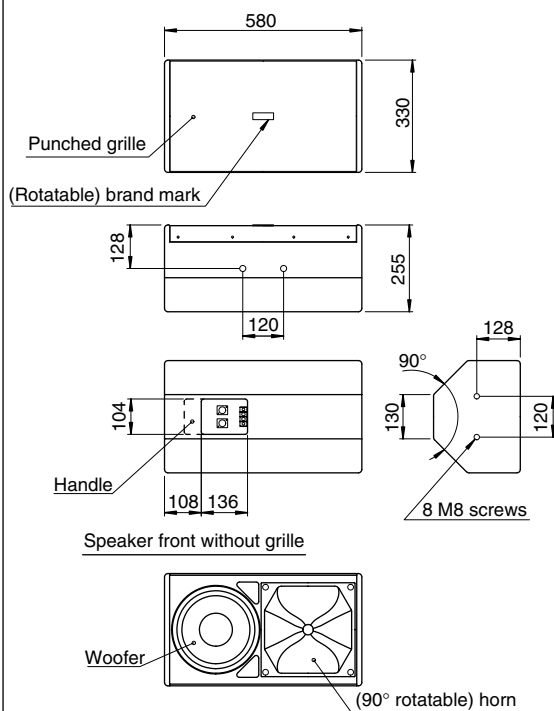


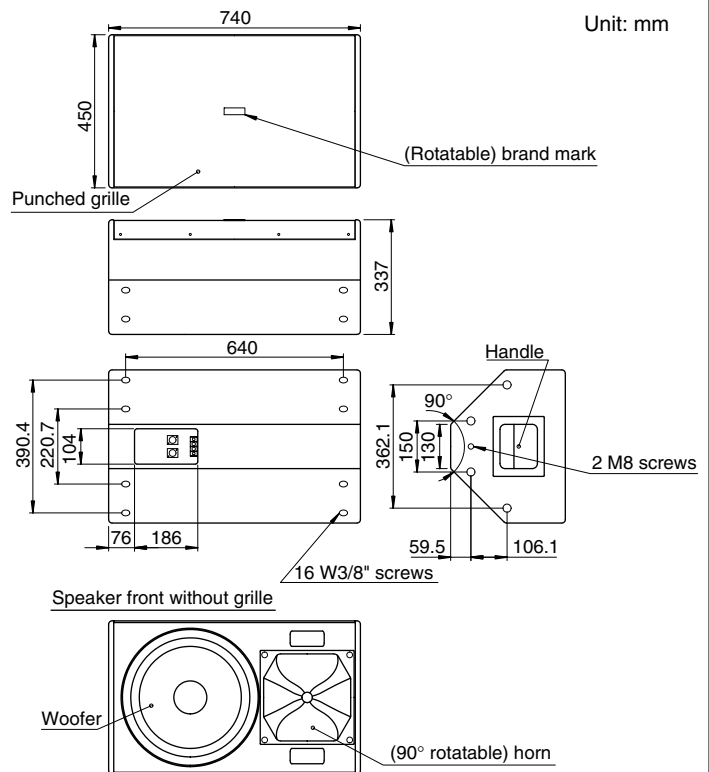
# SPEAKER SYSTEM

## ES-0851 ES-0871

[ES-0851]



[ES-0871]



Unit: mm

Please follow the instructions in this manual to obtain the optimum results from this unit.  
We also recommend that you keep this manual handy for future reference.

## ■ SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

### Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first so you are thoroughly aware of the potential safety hazards as well as understand the safety symbols and messages.



**WARNING** Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



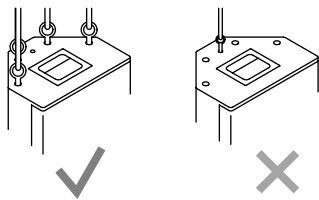
**CAUTION** Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



**WARNING**

### When Installing the Unit

- Install the unit only in a location that can structurally support the weight of the unit and the mounting bracket. Doing otherwise may result in the speaker falling down and causing personal injury and/or property damage.
- Owing to the speakers' size and weight, be sure that at least two persons are available to unpack, move or install the speakers. Failure to do so could result in either damage to the speaker or personal injury.
- Do not use M8 screw fixing holes when hanging the ES-0871 Speaker System with eyebolts. Be sure to use four W3/8" screw fixing holes when hanging. Since the back of the M8 screw fixing hole is not sufficiently reinforced, the use of those holes may cause the speaker to fall, which could result in personal injury.



### When the Unit is in Use

- Should the following irregularity be found during use, immediately stop operating the unit and contact your nearest TOA dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
  - If you detect smoke or a strange smell coming from the unit.
  - If water or any metallic object gets into the unit
  - If the unit falls, or the unit case breaks
  - If it is malfunctioning (no tone sounds.)
- Have the speaker unit checked periodically by the shop from where it was purchased. Failure to do so may result in corrosion or damage to the speaker or its mounting bracket that could cause the speaker to fall, possibly causing personal injury.



**CAUTION**

### When the Unit is in Use

- Do not stand or sit on, nor hang down from the speaker as this may cause it to fall down or drop, resulting in personal injury and/or property damage.
- Do not operate the speaker for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.

## ■ GENERAL DESCRIPTION

Designed for use in both temporary and permanent installations, TOA's ES-0851 and ES-0871 are high-quality indoor speaker systems that feature high power handling capabilities.

## ■ FEATURES

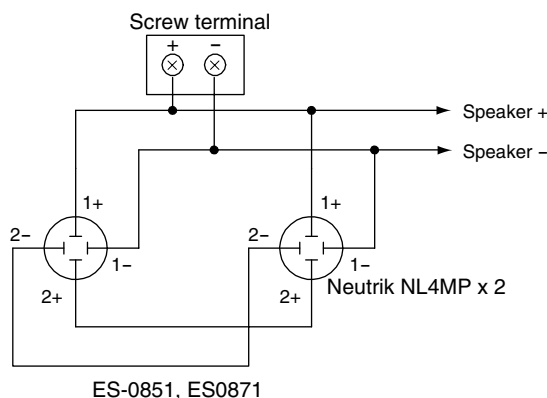
- Built-in passive network ensures superb sound quality.
- 90-degree rotatable horn permits the speaker to be installed either horizontally or vertically without affecting its coverage angle.
- The speaker's wedge shape permits it to be mounted closely to both wall and ceiling at a 45-degree downward-facing angle. The speaker can also be used as a stage monitor.
- Carrying handles facilitate speaker installation and transport in both temporary and permanent applications.
- Input connectors use M5 screw terminals for enhanced installation ease, as well as Neutrik NL4MP connectors that facilitate temporary installations.
- The ES-0851 can be mounted directly to its optional speaker stand. It can also be suspended from a ceiling pipe or mounted to walls or ceilings using its optional mounting bracket. (For mounting instructions, refer to the manuals for the speaker or mounting bracket.)
- The ES-0871 can be mounted to walls or ceilings using its optional mounting bracket. (For mounting instructions, refer to the manual for the mounting bracket.)

## ■ INPUT CONNECTORS

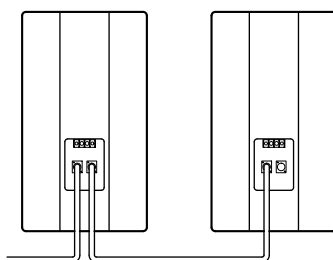
- Because the Neutrik NL4MP connector is internally connected in parallel to the terminal strip, either can be used.
- The Neutrik connector pins are wired as shown below.

| Pin No. | ES-0851, ES-0871 |
|---------|------------------|
| 1 +     | Speaker +        |
| 1 -     | Speaker -        |
| 2 +     | —                |
| 2 -     | —                |

- The cable-end connector corresponding to the Neutrik connector is Neutrik NL4FC.
- The input connector's wiring diagram is shown below.



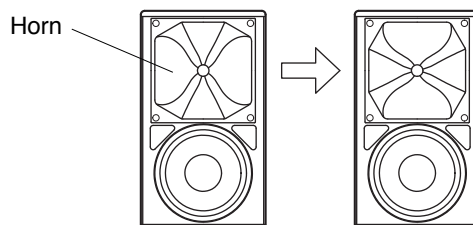
- Two speakers can be parallel-driven in a cascade configuration as shown below.  
**Note :** In this case, the power amplifier load is 4Ω.



## ■ CHANGING THE HORN COVERAGE ANGLE

The speaker's horizontal and vertical coverage angle can be changed by rotating the horn 90 degrees.

1. Remove the front grille screws and detach the grille.
2. Remove the horn's mounting screws and change the horn's orientation as shown below.
3. Replace the horn and the front grille.



## ■ SPECIFICATIONS

| Model Number              | ES-0851                                                                                                                      | ES-0871                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Enclosure Type            | Bass-reflex type                                                                                                             |                                    |
| Power Handling Capability | Continuous program 600 W<br>Continuous pink noise 200 W                                                                      |                                    |
| Nominal Impedance         | 8 Ω                                                                                                                          |                                    |
| Sound Pressure Level      | 97 dB (1 W, 1 m)                                                                                                             | 100 dB (1 W, 1 m)                  |
| Frequency Response        | 80 - 18,000 Hz                                                                                                               | 70 - 20,000 Hz                     |
| Crossover Frequency       | 1,800 Hz                                                                                                                     |                                    |
| Speakers                  | Low frequency : 25 cm cone speaker                                                                                           | Low frequency : 38 cm cone speaker |
|                           | High frequency : CD horn 90° horizontal x 60° vertical (changeable to 60° horizontal x 90° vertical) plus compression driver |                                    |
| Input Terminals           | M5 screw terminals (2P), Neutrik NL4MP x 2                                                                                   |                                    |
| Dimensions                | 580 (w) x 330 (h) x 255 (d) mm                                                                                               | 740 (w) x 450 (h) x 337 (d) mm     |
| Finish                    | Enclosure materials : Wood, paint (black)<br>Grille materials : Punched metal grille, paint (black)                          |                                    |
| Weight                    | 20 kg                                                                                                                        | 37 kg                              |

**Note :** The design and specifications are subject to change without notice for improvement.

### • Optional Equipment

Speaker Mounting Bracket: HY-0851ST, HY-0852ST, HY-0851CL, HY-C0801, HY-W0801, and HY-B0801 (for ES-0851), HY-0871CL and HY-0871WS (for ES-0871)

Speaker Stand: ST-34B (for ES-0851)

### Traceability Information for Europe

Manufacturer:  
TOA Corporation  
7-2-1, Minatojima-Nakamachi, Chuo-ku, Kobe, Hyogo,  
Japan

Authorized representative:  
TOA Electronics Europe GmbH  
Suederstrasse 282, 20537 Hamburg,  
Germany



TOA Corporation

URL: <http://www.toa.jp/>

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