

A-3524D 1CE

MIXER AMPLIFIER



The A-3500D series is a PA amplifier with emergency and priority paging, equipped with 3 MIC/LINE inputs, 1 MIC input, 1 AUX (music source) input, and 2-channel speaker zone selectors. It is ideal for paging announcements and background music applications in supermarkets, schools, offices, and factories.

Key features

- TOA class D amplifiers for maximum efficiency
- 4 selection of power amplifier output (60W, 120W, 240W and 480W)
- 3 mic/line selectable inputs, 1 mic input and 1 auxiliary input
- 2-channel speaker zone selector
- Switchable 100V line or low impedance speaker output
- Capable of emergency and priority broadcasting by using either control signal or audio detection as a trigger

Specifications

Power Source	100 - 240 V AC, 50/60 Hz
Rated Output	240 W
Power/Current Consumption	314 W (rated output), 70 W (based on EN62368), 200 mA or less (when power switch is OFF)
Frequency Response	50 Hz to 20 kHz ± 3 dB (1/8 rated output)
Distortion	1% or less at 1 kHz, rated power (20 kHz LPF (AUX-0025))
Tone Control	Bass: ± 10 dB at 100 Hz Treble: ± 10 dB at 10 kHz
Signal to Noise Ratio	88 dB or more (Master volume: min.) 76 dB or more (Master volume: max.) 55 dB or more (INPUT 1 to 4) 72 dB or more (INPUT 5) (A-weighted)
Audio Input	INPUT 1, 2: -60 dB* (MIC)/ -20 dB* (LINE) selectable, 600 Ω , electronically-balanced, removable terminal block (3.81 mm, 5 pins)/ $\phi 6.3$ mm phone jack (3P) Note: MIC inputs are equipped with phantom power (24 V DC, ON/OFF switchable). INPUT 3: -60 dB*, 600 Ω , electronically-balanced, $\phi 6.3$ mm phone jack (3P) INPUT 4: -60 dB* (MIC)/ -20 dB* (LINE) selectable, 600 Ω , electronically-balanced, $\phi 6.3$ mm phone jack (3P) INPUT 5: -20 dB*, 10 k Ω , unbalanced, RCA pin jack x 2 PWR AMP IN: 0 dB*, 600 Ω , unbalanced, RCA pin jack
Audio Output	SPEAKER OUT: Low impedance (4 - 16 Ω)/High impedance (DIRECT, ZONE 1/ZONE 2: 100 V/total 42 Ω), removable terminal block (6 pins) (ZONE 1/ZONE 2 is selectable, Max. 240 W per output) REC OUT: 0 dB*, 600 Ω , unbalanced, RCA pin jack LINE OUT 1, 2: 0 dB*(1), 600 Ω , unbalanced, RCA pin jack (Interlock with zone selection is possible)
Control Input	2 channels, no-voltage make contact input, open voltage: 35 V DC or less, short-circuit current: 10 mA or less, removable terminal block (5 pins) ZONE CONTROL IN: No-voltage make contact input, open voltage: 35 V DC or less, short-circuit current: 10 mA or less, removable terminal block (4 pins)
Control Output	POWER REMOTE OUT: Open collector output, withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (4 pins) EMERGENCY OUT: Open collector output, withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (4 pins) ZONE CONTROL OUT: Open collector output (polarized), withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (4 pins)
Indication	5-point LED output level meter, Power indicator LED, Priority indicator LED, Emergency indicator LED, Thermal protection indicator LED, Over current protection indicator LED, Zone 1 indicator LED, Zone 2 indicator LED
Operating Temperature	- 10 $^{\circ}$ C to +40 $^{\circ}$ C (14 $^{\circ}$ F to 104 $^{\circ}$ F)
Operating Humidity	85 %RH or less (no condensation)
Finish	Panel: ABS resin, black Case: Surface-treated steel plate, black, paint
Dimensions	420 (W) x 96.1 (H) x 313.1 (D) mm (16.54" x 3.78" x 12.33")
Weight	4.9 kg (10.8 lb)
Included Accessories	Power cord (2m (6.56 ft) x 1, Audio input removable terminal plug (3.81 mm, 5 pins) x 2, Control I/O removable terminal plug (3.81 mm, 4 pins) x 2, Remote control removable terminal plug (3.5 mm, 4 pins) x 1, Speaker out removable terminal plug (5 mm, 6 pins) x 1, Volume control cover x 4

Optional Accessories

Rack mounting bracket: MB-25B

Perforated panel: PF-013B

(*1) 0 dB = 1V

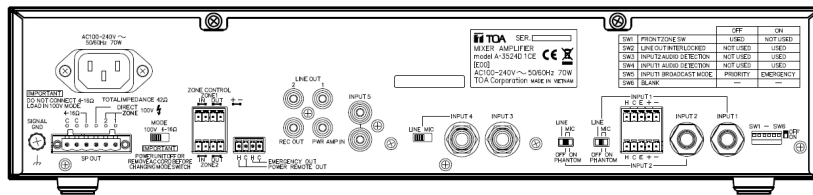
Product rear image



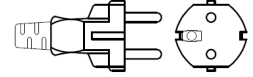
Dimensions

Rear View

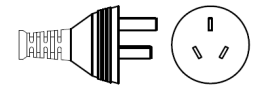
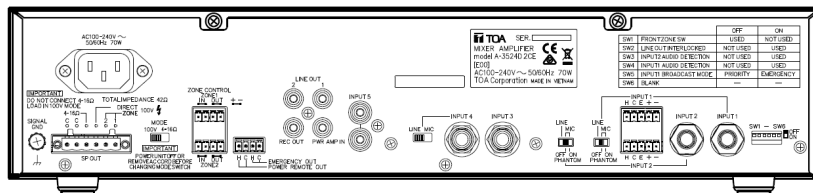
1CE
model



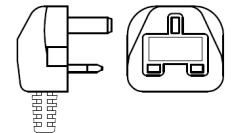
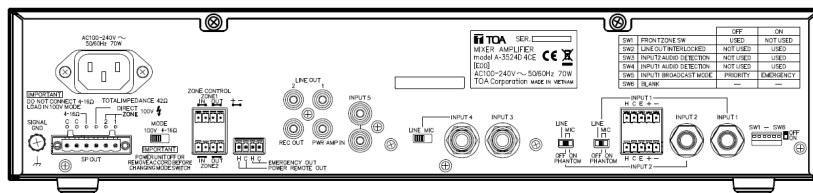
AC plug



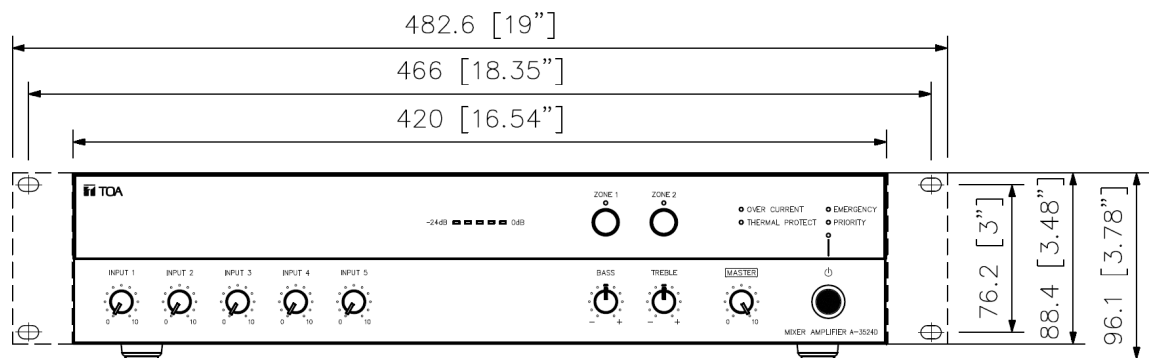
2CE
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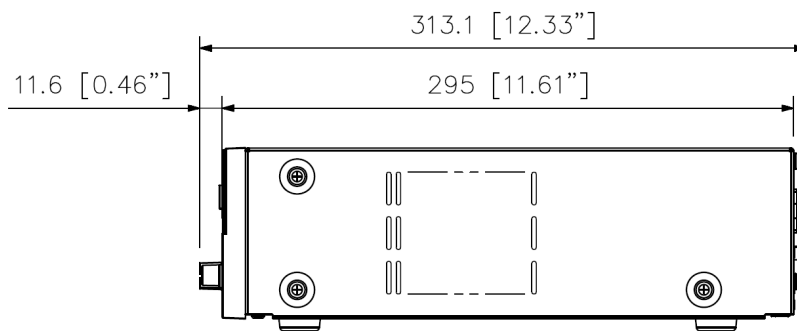
4CE
model



Front View



Side View



UNIT: mm

A&E specifications

The mixer amplifier shall use digital Class-D technology with active PFC (power factor correction) circuit to achieve a power output of 240 W and shall include 4 microphone inputs and 1 auxiliary input and switchable 100 V (42 Ω) line, or 4 - 16 Ω low impedance outputs.

Inputs 1 and 2 shall offer either electronically balanced 600 Ω MIC inputs or LINE inputs via a 5-pin removable terminal block or a #6.3 mm phone jack. MIC Inputs 1 and 2 shall have the switchable option of 24 V DC phantom power.

Input 3 shall be fixed electronically balanced 600 Ω input via a #6.3 mm phone jack. Input 4 shall be electronically balanced and selectable, offering MIC or LINE via a #6.3 mm phone jack. Input 5 shall be fixed unbalanced 10 k Ω input via two RCA connectors.

Power amplifier input shall also be available.

The mixer amplifier shall have two speaker output channels, a REC output, and two LINE outputs.

The device shall have an emergency priority that will broadcast at full volume regardless of the set value of the master volume controls.

The mixer amplifier shall have separate volume controls for each input channel and a master volume control that will adjust all input levels simultaneously.

There shall be a visual five-LED output level meter and visual LED indication of power, over current, thermal protection, emergency broadcast, and priority broadcast.

Power requirements shall be 100 - 240 V AC via a supplied power cord. The device shall have a frequency response of 50 Hz – 20 kHz with separate treble and bass controls located on the front panel.

The unit shall use 2 space units of a standard EIA component rack space and its dimensions shall be 420 (W) X 96.1 (H) X 313.1 (D) mm (16.54" x 3.78" x 12.33"). Weight shall be 4.9 kg (10.8 lb.) and finished in black ABS resin front panel, with black surface-treated steel plate case.

Optional extras; Rack Mounting Bracket: MB-25B, Perforated Panel: PF-013B, manufactured by TOA Corporation.

Manufacturer: TOA Corporation

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