Specifications

System Management Amplifier VM-2120 / VM-2240

Model No.	VM-2120	VM-2240
Power Source	AC mains, 50/60Hz or 24V DC, 7.5A	
Rated Output	120W	240W
Frequency Response	50Hz - 16kHz	
Distortion	Under 1%	
S/N Ratio	Over 60dB	
Tone Control	Bass: 100Hz ±10 dB, Treble: 10 kHz ±10 dB	
Input	Mic/Line input x 3 Telephone paging input BGM input x 2 Power amplifier input External speaker line input	
Output	Speaker output Direct speaker line output Line output Recording output Preamplifier output	
Control Input & Output	(1) External control input • Activation of messages • Activation of power • Activation and stop of Emergency Broadcast • Unit's broadcast cutoff (when activated by an external emergency equipment) (2) Status output • Irregularity of communications with the Remote Microphone and an expansion amplifier • AC power condition • DC power condition • Irregularity of the sound source of the Voice Announcement Board • Failure (FAULT) indication on • Power switch on	
External Attenuator Control Output	Plug-in screw connector, relay, no-voltage make contact output, transfer type, withstand voltage: 30 V DC, 125 V AC, contact current: under 7 A (DC), under 7 A (AC)	
Surveillance Input and Output	Input: No-voltage make contact input, open voltage: 3.3 V DC, short-circuit current: under 1 mA Output: Open collector output, withstand voltage: 30 V DC, control current: under 10 mA	
Chime Tone	Built-in chime, Voice Annoucement Board sound source	
Function	Two units stacking (VM-2120 or VM-2240) Emergency broadcast (sequential control) Broadcast priority control Surveillance (failure detection) function Power supply to only one Remote Microphone (RM-200M) Line resistance: Under 40 Ω (one way)	
Dimensions	419 (W) ×143.3 (H) × 355.7 (D) mm	

Remote Microphone RM-200M

Power Requirement	24 V DC
Microphone	Unidirectional electret condenser microphone
Function	General-purpose Boardcast Emergency Broadcast Activation of voice message
Connection Cable and Connector	Category 5 STP cable, RJ45 connector
Dimensions	190 (W) × 76.5 (H) × 215 (D) mm

Remote Microphone Extension Unit RM-210

Function	Activation of Voice Announcement Board's voice messages when controlling speakers in 10 zones at RM-200M
Dimensions	110 (W) × 76.5 (H) × 215 (D) mm

Voice Annoucement Board EV-200M

Playback Mode	Single source playback
No. of Playback Program	8 programs

Surveillance Board SV-200MA

Control Input and Output	Input: (1) Speaker line initial setting activation signal (2) Speaker line surveillance activation signal Output: (1) Monitoring short or open of individual speaker line (zone 1 – 5) (2) Ground fault (insulation resistance: under 50 kΩ) (3) Power amplifier failures Input/Output (1) Speaker Zone information/selection (2) Power amplifier fault link
Failure Detection	Power amplifier failure: 20 kHz pilot tone detection Speaker line failure: 40 Hz impedance detection
Speaker Line Surveillance	Speaker lines are automatically monitored at set time intervals

IT-450
Input Transformer
Impedance: 600 Ω ± 10%
Frequency Response: 200 ~ 10,000 Hz

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Specifications are subject to change without notice.
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