

BG-2035 / BG-2060 / BG-2120

Mixer Amplifier

The mixer amplifier shall control and mix up to five input signals and deliver an audio output of 35W/60W/120W. Frequency response shall be 50 to 20k Hz with 0.5% or less THD at rated output. The output regulation shall be 2dB or less, no load to full load. Mixer inputs shall include four built-in inputs: Mic, Line 1/TEL, Line 2, Line 3 and one modular input, compatible with TOA plug-in modules. The Mic input shall be electronically balanced with $\hat{\text{a}}\text{€}60\text{dBV}$ sensitivity, 600 ohm input impedance, switchable phantom power (+24V DC) and removable terminal block connection. The switch-selectable Line 1/TEL input shall be electronically balanced with $\hat{\text{a}}\text{€}10\text{dBV}$ (Line 1) / $\hat{\text{a}}\text{€}20\text{dBV}$ (TEL) sensitivity, 10k ohm input impedance and removable terminal block connection. Line 2 and Line 3 inputs shall be unbalanced with $\hat{\text{a}}\text{€}10\text{dBV}$ sensitivity, 10k ohm input impedance, removable terminal block connection and RCA pin jacks. The modular input shall be compatible with TOA plug-in modules. The mixer amplifier shall include 25V, 70V and 4 ohm balanced outputs with removable terminal block connections. The mixer amplifier shall include a MOH/ZONE 2 output with 0dBV sensitivity, 600 ohm output impedance and removable terminal block connection. Each input shall be assignable to the MOH/ZONE 2 output. 2-channel broadcast shall be possible using the MOH/ZONE 2 output. The Line output shall be unbalanced with 0 dBV sensitivity, 600 ohm output impedance and removable terminal block connection. The mixer amplifier shall incorporate manual mute and auto-mute function. Manual mute function shall allow any input placed in mute receive mode when the manual mute terminal is short-circuited. Auto-mute function shall allow input signal to Mic., Line 1/TEL and Module input to override the inputs set to be muted, without interrupting the MOH/ZONE 2 output. Rear-mounted DIP switches shall allow assignment of all inputs to respond to the mute function activation. A rear mounted MUTE SENSE control shall allow threshold adjustment of mute activation. 2-channel broadcast shall be possible by connecting the MOH/ZONE 2 output of BG-2000 Series to the unit's LINE input. Built-in protection circuitry shall monitor current level to minimize potential damage from overloads, and disable output during excessive operating temperature over 221 $\hat{\text{A}}\text{°F}$ (105 $\hat{\text{A}}\text{°C}$). 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 10.39" x 3.71" x 10.52" (264 x 94.3 x 267.3 mm). Net weight shall be BG-2035/2060: 11.68 lbs. (5.3kg); BG-2120: 13.23 lbs. (6kg). 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-2035 / BG-2060 / BG-2120. The optional rack-mount bracket shall be TOA model MB-1000. The volume control security knob shall be TOA model YA-920.