 is used)	45 ~ 20,000 Hz (when AC-M1 is used)
Crossover Frequency		1 kHz (when AC-M1 is used)	
Power Handling Capacity	Low Frequency	Continuous pink noise : 120 W RMS (*3) Continuous program : 360 W RMS	Continuous pink noise : 240 W RMS (*3) Continuous program : 720 W RMS
	High Frequency	Continuous pink noise : 80 W RMS (*4) Continuous program : 240 W RMS	Continuous pink noise : 80 W RMS (*4) Continuous program : 240 W RMS
Input Connector		Neutrik NL4MPR × 2	
Enclosure Material		APITON plywood (thickness: 18 mm or 0.7")	
Weight		Approx. 32 kg (71 lb.)	Approx. 56kg (123lb.)
Dimensions (W × H × D)		390 × 439 × 662 mm (15.4" × 17.3" × 26.1")	902 × 346 × 618 mm (35.5" × 13.6" × 24.3")
Finish		Enclosure : Epoxy paint (black) Front grille : Acrylic paint (black)	
Accessories		Instruction manual × 1 Warranty card × 1	
		*1 Band Limited (200 to 1,000 Hz) Pink noise signal *2 Band Limited (1,000 to 5,000 Hz) Pink noise signal *3 Band Limited (50 to 1,000 Hz) Pink noise signal (24 hours) *4 Band Limited (1,000 to 20,000 Hz) Pink noise signal (24 hours)	

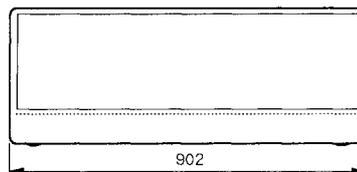
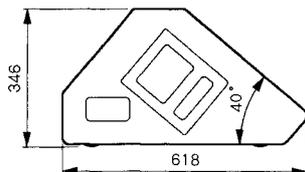
* Specifications are subject to change without notice.

APPEARANCE

SR-M1



SR-M2



TOA Corporation

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