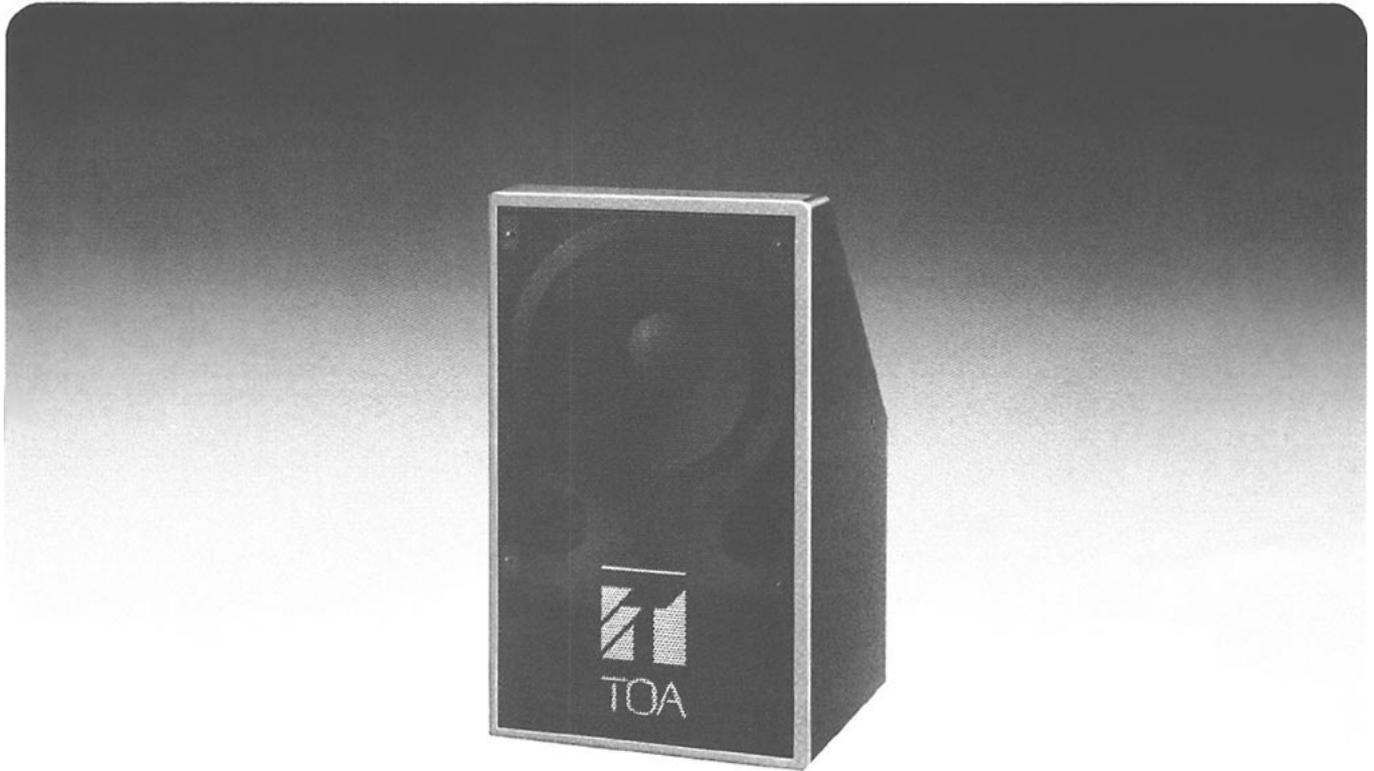


# PROFESSIONAL SOUND SYSTEM



## Speaker System

## Model SF-30



### GENERAL DESCRIPTION

The TOA SF-30 is a 3-way loudspeaker system capable of being suspended from the ceiling. The system consists of bass-reflex enclosure housing a heavy-duty 12-inch woofer, a constant directivity horn coupled with high-efficiency compression driver, and an exponential horn tweeter. The constant directivity horn ensures a uniform dispersion pattern of 90 degrees horizontal and 40 degrees vertical.

A high-tech crossover network of  $-18\text{dB/octave}$  slope is used for crossover between the woofer and the driver.

This combination results in an extended smooth frequency response and wide coverage area. The system will handle 120 watts RMS of continuous pink noise and 360 watts of continuous program material.

The rear panel provides  $\frac{1}{4}$ " phone jacks and screw-type terminals for full-range operation. The phone jacks can be converted into XLR connectors by removing mounting panel and installing XLR connector. The mid and high frequency level controls are provided on the side of the enclosure.

T-nuts for mounting brackets for ceiling suspension are provided on the rear slant and on both sides of the enclosure.

Enclosure is finished in grey polyester. The black punched metal front grill is removable.

### FEATURES

1. Three-way vented system.
2. Extended smooth frequency response.
3. High power capacity of 120 watts RMS continuous pink noise and 360 watts continuous program material.
4. 12" (30 cm) heavy-duty woofer.
5. Constant directivity horn coupled with high-efficiency compression driver gives coverage of 90 degrees horizontal by 40 degrees vertical.
6. High efficiency converts amplifier power into more sound volume.
7. Exponential horn tweeter.
8. Level controls for Mid and High frequencies located on side of enclosure.
9.  $\frac{1}{4}$ " phone jacks and screw type input terminals for full-range operation.
10.  $\frac{1}{4}$ " phone jacks can be converted into XLR connectors.
11. T-nuts for ceiling suspension provided on rear slant and both sides of enclosure.
12. Removable punched metal front grill.

## Specifications

### Enclosure:

Vented (bass reflex) type

### Speakers:

Low Frequency; 12" woofer, 2.83" (72 mm) edge-wound copper ribbon voice coil, Aluminum diecast construction

Mid Frequency; CD horn plus compression driver, duralumin diaphragm

High Frequency; Horn tweeter, duralumin diaphragm

### Power Handling Capacity

#### Continuous Pink Noise:

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

#### Continuous Program:

360 watts

### Nominal Impedance:

8 ohms

### Sensitivity:

100dB (1W/1m)

### Frequency Response:

70 Hz to 20 kHz

### Crossover Frequencies:

1 kHz, 8 kHz

### Mid and High Frequencies Level Controls:

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

### Input Terminals:

Two 1/4" phone jacks and screw type, both for full-range

### Finish (Enclosure):

Polyester in gray color

### Dimensions:

636(H) x 388(W) x 347(D) mm

25.0(H) x 15.3(W) x 13.7(D) inches

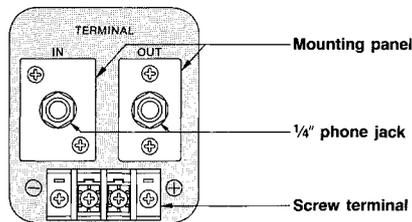
### Weight:

28 kg (61.7 lbs)

### Standard Accessories:

8 rubber pieces for T-nut holes

## Input Panel



The screw type terminals are connected in parallel with the 1/4" phone jacks. Two 1/4" phone jacks can be converted into XLR connectors by removing mounting panel and installing XLR connector.

## Level Controls

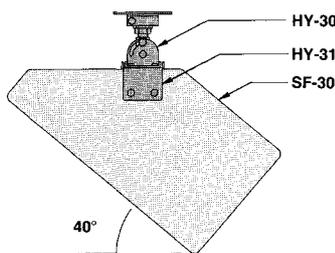


MID FREQUENCY LEVEL CONTROL HIGH FREQUENCY LEVEL CONTROL

Separate level controls are provided for mid and high frequencies.

Make the level setting according to the environmental conditions, although almost flat frequency response is obtainable as long as the level controls remain within the "NORMAL" ranges.

## Ceiling Suspension



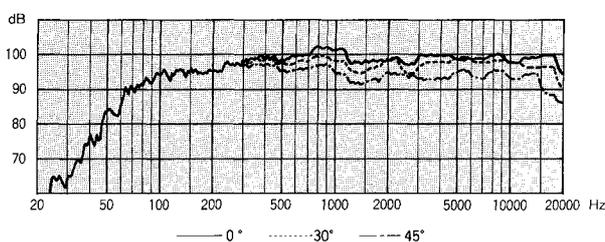
T-nuts for ceiling suspension are provided on rear slant and both sides of enclosure, permitting the SF-30 to be readily suspended from the ceiling when used with the optional brackets, HY-30 and HY-31. (Bolts to fix the brackets to the speaker are supplied with the HY-30.) The angle is adjustable 360 degrees horizontal, and  $\pm 10$  degrees vertical from the angle in the figure. Refer to the instruction manual of the HY-30 for details.

**CAUTION:** When suspending the SF-30 from the ceiling, be sure to use both the HY-30 and HY-31 ceiling mounting brackets for safety purposes.

When using the SF-30 without suspending from the ceiling, insert attached rubber pieces into holes of T-nuts.

## Characteristic Diagrams (1/3 Octave Pink Noise)

Directivity Frequency Response (1W, 1m)



Polar Response (1W, 4m)

