



# Cassette Mixer/Receiver

# POP-30/60/120

## Features

- 30W, 60W or 120W RMS Output Power into 4Ω or 70V/100V Loads
- Four Mixable Inputs: Three Balanced Mics and one Auxiliary, plus Tuner and Cassette Deck
- Mic1 Input is a 1/4" TRS Connector
- Digital AM/FM Tuner with 30-station Preset Memory
- Full-Logic Recording, Playback and Multi-Mode Auto-Reverse Deck
- Voice-Activated Priority Muting via Mic1
- Four-Tone Manual Pre-Page Chime
- Bass and Treble Tone Controls
- Pre-Amp Out (Post-Tone-Controls) for External Signal Processing
- Power Amp Input (Normalized) for Patch of External Signals
- Two-Zone Speaker Selector Switch for 25V or 70V Lines
- Thermal Overload and Power-Up Delay Output Protection



## Description

The POP-30/60/120 are monaural cassette mixer/receivers designed for applications where a variety of music and paging sources are required. They have 30W(POP-30), 60W(POP-60) and 120W(POP-120) RMS output power, respectively, and offer a full-logic cassette deck, a digital AM/FM tuner, one auxiliary input and three balanced mic inputs. All sources are mixable, with individual gain controls. The Mic1 input voice-activated priority mutes all other channels with an adjustable muting level. Separate bass and treble controls allow  $\pm 12\text{dB}$  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 30-station memory offers 18 FM and 12 AM presets. The amplifier output has auto-resetting thermal protection circuitry and a four-second power-up output delay for speaker protection. Indication of protection circuit activation, seven-step amplifier output levels and AC power is provided by front-panel LEDs. Speaker outputs are provided for either low impedance 4Ω loads, or switch-selectable 25V/70V high impedance loads. Two-zone switched outputs are supplied for high impedance loads. The POP-30/60/120 are powered by 100-120VAC or 220-240VAC 50/60Hz (depending on country requirements), and come packaged in shelf-mount enclosures.

## Technical Specifications

ELECTRICAL		POP-30	POP-60	POP-120
Rated Output (RMS)		30W	60W	120W
Input Sensitivity	Mic	1-3 1mV/10kΩ (Mic 1-3 BAL 600Ω Optional)		
	Aux	350mV/10kΩ		
	Line in	1V/10kΩ		
Sensitivity/ Impedance				
Frequency Response		80Hz - 20,000Hz		
THD		<1%		
Signal-to-Noise Ratio		90dB		
Tone Control		(100Hz-10kHz) $\pm 12\text{dB}$		
Power Output Impedance		30W	60W	120W
		4Ω, 70V or 100V		
<b>GENERAL</b>				
Power Source		100-120VAC or 220-240VAC : 50/60Hz		
Power Consumption		105W	132W	235W
Weight		31lbs.	33.7lbs.	38.6lbs.
		11.6kg	12.6kg	14.4kg
Dimensions (W x H x D)		16.5" x 5.2" x 12.6"		
		420mm x 132mm x 320mm		

## POP-30/60/120 Architects and Engineers Specifications

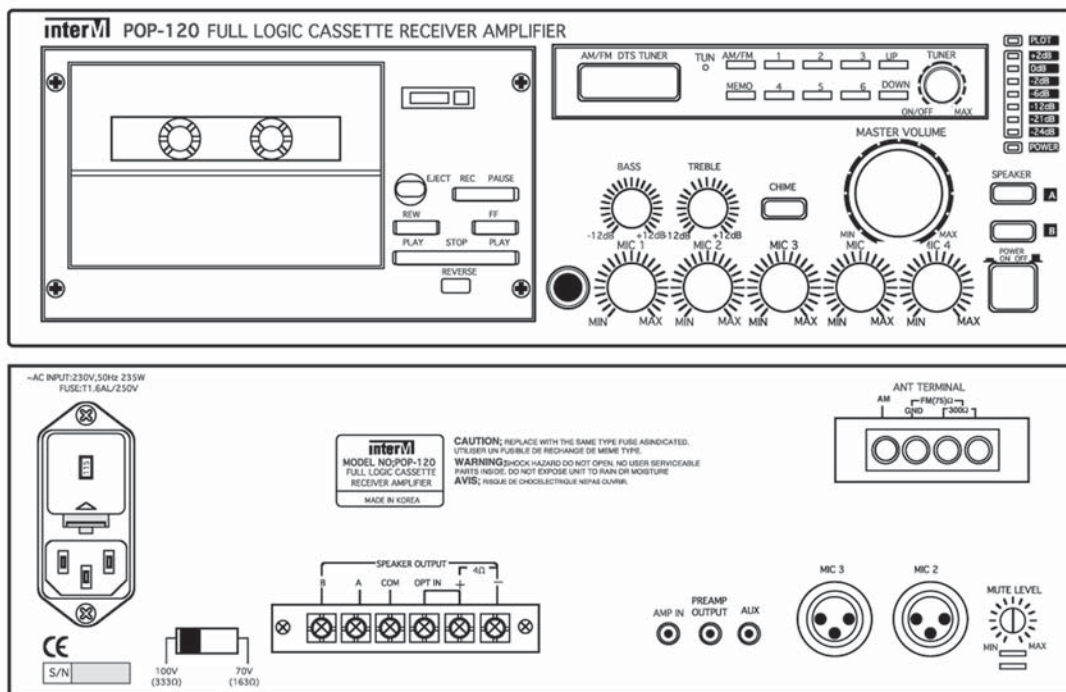
The cassette mixer/receiver shall be a monaural amplifier capable of 30, 60 or 120W RMS output. An auto-reverse full-logic-controlled cassette deck shall provide record and playback capabilities and a mode switch shall allow selection of single side, auto-reverse or continuous playback functions. A digital AM/FM tuner shall offer an 18 FM and 12 AM station preset memory and manual or station-seeking up/down tuning. Inputs shall be provided for three microphone and one line level auxiliary. Mic1 input shall be located on the front panel and features automatic voice-activated muting of all other channels. The muting level shall be adjustable. All sources shall be fully mixable, with individual gain controls for each channel. A master volume control shall regulate total amplifier output. Bass and treble controls shall provide 12dB boost or cut at 100Hz and 10KHz. A front-panel chime button shall provide a four-tone signal for pre-announcement applications.

The chime shall mute all channels except Mic1. 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. Amplifier protection circuitry shall be provided to protect against over-temperature and over-current. Amplifier output shall be disconnected for four seconds upon power-up for speaker protection. Front panel LEDs shall indicate amplifier output, from -24dB to +2dB, as well as protection circuit activation and power on indication. Two outputs for 25/70V speaker zones shall be provided and selected by front panel switches. The amplifier section shall meet the following performance criteria: power output shall be 30W(POP-30), 60W(POP-60) or 120W(POP-120) RMS; total harmonic distortion shall be less than 1% at rated output at 1kHz; frequency response shall be 80Hz to 20kHz; and signal-to-noise ratio shall exceed 90dB.

Input sensitivity and impedance shall be 1.0mV@10kΩ for Mic 1-3 and 350 mV@10kΩ for auxiliary. The auto-reverse cassette deck shall meet the following performance criteria: frequency response shall be 125Hz to 6.3kHz (-10dB, -20dB recording, normal tape); wow and flutter shall be less than 0.05% (WRMS); and signal-to-noise ratio shall exceed 50dB. The tuner shall meet the following performance criteria: sensitivity shall be 2μV for FM and 12μV for AM; signal-to-noise ratio shall exceed 60dB for FM and 50dB for AM; and total harmonic distortion shall be less than 2% for both FM and AM. The cassette mixer/receiver shall measure 16.5"(420mm) wide x 5.25"(132mm) high x 12.6"(320mm) deep, and shall shelf mount. The power source shall be 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 cassette mixer/receiver shall be an Inter-M model POP-30/60/120.

### POP-30/60/120 Front and Rear Views



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