
TOA SPEAKER SYSTEM

POWERED MONITOR SPEAKER

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

1/4" 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.



FEATURES

1. Built-in 25 watts power amplifier
2. Automatic compression circuit
3. Mic level XLR input
4. Tone control
5. Rotary volume control
6. Headphone monitoring jack
7. Unique bracket

SPECIFICATIONS

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

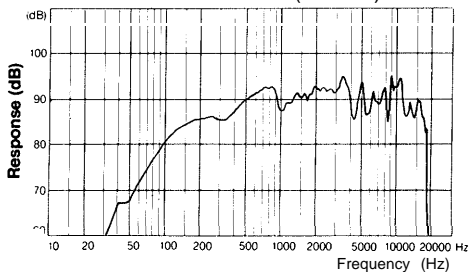
ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The speaker system shall be a "powered" personal monitor speaker system, with a built-in 25 watts power amplifier, and one each of a 2-inch (5cm) tweeter and 5-inch (12cm) woofer. An automatic compression circuit shall provide maximum headroom while insuring the reliability of the speaker components. The front panel shall provide for a mic level XLR input, rotary volume control, tone control, and headphone monitoring jack. On the back panel both a line level 1/4" input jack and a bridging jack for chaining additional speakers shall be also provided. A unique bracket shall allow the speaker system to be mounted on walls, mic stands

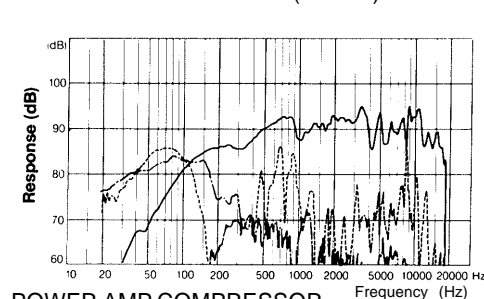
and cymbal stand shafts. The cast aluminum enclosure shall be rugged enough to withstand even the roughest handling. In addition to the various specifications stated above, the speaker system shall meet the following overall performance and specifications criteria: sound pressure level of 88dB (1W/1m); frequency response of 90Hz to 20kHz; rated output power of 25W; front grill of black metal punching net; dimensions of 6.7" (170mm) high, 12.8" (325mm) wide, 5.5" (140mm) deep; weight of 13.9 lbs(6.3kg). The speaker system shall be a TOA Model SM-25M.

CHARACTERISTIC DIAGRAMS

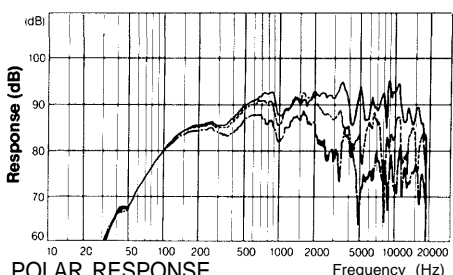
FREQUENCY RESPONSE (1W/1m)



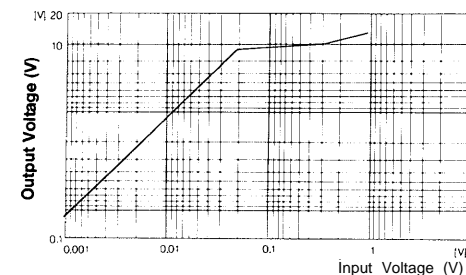
HARMONIC DISTORTION (1W/1m)



DIRECTIONAL FREQUENCY RESPONSE (1W/1m)

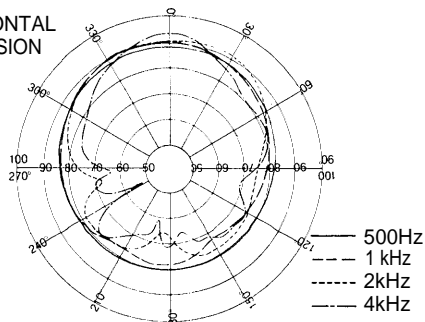


POWER AMP COMPRESSOR



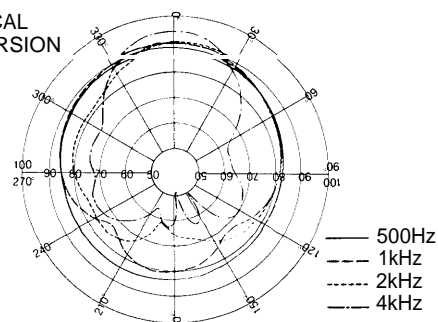
POLAR RESPONSE

HORIZONTAL DISPERSION



SCALE IS 10dB PER DIVISION.

VERTICAL DISPERSION



SCALE IS 10dB PER DIVISION.

