



# *Solutions for mosque environments*



Sound system for mosque delivered  
from "TOA" of Japanese origin

Clear sound is achieved with TOA high quality mosque sound systems.  
Boasting compact size and simple setup.

# Are you satisfied with your mosque's sound system?

Is your Azan achieving the distance and clarity that you desire? Inside the mosque, can the teachings and prayers of the Imam be heard by every one. Are complicated sound system setups and difficult-to-use microphones causing problems? If you're not entirely satisfied with your mosque's current sound system, maybe it's time for a change.

TOA sound systems for mosques project sound clearly and without feedback, come in sizes that won't detract from the beauty of a mosque, and are conveniently easy to set up and use. As a company that understands and appreciates the special characteristics of mosque architecture, TOA can provide the optimal, high-quality sound system for your needs. Why not choose the sound that reaches deep within people's souls and heightens their devotion?

## Lineup

### Microphones

#### DM-1300 Unidirectional Microphone

Dynamic, high-cost performance characteristic.



#### DM-1500 Unidirectional Microphone

Dynamic, rigidly constructed and minimized handling noise.



#### EM-800/ST-800 Gooseneck Microphone/Stand

Electret Condenser element with unidirectional pattern. Rejection of undesirable off-axis noise for minimized possible feedback.



#### EM-700 Boundary Microphone

Electret Condenser element with unidirectional pattern and low-cut switch. Optimized design for floor and desktop use.



#### EM-410

Electret Condenser element with hypercardioid pattern. Best performance when attached to the chest area.



### Digital Mixers

#### M-633D Digital Stereo Mixer

Consisting of 6-mono & 3-stereo inputs/2-mono, 1-stereo and 1 stereo rec outputs. Automatic Resonance Control eliminates resonance with just the touch of a button (ARC), and Feedback Suppressor prevents feedback automatically (FBS).



#### 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.



#### D-901 Digital Mixer

Features max. 12-in / 8-out with 8-bus construction with optional modules, and includes mixer, matrix control, feedback suppression, auto mixing, EQ, compression, delay, echo, in/out remote control functions. The optional VCA fader unit (D-911) enables the volume control of all channels and contact controls.



### Amplifiers

#### A-2000 series Mixer Power Amplifier

3 mic inputs (Mic 1 with phantom power), 2 aux inputs and 1 rec out. Simple operation and durable construction.

A-2030(30W) A-2060(60W)  
A-2120(120W) A-2240(240W)



#### A-1700 Series Mixer Power Amplifiers

4 mic inputs & 2 mic/aux switchable inputs with phantom power, 3 aux inputs. 1 rec out, 1 pre out and 2 speaker output zones. Remote volume and power controls.

A-1706(60W) A-1712(120W) A-1724(240W)



#### DA Series Digital Power Amplifiers

Light & Compact-size body. Independent power supply per channel for high efficiency and reliability.

DA-250D/DH(4-ohm/100V, 250W x 2ch)  
DA-250F/FH(4-ohm/100V, 250W x 4ch)  
DA-550F/500FH(4-ohm 550W x 4ch/100V 500W x 4ch)



### Indoor Speakers

#### 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. Black(B) and White(W) color variations.



Type B/W

Main hall Ladies prayroom

#### F-1000/1300/2000 series Wide-Dispersion Speakers

2-way bass-reflex speaker. Black(B)/White(W) colors, and High/Low impedance types are available.

F-1000B/W(8-ohm, 90W) F-1000BT/WT(100V, 15W)  
F-1300B/W(8-ohm, 150W) F-1300BT/WT(100V, 30W)  
F-2000B/W(8-ohm, 180W) F-2000BT/WT(100V, 60W)

Main hall Ladies prayroom

#### Type-H Line Array Speaker Systems

Reflection and feedback resistance design suitable for reverberative mosques to give uniformly dispersed sound and intelligible speech.

SR-H2L/H2S(180W, 8-ohm)  
SR-H3L/H3S(360W, 8-ohm)

Main hall

SR-H2/H3

### Outdoor Speakers

#### TC Series Reflex Horn Speakers

High durability, high heat-resistance and improved low frequency, thanks to polyimide Diaphragm and weatherproof materials.

TC-615/615M(15W, 8-ohm/100V)  
TC-631/631M(30W, 8-ohm/100V)  
TC-651M(50W, 100V)

Courtyard Minaret

#### TH series Reflex Horns/ TU series Driver Units

To be used in combination with Horns and Driver units.

TH-650/660 Reflex Horns  
TU-631/631M(30W, 16-ohm/100V) Driver Units  
TU-651/651M(50W, 16-ohm/100V) Driver Units

Courtyard Minaret

#### CS Series Wide Range Speaker

High sensitivity with wide frequency range features increase speech intelligibility in wide areas.

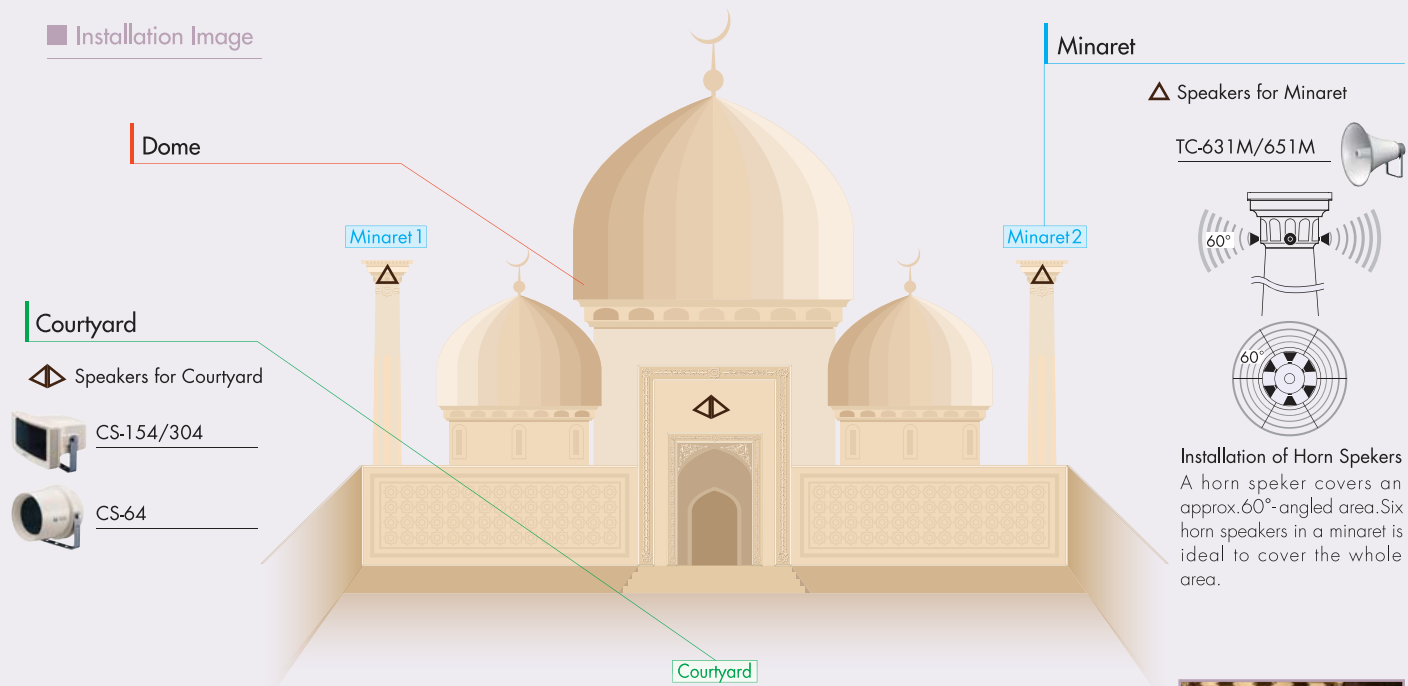
CS-64(6W, 100V) CS-154(15W, 100V) CS-304(30W, 100V)

Courtyard

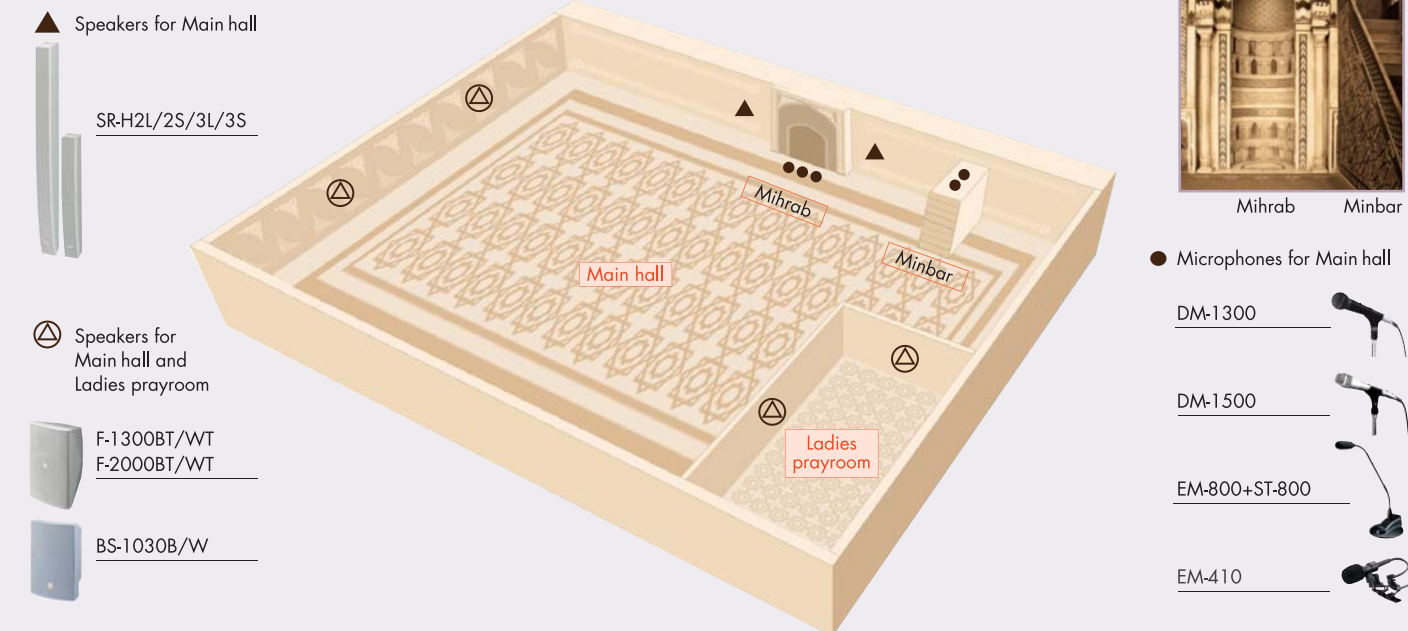
# Designing Guidelines & System Configuration

The voice of Imam must reach every worshipper in the mosque.  
 The Azan must be clearly heard to the farthest corners. Therefore microphones and speakers should be carefully selected and installed according to the architectural and acoustic characteristics of the mosque.  
 However, most of mosques are rarely considered from the acoustic aspect, so the echo, longer reverberations of sound and feedback deteriorate the intelligibility of Azan and Khutba. TOA recommends the right equipment in the application examples to optimize the acoustic environment of mosque, based on its high technology and decades of experience.  
 Horn speakers at the minaret spread the powerful Azan over a wider area, thanks to the durable and wide-frequency range polyimide diaphragms. Line array and 2-way box speakers have an appropriate dispersion angle, which suppresses not only echo and feedback but also disperses the uniform sound inside the mosque.

## Installation Image



## Inside Floor of Dome

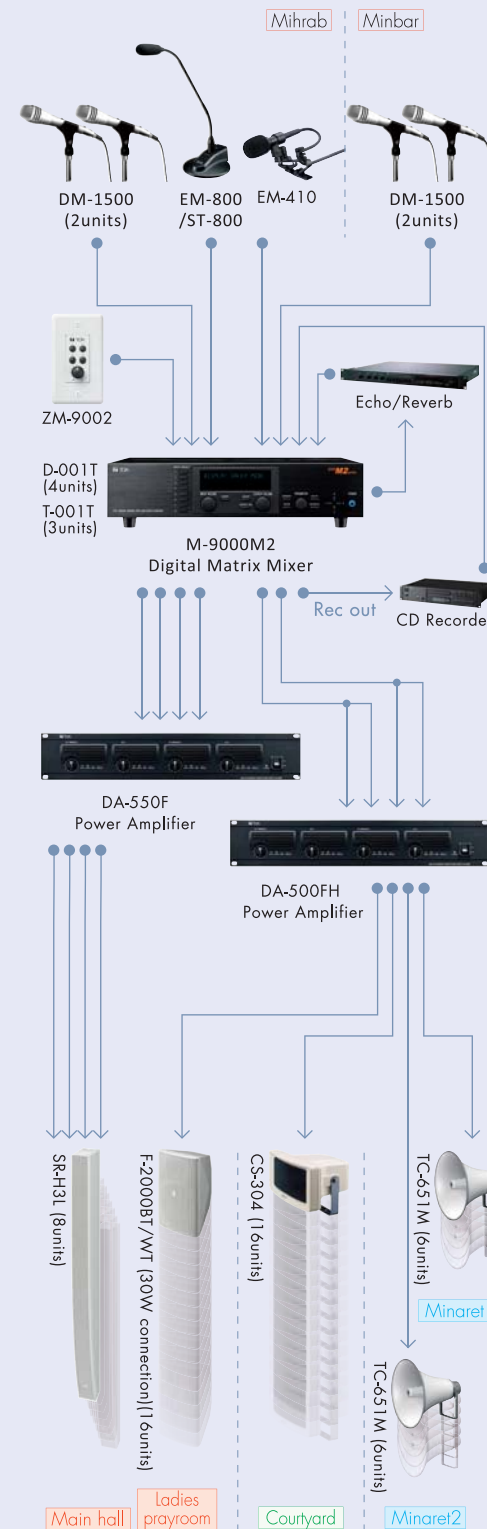


# Application Examples



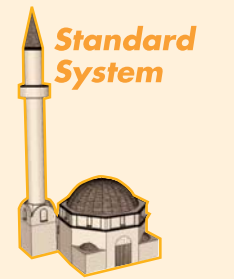
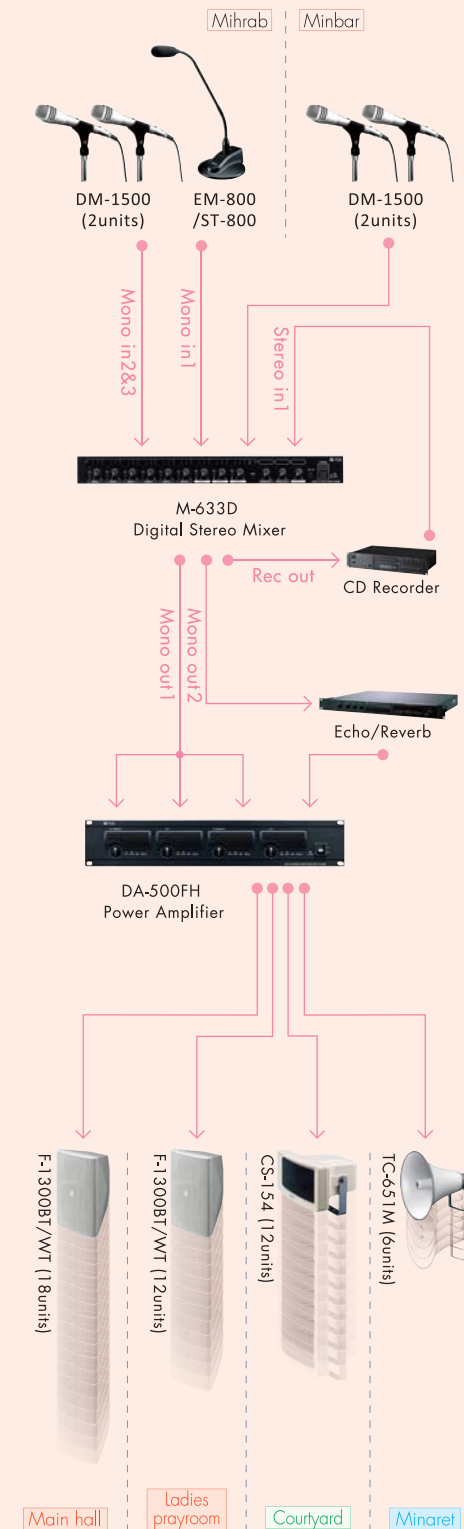
## Principal Features

DSP functions of the digital mixer in combination with line array speakers suppress feedback and reflected sound. Remote-control function for preset memories instantly helps smooth worship proceedings.



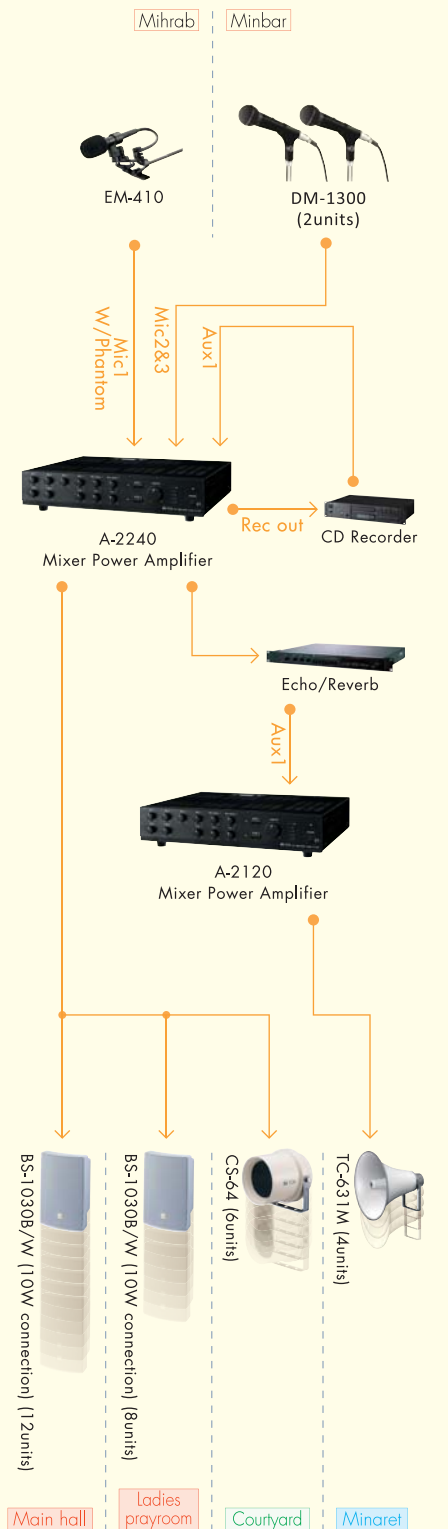
## Principal Features

The ARC function eliminates undesirable reflections and the FBS function suppresses feedback to improve speech intelligibility by one-touch operation. Compact and high power amplifiers/speakers expand the audible area.



## Principal Features

Equipped with basic functions for Azan, Salah and Khutba. Consists of highly durable equipment with simple operation.



# High value of Japanese technology in both Hardware and Software

## 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.



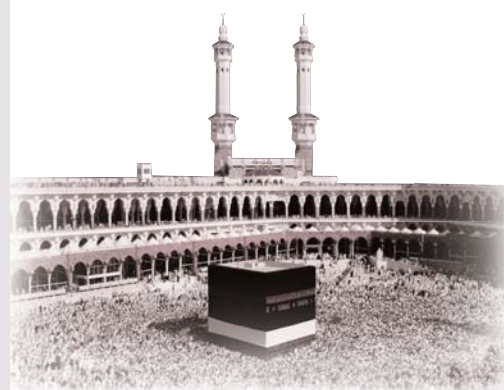
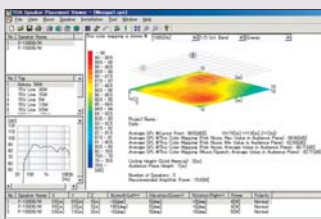
## State-of-the-Art Equipment

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.



Human Society with  
Sound & Communication

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