An integral factor in building today.

Meet the TOA VM-2000 Series — they're affordable and high-value added components for any building or site. An indispensable part of building design and management today, communications infrastructures can effectively reach various audiences through paging, calls routed to selected areas and priority emergency announcements for the entire building.

The VM-2000 Series represents a highly cost-effective solution for building management and owners. Designed specifically for effective communications in a building, VM-2000 Series units are not conventional power amplifiers with just a few added features. They're optimized to deal with emergency situations to alert building occupants as well as routine announcements and BGM.
Communications expert.

Taking advantage of TOA’s long-accumulated technological expertise and knowledge in security and audio, the VM-2000 Series is part of a select range of sound management equipment. Featuring outstanding audio performance, this range of equipment satisfies the growing need for reliable and efficient communications for various applications including office buildings, schools, shopping malls, supermarkets, factories, hospitals and transportation terminals.

Targeted at medium-sized facilities, every VM-2000 Series unit offers three line/mic inputs, 2 BGM inputs and remote mic capability as well as telephone paging. All controls and indicators are laid out in a logical, easy-to-see manner that aids operation. Tonal preferences may be set for each channel in order to optimize it to sound the best for speech or music signals. The processed input signals can then be sent on to any of five independent loudspeaker zones as desired, or automatically to all in the case of an emergency. Operation is simple and trouble-free for site staff. And the VM-2000 Series’ clean, attractive design makes it well-suited for installation in a building’s operation center equipment rack or even on a table or desk in a reception area.

Built to expand with your requirements.
The VM-2000 Series are designed with cost-effectiveness in mind, allowing for expansion as your needs grow. For instance, if the standard five loudspeaker zones are not enough, the unit can be linked to another unit for servicing an additional five zones and doubling the power output. The VM-2000 Series’ cost-effectiveness allows installation to be basic at first, then expanded as particular requirements dictate. Optional accessories and related equipment are available to meet specific requirements and enhance a unit’s operational scope. The VM-2000 Series conforms to most international emergency sound system standards and requirements such as IEC60849 (EN60849).

Remote microphone extends system control.
Adding convenience to a communications system is the RM-200M Remote Microphone that allows announcements to be made to any speaker zone and emergency announcements to all zones. These announcements can be made live or pre-recorded announcements can be activated. The remote microphone is connected by cable to the RM-210 Remote Microphone Extension unit.

Voice Announcement Board expands operational scope.
Any VM-2000 unit may be easily upgraded by installing several options such as the digital EV-200M Voice Announcement Board which offers two additional emergency announcements, five commercial announcements, and one chime in addition to the stock tones provided by every VM-2000 unit.

Intelligent self-diagnosis capability.
When a VM-2000 Series unit is fitted with the optional SV-200MA Surveillance Board, the unit gains the ability to conduct automatic system-wide checks for open or shorted speaker lines and ground leakage as well as other malfunctions, simplifying maintenance and other routine system tasks as well as instantly alerting operators when a fault occurs. And of course, the VM-2000 Series is ready for failsafe operation with back up 24V battery power to ensure uninterrupted operation.
Remote Microphone RM-200M

- **Power Source**: 24 V DC
- **Microphone**: Unidirectional electret condenser microphone
- **Function**: General-purpose Broadcast
  - Emergency Broadcast
  - Activation of voice message

Remote Microphone Extension Unit RM-210

- **Function**: Activation of Voice Announcement Board’s voice messages when controlling speakers in 10 zones at RM-200M

Voice Announcement Board EV-200M

- **Playback Mode**: Single source playback
- **No. of Playback Program**: 8 programs

Surveillance Board SV-200MA

- **Control Input and Output**:
  - Input: Speaker line initial setting activation signal
  - Output: Monitoring short or open of individual speaker line (zone 1 – 5)
  - Ground fault (insulation resistance: under 50 kΩ)
  - Power amplifier failures

Failure Detection

- Power amplifier failure: 20 kHz pilot tone detection
- Speaker line failure: 40 Hz impedance detection

Speaker Line Surveillance

- Speaker lines are automatically monitored at set time intervals

**Dimensions**

- Remote Microphone RM-200M: 190 (W) x 76.5 (H) x 215 (D) mm
- Remote Microphone Extension Unit RM-210: 110 (W) x 76.5 (H) x 215 (D) mm
- Voice Announcement Board EV-200M: 419 (W) x 143.3 (H) x 355.7 (D) mm
- Surveillance Board SV-200MA: 110 (W) x 76.5 (H) x 215 (D) mm