



Digital Mixer Amplifier

A-3500D Series





A-3500D Series

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.

» Cost-effective Amplifier

The A-3500D series is an entry-level amplifier that has the minimum functions required for daily operations. With the right selection of rated output for an installation location, you will have even more cost-effective public address system.

» Audience Never Miss Important Notifications

Prioritized audio input mutes other audio signals using either control signal or audio detection as a trigger. The audience will hear intelligible voice announcements or other important notifications.

» Perfect Choice For Retail Tenants

A-3500D amplifier can be a local amplifier integrated with a building-wide voice alarm system. As the amplifier receives the emergency signal, which can automatically override the local sound, emergency messages will be delivered at the maximum level regardless of master output volume settings.



Application Example



School



Office



Factory

A-3500D Series Mixer Amplifier



A-3500D front



A-3500D rear

- 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

P-3548D Power Amplifier



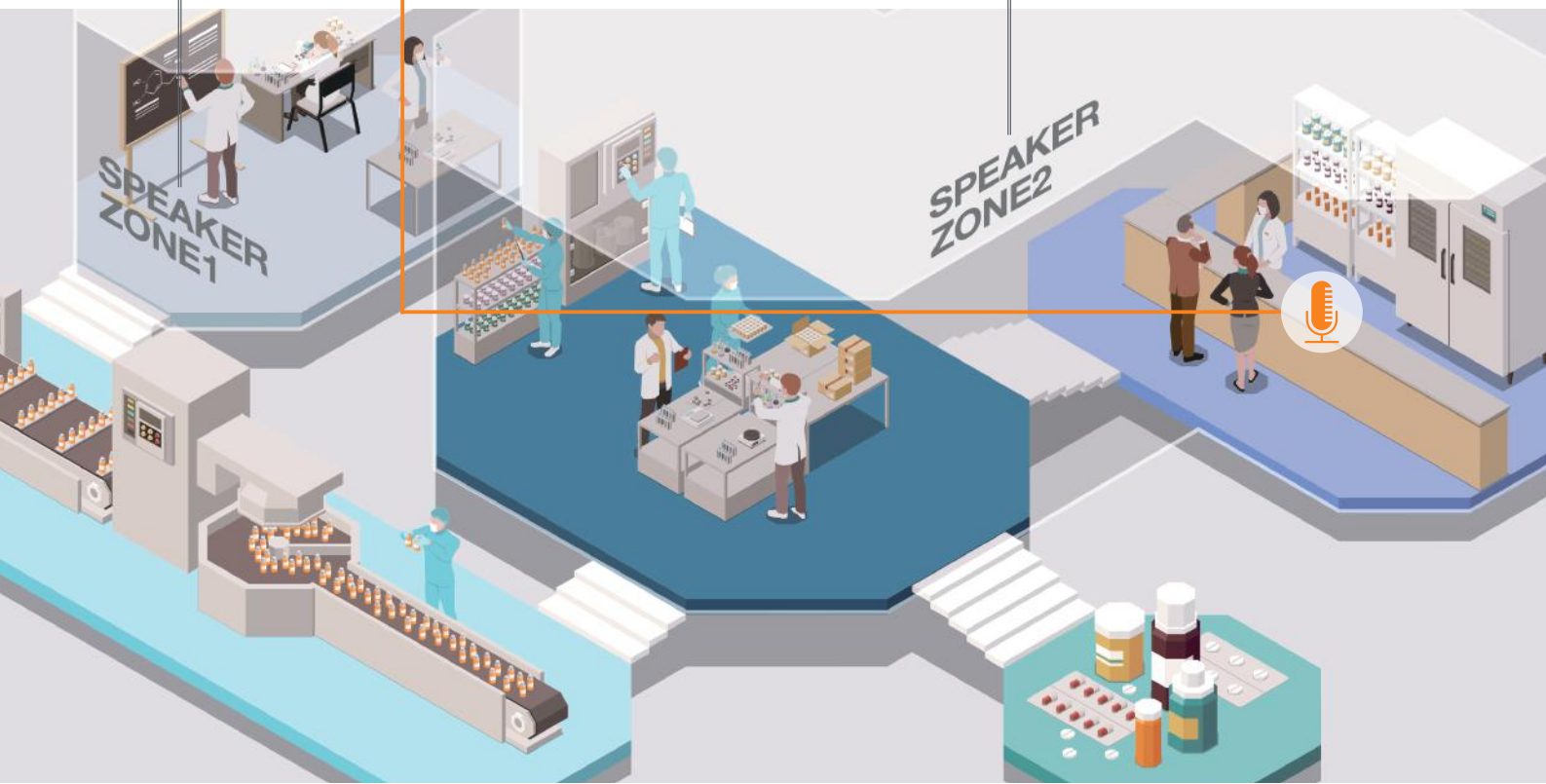
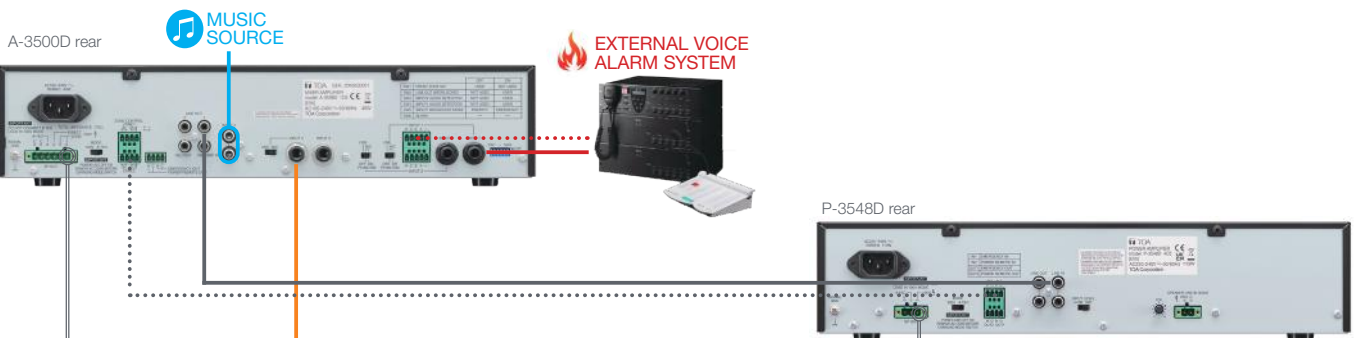
P-3548D front



P-3548D rear

- TOA class D amplifier for maximum efficiency
- 480 W output power
- Supplied with 1 line input
- Switchable 100V line or low impedance speaker output
- Can be used as a stand-alone amplifier or as a booster amplifier for the optional A-3600D/A-3500D series
- Capable of remote power ON/OFF and emergency broadcasting connected with optional A-3600D/A-3500D series

Application



Specifications

	A-3506D	A-3512D	A-3524D	A-3548D	P-3548D
Power Source	100 to 240 V AC, 50/60 Hz				
Rated Output	60W	120 W	240 W	480 W	
Power Consumption	96 W (rated output), 40 W (based on EN62368)	171 W (rated output), 48 W (based on EN62368)	314 W (rated output), 70 W (based on EN62368)	601 W (rated output), 113 W (based on EN62368)	
Current Consumption	200 mA or less (when power switch is OFF)				
Frequency Response	50 Hz to 20 kHz \pm 3 dB (1/8 rated output)				
Distortion	1 % or less at 1 kHz, rated power (20 kHz LPF (AUX-0025))				
Tone Control	Bass: \pm 10 dB at 100 Hz Treble: \pm 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)				90 dB or more (Master volume: min.) 76 dB or more (Master volume: max.) (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)/ \varnothing 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, \varnothing 6.3 mm phone jack (3P) INPUT 4: -60 dB* (MIC)/-20 dB* (LINE) selectable, 600 Ω , electronically-balanced, \varnothing 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				LINE IN: 0 dB*/-20dB* switchable, 600 Ω , transformer balances, RCA pin jack x 2 SPEAKER LINE IN: 40 dB* (100 V line), 65 k Ω , transformer balanced, removable terminal block (3P)
Audio Output	SPEAKER OUT: Low impedance (8 to 16 Ω)/High impedance (DIRECT, ZONE 1 / ZONE 2: 100 V/total 170 Ω) (ZONE 1/ZONE 2 is selectable, Max. 60 W per output), Removable terminal block (5.00 mm, 6 pins)	SPEAKER OUT: Low impedance (4 to 16 Ω)/ High impedance (DIRECT, ZONE 1/ZONE 2: 100 V/total 83 Ω) (ZONE 1/ZONE 2 is selectable, Max. 120 W per output), Removable terminal block (5.00 mm, 6 pins)	SPEAKER OUT: Low impedance (4 to 16 Ω)/ High impedance (DIRECT, ZONE 1/ZONE 2: 100 V/total 42 Ω) (ZONE 1/ZONE 2 is selectable, Max. 240 W per output), Removable terminal block (5.00 mm, 6 pins)	SPEAKER OUT: Low impedance (4 to 16 Ω)/ High impedance (DIRECT, ZONE 1/ZONE 2: 100 V/total 21 Ω) (ZONE 1/ZONE 2 is selectable, Max. 480 W per output), Removable terminal block (5.00 mm, 6 pins)	SPEAKER OUT: Low impedance (4 to 16 Ω)/ High impedance(21 Ω), Removable terminal block(3 pins)
	REC OUT: 0 dB *, 600 Ω , unbalanced, RCA pin jack				-
	LINE OUT 1, 2: 0 dB *, 600 Ω , unbalanced, RCA pin jack (Interlock with zone selection is possible)				LINE OUT: 0 dB *, 600 Ω , unbalanced, RCA pin jack x 2
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 (3.81 mm, 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 (3.81 mm, 4 pins)				POWER REMOTE 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), EMERGENCY IN: No-voltage make contact input, open voltage: 35 V DC 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 (3.50 mm, 4 pins) EMERGENCY OUT: Open collector output, withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (3.50 mm, 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 (3.81 mm, 4 pins)				POWER REMOTE OUT: Open collector output, withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (3.50 mm, 4 pins), EMERGENCY OUT: Open collector output, withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (3.50 mm, 4 pins)
Indicators	5-point LED level meter, Power indicator, Priority broadcast indicator, Emergency broadcast indicator, Thermal protection indicator, Over current protection indicator, Zone 2 indicator				5-point LED output level meter, Power indicator, Emergency indicator, Thermal protection indicator, Over current protection indicator
Operating Temperature	-10 to +40 $^{\circ}$ C (14 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 or 16,54" x 3.78" x 12.33"				
Weight	4.9 kg (10.08 lb)		5.1 kg (11.24 lb)		5 kg (11.02 lb)
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 (3.50 mm, 4 pins) x 1, Speaker out removable terminal plug (5.00 mm, 6 pins) x 1, Volume control cover x 4				Power cord (2m (6.56 ft)) x 1, Audio input removable terminal plug (5 mm, 2 pins) x 1, Control I/O removable terminal plug (3.5 mm, 4 pins) x 2, Speaker out removable terminal plug (5 mm, 3 pins) x 1, Volume control cover x 1
Optional products	Rack mounting bracket: MB-25B, Perforated panel: PF-013B				

* 0 dB = 1 V

DESCRIPTION

TOA's A-3500D Series is a PA amplifier equipped with 4 microphone inputs and 1 auxiliary inputs, and 2-channel zone selector. It employs a PFC circuit.

The A-3500D Series mixer amplifier is ideal for paging announcement and BGM applications in schools, offices, and super markets.

SPECIFICATIONS

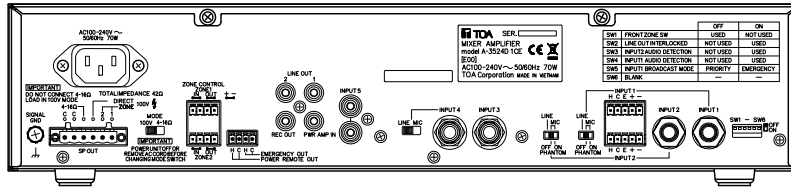
Power Source	100 – 240 V AC, 50/60 Hz
Rated Output	240 W
Power/Current Consumption	314 W (rated output), 70 W (based on EN62368), 200 mA or less (when power switch is OFF)
Frequency Response	50 Hz – 20 kHz ± 3 dB (1/8 rated output)
Distortion	1 % or less at 1 kHz, rated power (20 kHz LPF (AUX-0025))
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 – 4) 72 dB or more (INPUT 5) (A-weighted)
Audio Input	INPUT 1, 2: -60 dB (*1) (MIC)/ -20 dB (*1) (LINE) selectable, 600 Ω , electronically-balanced, removable terminal block (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 (*1), 600 Ω , electronically-balanced, $\phi 6.3$ mm phone jack (3P) INPUT 4: -60 dB (*1) (MIC)/ -20 dB (*1) (LINE) selectable, 600 Ω , electronically-balanced, $\phi 6.3$ mm phone jack (3P) INPUT 5: -20 dB (*1), 10 k Ω , unbalanced, RCA pin jack $\times 2$ PWR AMP IN: 0 dB (*1), 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 (*1), 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)
Indicators	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) \times 96.1 (H) \times 313.1 (D) mm (16.54" \times 3.78" \times 12.33")
Weight	4.9 kg (10.8 lb)
Accessory	Power cord (2 m (6.56 ft)) $\times 1$, Audio input removable terminal plug (3.81 mm, 5 pins) $\times 2$, Control I/O removable terminal plug (3.81 mm, 4 pins) $\times 2$, Remote control removable terminal plug (3.5 mm, 4 pins) $\times 1$, Speaker out removable terminal plug (5 mm, 6 pins) $\times 1$, Volume control cover $\times 4$
Option	Rack mounting bracket: MB-25B Perforated panel : PF-013B

(*1) 0 dB = 1 V

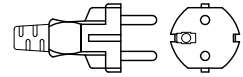
■ APPEARANCE

Rear View

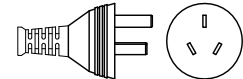
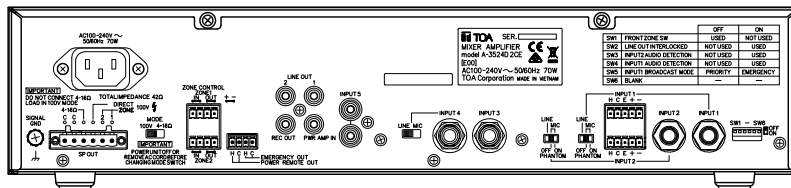
1CE model



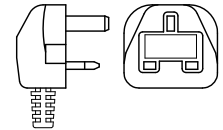
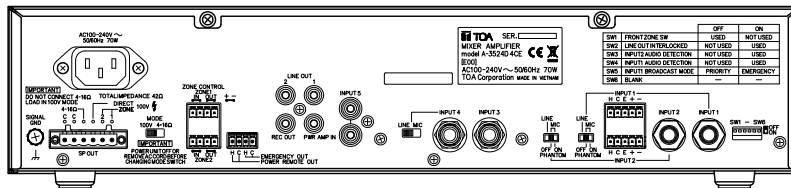
AC plug



2CE model



4CE model

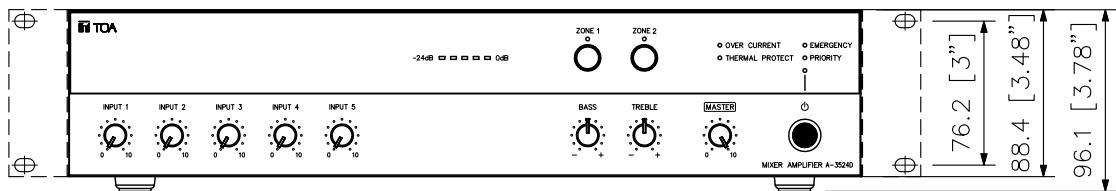


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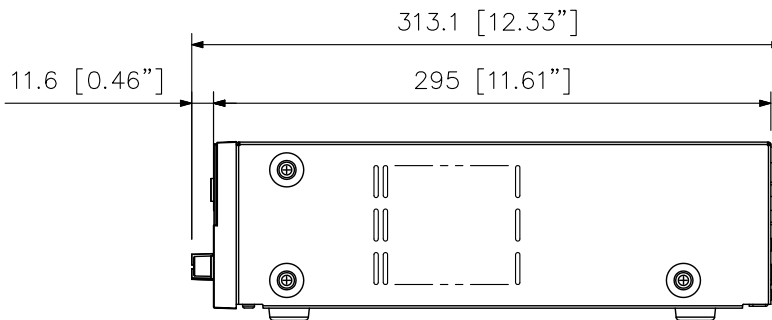
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Front View



Side View



UNIT:mm SCALE:1/4