

**TOA****VOICE ALARM SYSTEM AMPLIFIER  
240W****VM-3240VA  
(CE/CE-GB/SA)****DESCRIPTION**

The VM-3240VA is a multifunctional amplifier that can be mounted in an EIA-Standard equipment rack (3-unit size). The unit comes with audio inputs including the background music input, and the speaker output section which has an internal attenuator and 6-output selector. It permits not only general-purpose broadcast, but also Emergency broadcast based on the EN60849 Standard which gives pre-recorded voice instructions in the emergency situation. Emergency broadcast can be made from an optional RM-300MF Fireman's Microphone as well as from the amplifier, and can be remotely controlled from external equipment. In addition, the unit features the surveillance function which automatically checks the system for failures.

**SPECIFICATIONS**

\* 0 dB = 1 V

Version	CE/CE-GB	SA
Power Source	230 V AC, 50/60 Hz	220 - 230 V AC, 50/60 Hz
Power Consumption	600 W (with rated output signal), 260 W (according to EN60065)	
Rated Output	240 W	
Frequency Response	50 Hz - 20 kHz, $\pm 3$ dB (at 1/3 rated output)	
Distortion	0.7 % or less (at rated output, 1 kHz)	
S/N Ratio	85 dB or more	
Audio Input/Output Characteristic	Sampling frequency: 48 kHz A/D D/A converter: 24 bit	
Input	Input 1 - 3: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 $\Omega$ , electronically balanced, combined XLR connector (female)/phone jack Input 4: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 $\Omega$ , electronically balanced, removable terminal block (14 x 2 pins) BGM 1 - 2: -10 dB*, 10 k $\Omega$ , unbalanced, RCA pin jack External amplifier input: 100 V line, removable terminal block (14 pins)	
Output	Speaker output 1 - 2: Max. (240 W) per output Speaker output 3 - 6: Max. (120 W) per output Speaker output 1 - 6: Total within 240 W, removable terminal block (14 pins) Allowable minimum load: 500 $\Omega$ (20 W) at 100 V line for speaker line failure detection Direct output: Direct output from internal or external amplifier, removable terminal block (16 pins) Recording output BGM/Paging: 0 dB*, 10 k $\Omega$ , unbalanced, RCA pin jack	
RM Link	Input 1 - 2: Connecting the RM-300MF/RM-200M Remote Microphone. RJ45 female connector Maximum distance: Total 800 m (874.89 yd) between this unit and remote microphones Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)	
Network I/F	10BASE-T / 100BASE-TX (selectable by automatic negotiation), RJ45 female connector Maximum distance: 100 m (109.36 yd) between this unit and a switching hub Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)	
VM Link	Output: Connecting the VM-3240E or VM-3360E, RJ45 female connector Maximum distance: 800 m (874.89 yd) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)	
EXT PA Link	Connecting the VP-2241 or VP-2421, RJ45 female connector Maximum distance: 5 m (16.4 ft) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)	
General Control	Input 1 - 8: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA or less, removable terminal block (14 x 2 pins) Output 1 - 8: Isolated open collector output, withstand voltage: 30 V DC, operating current: 10 mA or less, removable terminal block (14 x 2 pins)	
Emergency Control	Input 1 - 5: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA or less, RJ45 female connector Input 6: Isolated voltage input, Inactive: -24 V $\pm 20$ %, Active: +24 V $\pm 20$ %, RJ45 female connector Status out: Relay contact output, withstand voltage: 40 V DC, operating current: 2 - 300 mA, RJ45 female connector	
ATT Control	Relay contact 1-6, 125 V AC or 30 V DC, total under 5 A, removable terminal block (16 pins)	
Power Input/Output	Power in: Connecting the VX-2000DS only (operating range: 20 - 40 V DC) PS out: 28 V DC/18 A M4 screw terminal, distance between barriers: 11 mm (0.43")	
DC24V Output	24 V DC, Maximum feeding current 0.3 A	
Ds Link	Connecting the VX-2000DS, RJ45 female connector Maximum distance: 5 m (16.4 ft) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)	
Operating Temperature	-5 $^{\circ}$ C to +45 $^{\circ}$ C (23 $^{\circ}$ F to 113 $^{\circ}$ F)	
Operating Humidity	5 % to 95 %RH (no condensation)	
Finish	Panel: Aluminum, hairline, black Case: Surface-treated steel plate, black, paint	
Dimensions	482 (W) x 132.6 (H) x 431.2 (D) mm (18.98" x 5.22" x 16.98")	
Weight	16.5 kg (36.38 lb)	
Accessory	Power cable (2 m (6.56 ft)) ...1, Setting software-CD ...1, Link cable (3 m (9.84 ft)) ...2, Plastic foot ...4, Plastic foot mounting screw ...4, Removable terminal plug (14 pins) ...3, Removable terminal plug (16 pins) ...1, Emergency microphone (hand-held type) ...1	
Option	Input transformer: IT-450	



# VOICE ALARM SYSTEM AMPLIFIER 240W

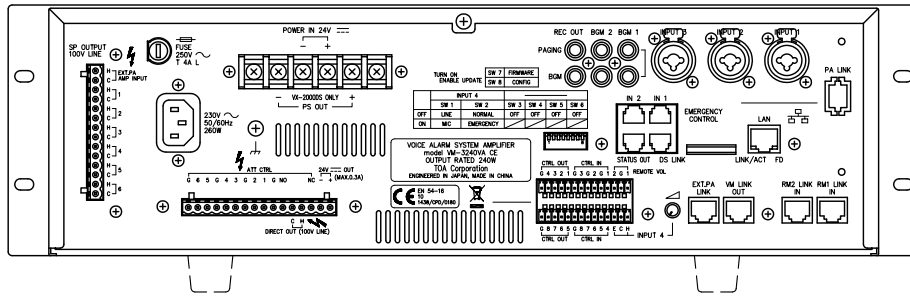
## VM-3240VA (CE/CE-GB/SA)

### ■ APPEARANCE

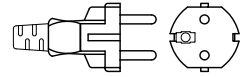
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Rear View

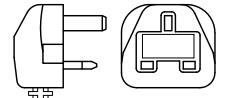
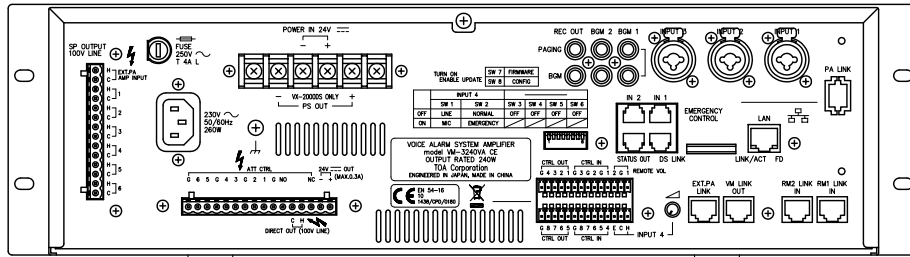
CE version



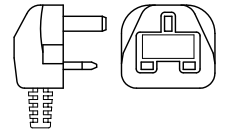
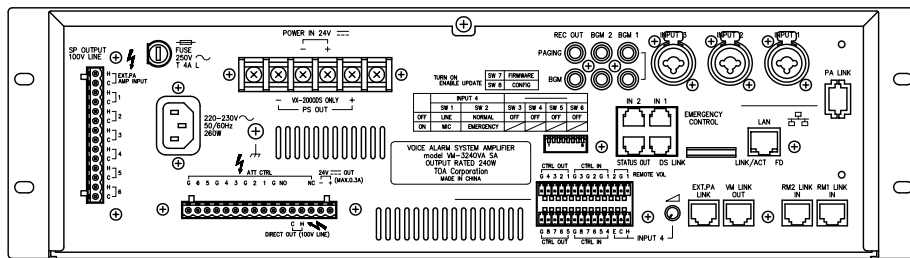
AC plug



CE-GB version



SA version



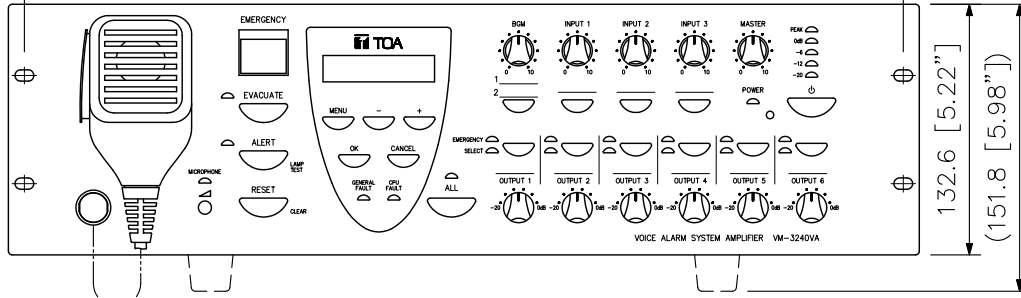
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465 [18.31"]

Front View

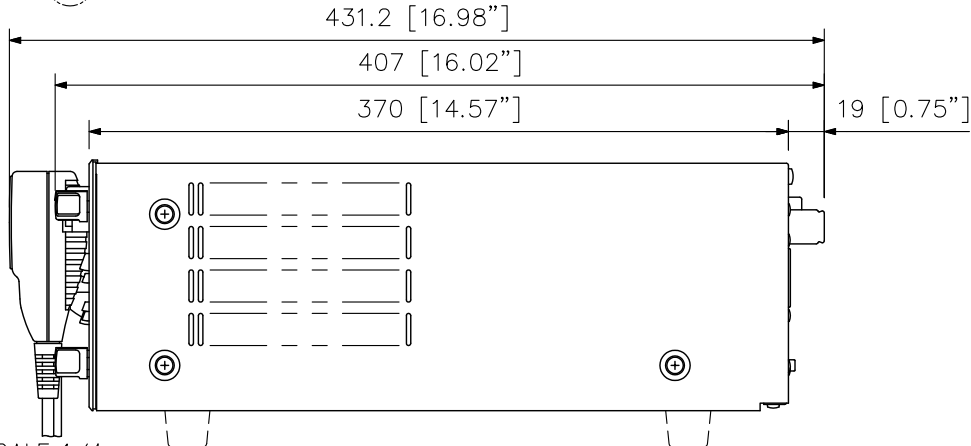
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132.6 [5.22"]  
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Side View

UNIT: mm SCALE: 1/4



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