# VM EXTENSION AMPLIFIER 240W VM-3240E AMQ

## ■DESCRIPTION

The VM-3240E is a 240 Watt extension amplifier for use with the VM-3000 Voice Alarm System. It can be mounted in an EIA-Standard equipment rack (3 RU). The extension amplifier receives audio and control signals from the VM-3240VA through the VM buss. One local analog audio input is available. Up to six paging zones may be assigned to each amplifier (subject to max power as shown below). When installed per the manual, the VM-3240E is fully compliant with NFPA72 requirements when used with VM-3240VA AMQ and is listed to UL2572, ULC-S576 and UL864 for Mass Notification and Fire Voice applications.

## ■SPECIFICATIONS

| | |
|---|---|
| Power Source | 120 VAC, 60Hz |
| Power Consumption | 690 VA (at rated output), 260 W (UL60065), 63 W (no signal) |
| Rated Output | 240 W, 21 Ω (UL60065)<br>200 W, 25 Ω (UL2572)<br>200 W, 25 Ω (CAN/ULC-S576 with separate UPS)<br>100 W, 50 Ω (CAN/ULC-S576)<br>Total amplifier output (1 – 6 and Direct Output) |
| Frequency Response | 50 Hz – 20 kHz, ±3 dB (1/3 rated output), 800 Hz – 2.8 kHz (UL2572)<br>400 Hz – 4 kHz (CAN/ULC-S576) |
| Distortion | 0.7% or less (at rated output, 1 kHz) |
| S/N Ratio | 85 dB or more |
| Input | External amplifier Input: 70 V line, removable terminal block (14 pins)<br>Local Input: –50 dB* (MIC) / –10 dB* (LINE) (changeable), 600 Ω, electronically balanced, removable terminal block (14 pins) |
| Output | Speaker output 1 – 2: Max. (240W) per output<br>Speaker output 3 – 6: Max. (100W) per output<br>Speaker output 1 – 6: Total within rated output, removable terminal block (14 pins)<br>Recommended minimum load: 245 Ω (20 W) at 70 V for speaker line failure detection<br>Direct output: Direct output from internal or external amplifier, Removable terminal block (16 pins) |
| VM Link | Input: From VM-3240VA RJ45 female connector<br>Output: To additional VM-3240E (max. 9 extension amplifiers) RJ45 female connector<br>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)<br>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<br>Input 6: Isolated voltage input, Inactive: –24 V±20%, Active: +24 V±20%, RJ45 female connector<br>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)<br>PS out: 28 V DC / 18 A<br>M4 screw terminal, distance between barriers: 11 mm |
| 22 V DC Output | 22 V DC Special Application, Maximum current 0.3 A (for RM-200M only) |
| DS Link | To local VX-2000DS, RJ45 female connector<br>Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP) |
| Operating Temperature | 0 to 49°C (32 to 120°F) |
| Operating Humidity | 5% to 95% RH (no condensation) |
| Finish | Panel: Aluminum, hair-line, black<br>Case: Surface-treated steel plate, black, paint |
| Dimensions | 482 (w) x 132.6 (h) x 407 (d) mm (18.98" x 5.22" x 16.02") |
| Weight | 16.5 kg (36.38 lb) |

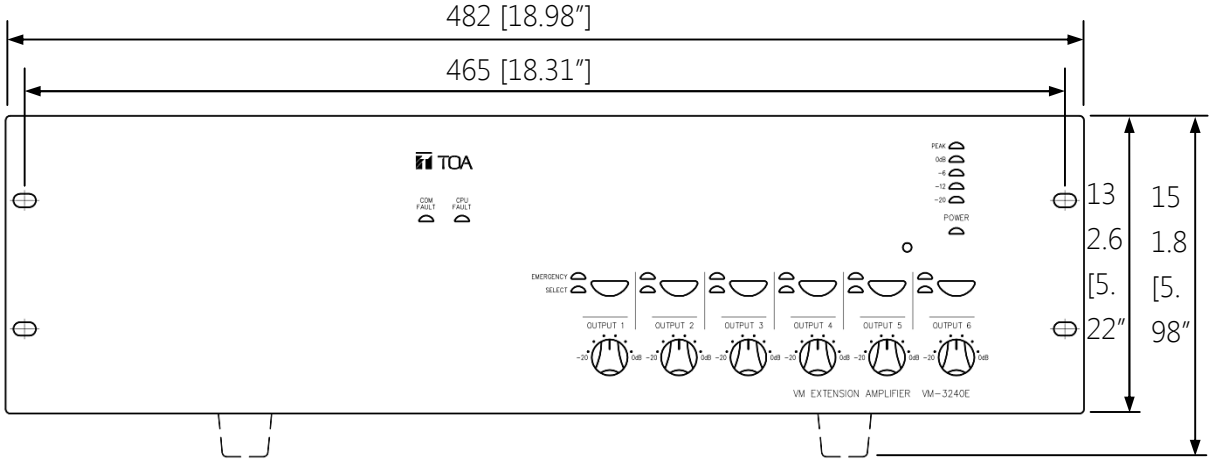
*0 dB = 1 V

# VM EXTENSION AMPLIFIER 240W

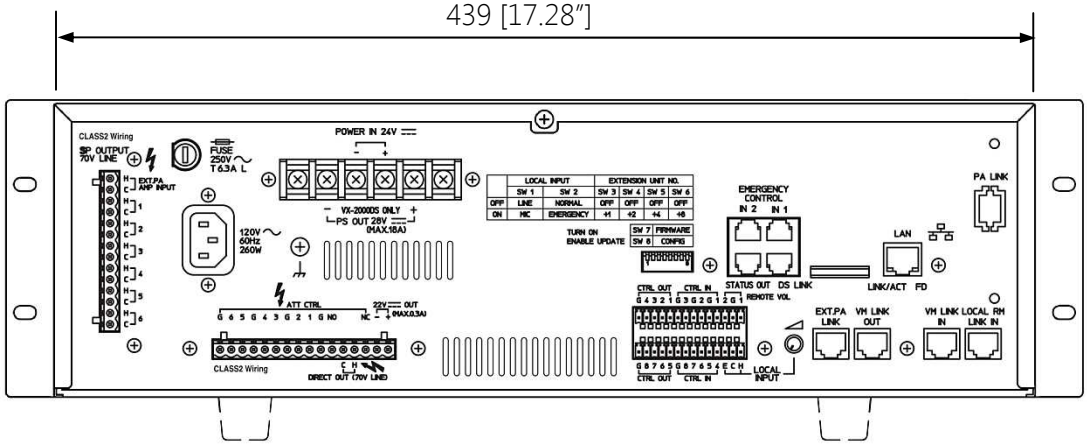
VM-3240E AMQ

■APPEARANCE

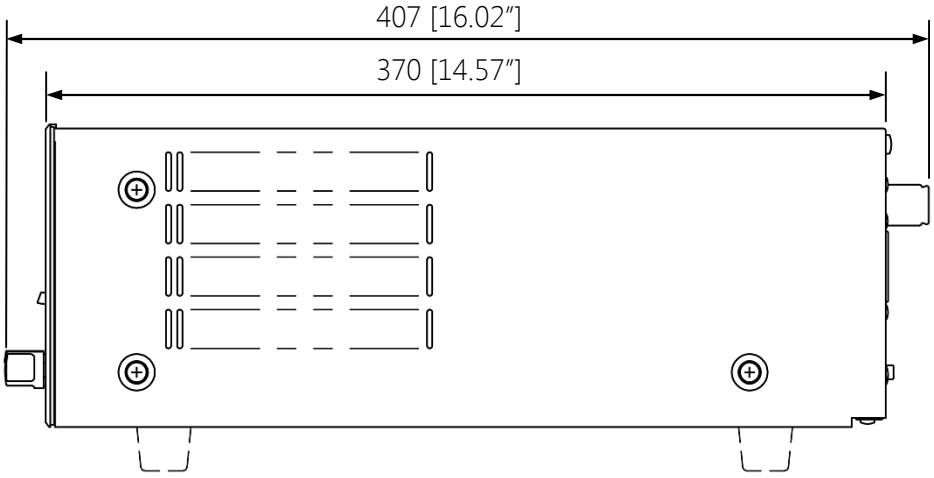
Front View




Rear View




Side View




UNIT: mm [inch]