



# VM-3000 Serien

Integrerat Talat Utrymningslarm



Med nya  
funktioner!

EN 54



**sound** without compromise

[www.toa.eu](http://www.toa.eu)



## SECURITY WITH CONVICTION

Kontinuerligt har TOA delat med sig av sin kunskap från många års erfarenhet inom utveckling och produktion av ljud- och säkerhetssystem, vilket avspeglas i den höga tillförlitligheten många installationer håller över hela världen.

VM-3000-serien är en kostnadseffektiv integrerad ljudanläggning och talat larm system. Den är utformad för att uppfylla normen EN 54 europeiska förordning för talat utrymningslarm och är tillika utrustad med kraftfull digital signalprocessor (DSP). VM-3000-serien levererar inte bara talat utrymningslarm i en nödsituation, men även hög ljudkvalitet.

Den kompakta designen gör systemet bäst lämpat för små till medelstora applikationer såsom skolor, köpcentra, idrottshallar och restauranger.

## SYSTEM SPECIFIKATIONER

- > 6-60 programmerbara högtalarzoner
- > 240 - 3600 watt, integrerad centralsystem förstärkare
- > 4-13 MIC / LINE ljudingångar, volyminställning för varje ljudutgång
- > 8 fjärr mikrofoner, max 4 x allmän + 4 x larm  
EN 54, max 2 x larm eller 4 x allmänna + 1 x larm
- > 2 valbara BGM ljudingångar
- > 8 prioritetsnivåer
- > 1000 systemhändelser kan loggas
- > 6 högkvalitativa digitala röstmeddelanden
- > 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*
- *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



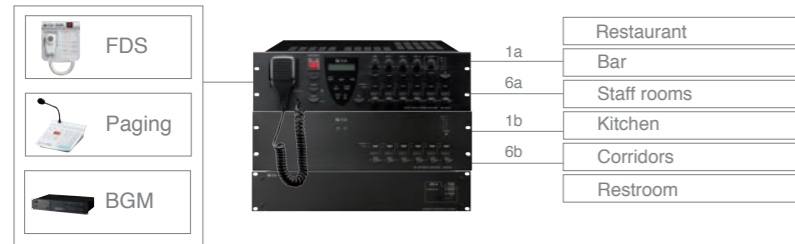
### 19" FRAME FOR VX-200PS

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    |

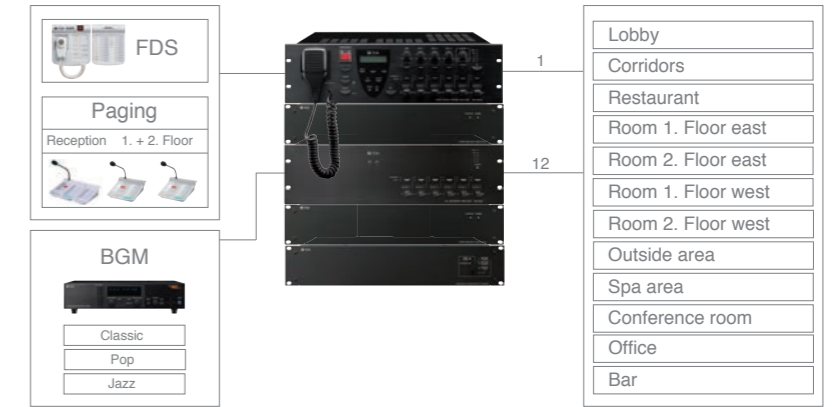
This example shows a cost-effective PA solution that is ideal suited for restaurants, bars and small shops. In addition to paging announcements and background music it also enables you to set up sound for smaller dance floors.

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                           |

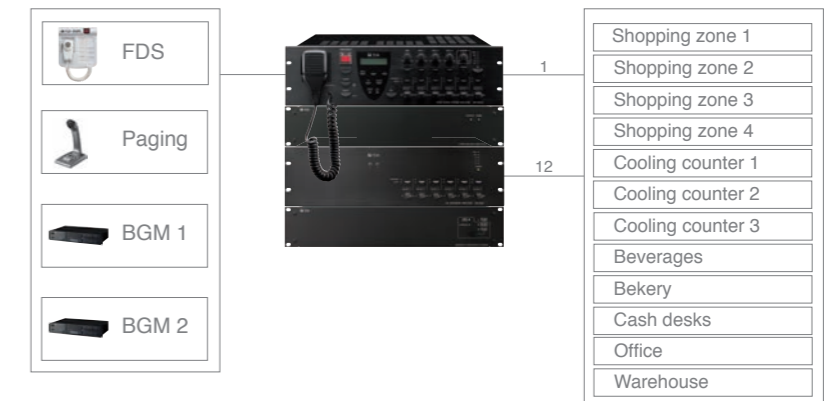
## (C) Department store – 2 audiobus system



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.



**TOA Electronics Europe GmbH**  
[www.toa.eu](http://www.toa.eu)

Specifications are subject to change without notice.  
Printed in Germany (1503) 833TEEC248