



# MX-6224D

Digital Mixer Amplifier

Mosque  
sound  
made simple

Pray with faith.

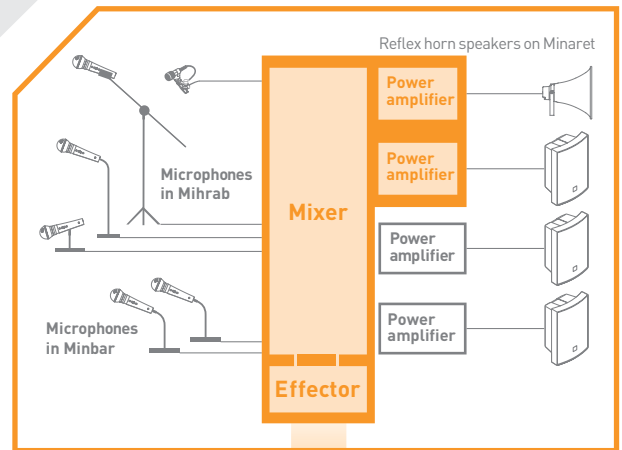


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## MX-6224D Digital Mixer Amplifier

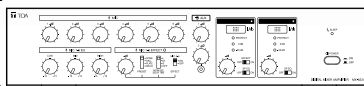
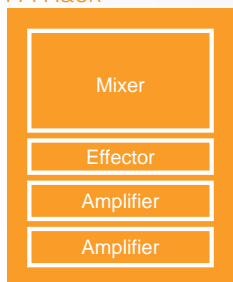
Introducing the MX-6224D, the latest digital mixer amplifier designed specifically for mosques. The MX-6224D incorporates DSP function and a two channel class-D amplifier. An optional remote controller is also available, making it simple and easy to use. The MX-6224D is the perfect choice for your mosque.



All in One



PA Rack



COMPACT

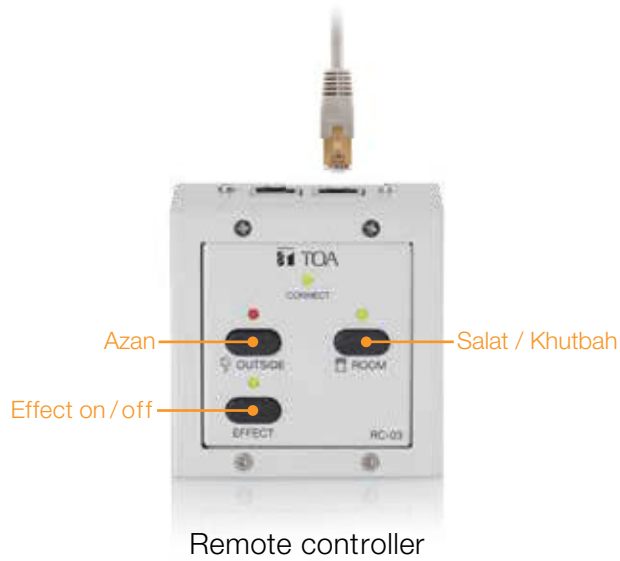
## Superior Sound QUALITY

Built-in digital amp module + DSP module, designed with state-of-the-art TOA technology.



## EASY Operation

Simply designed, compactly installed. Standardized remote controller also offers easy operation.

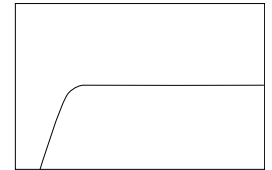


## SAFE, reliable system

Loudspeakers are less vulnerable to damage, thanks to the equipped high-pass filter.



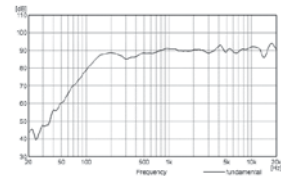
High-pass filter



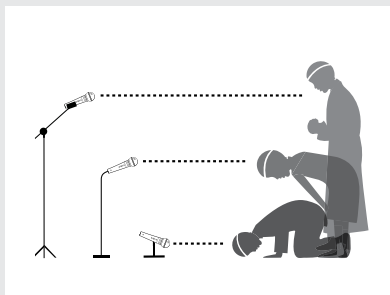
Built-in Speaker EQ optimized for TOA BS-1030 reduces acoustic feedback and ensures more intelligible voice sound.



Frequency Response



### Optimal microphone sensitivity

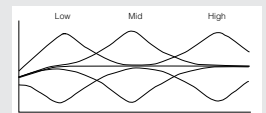


Like the left figure, since there is some distance between the microphones and the imam, the sensitivity of these microphones are higher.

Built-in effector realizes celestial sound even in small mosques.



The 3-band EQ are effective for all mic inputs.



# Connection



3-band EQ for all microphone inputs

Easy to reduce acoustic feedback

Digital effector for the microphone input 1-4/1-6

Realize enough reverberation like large mosques





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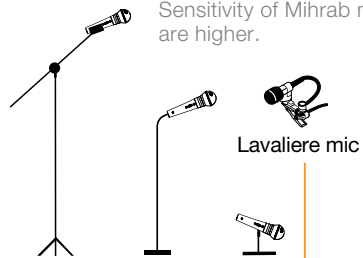
Minaret



Remote Controller  
RC-03

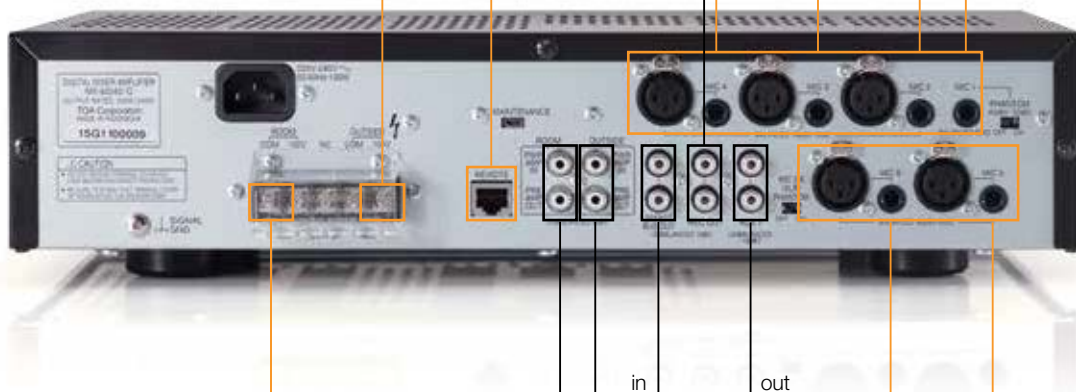
## Mihrab

Sensitivity of Mihrab microphones are higher.



Lavaliere mic

Recorder



in out

External effector



Room



Amplifier expansion



Minbar

# Digital Mixer Amplifier and Remote Controller



**MX-6224D**

**Remote Controller**

## Specifications

Power Source	220 V – 240 V AC, 50/60 Hz
Power Output	240 W x 2 channels (100 V, 42 Ω, rated output)
Power Consumption	150 W (according to IEC60065), 650 W (at rated output, both channels)
Amplification System	Class D, Output transformerless galvanic isolated output
Frequency Response	50 Hz – 20 kHz, ±3 dB (at 1/3 rated output, rated load, from power amplifier input)
Distortion	Less than 1 % THD (at 1 kHz, 1/3 rated output power)
Output Regulation	Less than 2 dB no load to full load (at 1 kHz, 1/3 rated output power)
Input	MIC 1: –50 dB* (24 V phantom powered)/ –60 dB* (phantom power OFF) 600 Ω, electronically-balanced, ø6.3 mm phone jack MIC 2 – 4: –66 dB*, 200 Ω, electronically-balanced, XLR-3-31 type and ø6.3 mm phone jack (either one usable) MIC 5 – 6: –60 dB*, 600 Ω, electronically-balanced, XLR-3-31 type and ø6.3 mm phone jack (either one usable) AUX 1: –10 dB*, 10 kΩ mixed monaural, unbalanced, RCA pin jacks (1 pair) AUX 2: –20 dB*, 10 kΩ mixed monaural, unbalanced, ø3.5 mm mini jack (3P: stereo) Power amplifier input: 0 dB*, 10 kΩ, unbalanced, RCA pin jacks (1 each for ROOM and OUTSIDE outputs)
Output	Speaker output: 2 zones, 100 V (42 Ω), galvanic isolated balanced, M4 screw terminal Recording output: 0 dB*, 600 Ω monaural, unbalanced, RCA pin jacks (1 pair) Effect bus output: 0 dB*, 600 Ω monaural, unbalanced, RCA pin jacks (1 pair) Preamplifier output: 0 dB*, 600 Ω monaural, unbalanced, RCA pin jacks (1 each for ROOM and OUTSIDE outputs)
Phantom Power	ON/OFF switchable for MIC 1 and XLR-3-31 type connectors of MIC 2 – 6
Signal to Noise Ratio	60 dB or less (All volume controls: min.)
Controls	6 Microphone volume controls, 2 AUX volume controls, 1 ROOM output switch, 1 ROOM volume control, 1 OUTSIDE output switch, 1 OUTSIDE volume control, 1 Effect control (0 to 100 %) of Effect bus, 1 Effect preset type selection switch (DOME/HALL/DELAY/PLATE), 1 Effect Room size/Delay time selection switch (OFF/small/middle/large), 1 Effect output selection switch (ROOM/ROOM+OUTSIDE), 1 MIC 5 – 6 effect switch, 1 Low EQ control (±15 dB, 80 Hz) for MIC 1 – 6, 1 Mid EQ control (±15 dB, 2.5 kHz) for MIC 1 – 6, 1 High EQ control (±15 dB, 12 kHz) for MIC 1 – 6, 1 Speaker EQ (TC-631M, TC-651M) switch for OUTSIDE output, 1 Speaker EQ (BS-1030B, BS-1030W) switch for ROOM output, 1 Power switch, 1 Phantom switch for MIC 1, 1 Phantom switch for MIC 2 – 6 (XLR-3-31)
Indicators	SLEEP indicator Output Level meters (2 points, –20 dB and 0 dB) for ROOM and OUTSIDE Protection indicators for ROOM and OUTSIDE amplifiers Output indicators for ROOM and OUTSIDE EFFECT indicator for MIC 1 – 6
Ventilation	Natural air cooling
Ambient Temperature	0 to 40 °C (32 to 104 °F)
Dimensions	420 (w) x 99 (h) x 364.8 (d) mm (16.54" x 3.9" x 14.36")
Installation Method	Desktop mount, Rack mount with mounting bracket MB-25B (option)
Weight	6.5 kg (14.33 lb)
Finish	Front Panel: Aluminum, black, alumite Case: Steel plate, black, paint

\* 0 dB = 1 V



RC-03

Equipped with 2 Ethernet RJ-45 ports.  
Maximum cable length is 200 m (218.72 yd).  
Can be connected by Category 5 twisted pair cable for LAN.

# Optional Products

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## Microphones



DM-1300  
Unidirectional Microphone

Dynamic, high-cost performance characteristic.



DM-1500  
Unidirectional Microphone

Dynamic, rigidly constructed and minimized handling noise.



EM-410  
Lavalier Microphone

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

## Indoor Speakers



BS-1030 B/W  
Wall Mount Box Speakers

2-way bass-reflex speaker with transformer for Hi (100V) impedance with 30W of rated output. Easy to install with equipped bracket. Black(B) and White(W) color variations.

## Outdoor Speakers



TC Series  
Reflex Horn Speaker

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

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



TH Series Reflex Horns  
TU Series Driver Units

To be used in combination with Horns and Driver units.

TH-650 / 660 Reflex Horns  
TU-631M (30W / 100V) Driver Unit  
TU-651M (50W / 100V) Driver Unit

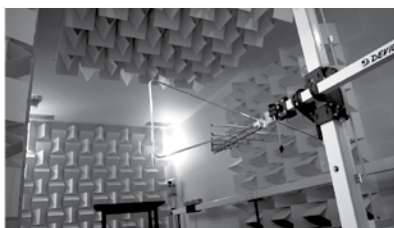
# High value of Japanese technology in both Hardware and Software

## 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.

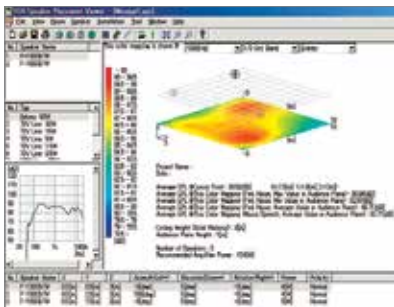
## Compliance with Laws and Regulations

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.



TOA Electronics Pte Ltd  
[www.toa.com.sg](http://www.toa.com.sg)

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