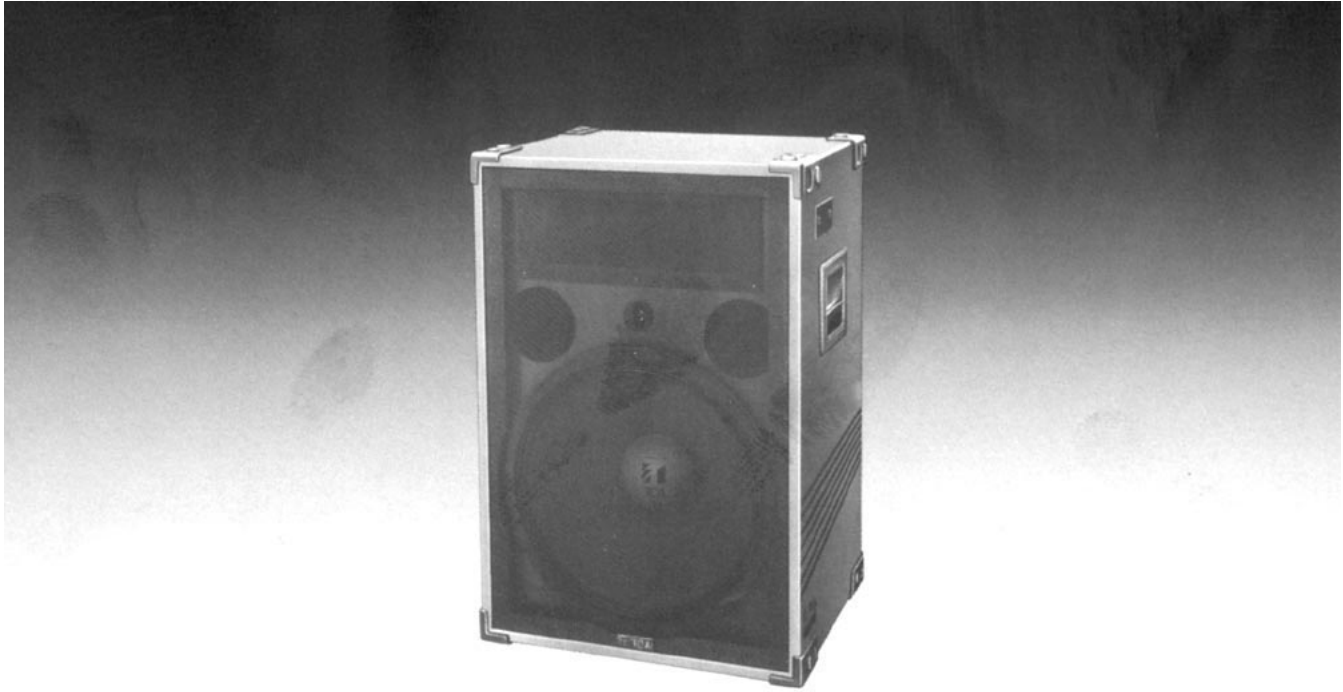


# PROFESSIONAL SOUND SYSTEM



## Speaker system

## Model 480-SE



### GENERAL DESCRIPTION

The TOA 480-SE is a 3-way loudspeaker system specifically developed for the reproduction of electronic music. Analog and digital keyboard synthesizers, drum machines, and guitar synths require a speaker system with a wide frequency response, high power capacity and the ability to handle the extreme dynamic range these instruments produce. The TOA 480-SE was designed to meet these stringent requirements.

The 480 system consists of a bass reflex enclosure, housing an 18-inch woofer, a high efficiency compression driver coupled to a constant directivity horn, and an exponential horn tweeter. The cast frame 18-inch woofer employs a powerful magnet structure and a 4-inch, edge-wound voice coil to achieve high efficiency in the ultra-low frequency ranges. The constant directivity horn ensures a uniform dispersion pattern of 90 degrees horizontal and 40 degrees vertical, while the tweeter delivers an even response to 20kHz. This combination results in a smoothness and clarity that reduces "ear fatigue", even at high sound pressure levels. The system is rated at 360 watts continuous program input.

The rear panel provides ¼ inch phone jack inputs for full-range, bi-amp, and tri-amp operation. All inputs have parallel bridging jacks for chaining multiple speaker systems. The mid and high frequency level controls are recessed and located on the side of the enclosure, near the front for convenient operation.

The wooden enclosure is sturdily constructed, and equipped with large side-mounted handles for easy transport. Interlocking protective corners allow stacking of multiple speaker enclosures. The 480-SE is finished in an attractive, scratch resistant gray polyester. A removable black jersey grillecloth completes the high tech appearance of the 480-SE.

### FEATURES

1. Cast frame 18 inch woofer provides high efficiency in the ultra-low frequency spectrum.
2. Extended system frequency response for accurate reproduction of electronic and digitally recorded music.
3. High power capacity of 360 watts continuous program material provides wide dynamic range.
4. 90x40 constant directivity horn coupled to a high efficiency compression driver.
5. Exponential horn tweeter for clarity and smoothness to 20kHz.
6. Mid and high frequency level controls, side mounted for added convenience.
7. Additional ¼ inch phone jacks for bi-amp, tri-amp, and daisy chaining.
8. Attractive enclosure finished in scratch resistant polyester with side-mounted handles and interlocking corners.

# Specifications

**Enclosure:**

Vented (bass reflex) type

**Speakers:**

Low Frequency, 18" woofer  
 Mid Frequency, CD Horn plus compression driver  
 High Frequency, Horn tweeter

**Power Handling Capacity**

**Continuous Pink Noise:**

120 watts RMS of band-limited pink noise  
 (50 Hz~20 kHz)

**Continuous Program:**

360 watts

**Impedance:**

8 ohms

**Sensitivity:**

102 dB (1W/1m)

**Frequency Response:**

40 Hz~20 kHz

**Crossover Frequencies:**

600 Hz, 8kHz

**High and Mid Frequencies Level Controls:**

0 ~ -10 dB (with an "OFF" position)

**Input Terminals:**

¼" Phone jacks for a full-range, biamp, triamp and chaining

**Finish (Enclosure):**

Polyester in grey color

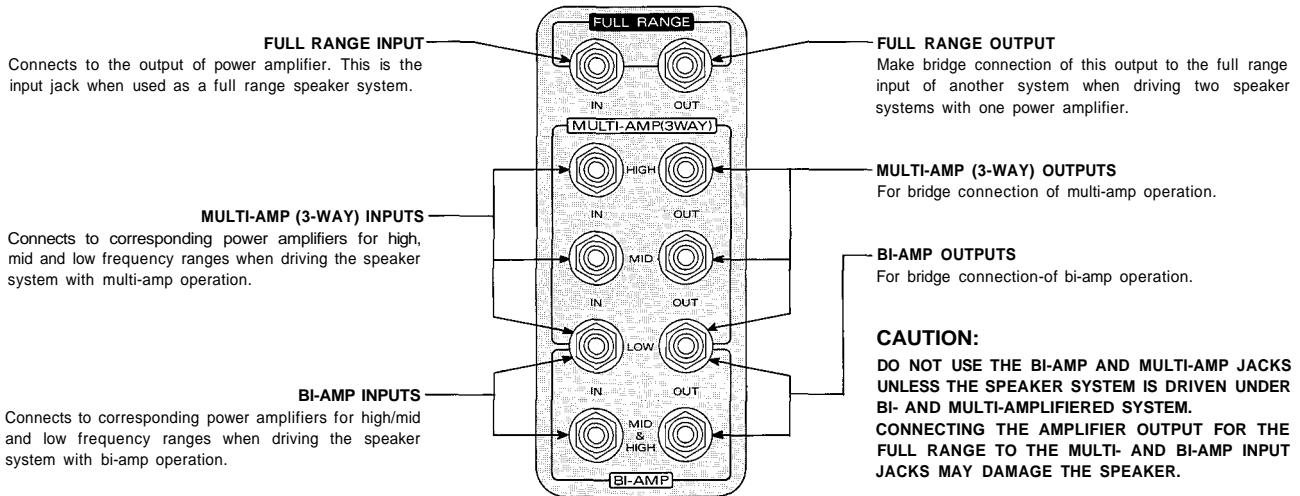
**Dimensions:**

820(H) X 560(W) X 450(D)mm  
 32.3(H) X 22.0(W) X 17.7(D)inches

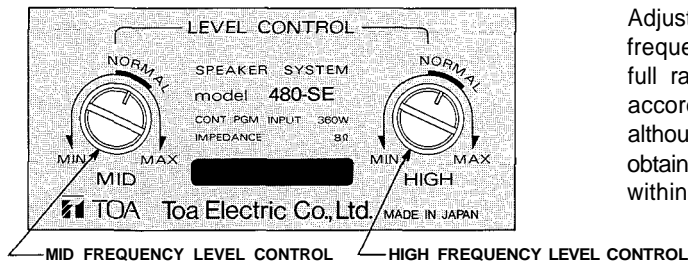
**Weight:**

45 kg (99.2 lbs)

# Input Panel

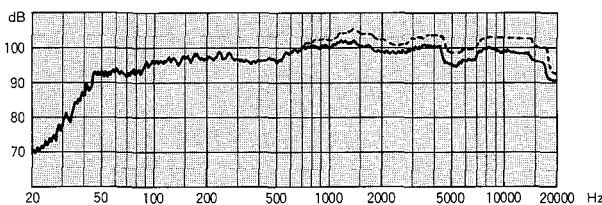


# Level Controls



Adjusts the sound level of the mid and high frequencies when driving the speaker system as a full range speaker system. Make the level setting according to the environmental conditions, although almost flat frequency response is obtainable so far as the level controls remain within the "NORMAL" ranges.

# Frequency Response (1W/1m: Swept 1/3 Octave Pink Noise)



— : Mid & high level controls at NORMAL position  
 ... : Mid & high level controls at MAX position