

## A-706 / A-712 / A-724

The mixer/amplifier shall have the capability to control and mix a minimum of nine input signals and deliver an audio output of 60 W / 120 W / 240 W. Mixer inputs shall include eight switchable mic/line inputs and one modular input, compatible with TOA plug-in modules. The TOA plug-in accessory modules designed for use with the mixer/amplifier shall utilize the latest in surface mount component technology and shall include microphone, line and special function models.

Specifications shall be equal to the following: Frequency response: 50 to 20k Hz (+/- 3 dB). THD: 0.5% at 1k Hz at rated output. Output regulation: less than 2 dB, no load to full load. Dynamic range: Input 1 - 6: >70 dB, Input 7 - 8, Module: >80 dB (Band Pass: 20 - 20k Hz, with Tone Controls centered). The MIC/LINE inputs shall be electronically balanced with adjustable trim control and -70 to -50 dBV sensitivity (MIC) / -10 dBV (LINE), 600 ohm input impedance, and switchable 23 VDC phantom power and removable terminal block connector. Channel One shall be suitable for a telephone system "page output" signal and shall be balanced, transformer-isolated. The AUX inputs shall be unbalanced, -20 dBV, 10k ohm input impedance with stereo-summing dual-RCA pin jacks. Optional internal input transformers shall be available for the channels 2-3. The modular input shall be compatible with TOA input and output plug-in modules. The module input shall be enclosed and isolated from all other electronics within the chassis. The module shall be installed via integral guide rails and utilize a fixed-mount edge connector with connections for +24 VDC, Earth Ground, Input, and Output. The mixer/amplifier shall include 25 V, 70.7 V and 4 ohm transformer-isolated outputs with removable terminal block connector.

The mixer/amplifier shall incorporate a configurable Auto-Mute function to allow the Channels 1-3 and/or Module to override Channels 1-8 and/or Module. A rear panel Auto-Mute SENSE control shall allow threshold adjustment of mute activation. Terminals for activating the mute function with an external switch closure shall also be included. The mixer/amplifier shall include a patching loop to provide access to the mixer output and power amplifier input. The mixer output shall be 0 dBV, 600 ohms output impedance, unbalanced, RCA pin jack. The power amplifier input shall be 0 dBV, 10k ohms input impedance, unbalanced, RCA pin jack. An additional Record output shall be 0 dBV, 600 ohms output impedance, unbalanced, RCA pin jack. The mixer/amplifier shall include front panel Bass/Treble tone controls (100 and 10k Hz, +/- 10 dB). The tone controls shall not affect the Record output. The front panel shall include individual mic/line, auxiliary and Module volume controls; 5-point LED output level m, Power indicator LED; and Power On/Off switch. Four volume control security knobs shall be included to prevent unauthorized adjustment of front panel volume control settings.

The mixer/amplifier shall be UL-Listed and capable of operation from a 120 VAC / 60 Hz line breaker. Power consumption at rated output shall be A-706: 68 W, A-712: 110 W, A-724: 215 W. The output shall be disconnected for approx. 3 seconds after power is switched on. The amplifier shall have short-circuit and thermal protection circuitry with an automatic electronic output limiter. Dimensions (W x H x D) shall be 16.8" x 4.3" x 14.68" (420 x 107.7 x 367 mm). Net weight shall be A-706: 20.55 lbs. (9.3 kg), A-712: 27.85 lbs. (12.6 kg), A-724: 29.84 lbs. (13.5 kg). The front panel finish and material shall be black ABS resin. Case finish and material shall be black steel plate. The mixer/amplifier shall be rack-mountable and occupy two standard 19" rack spaces with optional rack-mounting brackets.

The mixer/amplifier shall be TOA model A-706 / A-712 / A-724.  
The rack-mount bracket shall be TOA model MB-25B.  
The volume control security knob shall be TOA model YA-920.  
The optional input transformer shall be TOA model IT-455.