TOA PROFESSIONAL SOUND SPEAKER SYSTEM

model SM-25M

General Description

The TOA SM-25M is a self-powered personal monitor system designed around our popular SM-25A powered monitor system. The SM-25M has a built-in 25 watt power amp, a 5-inch woofer and a 2-inch tweeter. An automatic compression circuit is provided to ensure maximum headroom and speaker component protection. The system features a mic level XLR input on the front panel, as well as a rotary volume control, a tone control, and headphone monitoring jack. Add to that a back panel with both a line level ¼" input jack and a bridging jack for chaining additional speakers, and the SM-25M becomes a portable PA/monitor system-just plug in a microphone and go. A unique bracket allows the system to be mounted to mic stands, and even to walls in permanent installations. The cast aluminum enclosure is rugged enough to withstand even the roughest handling. The SM-25M combines high performance, durability, and innovative design in portable package with a wide range of applications.
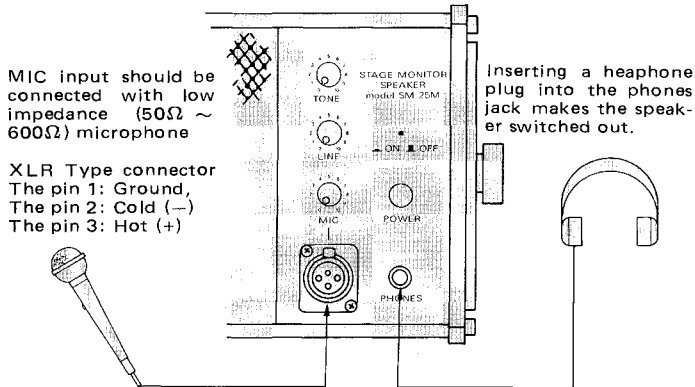
Specifications

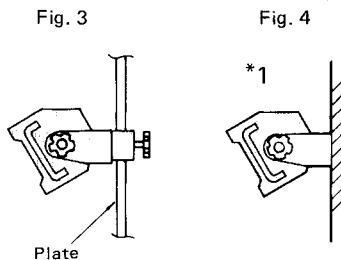|			
Enclosure	: Sealed type	Line input impedance	: 8k ohms, set at —20dB,
Speakers	: 2 way speaker of 12cm (5-inch) and		40k ohms at +4dB
	5cm (2-inch) diameter		Transformer isolated balance
Sound pressure level	: 88dB (1W/1M)	Tone control (high cut)	: —15dBat 10kHz
Frequency response	: 90Hz~20kHz	Line input terminal	: Locked ¼"jack
		Bridge terminal	: Locked ¼" jack
Amplifier			
Power requirements	: AC Mains	**Finish**	
Power consumption	: 30W (MAX. 65W)	Front panel	: Metal punched net
Rated output power	: 25W	Body	: Cast aluminum (Black)
Mic input sensitivity	: —55dB (1.38mV)		
Mic input impedance	: Open (For use with nominal 50-ohm	**Weight**	: Approx. 6.3kg (13.9 pounds)
	to 250-ohm) electronically balanced	**Dimensions**	: 325(W) x 170(H) x 140(D) mm
Mic input terminal	: XLR Type, NC3F		12.8(W) x 6.7(H) x 5.5(D) inches
Line input sensitivity	: —20dB (77.5mV) or+4dB (1.23V)		
	switchable		

● How To Connect & Installation

MIC input connection [Front Panel]

MIC input should be connected with low impedance (50Ω ~ 600Ω) microphone

XLR Type connector
The pin 1: Ground,
The pin 2: Cold (—)
The pin 3: Hot (+)

STAGE MONITOR SPEAKER model SM 25M
TONE
LINE
ON/OFF
MIC
POWER
PHONES

Inserting a heaphone plug into the phones jack makes the speaker switched out.

LINE input connection [Rear Panel]

In case of using one SM-25M

In case of using two 25M's in parallel

from Pre Amp.

from Pre Amp.

Tip: Hot (+)
Ring: Cold (—)
Sleeve: Ground

or

Tip = Hot (+)
Sleeve = Com. (—)

Fig. 1   Fig. 2

ANGLE ADJUSTER   HEIGHT ADJUSTER

Fig. 3   Fig. 4

*1

Plate
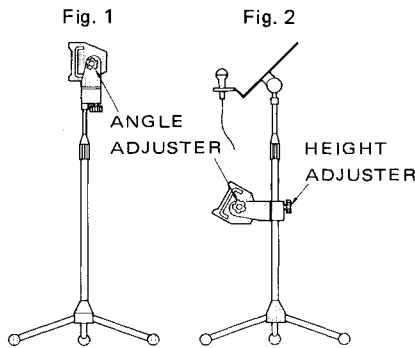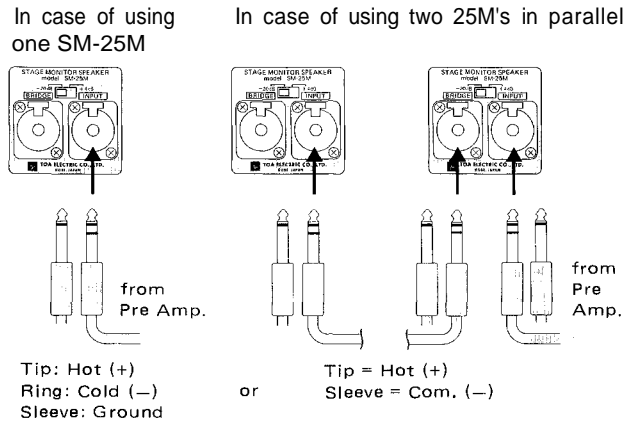
*1 When carrying out the installation of Fig. 4, first take off the bracket No.2 and install the bracket No.1 on the wall with the wooden screws.

Bracket No.1   Bracket No.2

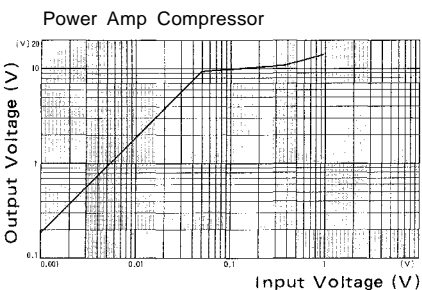Mounting holes to the wall

*2

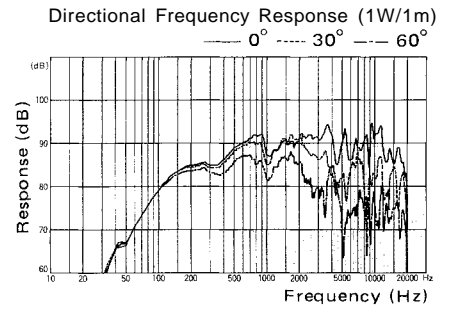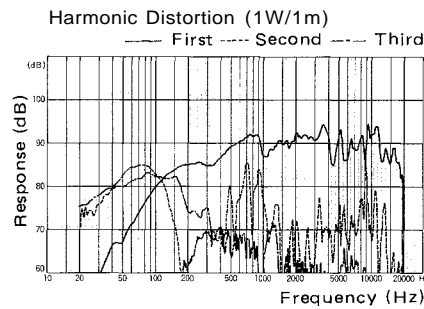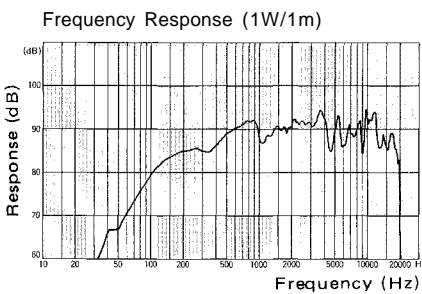Microphone stand shaft (1.10" MAX)
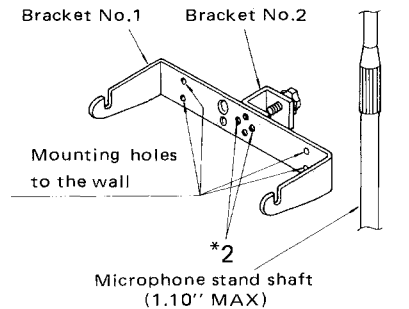
*2 Bracket No.2 will change in position by 90 degrees when these mounting holes are used.

● Characteristic Diagrams   Input signals are fed through a line input terminal.
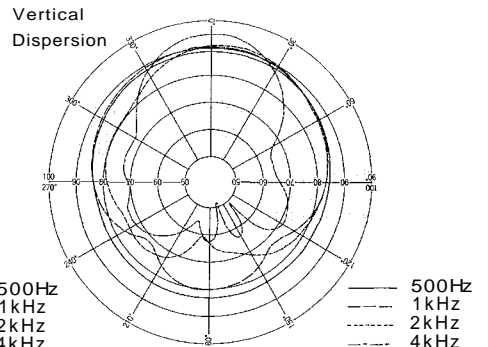
(Tone control set at "10")

Frequency Response (1W/1m)

[dB]
Response (dB)
Frequency (Hz)

Harmonic Distortion (1W/1m)
—— First ----- Second —·— Third

[dB]
Response (dB)
Frequency (Hz)

Directional Frequency Response (1W/1m)
—— 0° ----- 30° —·— 60°

[dB]
Response (dB)
Frequency (Hz)

Power Amp Compressor

[V]
Output Voltage (V)
Input Voltage (V)

Polar Response

Horizontal Dispersion

Vertical Dispersion

—— 500Hz
—·— 1kHz
------- 2kHz
—··— 4kHz

—— 500Hz
—·— 1kHz
------- 2kHz
—··— 4kHz
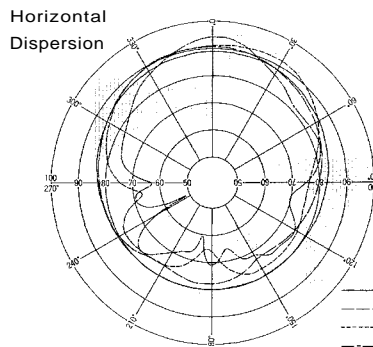
Scale is 10dB per division

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