

PROFESSIONAL SOUND SYSTEM



Speaker System

Model 280-ME-AV



GENERAL DESCRIPTION

The TOA 280-ME-AV is a 3-way reference monitor with numerous applications in small and medium size recording studios, A/V houses, and control rooms of broadcast facilities. Due to the magnetically "shielded" components used in the 280-ME-AV, the speaker enclosure may be physically located adjacent to color televisions and video monitors with **no degradation in video quality**. (Magnetic fields emitted by unshielded systems may cause distortion and break-up of the video image, when the speaker is placed in close proximity to a video monitor.)

The 280-ME-AV is a sealed type enclosure, with a 7.9"(20cm) polypropylene woofer, a 1.2"(3cm) soft dome tweeter, and a polyester dome super tweeter, both with diffusers for excellent high frequency response. A tight, symmetrical component arrangement ensures good image localization for close-in monitoring, as well as smooth frequency response, low distortion, wide dispersion, and superb transient response.

The 280-ME-AV will handle a maximum of 90 watts of continuous program material. It features a high frequency attenuator conveniently located on the front panel, push-type input terminals and a removeable front grille. The wooden enclosure is finished in charcoal gray vinyl sheeting, and T-nuts are provided on the bottom and back plate for mounting brackets.

FEATURES

1. Three-way system.
2. Smooth frequency response, low distortion, superb transient response, and wide dispersion.
3. Magnetically "shielded" speaker components for interference free video monitoring.
4. 7.9"(20cm) polypropylene cone woofer.
5. 1.2"(3cm) soft dome tweeter and 0.79"(2cm) polyester dome super tweeter, both with diffusers for excellent high frequency response.
6. Symmetrical component arrangement enhances stereo imaging.
7. Push-type input terminals.
8. Removeable front grille.
9. Convenient high frequency attenuator
10. Compact and rugged.
11. Easily mounted to the wall or ceiling with optional mounting brackets.

Specifications

Enclosure:

Sealed type

Speakers:

Magnetically shielded type

Low Frequency, 7.9" (20cm) polypropylene cone woofer

High Frequency, 1.2" (3cm) soft dome tweeter

Super High Frequency, 0.79" (2cm) polyester dome super tweeter

Power Handling capacity:

Continuous Pink Noise: 30 Watts RMS of band-limited pink noise (50Hz-20kHz)

Continuous Program: 90 Watts

Impedance:

8 ohms

Sensitivity:

89 dB (1W/1m)

Frequency Response:

60Hz-20kHz

Crossover Frequency:

1.5kHz, 14kHz

High Frequency attenuator:

0dB to -10dB (tweeter only)

Input Terminal:

Push-type

Dimensions:

9.3"(W)X15.7"(H)X9.3"(D)

235(W) X 400(H) X 236(D) mm

Weight:

16.3 lbs. (7.4 kg)

Finish:

Charcoal gray

Attenuator



The attenuator adjusts the level of the tweeter only, while the super tweeter level is fixed. The MAX position ensures flat response.

HIGH FREQUENCY ATTENUATOR

Installation

1. The units are symmetrical. Position each unit so that the super tweeter is put inward.
2. Using optional mounting bracket this speaker system can be mounted to the wall or ceiling.

Wall Mounting Bracket: WCB-3

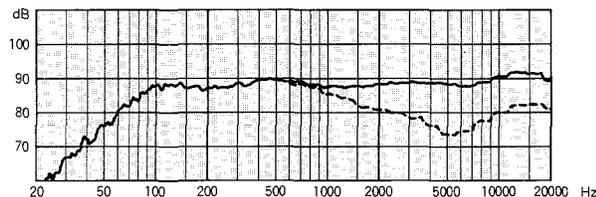
Ceiling Mounting Bracket: CMB-3

NOTE: Use two screws (M5x25mm) mounted on the 280-ME-AV to secure the bracket to the enclosure, instead of the screws attached with the bracket as they are too short.

Characteristic Diagram (1W/1m: 1/3 Octave Pink Noise)

Frequency Response

— : Level control at MAX position
 - - - : Level control at MIN position



Directional Frequency Response

— : 0° - - - : 30° — — — : 45°

