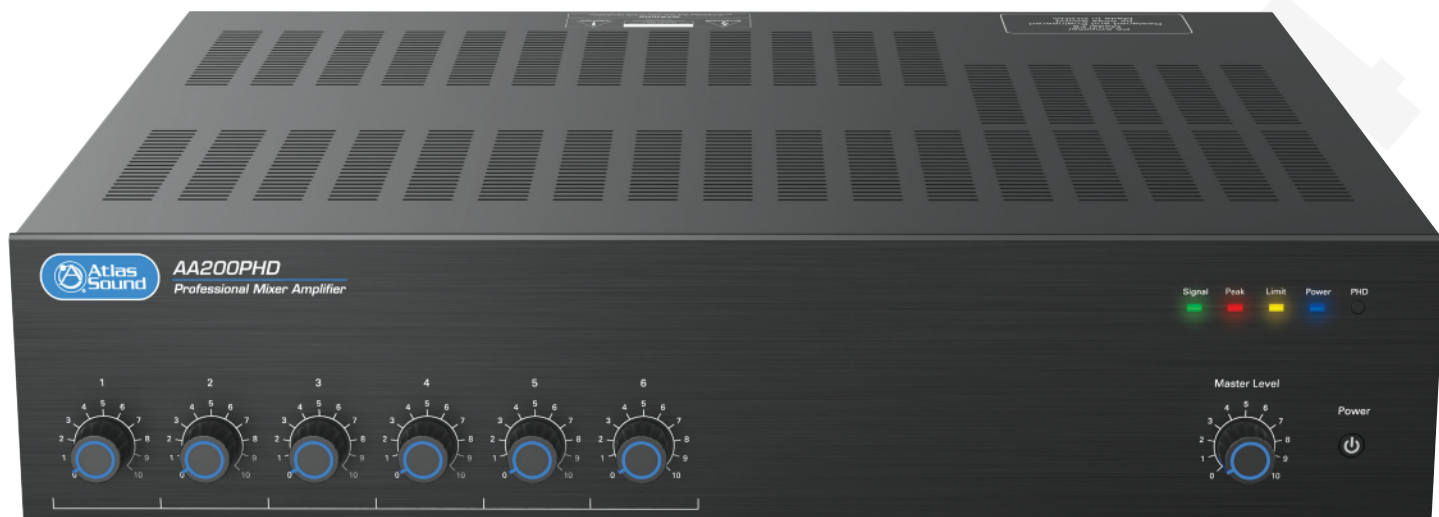




AA200PHD

200W Mixer Amplifier



AA200PHD

Features

- 200W Into 25V/70.7V and 4Ω Loads
- Automated Diagnostic System Test (Push Here Diagnostic)
- Four Balanced Mic/Line/Tel Inputs w/ Phantom Power
- Three Unbalanced, Summing Line Level Inputs
- Input Assignable Zone 2 Output
- Remote Level Control
- Remote Input Select (RIS)
- Line Output
- Preamp In for External Processors
- Variable Mute Sensitivity Control for Input 1
- Contact Closure Mute Terminals

Application

The Atlas Sound AA200PHD is the perfect choice for distributed business paging and background music (BGM) systems, small to medium speech privacy systems, and in applications where music on hold (MOH) plus paging is required.

General Description

The AA200PHD is a six input channel mixer amplifier designed for distributed business paging and background music (BGM) systems, medium to large speech privacy systems, and in applications where music on hold (MOH) plus paging is required.

With one microphone/line input and two stereo line inputs, the AA200PHD will accommodate a variety of input sources including paging microphones, media players, and digital music receivers. The AA200PHD includes a patent pending automatic system test, the Push Here Diagnostic (PHD). The PHD button is designed to check the connected speaker lines for wiring and impedance errors. This test can be activated once all speakers are connected and the circuit automatically verifies that the attached speakers' tap settings do not exceed the amplifier's rated power, no speakers are mistakenly tapped at 8Ω, and the speaker wire is free from shorts. The unit also incorporates a Remote Input Selection and Remote Level Control feature that allows the integrator to use a remote wall plate (Atlas Sound model WPD-RISRL) and allow the user to select the input and adjust the volume from that wall plate up to 200 feet from the amplifier.

The AA200PHD provides 200-watts output power into 25V, 70.7V, or 4Ω speaker systems. Rear panel DIP switch allows for creation of Zone 2 output mix using any or all of inputs 1-4. Unit can also be set-up to mute Inputs 2 through 6 on signal from Input 1 for paging applications where other input sources need to be muted during a page. Inputs 1-4 are either Mic or Line input selectable and Phantom Power is an option when using them as a microphone input.

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Specifications

Type	Mixer Amplifier
RoHS Compliant	Yes
Safety Listings	ETL (UL 60065 Standard)

Electrical Specifications

Power Output Max. Average Power @ 50Hz-15kHz with .5% THD, 4Ω 200W RMS

Transformer Outputs	25V	200W RMS
	70.7V	200W RMS
	4Ω	200W RMS

Front Panel

Power Switch	Push Type
Indicators	Signal, Peak, Limit, Power
PHD Test Circuit	Push Momentary
Level Controls	Master, Inputs 1 - 6

Rear Panel

Inputs	Mic / Line Balanced Qty 4, 3 Position PHX Type. 3.5mm Pitch
	Auxiliary Unbalanced Qty 2, RCA
	Auxiliary Unbalanced Qty 1, 3.5mm
	Amp In: Unbalanced RCA 600Ω
Tone Controls	Bass ±6dB @ 100Hz
	Treble ±6dB @ 10kHz
Mute	VOX Sensitivity: Pot Rotary, Range (-) 500uV +/-200uV Remote Mute: Contact Closure, 2 Position Phoenix, 3.5mm Pitch

Remote Level

Type	10V DCV Return
Connector	4 Position Phoenix 3.5mm Pitch
Control Port	Input 2
Control Port	Input 4, 5, 6 or DIP Switch Assigned Master
Supply Port	10VDC Send
Ground Port	Ground

Remote Input Select (RIS)

Type	Ground Activated
Connector	4 Position Phoenix 3.5mm Pitch
Inputs Controlled	4, 5, 6

Control Switch Functions

Zone 2 Assign	Inputs 1, 2, 3, 4
Mute Receive	Inputs 1, 2, 3, 4, 5, 6

Phantom Power	Inputs 1, 2, 3, 4
Mic/Line Select	Inputs 1, 2, 3, 4
Remote Level	Assigned Master or Inputs 4, 5, 6
RIS	On/Off

Outputs

Main	Transformer Coupled, Balanced, 4Ω, 25V, and 70.7V. Class 2 Rated, Removable 4 Position PHX 5.08mm Pitch, Accepts up to 12 - 24 Gauge Wire, 12A Rating
Zone 2	Unbalanced 600Ω / 10kΩ, Max 1.0V Out, Removable 2 Position PHX 3.50 Pitch, Accepts up to 18 - 26 Gauge Wire, 8A Rating
Pre Out	RCA, Unbalanced 150Ω

Technical Data

Inputs	Total Qty 4
Frequency Response	50Hz - 15kHz +/- 3dB
Thd+N	0.5% or Less, at 1kHz, Rated Output
Input Sensitivity / Impedance	Input 1, 2, 3, 4 - Mic Mode 5mv, No Trim, 1200Ω
	Input 1, 2, 3, 4 - Line Mode 316mV (-10dBV) 1200Ω
	Input 4 - 3.5mm Summed, 3, 4 316mV (-10dBV) 10kΩ
	Input 4, 5, 6 - RCA Unbalanced Summed 316mV (-10dBV) 10kΩ
Signal To Noise Ratio	Mic >55dB
	Line >55dB
	Telephone >55dB
	Input 5, 6 >75dB
Phantom Power	24VDC

Power Requirements

AC Mains	120V 60Hz
AC Cord	2M, 18 Gauge, NEMA 5-20P
Idle Power	.07A, 6W, 39 BTU
Average Power	.28A, 30W, 101 BTU
Max Power	.86A, 89W, 303 BTU

Mechanical

Chassis	Steel
Finish	Black Paint on Front and Top
Height	3.66" (93mm)
Width	16.54" (420mm)
Depth	14.6" (422mm)

Architect and Engineer Specifications

The mixer/amplifier shall control and mix up to six input signals and deliver an audio output of 200 Watts into 4 Ω , 25V, and 70.7V. The amplifier output shall be transformer isolated with a frequency response 50Hz – 15kHz (-3dB) with less than 0.5% THD at rated output. It shall be capable of operation at 120VAC 60Hz line. The mixer/amplifier shall be convection cooled. The amplifier shall have thermal and short circuit protection.

The mixer/amplifier shall have four switch-selectable MIC/TEL balanced inputs to accept either low impedance microphone or Tel/Line Level signals with -60/-10dBV sensitivity. The MIC/TEL input shall include a Phoenix (Euro Block) type connector. The MIC/TEL input impedance shall be 600 Ω . On Input 1, the MIC/TEL input shall include an auto mute (VOX Mute) sensitivity control for Input 1. The MUTE SENSE control will allow threshold adjustment of mute activation. The mixer/amplifier shall also include an input with a summed stereo 3.5mm input and balanced Phoenix type connector. The mixer/amplifier shall include two stereo summing auxiliary inputs, unbalanced, -10dBv, with dual-RCA jacks. The auxiliary input impedance shall each be 10k Ω . The mixer/amplifier shall include one Zone 2 output, a transformer isolated 600 Ω output with a maximum level of 1.0VRMS. The mixer/amplifier Zone 2 output shall be assignable from Input 1, 2, 3 or 4 via the rear panel dip switch. The Zone 2 output shall have one rear panel mounted rotary level control. The mixer/amplifier shall incorporate rear panel terminals via Phoenix connector for the REMOTE MUTE function, controlled by an external switch closure. A rear panel dip switch shall allow assignment of Input 2, 3, 4, 5, and/or 6 to respond to the mute function activation. The Mute assignment shall not affect the Zone 2 output.

The mixer/amplifier shall have a Pre-Out RCA unbalanced output. The mixer/amplifier shall have a Power Amp input for use with an external signal processor. The mixer/amplifier shall include the Push Here Diagnostic system test circuitry. This test will allow for automatic testing of the connected speaker lines for wiring and impedance errors. The mixer/amplifier shall include Phoenix connectors for both Remote Level Control and Remote Input Selection, which can be activated using the rear panel DIP switches. The Remote Input Selection circuitry shall work with Atlas Sound wall plate WPD-RISRL and allow Inputs 4, 5, and 6 or the Master Level only to be remotely connected, selected, and adjusted from the wall plate. The AA200PHD front panel shall include Inputs 1, 2, 3, 4, 5, and 6 level controls as well as a Master Level control adjustment. System Signal, Peak, Limit, and Power LEDs shall also be incorporated. The mixer/amplifier rear panel shall also include bass and treble tone controls (100Hz and 10kHz, \pm 10dB). The tone controls shall not affect the Zone 2 output. The mixer/amplifier front panel shall include an AC Mains power switch.

Dimensions (W x H x D) shall be 16.54" x 3.66" x 14.6" (420mm x 93mm x 422mm) with feet or 3.48" (88.4mm) H without feet. Front panel finish and material shall be black ABS resin and case finish (and material) shall be black painted sheet steel.