



Solutions for Hospitality Buildings

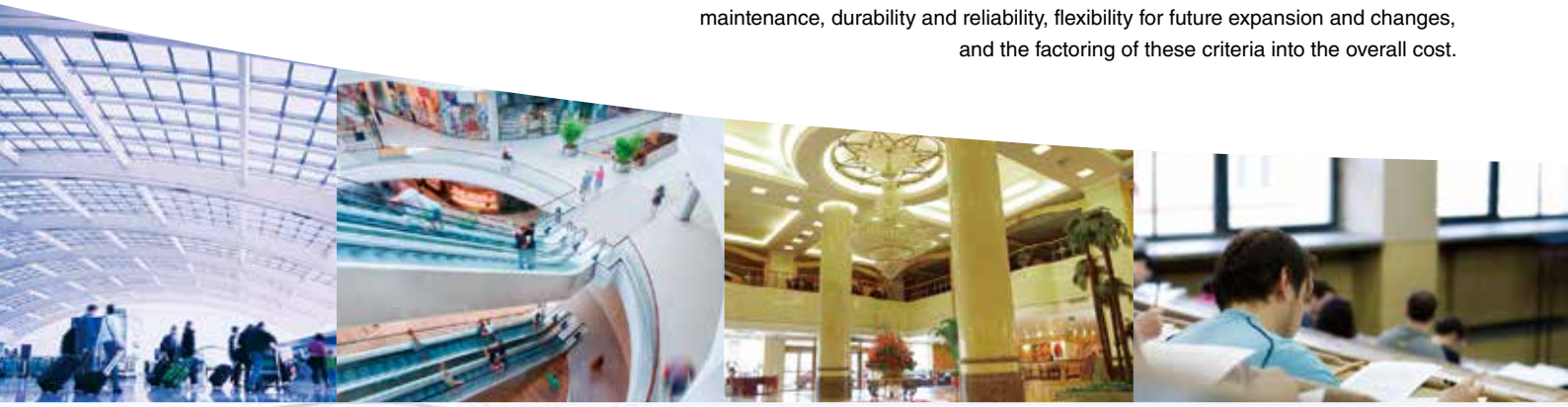
Clear and Secure Paging



*Emergency Voice Alarm Systems with Paging and Background Music Functions
8 decades of Sound & Communication and 4 decades of Voice Alarm Experience*

Distributing a Good Paging & BGM Sound

For paging to be effective, announcement must be audible. Broadcasting at the proper volume (about 6 dB to 10dB higher than the ambient noise level) and frequency range (bandwidth of approx. 200 to 7kHz, which distinguishes the consonants and vowels) ensures that the announcements can be clearly heard. Therefore, appropriate speaker selection and placement are critical to the acoustical success. TOA free acoustic simulation software (SPV) enables the right speaker selection and layout without complicated calculation. In case of significant ambient noise fluctuation, such as shopping malls, TOA Automatic Ambient Noise Controller (DP-L2) automatically adjusts the sound volume according to the ambient noise level. In the(redelete) reverberant rooms, TOA line array speakers, such as Type-H or HX-5 series, Increases the direct sound and helps to decrease reflected sound to optimize the sound clarity. The key criteria of designing a good system is clear sound, right functions, ease of installation and maintenance, durability and reliability, flexibility for future expansion and changes, and the factoring of these criteria into the overall cost.



Products for clear Paging and pleasant BGM



**RM-200M SQ
Remote
Microphone**

Places General and Selective paging with VM-2000 & VM-3000 series amplifiers. Expandable for paging zones and functions with expansion unit, RM-210.



**VM-3240 VA AMQ
(240W)
Voice Alarm System Amplifiers**

Integrated Public Address and Voice Alarm system. Expandable up to 60 speaker zones and 3,600W output power with extension amplifiers of VM-3240 E AMQ(240W).



**F-2322C(30W)
Wide-Dispersion
Ceiling Speaker**

Non-frequency dependant directivity. Well-balanced sound quality with back-can for both music and speech purposes.

The Paging Function

The purpose of an announcement is to quickly and correctly relay the information and message needed in the particular locations. Large facilities like airports or factories are divided into functional areas, each with its own announcement needs. In order for different announcements to be made simultaneously in those multiple areas, the sound system needs a matrix function of voice inputs and outputs, including a separate speaker zone for each area and microphones that allow broadcasting zone selection.

The BGM (Background Music) Function

BGM - much like architecture, design, lighting and space – is used to create a comfortable atmosphere in line with the particular needs of a facility. In retail stores, the right type of music with the right volume can induce consumers to buy. In hospital and clinics, BGM puts patients at ease and protects privacy by music masking. In factories and offices, the productivity can be increased by BGM. BGM must also automatically decrease in volume to give priority to important announcements and emergency messages.



BS-1030B/W(30W) Universal Speakers

Multi-use for Paging and BGM. Easy and quick installation. Blends into any atmosphere with color variation of black and white bodies.



PE-64/304(6W/30W) Pendant Speakers

Enables speaker mounting from a high ceiling. Extendible cable length max. 5m.

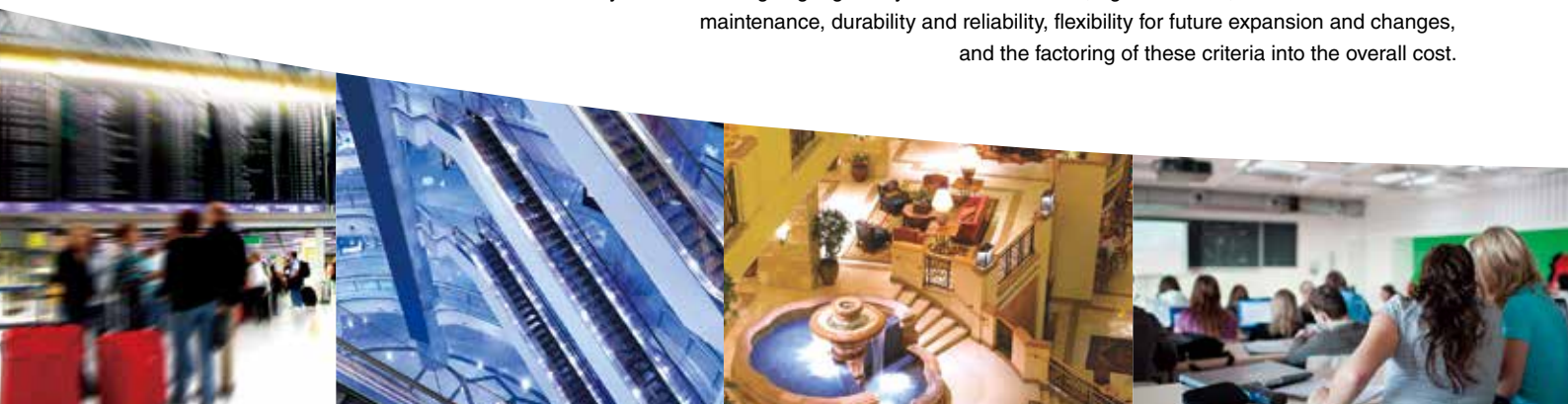


PJ-64/304(6W/30W) Projection Speakers

Flexible speaker direction changes with equipped swivel bracket. Repaintable body to fit the ambience.

Placing an Effective Voice Alarm in Emergency

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Products for secure Voice Alarm



RM-300MF
Fireman's Microphone



Places Voice Evacuation Instructions with VM-3000 series amplifiers. Expandable for expansion of paging zones, with expansion unit, RM-320F.



PC-580RU Ceiling Speaker



Fire-resistant front grill and rear iron-made dome. Certified to ULC S541, UL 1480 UUMW (Fire Alarm Signaling) and UL 2043 (use in air handling spaces) standards when using the HY-BC580U Back Can

Advantages of TOA Sound Systems

TOA offers a wide range of system equipment with combined functions for Paging, BGM, and Emergency Voice Alarm. With TOA microphones, speakers and more, it's easy to build a sound system that satisfies the optimal requirements for function, safety standard, scale, and cost. What's more, creating a sound system from the same-brand products ensures easy installation and maintenance, simple operation, greater liability, and lower costs.

It also makes it easier to expand the system to meet changing needs. With functions for clear announcements, pleasant music, and reliable emergency broadcast, TOA sound systems help building a sound environment of comfort and safety.



BS-680U (6W)
Wall-Mount Box Speaker



Constructed with metal cabinet, ideal for use of voice alarm system. Can be surface or flush mounted to the wall.

Wide-Range Product Choice for Paging, BGM and Voice Alarm Systems

Benefits of TOA System Features

- 1 **Combined functions of Paging, BGM and Voice Alarm.**
- 2 **Speaker zone grouping and selection.**
- 3 **Programmable priority order among audio inputs.**
- 4 **Pre-recorded message storage and tone signal generator.**
- 5 **Integration capability with Fire Alarm, Telephone, CCTV, and Access Control systems.**

Amplifiers



VM-2000 Series System Management Amplifier

All-in-one package amplifiers. Built-in chime, control inputs and outputs. Options of surveillance and voice announcement boards. 120VAC and 230VAC versions are available. 3Mic/line, 2 BGM, 1 tel page inputs.

Maximum System Capacity	
Output Power	2,160W
Speaker Zones	45 zones
Remote Mic connection	4 units

VM-3000 series Emergency Voice Alarm System

Compact-size multi-functioned amplifiers. Max. 15 audio inputs and 60 speaker zone outputs with 2 audio bus lines. Max. 80 control inputs and outputs for system integration. Built-in voice announcement, surveillance, tone signals and speaker zone attenuators.

Maximum System Capacity	
Output Power	3,600W
Speaker Zones	60 zones
Remote Mic connection	6 units

VX-2000 series Voice Evacuation System

Module-base sound system. Max. 18 audio inputs and 80 outputs with 4 bus lines. Max. 128 control inputs and outputs for system integration. Built-in yearly program timer for scheduled broadcasting. Options of graphic EQ, surveillance modules of speaker lines, and voice announcement board.

Maximum System Capacity	
Output Power	33,600W
Speaker Zones	80 zones
Remote Mic connection	8 units

Speakers



HX-5B/W Compact Array Speakers

2-way compact speaker system with adjustable sound dispersion. Easy installation with either bundled and optional brackets.

F-1000(15W)/1300(30W)/2000(60W) Wide-Dispersion Box Speakers

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

SC-615(15W)/SC-630 (30W) SC-651(50W) /Reflex Horn Speakers

Employing special heat-resistant and light-weighted diaphragms to ensure high durability and to improve sensitivity and speech intelligibility.

Type-H Line Array Speakers

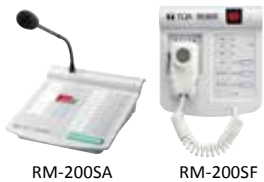
Reflection and feedback resistance design suitable for reverberant space to ensure the precise sound coverage and intelligible speech.

SR-H2/H3

6 System surveillance for failure redundancy and switch-over.

7 Emergency broadcast operation with battery power supply in case of power-failure.

8 Failure and event logging with PC connection (VM-3000, VX-2000, SX-2000).



SX-2000 series Audio Management System

Network-base sound system. Max.64 audio inputs and 256 outputs with 16 bus lines. Max.1,416 control inputs and outputs for system integration. Built in DSP function, event logger and surveillance of amplifiers and speaker lines. Max 1536 zones in combination with VM-3000.

Maximum System Capacity	
Output Power	107,520W
Speaker Zones	256 zones
Remote Mic connection	64 units

Mixer & Audio Signal Processor



DP-L2 Digital Ambient Noise Controller

Automatic adjustment of volume level of announcements in respond to changing ambient noise levels. Option: AN-9001 Ambient Noise microphone.



AN-9001 Ambient Noise Sencing Microphone



PJ-100W(10W)/PJ-200W(20W) Wide Range Speakers

High Intelligibility and durability design for both paging and back ground music.



PC-1860S(6W) Flush Mount Ceiling Speakers

Suitable for announcement and music use in high quality sound cone speaker.



BS-680FC(6W) Wall-Mount Box Speaker

Constructed with metal cabinet, ideal for use of voice alarm system. Can be surface or flush mounted to the wall.

VM-3000 Application for Office Building

Paging and BGM

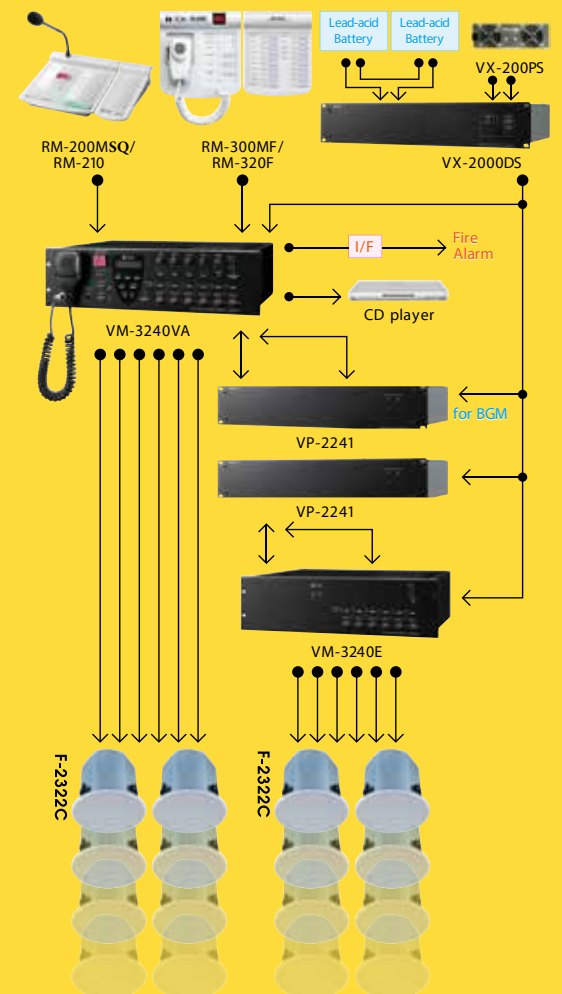
Announcements from Remote microphone (RM-200M) with pre-announcement chime and selection of broadcasting area. BGM (CD player) is automatically muted during announcement.

Voice Alarm

Emergency pre-recorded message activated by fire alarm and announcement from the Fireman's microphone (RM-300MF) are transmitted to specified areas. Normal broadcasting programs are automatically muted. In case of power failure, emergency broadcasting works with battery backup.

Surveillance

Amplifier and speaker line failures are detected with built-in surveillance function.



UL stands for Underwriter Laboratories, a third-party certification company that's been around for over a century. They certify products with the aim to make the world a safer place for both workers and consumers. Besides testing, they set industry standards to follow when innovating new products. UL provide training, advisory, testing, verification, inspection and certification services for the fire resistance products

