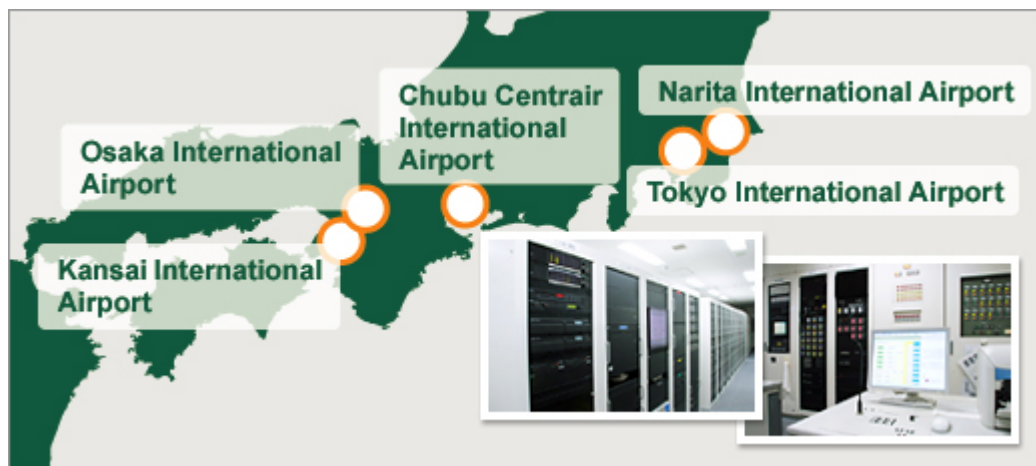


No.1 Share for Airport Broadcast Systems for International Airports in Japan

TOA's passenger announcement systems and emergency broadcast systems are hard at work at all five international airports in Japan. TOA's airport broadcast systems are also used at Charles de Gaulle International Airport in Paris, Heathrow Airport in London, and other major airports around the world.



Why No.1? Tokyo International Airport "Big Bird"

The latest sound technology achieves a comfortable sound environment

TOA's expertise in operation of sound at airports, such as types of broadcasts and priorities, sets TOA apart. Let's take a look at the second terminal of Tokyo international Airport (Haneda Airport) opened in 2004 where TOA's passenger announcement system and emergency broadcast system are in use.

+10db for comfort

The volume of announcements tends to be loud in order to overcome noise at spaces where many people gather, such as airports.

Announcements reach people only if they are about 10db louder than the noise. TOA's passenger announcement system at Big Bird (Tokyo International Airport) is equipped with the Ambient Controller that automatically adjusts the volume in accordance with the noise level. The result is a quiet, comfortable environment where necessary information is thoroughly communicated.



Emergency broadcast to prevent panic

The essential purpose of an emergency broadcast is to alert people who are in danger. A needlessly global broadcast may trigger panic involving people who are not in danger. Through its experience over many years, TOA has in-depth knowledge of the flow of people at airports. In compliance with the requirements of the Fire Services Act of Japan, we have established an emergency broadcast system that ensures delivery of necessary information only to necessary locations even if there is a power outage.

No.1 in Sound Output: Sound Delivered to 12km Away

In 1962 TOA manufactured an unprecedentedly large-output amplifier and two enormous horn-type speakers with a three-meter diameter. We conducted a broadcast experiment on the coastline at Akashi in Hyogo Prefecture and confirmed that the sound was delivered to Awaji Island 12 km away. To TOA's knowledge, this was the world's loudest sound ever output from a sound system.



Why No.1?

The maximum output of 4,200W achieved by use of a cutting-edge transistor when vacuum tubes were in full swing

The development of this system was triggered by an inquiry from a customer abroad about a broadcast system for political publicity. The customer's requirement was to deliver propaganda to the other side of a river, which was 12km away.

In order to satisfy this requirement, we used a transistor for the amplifier. At that time, transistors were cutting-edge devices and the price of one transistor was about the same as the average monthly starting salary in Japan. When the maximum output of a sound system for a movie theater was about 20W, our system realized an extraordinary output of 4,200W.

Although this project did not materialize, the technologies we developed then have become core technologies underpinning our subsequent development of large-output sound systems.

