

# PROFESSIONAL SOUND SYSTEM



## Speaker System

## Model 312-ME-AV



### GENERAL DESCRIPTION

The TOA 312-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 312-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 312-ME-AV is a bass-reflex type enclosure, with a 11"(28 cm) woofer, a 4.7"(12cm) midrange cone speaker, and a 1.2"(3cm) titanium dome tweeter, with diffuser 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, monitoring, as well as smooth frequency response, low distortion, wide dispersion, and superb transient response.

The 312-ME-AV will handle a maximum of 135 watts of continuous program material. It features both a high frequency attenuator and a mid frequency attenuator, both conveniently located on the front panel, as well as push-type input terminals and a removeable front grille. The wooden enclosure is finished in charcoal gray vinyl sheeting.

### 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. 11"(28 cm) heavy duty cone woofer.
5. 4.7"(12cm) midrange cone speaker and 1.2"(3cm) titanium dome tweeter 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 mid and high frequency attenuators.
10. Compact and rugged.

## Specifications

### Enclosure:

Vented (bass reflex) type

### Speakers:

Magnetically shielded type

Low Frequency 11" (28cm) cone woofer

Mid Frequency, 4.7" (12cm) cone speaker

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

### Power Handling Capacity:

Continuous Pink Noise: 45 Watts RMS of band-limited pink noise (50Hz-20kHz)

Continuous Program: 135 Watts

### Impedance:

8 ohms

### Sensitivity:

91 dB (1W/1m)

### Frequency Response:

40Hz-20kHz

### Crossover Frequency:

500 Hz, 5 kHz

### High and Mid Frequency Attenuator:

0dB to -10 dB

### Input Terminal:

Push-type

### Dimensions:

13.2"(W)X22.8"(H)X11.6"(D)

335(W) X 580(H) X 295(D) mm

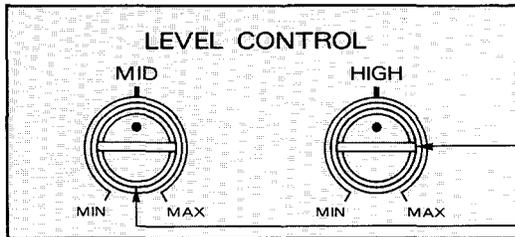
### Weight:

37.3 lbs. (16.9 kg)

### Finish:

Charcoal gray

## Attenuators



The center position of each attenuator ensures flat response.

HIGH FREQUENCY ATTENUATOR

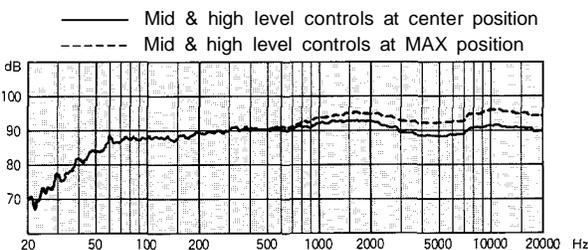
MID FREQUENCY ATTENUATOR

## Installation

The units are symmetrical. Position each unit so that the tweeter is put inward.

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

### Frequency Response



### Directional Frequency Response

