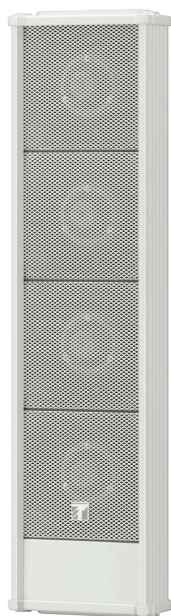


## HA-1030EN

### LONG RANGE ARRAY SPEAKER 30W



The HA-1030EN is composed of multiple horn speakers positioned in an array. It is a highly efficient speaker. Clear voice can be transmitted to a distant place without acoustic correction. The built-in high-pass filter cuts the bass that can damage the speaker. A double drip-proof structure, and a salt-resistant paint finish, it has excellent durability in an outdoor permanent environment.

The HA-1030EN is certified to the European Standard EN 54-24: 2008, Loudspeaker for voice alarm systems for fire detection and fire alarm systems

In compliance with the British Standard BS 5839-8: 2008. DoP number is 23-103.

### Key features

- Horn array for clear long-range voice projection
- IP66-rated for harsh outdoor use
- Weatherproof durability with double drip-proof design and saltresistant paint finish
- Wide horizontal coverage for broad-area public address applications
- Built-in high-pass filter for speaker protection
- EN 54-24 compliant for evacuation systems
- Optional mounting bracket for flexible installation

## Specifications

Rated Input	30 W
Rated Impedance	100 V line: 330 $\Omega$ (30 W), 670 $\Omega$ (15 W) 70 V line: 170 $\Omega$ (30 W), 330 $\Omega$ (15 W)
Sensitivity	109 dB (1 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Max. SPL	123 dB (30 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Frequency Response	550 Hz - 4.8 kHz (-10 dB), 360 Hz - 12 kHz (-20 dB)
Speaker Component	Horn speaker unit x 4
Input Terminal	Ceramic terminal (3-pole), can be bridge-connected x1, Ceramic terminal (2-pole) x 1, Thermal fuse is included.
Cable Gland	Size: PG 13.5 - 12 (gray) x 1, Cable Diameter Range: 12.5 - 6.5 mm ( 0.49" - 0.26") Size: PG 13.5 - 08 (black) x 1, Cable Diameter Range: 9 - 4.5 mm ( 0.35" - 0.18"), Two cable glands are factory-installed.
Speaker Cable	4-core cabtype cord 2 m (6.56 ft)
Compatible Wire	For Ceramic terminal (3-pole), Conductor: Solid wire or 7-core wire No bridge connection: 0.8 - 10 mm <sup>2</sup> (AWG 18 - 7) for solid wire, 0.8 - 8 mm <sup>2</sup> (AWG 18 - 8) for 7-core wire Bridge connection: 0.8 - 2.5 mm <sup>2</sup> (AWG 18 - 13) for solid wire, 0.8 - 1.5 mm <sup>2</sup> (AWG 18 - 15) for 7-core wire
IP Code	IP66
EN 54-24 Specifications	Sensitivity: 88 dB (1 W, 4 m), Max. SPL: 103 dB (30 W, 4 m) Coverage Angle (-6 dB): Horizontal: 190° (500 Hz), 165° (1 kHz), 85° (2 kHz), 45° (4 kHz) Vertical: 80° (500 Hz), 45° (1 kHz), 20° (2 kHz), 15° (4 kHz) Environmental Type: B (outdoor applications) IP Code: IP33C
Operating Temperature	-20 °C to +55 °C (-4 °F to 131 °F)
Finish	Case: Aluminum, white (RAL 9016 equivalent), salt-resistant, paint Front grille: Aluminum, white (RAL 9016 equivalent), paint, Bolts: Stainless steel
Dimensions	167 (W) X 665 (H) X 140.5 (D) mm (6.57" X 26.18" X 5.53")( excluding projection)
Weight	8 kg (17.64 lb) (unit only)
Included Accessories	Terminal box x 1
Optional Accessories	Speaker mounting bracket: YS-1100A

Notes: The speaker must be installed upright or facing down. Installing the speaker in any other position may render the drainage hole ineffective, eventually leading to an electrical failure or other damage.



## A&E specifications

The Long Range Array Speaker shall be designed for outdoor public address and emergency voice alarm systems requiring high intelligibility and long-distance coverage. The speaker shall incorporate four horn speaker units arranged in a vertical array to achieve narrow vertical and wide horizontal directivity.

The speaker shall have a rated input of 30 W and support 100 V and 70 V line systems with selectable impedance settings of 330  $\Omega$  (30 W) and 670  $\Omega$  (15 W) for 100 V, and 170  $\Omega$  (30 W) and 330  $\Omega$  (15 W) for 70 V. Sensitivity shall be 109 dB (1 W, 1 m), and maximum sound pressure level shall be 123 dB (30 W, 1 m).

The frequency response shall be 550 Hz – 4.8 kHz (–10 dB) and 360 Hz – 12 kHz (–20 dB). The speaker shall include a built-in high-pass filter for speaker protection. Coverage angle shall be 165°(1 kHz) for horizontal and 45°(1 kHz) for vertical. The speaker shall comply with EN 54-24 standards.

Input terminals shall be ceramic type, consisting of one 3-pole and one 2-pole terminal, and shall include a thermal fuse. The enclosure shall be constructed of aluminum with a white RAL 9016 salt-resistant paint finish and stainless steel bolts. The speaker shall be IP66-rated for dust and water protection.

The operating temperature range shall be –20 °C to +55 °C (–4 °F to +131 °F).

Dimensions shall be 167 (W) × 665 (H) × 140.5 (D) mm (6.57" × 26.18" × 5.53"), and weight shall be 8 kg (17.64 lbs).

Optional extras: Speaker Mounting Bracket (YS-1100A)

Manufacturer: TOA Corporation

Model: HA-1030EN