



# ZA-2000 SERIES MIXER POWER AMPLIFIERS

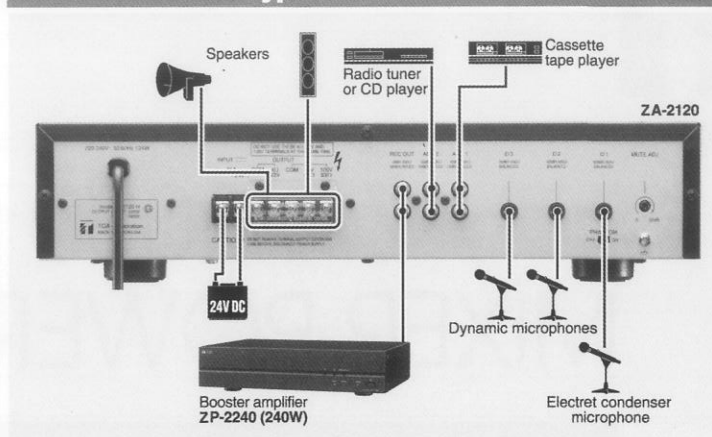


*A wide choice of output power ratings and enhanced cost-effectiveness, for mixer power amplifiers that can handle a wide range of public address requirements at a remarkably low cost.*

## Features

- A full lineup of 2-unit size amplifiers offering a wide range of power outputs from 30W to 240W.
- Frequency Response: 50 Hz – 20,000 Hz.
- Three electronically balanced microphone inputs ( $\pm 10$  dB at 100 Hz and 10 kHz), two AUX inputs and recording output
- Phantom power is provided to MIC 1, for supplying power to a condenser microphone.
- Broad tone control adjustment range of  $\pm 10$ dB for both bass and treble.
- Improved cost-performance level compared with conventional TOA models.

## Typical Connections

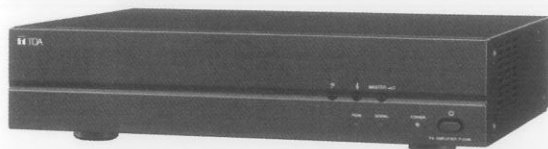


## Specifications

Model No.	ZA-2030	ZA-2060	ZA-2120	ZA-2240
Power Source	220 – 240V AC or 24 – 30V DC			
Rated Output	30W	60W	120W	240W
Power Consumption	78W (AC operation at rated output), 34W (at 1/8 Power) 2A (DC operation at rated output)	150W (AC operation at rated output), 72W (at 1/8 Power) 4A (DC operation at rated output)	260W (AC operation at rated output), 124W (at 1/8 Power) 8A (DC operation at rated output)	520W (AC operation at rated output), 238W (at 1/8 Power) 15A (DC operation at rated output)
Frequency Response	50 – 20,000Hz ( $\pm 3$ dB)			
Distortion	Under 1% at 1kHz, 1/3 rated power			
Input	MIC 1 – 3 AUX 1, 2 -60dB*, 600 $\Omega$ , balanced, phone jack -20dB*, 10k $\Omega$ , unbalanced, RCA pin jack			
Output	Speaker out High impedance Low impedance Rec. out	Balanced (floating) 330 $\Omega$ (100V), 170 $\Omega$ (70V) 4 $\Omega$ (11V) 0dB*, 600 $\Omega$ , unbalanced, RCA pin jack	Balanced (floating) 170 $\Omega$ (100V), 83 $\Omega$ (70V) 4 $\Omega$ (15.5V) 0dB*, 600 $\Omega$ , unbalanced, RCA pin jack	Balanced (floating) 83 $\Omega$ (100V), 42 $\Omega$ (70V) 4 $\Omega$ (22V) 0dB*, 600 $\Omega$ , unbalanced, RCA pin jack
Phantom Power	DC +21V (MIC 1)			
S/N Ratio	Over 60dB			
Tone Control	Bass Treble $\pm 10$ dB at 100Hz $\pm 10$ dB at 10kHz			
Muting	MIC 1: Mutes other input signals by 0 – 30dB attenuation			
Indicator	Power, signal, peak			
Finish	Panel: ABS resin, black/Case: Steel plate, black			
Dimensions (W x H x D)	420 x 100.9 x 280.3mm (16.54" x 3.97" x 11.04")		420 x 100.9 x 360.3mm (16.54" x 3.97" x 14.19")	
Weight	5kg (11.02 lb)	7kg (15.43 lb)	10.8kg (23.81 lb)	13.2kg (29.1 lb)

\*0dB = 1V

## ZP-2240 Booster Amplifier (240W)



ZP-2240

The ZP-2240 offers a high performance-to-cost ratio, and can be used with TOA's ZA-2000 Series mixer power amplifiers. Because the ZP-2240 features a 100V line input, it can be connected to the speaker line from another amplifier. Also, the ZP-2240's power can be switched on and off by remote control, allowing it to be operated independently of the ZA-2000 Series. In case of emergency, the master volume can be bypassed to make emergency announcements.

Power Source	220 – 240V AC or 24 – 30V DC
Rated Output	240W
Power Consumption	520W (AC operation at rated output), 238W (at 1/8 Power), 15A (DC operation at rated output)
Frequency Response	50 – 20,000Hz ( $\pm 3$ dB)
Distortion	Under 1% at 1kHz, 1/3 rated power
Input	Line in: 0dB*, 10k $\Omega$ , balanced, screw terminal 100V line in: 40dB*, 330k $\Omega$ , unbalanced, screw terminal Power remote control: Make contact
Output	Loop out: 0dB*, 10k $\Omega$ , balanced, screw terminal Speaker out: Balanced (floating) High impedance: 42 $\Omega$ (100V), 21 $\Omega$ (70V) Low impedance: 4 $\Omega$ (31V)
S/N Ratio	Over 60dB
Tone Control	Bass: $\pm 10$ dB at 100Hz/Treble: $\pm 10$ dB at 10kHz
Indicator	Power, signal, peak
Ventilation	Fan cooling
Finish	Panel: ABS resin, black/Case: Steel plate, black
Dimensions (W x H x D)	420 x 100.9 x 351.3mm (16.54" x 3.97" x 13.83")
Weight	13.2kg (29.1 lb)

\*0dB = 1V

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Specifications are subject to change without notice.