



# VM-3000 Series

Integrated Voice Evacuation System



With new  
features!

EN 54



**sound** without compromise

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## SECURITY WITH CONVICTION

Continuously TOA brings the knowledge gained from years of experience in the development and production of sound and security systems, which is reflected in the high reliability of many installations worldwide.

The VM-3000 series is a cost-effective integrated public address and voice alarm system engineered with powerful digital signal processor (DSP). It is designed to fulfil the EN 54 European regulation for voice alarm as well as the UL 2572 and CAN/ULC-S576 certification, which complies with new NFPA 72 code governing Mass Notification Systems. So the VM-3000 series not only ensures voice alarm in an emergency but also high quality audio broadcasting.

The compact design enables the system to fit best in various small to medium sized applications such as schools, shopping centres or restaurants.

## SYSTEM FEATURES

- > 6 – 60 assignable speaker zones
- > 240 – 3,600 watt, integrated system management amplifier
- > 4 – 13 MIC/LINE audio inputs (volume setting for each audio output)
- > 8 remote microphones max. (4x general + 4x emergency; EN 54: max. 2x emergency or 4x general + 1 x emergency)
- > 2 selectable BGM audio inputs
- > 8 priority levels
- > 1,000 system events can be logged
- > 6 high quality electronic voice messages
- > LCD display of current status and configuration settings
- > Built-in emergency microphone
- > Simultaneous broadcast of 2 emergency messages (alert and evacuation)
- > Remote maintenance via LAN
- > Continuous speaker line monitoring without interruption of BGM or paging announcements (no external amplifier required)
- > Modbus protocol ready
- > Complete fault detection and indication

# COMPACT & RELIABLE

## AT A GLANCE

- *Cost-effective integrated public address and voice evacuation system*
- *Easy installation and compact design*
- *EN 54 certified, UL 2572 and CAN/ULC-S576 listed*
- *Intuitive and userfriendly configuration through dedicated PC-Software*
- *Easy integration into existing building management systems*
- *Convenient remote maintenance saves time, effort and costs*

Maximum System Capacity	
Output Power	3,600W
Speaker Zones	60 zones
Remote Mic connection	8 units



EN 54-16 certified  
Certificate No: 1438-CPD-0180



### SYSTEM MANAGEMENT AMPLIFIER

VM-3240VA / VM-3360VA

- > 1 unit per system
- > 2 models available: 240 W or 360 W power output
- > 6 recorded general announcements and 2 recorded emergency announcements
- > 8 remote microphones max. (up to 4 emergency remote microphones)
- > 6 zones selectable from the front panel
- > Built-in high quality electronic voice message



### EXTENSION AMPLIFIER

VM-3240E / VM-3360E

- > System management amplifier can be expanded by connecting up to 9 extension amplifiers
- > 2 models available: 240 W or 360 W
- > 6 speaker line outputs
- > 8 control inputs and 8 control outputs for general purpose
- > 6 control inputs for emergency purpose and 3 control outputs for status information
- > Connection to system management amplifier via VM Link



### EMERGENCY REMOTE MICROPHONE

RM-300MF / RM-320F

- > Exclusively for broadcasts made by firemen in emergency situations
- > For activation of emergency mode, start and stop automatic broadcasts of emergency announcements, reset emergency signals and live microphone announcements
- > CPU-switch for emergency broadcast to all zones even in case of a CPU error
- > Up to 3 RM-320F extension units can be connected to the emergency microphone
- > 20 function buttons per extension unit
- > System software allows assigning of functions to the individual keys



### REMOTE MICROPHONE

RM-200M / RM-210

- > 11 function keys, 10 freely assignable
- > Zone, group and all-call paging, and activating pre-recorded messages
- > Extraordinary clarity and freedom from distortion by built-in compression circuit
- > Up to 4 RM-200M per system management amplifier
- > Up to 800m total cable length
- > RM-210: Extension unit with 10 keys with similar functions as the remote microphone



# N O R M C O M P L I A N T & S E C U R E



### SYSTEM AMPLIFIER

VP-2241INCL (1 x 240 W)

VP-2421INCL (1 x 420 W)

- > With built-in system amplifier input module VP-200VX
- > Module for transmission of status and audio signal between amplifier and control module



### PILOT TONE DETECTION MODULE

VM-300SV

- > Speaker line failure can be detected with high accuracy
- > Module for installation between the speaker line end and the emergency input terminal

### EMERGENCY POWER SUPPLY

VX-2000DS

- > Supplies the DC power to the system
- > Keeps the batteries charged
- > Ambient temperature controlled charging voltage



### POWER SUPPLY UNIT

VX-200PS

- > To supply the power to VP system amplifiers



- > Automatically switch-over in case of AC mains failure
- > Matching battery: 2 x 12V sealed lead batteries



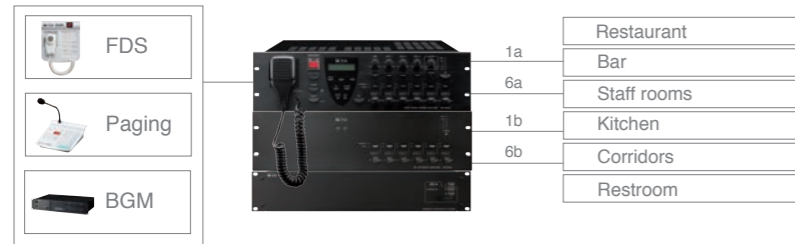
### 19" FRAME FOR VX-200PS

VX-2000PF

- > For rack mounting of up to 3 power supply units

# SYSTEM EXAMPLES

## (A) Restaurant – Standalone 6 A/B



VM-3240VA	System management amplifier
VM-3240E	Extension amplifier
VX-2000DS	Emergency power supply
RM-200M	Remote microphone
RM-300MF	Emergency remote microphone
PC-245AB-EB	AB-wiring ceiling mount speaker
BS-250AB-EB	AB-wiring wall mount speaker

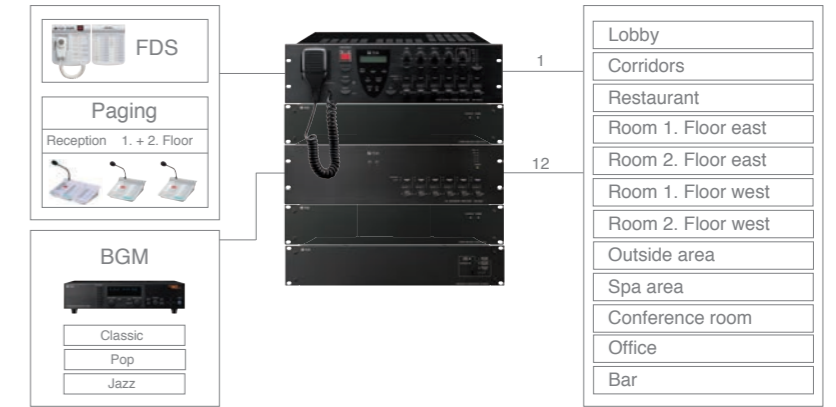
This example shows a cost-effective PA solution that is ideal suited for restaurants, bars and small shops. In addition to paging announcements and background music it also enables you to set up sound for smaller dance floors.

Different audio sources can be connected to the system manager simultaneously and be matched and adjusted in volume.

The A/B wiring speakers have 2 separate 100 V transformer and 2 speakers, which ensures the speaker is supplied by two different lines and even working in case of breakdown of one line.

## (B) Hotel – 2 audiobus system

VM-3240VA	System management amplifier
VM-3240E	Extension amplifier
VP-2241INCL	System amplifier
VX-2000DS	Emergency power supply
VX-200PS	Power supply unit
VX-200PF	19" frame for VX-200PS
RM-200M, RM-210	Remote microphone + Extension unit
RM-300MF, RM320F	Emergency remote microphone + Extension unit
M-9000M2	Digital matrix mixer
PC-1869EN	Ceiling mount speaker
PE-154BS	Pendant speaker
BS-1015BSB	Design speaker



Whether in the lobby, the hotel rooms, restaurant or spa area – the right music at the right place is crucial for the atmosphere and gives guests a good feeling.

This exemplary system shows a high-quality and flexible PA solution for hotels. It allows different music sources and volumes in different areas.

Of course also the tasks of a voice alarm system are not neglected: the integrated function for evacuation makes sure the alarm text memory is transmitted automatically.

### (A) Restaurant

### (B) Hotel

### (C) Department store

### (D) Supermarket

### Parking garage



VM-3360VA	System management amplifier
VM-3360E	Extension amplifier
VP-2421INCL	System amplifier
VX-2000DS	Emergency power supply
VX-200PS	Power supply unit
VX-200PF	19" frame for VX-200PS
RM-200M, RM-210	Remote microphone + Extension unit
RM-300MF, RM-320F	Emergency remote microphone + Extension unit
M-9000M2	Digital matrix mixer
PC-2369EN	Ceiling mount speaker
CS-154BS	Sound projection speaker
BS-678BSW	Wall mount speaker

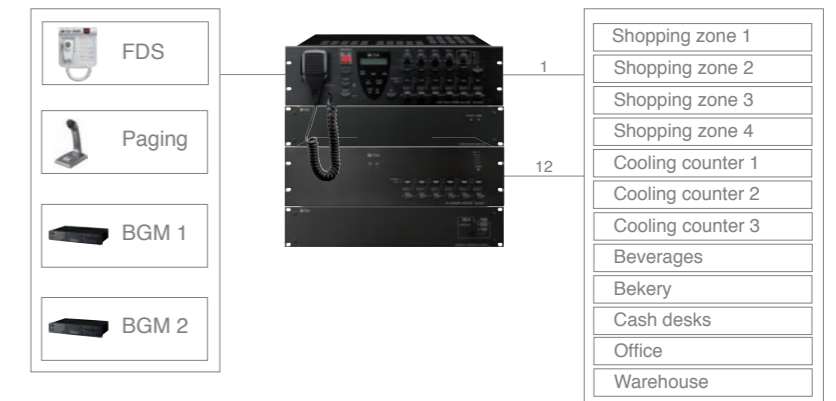
## (C) Department store – 2 audiobus system



PA systems in department stores must be suitable for background music, advertising announcements and also for general pagings. However, the music streaming has to be quiet and unobtrusive while the announcements should be loud and intelligible.

This installation will meet all these requirements and additionally considers the security aspects. Simultaneous dual broadcasting allows different messages to be available at the same time in different zones such as alert and evacuation messages. Thus ensures an orderly and rapid evacuation.

## (D) Supermarket – 1 audiobus system with extension amplifier



VM-3240VA	System management amplifier
VM-3240E	Extension amplifier
VP-2241INCL	System amplifier
VX-2000DS	Emergency power supply
PM-660D	Desktop type dynamic microphone
PC-1867FC	Ceiling mount speaker
F-1300WTWP	Design speaker
CS-64BS	Sound projection speaker

Background music in superb sound quality creates a pleasant atmosphere at the point of sale.

This example shows a system configuration that is ideally suited for the installation in supermarkets as background music and announcements can be transferred into different zones. Remote microphones in the store manager's office and at the cash desks provides crystal-clear announcements.



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