TOA

Digital Mixer Amplifier

A-3600D Series



The industry leader in background music future-proofed

OVERVIEW

A-3600D Series Digital Mixer Amplifier provides maximum flexibility with up to seven inputs and up to 480 W of power. Browser based control and monitoring from anywhere reduces your time troubleshooting and adjusting systems.
Feedback suppressor, input priorities, a sleek new appearance, and TOA's legendary quality and reliability make this a perfect fit for background and foreground music, paging, and noise masking applications.

KEY FEATURES

» 4 selection of power amplifier output
 - 60W (A-3606D), 120W (A-3612D), 240W (A-3624D), 480W (A-3648D)
» TOA class D amplifiers for maximum efficiency
» Feedback Suppressor (Dynamic feedback filters)
» Speaker EQ (3 points equalizer)
» Assignable input priorities
» Built-in pre-announce chime
» IP protocol available

WEB BROWSER INTERFACE

Connect the A-3600D Digital Mixer Amplifier to a network to access the onboard browser interface. Static or Dynamic Host Configuration Protocol address assignment may be used. Browser Interface allows access to:

» Account ID (Username and Password) settings
» System status, including real time display of input and output levels
» Input priority settings
» Speaker EQ settings (3 points equalizer)
» Firmware updates



System requirements

PC running Windows 10 (64-bit)
Supported browsers: Microsoft Edge™*, Google Chrome™*, and Mozilla Firefox™*

Notes:
- Microsoft Windows, and Microsoft Edge are registered trademarks of Microsoft Corporation.
- Google Chrome is a registered trademark of Google LLC.
- Mozilla and Firefox are registered trademarks of the Mozilla Foundation.

KEY BENEFITS

1. Remote Troubleshooting

A web browser interface allows you to view input and output levels and amplifier status from your office location. A quick check can verify the need to dispatch a technician.

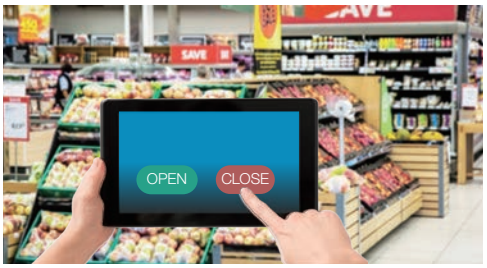
2. Remote Control

You can adjust the speaker volume either by the physical controls on the front panel of amplifier, by the optional remote volume controller, or on web browser.
IP control protocol is also available for further integrations and developments.

>> Volume adjustment on site*



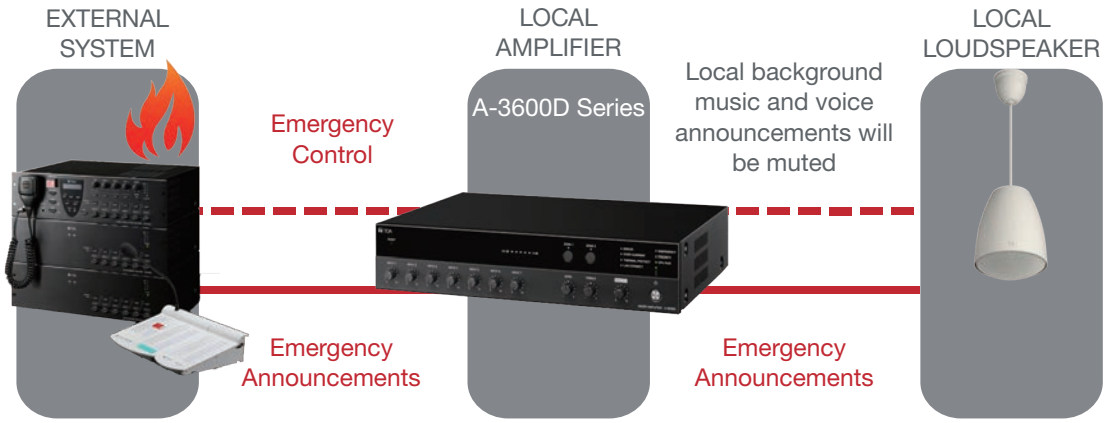
>> Open/close the store at a touch*



* IP protocols are available to develop combined user interface including sound system, air conditioning system, and lighting system.

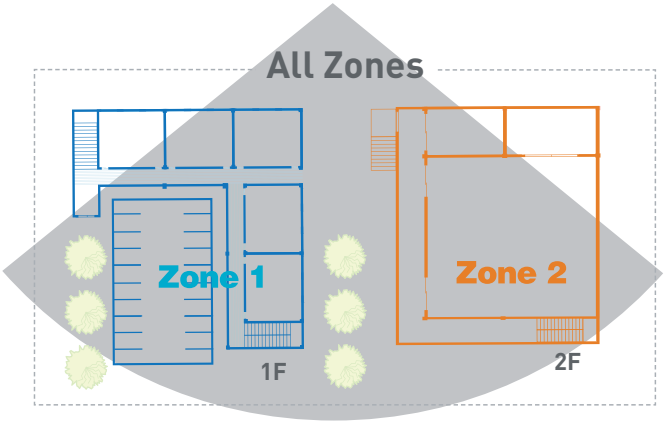
3. Emergency Voice Announcement

Integrate an external system to mute or override local sound. When the unit is set to override local sound, the broadcast is made at maximum level, regardless of output volume settings.



4. Two Zone Coverage

A-3600D Series Digital Mixer Amplifiers feature two speaker zones to which broadcasts can be sent independently or combined as desired. Emergency broadcasts will be heard in both zones.



SPECIFICATIONS

	A-3606D	A-3612D	A-3624D	A-3648D
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 ±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 6) 72 dB or more (INPUT 7) (A-weighted)			
Audio Input				
INPUT 1, 2	-60 dB* (MIC)/-20 dB* (LINE) selectable, 600 Ω, electronically-balanced, removable terminal block (3.81 mm, 3 pins) Note: MIC inputs are equipped with phantom power (24 V DC, ON/OFF switchable).			
INPUT 3, 4	-60 dB*, 600 Ω, electronically-balanced, removable terminal block (3.81 mm, 3 pins) Note: Equipped with phantom power (24 V DC, ON/OFF switchable).			
INPUT 5, 6	MIC (BUS 1)/LINE (BUS 2) selectable MIC: -60 dB* , 600 Ω, electronically-balanced, removable terminal block (3.81 mm, 3 pins) LINE: -20 dB*, 10 kΩ, unbalanced, RCA pin jack x 2			
INPUT 7	-20 dB*, 10 kΩ, unbalanced, RCA pin jack x 2			
Power Amplifier Input	0 dB*, 600Ω, unbalanced, RCA pin jack			
Input Bus				
INPUT 1 to 4	BUS 1			
INPUT 5, 6	BUS 1/BUS 2 selectable			
INPUT 7	BUS 2			
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)	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)	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)	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)			
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.)			
Control Input				
CONTROL IN	4 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, 4 pins)			
REMOTE VOLUME	Removable terminal block (3.50 mm, 4 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)			
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, withstand voltage: 30 V DC or less, control current: 25 mA or less, removable terminal block (3.81 mm, 4 pins)			
Chime	1-note, 2-note, or ascending 4-note chime or None selectable with switch setting			
Indicators	LED level meter, Power indicator, Network connection confirmation indicator, Priority broadcast indicator, Emergency broadcast indicator, Thermal protection indicator, Over-current protection indicator, CPU running indicator, Error indicator, and Zone indicator			
Operating Temperature	-10 to +40 ℃ (14 to 104 ℉)			
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	5 kg (11.02 lb)			5.2 kg (11.46 lb)

* 0 dB = 1 V

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Specifications are subject to change without notice for improvement. (2008) 833-61-100-58-00