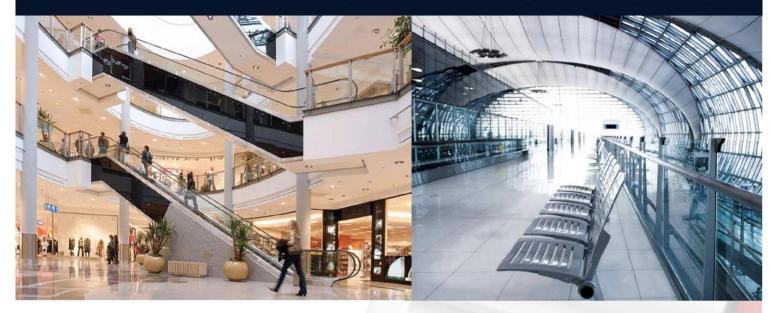


## VM-3000 SERIES INTEGRATED VOICE EVACUATION SYSTEM



Fully EN 54 certified All In One Voice Alarm Emergency Evacuation system with Audio PA, Paging and BGM

### High-quality, compact public address system also features safety-enhancing emergency ev



## SYSTEM FEATURES

- Max. 13 MIC/LINE Inputs (VM-3240VA/3360VA: 4 MIC/LINE Inputs, VM-3240E/3360E: 9 Local Inputs)
- 2 BGM inputs
- Up to 4 Fireman's/Remote Microphones connectable (max, 2 Fireman's Microphones)
- Max. 60 assignable speaker zone outputs (6 outputs per amplifier)
- Volume setting possible for each zone
- Digital audio processed & controlled
- Full digital audio mixing (DSP)
- · Built-in high quality electronic voice message
- Intuitive configuration
- Zone setting, priority setting, failure detection setting by dedicated PC software
- LCD display of current status and configuration setting of system units

#### **Emergency functions**

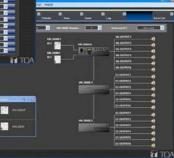
- Continuous speaker line monitoring without interruption of BGM distribution or paging announcements
- Complete fault detection and indication
- Off-site log check capability via LAN
- Built-in and remote Fireman's Microphones
- Built-in voice alarm message
- 2-Phased voice alarm message (Alert and Evacuation) broadcasting

#### **Paging functions**

- 2 Remote Microphone interface lines
- Paging (All zones/Group/Individual)
- 2-channel broadcast with external amplifier (Paging/BGM)

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## for small and medium venues acuation functions.



Integrated Voice Evacuation System

https://trungchinhaudio.vn

TOA, which boasts 50 years' experience in the development of emergency broadcast systems worldwide, now introduces a system that fully integrates emergency and general-purpose broadcast functions. The TOA VM-3000 Series is an EN 54 Standard-compliant combined emergency voice alarm system and public address system that was developed as part of the Venas Integrated Voice Evacuation System family. TOA has developed and will continue to develop emergency broadcast systems, always ensuring that its products comply with the voice evacuation safety standards, established by the countries where those products are used.

The VM-3000 Series is ideal for small and medium-sized applications. It incorporates such emergency functions as continuous speaker line monitoring and a built-in voice alarm. This easy-to-install system also offers PA broadcasting, paging and BGM functions that ensure consistently high intelligibility.

The VM-3000 Series is digitally audio processed and controlled, and may be set up and operated directly by using the controls and LCD display on the front panel. A dedicated PC software configuration capability is also provided for establishing settings via LAN. The incorporation of wide-ranging functional capabilities, superb reliability and versatility make the VM-3000 a highly cost-effective emergency broadcast system.



# for small and medium venues acuation functions.



#### SPECIFICATIONS

SPECIFICATIO	VM-3240VA	VM-3360VA	VM-3240E	*CdB = *		
	Voice Alarm System Amplifier	Voice Alarm System Amplifier	VM Extension Amplifier	VM Extension Amplifier		
Power Source		230V AU	c, 50/60 ⊣z			
Power Consumption	60CW (with rated output signal), 26CW (according to EN60365)	850W (with rated output signal), 360W (according to ≣N60065)	600W (with rated output signal), 260W (according to EN60065)	850W (with rated output signal), 380W (according to EN60065)		
Rated Output	24CW	360W	240W	360W		
requency Response		50 – 20,000 Hz, ±3dl	B (at 1/3 ratec output)			
listortion		Under 0,7% (at ra	ated output, 1KHz)			
/N Ratio		Over	85cB			
Audio Input/Output Characteristic	Sampling tree A/D D/A CON			-		
Input	combined XLR connec Input 4: -50cB* (MIC)/-10 dB (LINE) (cra removable termin BGM 1 – 2: -10 dB, 10kΩ	hangeable) 6000, electronically balanced for (female) obcho ack angeable) 6000, electronically balanced rat block(14 pins) unbalanced. RCA pin jack removable terminal block(14 pins)		(MIC)/+10dB* (LINE) removable terminal block (14 pins)		
Output	Speaker output 1 – 6: Total within 2-0W, removable terminal block (14 pins) Direct output: Pirect output from internal or exiemal amplifier, removable arminal block (16 pins) Hecording output BGM / Paging: uder, 104Q, unbalanced, RCA pin ack	Speaker output: 1 – C: Total within 360W, removable terminal block (14 pins) Direct cutput: Direct cutput. from internal or external amolifier, removable terminal olcck (16 pins) Recording output BCM Flag hg; OB*, 1043, unbalanced, RCA pin jack	Speaker output 1 – G Total within 240W, removable terminal block (14 p ns) Dired, output : Direct output if orn internal or external amplifier, removable terminal block (16 pins)	Speaker output 1 – 6: Total with in 360W, removable terminal block (14 pins) Drec. output : Direct output from hemal or external amplifier, removable terminal block (16 pins)		
RM Link	R.45 femal	)MF/RM-200M Remole Microphone. e connector islee-Pair straight caple (CAT5-STP)	-	-		
Network <b>V</b> F	10 BASE-1/100 BASE-1X (select RJ45 female Link cable: Category 5 Shielced wi			_		
VM Link		r VM-3360E, RJ45 fornald connector sted-Pair straight cable (CAT5-STP)	Ou.pu.: Connecting the VIV-3240 C	r VM-3360VA, RJ45 female connector or VM-3360F, RJ45 female connector istod-Paristraight cable (CAT5-STP)		
E <b>XT</b> PA Link			I, HJ45 female connector /isted-Pair straight cable (CAT5-STP)			
General Control		e make contact input, open voltage: 24V DC, per collector ou put, withs and voltage: 30V D				
Emergency Control	Inc	oltage make contact input, open voltage : 24 but 6 Isolated voltage input: Inactive -24V ± Relay contact output, withstand voltage: 40V I	20%/Active; +24V ±20%, RJ45 female conn	ector		
ATT Control		Relay contact 1-6, 125V AC or 30V DC, to	otal under 5A iremovable terminal block (16	pins)		
Power Input/Output	Power in: Connecting the VX-2000DS (operating range: 20 - 407 DC) PS cut: DC 287 18A M1 Screeviteminal distance between barriers 11 mm	Power in: Conneeing the VX-2000DS (cerating range: 20 - 40V DC) 1/S out: DC 26V/24A M4 Sprewiterminal distance between barriers 11 mm	Power in: Connecting the VX-2000DS (operating range 20 - 40V DC) 1/S out: DC 29V/18A M4 Screw terminal distance between partiers 11 mm	Prover in: Connecting the VX-2000DS (sperating range 20 - 40V DC) 1/S out: DC 29V/24A M/ Screw terminal distance between barriers 11 mm		
DC24V Output		24V DC, Maximur	feeding current C,3A			
OS Link			0S_RJ45 lemale connector /isted=Pair straight cable (CA15-S_P)			
Operating Temperature		-5°C to	0 +45℃			
Operating Humidity		5% to 95%BH (r	no concensalion)			
Dimensions	482 (W) × 132,6 (	(H) × 431.2 (D)mm	482 (W) × 132,6	(H) × 407 (D)mm		
Velght	16.5kg	19kg	16.5*g	19kg		
Accessories		ware (CD) < 1, Link cable (Sm) > 2, screw < 4, Fin ergency microphone × 1. . Removable lerminal plug (16 pins) × 1	Power cable (2m) × 1, Link cable (3m) × 2, Plastic foot > 4, Plastic foot mounting screw × 4, Removable terminal plug (14 pins) × 3. Removable terminal plug (16 pins) × 1			
Option	Inout transfo	ormer:   -450				







VM-3240E/3360E

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#### Power Sou Current Co Frequency Distortion S/N Ratio Microphon Volume Co Connection

	Fireman's Microphone	Fireman's Microphone Extension
Power Source	24V DC (operating range: 15 – 40V DC, supplied from the VM-3000 system or VX-2000DS.)	
Current Consumption	120mA (RM-300MF). 660mA (with 3 RM-320F connected)	150mA max, (RM-320F)
Frequency Response	200 – 15,000 Hz	-
Distortion	Under **.	—
S/N Ratio	Over 55 cB	-
Microphone	Unidirectional dynamic microphone with talk key, compressor (on off switchable)	—
Volume Control	Microphene volume control - Ruzzer volume control	-
Connection Cable	Main line: shickded CPE7 cable (each one pair o' Audio line, Data line, Pewerist poly Ine) or Calegory 5 Shielded Twisted-Pair cable for LAN (CA15-Siri), M3 screw terminal	-
No. of Connectable RM-320F	Max 3 units	
No of Funtion Keys		20
Operation	Emergency key, Evacuate key, Alert key, Emergency reset key, CPU switch, Reset switch	-
Operating Temperature	-5°C to 45°C	
Operating Humidity	5% to 95% Fill (no condensation)	—
Finish	ABS resin, blue'sh gray	ABS resin, blueish gray
Dimensions	200(W) x 215(H) x 82.5(D) mm	175(W) x 215(H) x 70(D) mm
Weight	1.1kg (with wall mounting bracket unit)	7 <b>10</b> g
Accessories	Wall mounting bracket unit x 1. Wall mounting screw x 2, Electrical box mounting screw x 2	Wall mounting bracket x 1, Wall mounting screw x 2





	RM-200M Remote Microphone	RM-210 Remote Microphone Extension
Power Source	2 IV DC (operating range: 14 – 28V DC) Power input jack. Non-polarity type Usable power input plug <sup>42</sup> : Outer d'ameter ø5,5mm, inner diameter: ø2,1mm, length: 9,5mm.	—
Current Consumption	Under 100mA	20mA max, (in terms of RM-200VI's DC power input)
Audio Output	CdB*: €00Ω, balanced	—
Frequency Response	100 – 20,000 Hz	-
Distortion	Under 1%	
S/N Ratio	Over 60 cB	—
Micropho <b>n</b> e	Unidirectional electret concenser microphone	-
olume Control	Microphone volume control	—
Connection Cable and Connection	Category 5 Shielded Twisted-Pair cable, 3J45 connector	—
No of Funtion Keys	10	10
Finis <b>h</b>	ABS resin, blue'sh gray	ABS resin, blueish gray
Dimensions	190(W) x 76,5(H) x 215( J) mm (Gooseneck m crophone excluded)	110(W) × 76.5(H) × 215(D) mm
Weight	/50g	350g
Accessory	CATS cable × 1	CATS cable x 1
Option	Wall mounting bracket: WB-RM200	Wall mounting bracket: WB-RM200

\* 0dB = 1V \*<sup>2</sup> Use the AC adapter AD-246 or equivalent,

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#### SYSTEM EQUIPMENT

VP-2241 (240 W × 1) VP-2421 (420W × 1)

Power Amplifier

Power Amplifier uses the VP-200VX Power Amplifier Input Module per channel.



#### VX-2000DS

#### **Emergency Power Supply**

The VX-2000DS Emergency Power Supply Unit supplies the DC power to VP amplifiersteach equipment, the VM-3000 system by connecting the VM-3240VA/E/VM-3360VA/E and VX-200PS Power Supply Unit, (Optional)



#### **VX-200PS**

**Power Supply Unit** The VX-200PS Power Supply Unit is mounted in the VX-2000PF Power Supply Frame when in used.



#### VX-2000PF

#### Power Supply Frame

The VX-2000PF permits the VX-200PS Power Supply Unit to be mounted in an equipment rack. Up to 3 VX-200PS units can be installed in the unit.



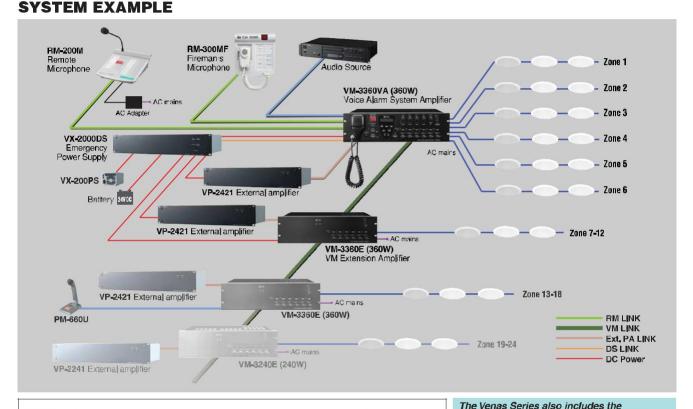
#### VM-300SV

#### **Pilot Tone Detection Module**

Speaker line failure can be detected with high accuracy when a VM-300SV unit



specifically designed for 100V speaker line is connected between the speaker line end and the emergency input terminal of the VM-3240VA, VM-3360VA, VM-3240E, or VM-3360E.



EN 54

EN 54 is a standard of the European Union (EU) for fire alarm systems, ensuring high product quality and reliability, and enabling better integration of Voice Alarm (VA) and Public Address (PA). EN 54 plays a significant role in the market for voice evacuation equipment, as the member states of the European Union replace their local standards with

the EN 54 standard. All emergency voice evacuation systems marketed in the members states of the European Union are required to be certified to this standard.

The VM-3000 system is certified on the European Norm EN 54-16 with CPD number 1438-CPD-0180.

The VX-2000DS (ER/UK version) Power manager and VX-200PS (ER/UK version) power supply are certified on the European Norm EN 54-4 with CPD number 1134-CPD-083.





Human Society with Security & Communication

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