Clear announcement is achieved with TOA high quality and intelligent products.

Boasting compact size and easy setup.

TOA Sound Systems
for safe, reliable, and punctual airport operation
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Airport announcements are an indispensable service to help airline passengers and anyone who meets or sees off passengers to accomplish their objectives. Airports are divided into areas for each process in the flow of arriving and departing passengers, and announcements should be distributed to the appropriate areas according to each purpose. In a well-designed system, paging zones are set up for each area. Microphones with zone selection are properly placed and programmed of priority function to precede others in case of emergency or superiority. Backup power sources drive emergency announcements during power failures, and pre-recorded evacuation instructions can be automatically broadcasted in coordination with fire alarm systems.

**Airport Announcements**

**General Announcement**
Includes paging and general instructions for airport users, and is broadcasted to specific areas or to all areas from a microphone at the information desk or operation center. Background music (BGM) is often distributed to create a comfortable atmosphere.

**Departure Announcement**
Is made for departing passengers to give flight information such as carrier name, flight number, destination, departure time, and boarding gate. This announcement gets passengers moving smoothly from check-in to boarding. The main announcement areas are the Departure Hall, Concession, and Final Boarding Area.

**Final Boarding Announcement**
Is broadcasted to passengers who have checked in and are on standby. Boarding time, gate number, boarding order, and other instructions are announced only for the Boarding Area through a local microphone at the gate.

**Arrival Announcement**
Is made for the airport visitors coming to meet arriving passengers. It is mainly placed in the Arrival Hall and informs of the estimated arrival time and gate. Local announcement in the Baggage Claim tells arriving passengers where to pick up their baggage.

**Emergency Announcement**
Is made in case of fire or other emergencies. The announcement overrides other announcements and is broadcasted at maximum volume. If necessary, automated evacuation announcement is activated in coordination with fire alarm or other warning systems.
the reflection. However, actual airports are filled with ambient noise, echo and long reverberation, consequently announcements are prone to be unclear. In those areas the speakers must be appropriately selected and located according to the architecture and ambient noise. Line array speaker helps reducing echo and reverberation. Ambient noise controller is a convenient tool to automatically adjust the suitable announce level according to fluctuating ambient noise. In addition, TOA’s sound simulation software, available free of charge, makes speaker selection and configuration super-easy.
Advanced System

Highly flexible system enables paging over IP network (LAN)

Announcements are paged from IP Intercom Stations (N-8500MS, N-8510MS) to selected paging zones. C/O Interface Unit (N-8000CO) enables connection to an outside telephone line for both communication and paging purposes. Direct connection of Intercoms to existing LAN reduces installation time and allows for easy future expansion. Ambient Noise Controller (DP-L2) automatically adjusts the volume level of announcements in response to fluctuation of ambient noise. Configuration of Digital Intercoms (N-8000 series), Ambient Noise Controller (DP-L2), Line Array (SR-H2S) and Wide-Dispersion Speakers (F-1300, F-2322C) increase speech intelligibility.
Equipment package provides full set of functions needed for airport paging

Remote Microphone (RM-200M) features selection of paging zones and activation of pre-recorded messages. Voice Alarm System Amplifier (VM-3000 series) automatically detects system failures with surveillance function. Amplifier also has built-in message storage and is able to page emergency announcements with battery backup even during power failures. Line Array (HX-5B/W, SR-H2S) and Wide-Dispersion Speakers (F-2322C) are easy to install and features high speech intelligibility.
What is required for Airport Sound Products?

1. Simple operation
2. Durable construction
3. Quick and accurate maintenance
4. Self-diagnosis and automatic surveillance
5. Easy wiring connection
6. Speedy installation
7. Flexibility and expandability
8. Full range of products and options

TOA brings high-quality products with above features and experienced engineering to the airport sound systems in the world.

**Products**

**Amplifiers**
- N-8000CO/N-8000AF/N-8000AL
- N-8000MI/N-8000EX

**IP Network Intercoms**
- N-8000MI/N-8000EX

**Speakers**
- F-1000/1300/2000
- Wide-Dispersion Box Speakers
  - 2-way bass-reflex speakers, Black(B)/White(W) colors, and High/Low impedance types are available.
- BS-1030B/W
  - Universal Speakers
  - 2-way bass-reflex speaker with transformer for Hi/Lo (100V/8-ohm) impedance with 30W of rated output. Easy to install with equipped bracket. Choice of black (B) or white (W).

**Microphone**
- PM-660U
  - Paging Microphone
  - Equipped with remote control switch (interlocked with talk switch) for amplifier power on/off operation or chime. Combination of PM-660D (with DIN plug) and RU-2002 (preamplifier) recommended when microphone and amplifier more than 100 m apart.
VM-3000 series
Voice Alarm System Amplifiers

Emergency Voice Alarm System incorporating Digital Audio, PA, Paging and BGM. 4 mic/line, 4 remote mic, and 2 BGM inputs. Max. 60 assignable speaker zone outputs with extension amplifiers. Built-in voice alarm message broadcasting, complete fault detection, speaker line monitoring and indication.
Power Source: 230VAC/24VDA

N-8000 series
IP Intercom Systems

No boundary limit, thanks to IP network compatibility on connection. Server-less construction for preventing total system failure and reducing system cost. Easy integration with voice evacuation, access control, telephone, fire alarm and CCTV systems. Simple setup and connection to existing network wiring. High intelligible communication and broadcasting thanks to wide frequency range and digital transmission.

N-8500MS, N-8510MS (IP Master Station)
N-8000MI (Multi Interface Unit), N-8000CO (C/O Interface Unit)
N-8000AF (Audio Interface Unit), N-8000AL (Telephone Interface Unit) N-8000EX (Network Intercom Exchange)

Type-H Line Array Speakers

Reflection and feedback resistance design suitable for reverberative space to ensure the precise sound coverage and intelligible speech.


HX-5B/W Compact Array Speakers

2-way compact speaker system with adjustable sound dispersion. Easy installation with either bundled or optional brackets. Continuous program: 600W. Choice of black (B) or white (W).

PC-580RU/RVU Flush Mount Type Ceiling Speakers

Integrated with a speaker unit and panel. Ceiling Mount Speaker is of all metallic construction and ideal for use in a voice alarm system.

PC-580RU PC-580RVU

M-9000M2 Digital Matrix Mixer

Expandable to 8-in by 8-out construction with optional modules. Includes EQ, delay, VOX switch, and compressor functions. Setup parameters and event memories can be stored up to 32 patterns. A variety of remote control panels make the smooth and easy worship operation.

F-series Wide-Dispersion Ceiling Speakers

Minimal high frequency roll-off for intelligible and well-balanced sound reproduction over a wide listening area. Quick and easy mounting of speakers on ceiling.

F - 1 2 2 C (30W, Full-range/12cm) F-1522SC (6W, Full-range/10cm)
F - 2 3 2 2 C (30W, Full-range/12cm) F-2352C (30W, 2-way/12cm) F-2352SC (6W, 2-way/12cm) F-2852C (60W, 2-way/16cm)

Mixer & Audio Signal Processor

DP-L2 Digital Ambient Noise Controller

Automatic adjustment of volume level of announcements in response to changing ambient noise levels. Option: AN-9001 Ambient Noise microphone.
Quality control on the Factory Floor

TOA uses its very own factories both within Japan and overseas. Numerous engineers from Japan are sent to our overseas production plants to ensure that the state-of-the-art equipment adheres to the same stringent quality control system used in our Japanese production facilities. Furthermore, twice a year members from our Quality Control Division visit overseas production facilities to carry out inspections and make sure that quality standards are being maintained.

Compliance with Laws and Regulations

TOA is constantly carrying out tests to ensure that products comply with various regulations and standards around the world: safety regulations including UL, CE, CCC, RoHS, WEEE, EN 54, SASO, and REACH; the standards for each country; and ISO 9001. We do this so that consumers have complete peace of mind when using our quality products.

State-of-the-Art Equipment

In order to satisfy the legal requirements and conditions of each country, products must pass a large number of stringent tests. By installing various kinds of testing facilities, such as anechoic/echoic chambers and EMC test chambers, and by carrying out in-house testing, TOA has been able to improve its development efficiency.

TOA Speaker Placement Viewer: Software for Acoustic Simulation

At TOA, we are constantly trying to improve our services and share information with our customers. TOA Speaker Placement Viewer provides an easy way to calculate how many speakers are needed in a room. The software allows virtual placement of TOA Line Array, as well as all TOA Public Address and ProSound speakers.