

## VOICE ALARM SYSTEM AMPLIFIER 240W

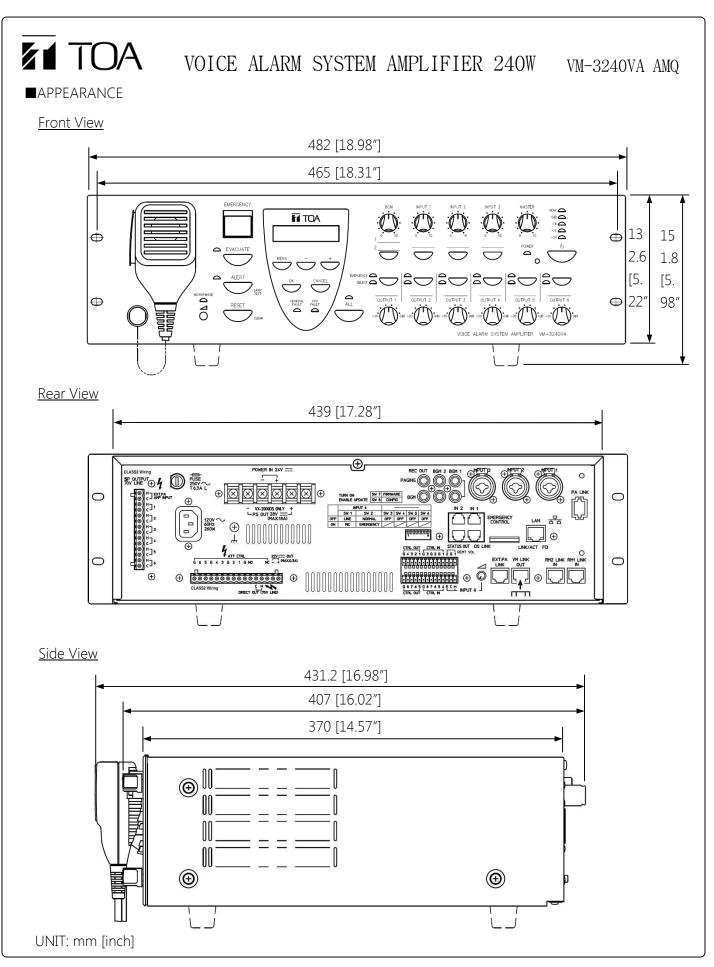
VM-3240VA AMQ

## **■**DESCRIPTION

The VM-3240VA is a voice alarm system controller with one 240W power amplifier. It can be mounted in an EIA-Standard equipment rack (3RU). The unit is equipped with analog audio inputs for music distribution, paging announcements or pre-recorded audio source playback. Its speaker output section has 6 individual zone selectors with corresponding volume controls. Up to 6 general messages/tones and 4 emergency messages/tones may be uploaded to and stored on the VM-3240VA. Non-emergency messages can be prioritized (7 levels) and triggered by an RM-200M paging microphone or external contact closures. Emergency broadcasts override all non-emergency operations and are triggered from the front panel or a contact closure. All emergency system connections are monitored. When installed per the manual, the VM-3240VA is fully compliant with NFPA72 requirements and listed to UL2572, ULC-S576 and UL864 for Mass Notification and Fire Voice applications.

## ■ SPECIFICATIONS

Power Source	120 V AC, 60Hz
Power	690 VA (at rated output), 260 W (according to UL60065), 63 W (at no signal)
Consumption	
Rated Output	240 W, 21 Ω (UL60065)
	200 W, 25 Ω (UL2572)
	200 W, 25 $\Omega$ (CAN/ULC-S576 with separate UPS)
	100 W, 50 Ω (CAN/ULC-S576)
	Total amplifier output (1-6 and Direct Output)
Frequency	50 Hz – 20 kHz, ±3 dB (at 1/3 rated output), 800 Hz – 2.8 kHz (according to UL2572)
Response	400 Hz – 4 kHz (according to CAN/ULC-S576)
Distortion	0.7% or less (at rated output, 1 kHz)
S/N Ratio	85 dB or more
Audio Input/Output	Sampling frequency: 48 kHz
Characteristic	A/D D/A converter: 24bit
Input	Input 1 – 3: $-50 \text{ dB*}$ (MIC) / $-10 \text{ dB*}$ (LINE) (changeable), $600 \Omega$ , electronically balanced,
	combined XLR connector (female) / phone jack
	Input 4: $-50 \text{ dB* (MIC)}$ / $-10 \text{ dB* (LINE)}$ (changeable), $600 \Omega$ , electronically balanced,
	removable terminal block (14 pins)
	BGM 1- 2: $-10 \text{ dB*}$ , 10 kΩ, unbalanced, RCA pin jack
	External AMP Input: 70 V line, removable terminal block (14 pins)
Output	Speaker output 1 – 2: Max. (240W) per output
	Speaker output 3 – 6: Max. (100W) per output
	Speaker output 1 – 6: Total within rated output, removable terminal block (14 pins)
	Recommended minimum load: 245 Ω (20 W) at 70 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 Ground fault detection: 0 $\Omega$
	Ground fault detection: 0 $\Omega$ Wire to wire fault detection: 0 $\Omega$
RM Link	Input 1 – 2: Connection to RM-300MF/200M Remote Microphone, RJ45 female connector
INIVI LITIK	Maximum distance: Total 800 m between this unit and remote microphones
	Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
Network I/F	10BASE-T/100BASE-TX (automatic negotiation), RJ45 female connector
Trettronk 1/1	Maximum distance: 100 m between this unit and a switching hub
	Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
VM Link	Output: Audio and control link to a VM-3240E extension amplifier, RJ45 female connector
	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 pins)
	Output 1 – 8: Isolated open collector output, withstand voltage: 30 V DC,
	operating current: 10 mA or less, removable terminal block (14 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±20%, Active: +24 V±20%, RJ45 female connector
	Status out: Relay contact output, withstand voltage: 40 V DC, operating current: 2 – 300 mA, RJ45 female connector
Power Input/Output	Power in: From VX-2000DS only (operating range: 20 – 40 V DC)
	PS out: 28 V DC / 18 A
	M4 screw terminal, distance between barriers: 11 mm
22 V DC Output	22 V DC Special Application, Maximum feeding current 0.3 A (for RM-200M only)
DS Link	To local VX-2000DS, RJ45 female connector
	Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
Operating	0 to 49°C (32 to 120°F)
Temperature	F0(+, 0F0(-D)) ( - , - , - , - , - , - , - , - , - , -
Operating Humidity	5% to 95% RH (no condensation)
Finish	Panel: Aluminum, hair-line, black
D: .	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)
*0 dB = 1 V	



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