



HA-1010-EB

Long range horn array speaker



**High intelligibility
over long distances.**

sound without compromise

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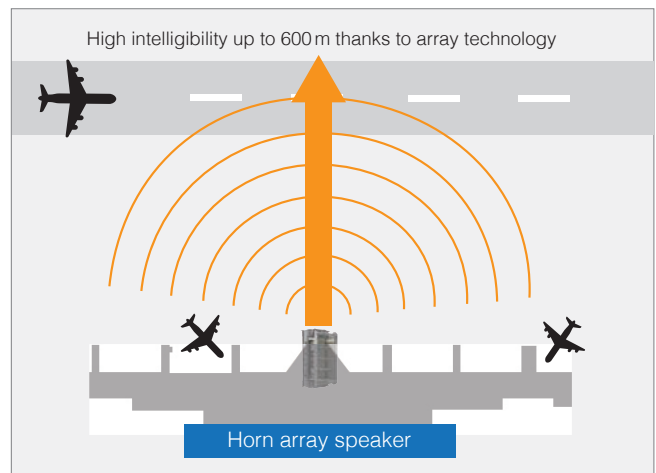
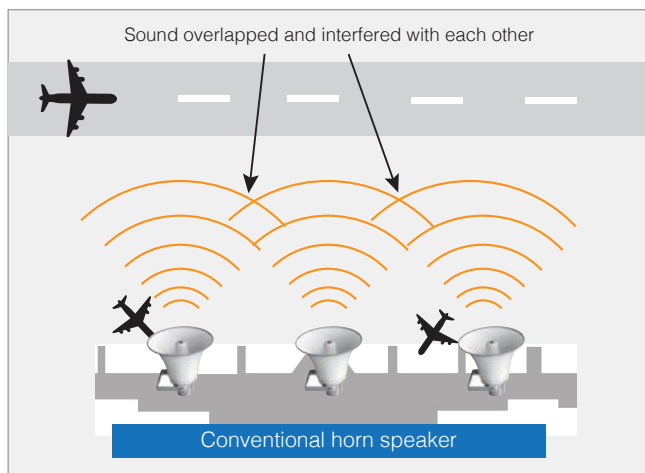
Long range horn array speaker

The HA-1010-EB is a slim horn array speaker with extremely long range. It can spread sound to over 600m while a conventional speaker usually only covers 300 m. Designed to transport information over an extremely long distance, the HA-101-EB is perfect for airports, skiing locations, factories, public squares or leisure parks. The new horn array speaker also eases the intelligibility in standard distances and under extreme situations.

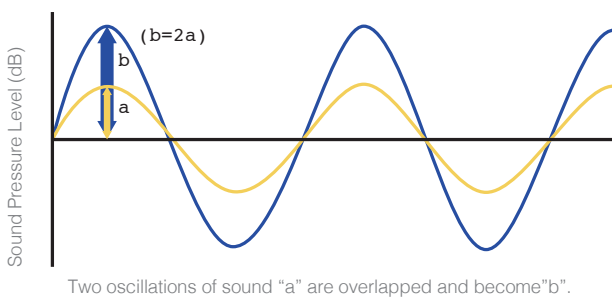
On a runway for example, poles can not be built, so it is impossible to install speakers. In order to deliver announcements, a large number of speakers must be installed outside of the terminal building. In this case, the sound may lose intelligibility before the sound reaches the target area due to speaker interference from one another. The HA-1010-EB is composed of multiple horn speakers positioned in an array and can not only reduce the total number of speakers, but also can achieve a better speech intelligibility.

- Long-range sound coverage further than conventional horn speakers
- Better speech intelligibility thanks to horn array technology
- Compact and lightweight design

- The sound level progressively decreases as it travels, so to deliver sound far, input power must be increased.
- Doubling the input power adds 3 dB in sound pressure level (SPL) and can increase distortion. However, when two sound sources are accurately overlapped, there is a rise of 6 dB in SPL.
- Overlapped sound by using multiple speakers can be delivered much further with less distortion. Even if the speakers are installed on the roof of the buildings, announcements can be delivered with high intelligibility.



Status when two sounds overlapped



Specifications

	HA-1010-EB
Rated Input (100V line)	50W
SPL (1W, 1m)	114 dB
Maximum SPL (50W, 1m)	131 dB
Frequency Response	350Hz – 7 kHz
Directivity angle	Horizontal: 90° (2kHz), Vertical: 15° (2kHz)
Water protection	IPX5
Dimensions (W x H x D)	167 x 1,233 x 140.5 mm
Weight	13.5 kg