



VOICE ALARM SYSTEM AMPLIFIER 240W

VM-3240VA(SA)

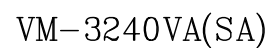
DESCRIPTION

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

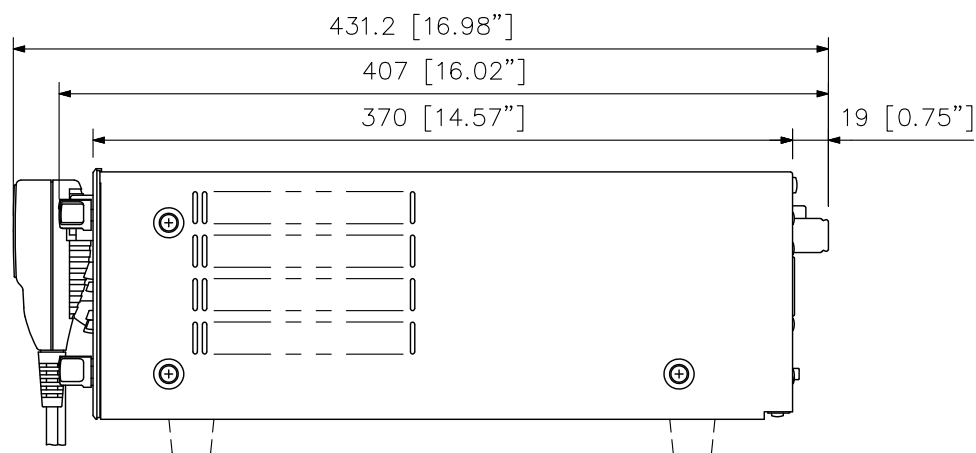
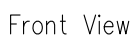
Power Source	220 - 230 V AC, 50/60 Hz
Power Consumption	600 W (with rated output signal), 260 W (according to EN60065)
Rated Output	240 W
Frequency Response	50 Hz - 20 kHz, ± 3 dB (at 1/3 rated output)
Distortion	0.7 % or less (at rated output, 1 kHz)
S/N Ratio	85 dB or more
Audio Input/Output Characteristic	Sampling frequency: 48 kHz A/D D/A converter: 24 bit
Input	Input 1 - 3: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 Ω , electronically balanced, combined XLR connector (female)/phone jack Input 4: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 Ω , electronically balanced, removable terminal block (14 x 2 pins) BGM 1 - 2: -10 dB*, 10 k Ω , 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 Ω (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 Ω , 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 ± 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
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)) $\cdots$ 1, Setting software-CD $\cdots$ 1, Link cable (3 m (9.84 ft)) $\cdots$ 2, Removable terminal plug (14 pins) $\cdots$ 3, Removable terminal plug (16 pins) $\cdots$ 1, Emergency microphone (hand-held type) $\cdots$ 1, Plastic foot $\cdots$ 4, Plastic foot mounting screw $\cdots$ 4
Option	Input transformer: 1T-450



The rear panel of the MA-3200A-1A amplifier features the following components:

- SP OUTPUT / TOW LINE:** A 16-pin connector for speaker outputs.
- POWER IN 24V:** A 4-pin connector for power input.
- PS OUT:** A 4-pin connector for power supply output.
- 220-230V / 50 HZ/60 HZ 250W:** A power switch and rating label.
- ATT CTRL:** A 16-pin connector for attenuation control.
- 24V OUT (MAX 3A):** A 16-pin connector for 24V output.
- DIRECT OUT (TOW LINE):** A 16-pin connector for direct output.
- TURN ON ENABLE UPDATE:** A 4-pin connector.
- SW 7 FIRMWARE CONFIG:** A 4-pin connector.
- REC OUT BOM 2 BOM 1:** Two 4-pin connectors for recording outputs.
- PAZING:** A 4-pin connector.
- IN 2 IN 1:** A 4-pin connector.
- EMERGENCY CONTROL:** A 4-pin connector.
- LAN:** A LAN port.
- LINK/ACT FID:** A 4-pin connector.
- VOICE ALARM SYSTEM AMPLIFIER:** A 4-pin connector.
- PHONE MA-3200A-1A:** A 4-pin connector.
- OUTPUT RATES 240W:** A 4-pin connector.
- TOTAL CONNECTION:** A 4-pin connector.
- MADE IN CHINA:** A label.
- STAND OUT DIS LINK:** A 4-pin connector.
- EXTRA LINK:** A 4-pin connector.
- VM LINK OUT:** A 4-pin connector.
- PAZ LINK IN:** A 4-pin connector.
- PAZ LINK IN:** A 4-pin connector.
- INPUT 4:** A 4-pin connector.

AC plug



Side View

DWG No: GVM01KC1-1