



Multi-PA
Combination Amplifier

SYS-2240

Features

- 240W of Output Power into 4Ω or 25V/70V loads
- Seven Mixable Inputs: Five Balanced Mics and Two Aux
- Mic1 Input is a 1/4" TRS Connector
- Digital AM/FM Tuner with 24-Station Preset Memory
- Full-Logic Recording, Playback and Multi-Mode Auto-Reverse Deck
- Three-Disc CD Changer
- Priority Muting for Mic1/2/All and Four-Tone Manual Pre-Page Chime
- Seven-Band Graphic EQ and Spectrum Analyzer
- Pre-Amp Out (Post-Tone-Controls) for External Signal Processing
- 10 Individual Speaker Zones
- Monitor Speaker with Attenuator



Description

The SYS-2240 is a multi-PA combination amplifier designed for applications where a variety of music and paging sources are required, including restaurants, banquet halls, community centers and retail shops. It has 240W of output power and offers a full-logic cassette deck, three-disc CD changer, a digital AM/FM tuner, two auxiliary inputs and five balanced mic inputs. All sources are mixable, with individual gain controls. Voice-activated priority muting, with an adjustable muting level, is available on Mic1/2 for muting all other channels. Separate bass and treble controls allow ± 12 dB adjustment and a four-note chime button provides a pleasant pre-page tone. The cassette deck features full-logic controlled, auto-reverse, record/playback capabilities. A three-mode selector allows single-side play, auto-reverse or continuous play functions. The AM/FM LCD digital tuner offers manual or station-seek up/down tuning. A direct access 24-station memory offers 16 FM and eight AM presets. Indication of amplifier output levels and AC power is provided by front-panel LED displays. Speaker outputs are provided for either low impedance 4Ω loads or switch-selectable 25V/70V high impedance loads. Ten speaker zones for high impedance loads are independently selectable from the front panel. The SYS-2240 is powered by 100-120VAC or 220-240VAC 50/60Hz (depending on country requirements), and comes packaged in a shelf-mount enclosure.

Technical Specifications

ELECTRICAL		SYS-2240
Rated Output/Impedance		240W @4Ω or 25V/70V
Input Sensitivity /Impedance	AUX 1, 2	300mV/20kΩ
	MIC 1-6	1mV/20kΩ
Frequency Response	AUX 1, 2	80Hz - 15kHz
	MIC 1-6	100Hz - 10kHz
THD	AUX 1, 2	< 0.1%
	MIC 1-6	< 0.5%
Signal-to-Noise Ratio	AUX 1, 2	> 75dB
	MIC 1-6	> 60dB
Deck	Track System	Two Track Mono
	Freq. Response	125Hz - 6.3kHz
Tuner	Tuning Range	FM:87.5 - 108MHz AM:522 - 1611kHz or 520 - 1710kHz
	Usable Sensitivity	FM:3μV, AM:10μV
CD	Freq. Response	5Hz - 20kHz
GENERAL		
Power Source	100-120VAC or 220-240VAC 50/60Hz	
Power Consumption	470W	
Weight	66.9lbs.	
	25kg	
Dimensions (W x H x D)	19" x 10.5" x 12.2"	
	420mm x 266mm x 310mm	

SYS-2240 Architects and Engineers Specifications

The multi-PA combination amplifier shall be capable of 240W RMS output. An auto-reverse full-logic-controlled cassette deck shall provide record and playback capabilities. A mode switch shall allow selection of single side, auto-reverse or continuous playback functions. A digital AM/FM tuner shall offer a 16 FM and eight AM station preset memories and manual or station-seeking up/down tuning. A three-disc CD changer shall provide 24 programmable tracks. Inputs shall be provided for five microphones and two line level auxiliary inputs. Mic1 input shall be located on the front panel and shall feature priority voice-activated muting of all other channels. All sources shall be fully mixable, with individual gain controls for each channel. A master volume control shall regulate the amplifier signal level. A seven-band equalizer shall be provided to adjust the tonal balance. A front-panel chime button shall provide a four-tone signal for pre-announcement applications.

The chime shall mute all channels except Mic1/2 inputs. Line level pre-amp output (post-tone controls and pre-master) and power amp input jacks (the latter normalized for a plug to break the internal pre-amp signal input to the amp) shall provide for bridging or connection of external signal processing equipment. Speaker zone switches shall provide 10 selectable 25V/70V outputs, as well as all call. Front panel LEDs shall indicate amplifier output level, as well as power on indication.

The amplifier section shall meet the following performance criteria:

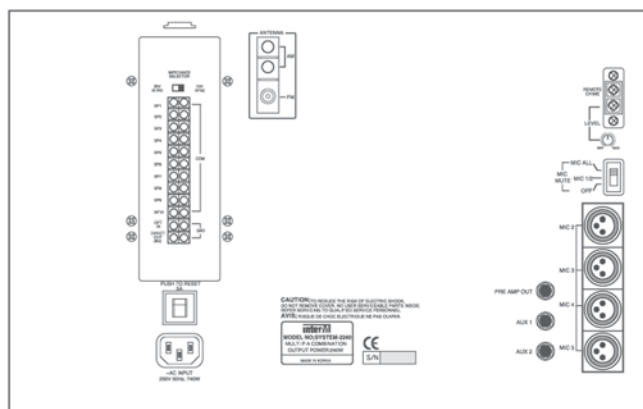
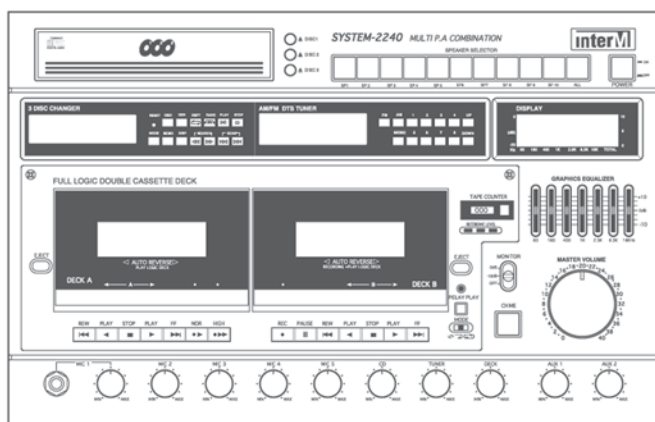
Total harmonic distortion shall be less than 0.5%; frequency response shall be 80Hz to 15kHz; and signal-to-noise ratio shall exceed 75dB. Input sensitivity and impedance shall be 1.0mV@20kΩ for Mic 1-5 and 300mV@20kΩ for Aux1/2.

The auto-reverse cassette deck shall meet the following performance criteria: frequency response shall be 125Hz to 8kHz ; wow and flutter shall be less than 0.3% (WRMS); and signal-to-noise ratio shall exceed 40dB. The tuner shall meet the following performance criteria: signal-to-noise ratio shall exceed 60dB for FM and 45dB for AM; and total harmonic distortion shall be less than 1%.

The multi-PA combination amplifier shall measure 19"(420mm) wide x 10.5"(266mm) high x 12.2"(310mm) deep, and shall be shelf mounting. The power source shall be either 100-120VAC or 220-240VAC 50/60Hz (depending on country requirements). The power shall be controlled from a front-panel push-on/push-off switch, and indicated with a front-panel LED.

The multi-PA combination amplifier shall be an Inter-M model SYS-2240.

SYS-2240 Front and Rear Views



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