

## BG-235 CU

### MIXER AMPLIFIER



The BG-235 is a 35 W three-input mixer amplifier for background music and general announcement. It is suited for use in bars, retail stores, and banquet rooms, and is equipped with the MOH OUT that permits 2-channel broadcast when used in conjunction with the optional booster amplifier BA-235 (35 W) or BA-260 (60 W).

## Key features

- All inputs/ outputs have removable terminal blocks for quick and easy installation.
- Rear panel-mounted DIP switches allow easy settings.
- 3 line inputs, 1 is mic/line switchable, while 2 and 3 are equipped with RCA pin jacks.
- Recessed tamper-proof bass and treble controls preserve system settings.
- Provides auto/manual mute function with adjustable muting sensitivity.
- 2-channel broadcast system capability together with zone 2 expansion capability in conjunction with BA-200 Series.
- Any of the 3 inputs assignable to MOH/ZONE 2 out

## Specifications

\* 0 dB = 1 V

Power Source	120 V AC, 60 Hz
Rated Output	35 W
Power Consumption	90 W (rated output), 55 W (based on cULus standards)
Frequency Response	50 Hz - 20 kHz
Total Harmonic Distortion	0.5 % or less, at 1 kHz, rated output
Signal to Noise Ratio	Mic/Line 1: 60 dB or more, Line 2, 3: 80 dB or more (Band Pass: 20 Hz - 20 kHz, Tone Controls: Centered)
Input	Mic: -60 dB*/ Line 1: -10 dB* Mic/Line 1 selectable, 600 Ω, electronically balanced, removable terminal block Line 2, 3: -10 dB*, 10 kΩ, unbalanced, removable terminal block or RCA jack
Output	Speaker: 4 Ω, 25 V (18 Ω) and 70 V (140 Ω), balanced, removable terminal block MOH: 0 dB*, 600 Ω, balanced, removable terminal block Line: 0 dB*, 600 Ω, unbalanced, removable terminal block
Output Regulation	2 dB or less, no load to full load (1 kHz)
Tone Control	Bass: ±10 dB at 100 Hz, Treble: ±10 dB at 10 kHz
Muting	Manual mute/Automatic mute
Control	Mic/Line 1 gain control, Line 2 gain control, Line 3 gain control, Bass tone control, Treble tone control, MOH out gain control, Mute control (Manual mute), Mute sense control, Auto mute switch (Mic/Line 1) Mic/Line 1 selector switch, Mute receive switch (Line 2, 3), MOH assign switch (Mic/Line 1, Line 2, 3), Power ON/OFF switch
Indicator	Power LED, Signal LED, Peak LED
Operating Temperature	0 # to +35 # (32 # to 95 #)
Operating Humidity	35 % to 80 %RH (no condensation)
Finish	Panel: ABS resin, black Case: Steel plate, black, paint
Dimensions	210 (W) x 94.3 (H) x 265 (D) mm (8.27 x 3.71" x 10.43")
Weight	4 kg (8.82 lb)
Included Accessories	Volume control cover: YA-920...3 Removable terminal plug (2 pins)...3, Removable terminal plug (3 pins)...1 Removable terminal plug (4 pins)...1, Removable terminal plug (5 pins)...1
Optional Accessories	Rack mounting bracket: MB-25B-BK, MB-25B-J



## A&E specifications

The mixer amplifier shall control and mix up to three input signals and deliver an audio output of 20W/35W. Frequency response shall be 50 to 20k Hz with 0.5% or less THD at rated output. The output regulation shall be less than 2dB, no load to full load. The mixer amplifier shall have switch-selectable MIC/LINE input, electronically balanced, with removable terminal block connections and two LINE inputs, unbalanced, with removable terminal block connections and RCA jacks. The MIC/LINE 1 input impedance shall be 600 ohms and the LINE 2/3 input impedance shall be 10k ohms. The mixer amplifier shall include a MOH/ZONE 2 output with removable terminal block. The mixer amplifier shall include 25V, 70V and 4 ohm balanced outputs. Built-in protection circuitry shall monitor current level to minimize potential damage from overloads, and disable output during excessive operating temperature over 221°F (105°C). The mixer amplifier shall incorporate a mute function to allow MIC/LINE input to override LINE 2 and 3 input without interrupting the MOH/ZONE 2 output. A rear-mounted MUTE SENSE control shall allow threshold adjustment of mute activation. Terminals for activating the mute function manually with external switch closure shall also be included. Rear-mounted DIP switches shall allow assignment of LINE 2 and/or LINE 3 to respond to the mute function activation. Each input shall be assignable to the MOH/ZONE 2 output. 2-channel broadcast shall be possible using the MOH/ZONE 2 output. Recessed Bass and Treble controls shall be located on the front panel. Accessory volume control security knob shall be included to prevent the accidental change of input volume settings.

The mixer amplifier shall be cULus-Listed and capable of operation from a 120V AC / 60Hz line breaker. Dimensions (W x H x D) shall be 8.27" x 3.71" x 10.43" (210 x 94.3 x 265 mm). Net weight shall be BG-220: 7.72 lbs. (3.5kg); BG-235: 8.82 lbs. (4kg). Front panel finish and material shall be black ABS resin and case finish (and material) shall be black steel plate.

The mixer amplifier shall be TOA model BG-220 / BG-235.

The optional rack-mount bracket shall be TOA model MB-25B-BK.

The optional rack-mount bracket (two units) shall be TOA model MB-25B-J.